

# questionnaire

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## a survey on the application areas for Green Technologies

This is a questionnaire conducted under the SuperGreen project, Task 3.2. Its objective is to assess the greening potential of each technology identified in Task 3.1, applicable to specific activities in each of the Green Corridors listed on Page 2.

Close to this questionnaire, you may find a collection of technologies from different categories (engines & propulsion, cargo handling, fuels, etc.).

*Your collection of technologies includes a few selected ones from several selected categories. You will have to ignore the categories that are not referred in your technologies collection table.*

For all the technologies identified in this table of every category, please:

1. Fill the questions' template. Questions are the same for all technologies and all categories.
2. You will have to copy, paste and fill the questions' template as many times as the technologies.

**We thank you very much for your cooperation!**

## GREEN CORRIDORS

ACRONYM	BRIEF DESCRIPTION- BRANCHES	NICKNAME
<b>BerPal</b>	Malmö-Trelleborg-Rostock/Sassnitz- Berlin-Munich-Salzburg-Verona-Bologna-Naples-Messina-Palermo Branch A: Salzburg-Villach-Trieste (Tauern axis) Branch B: Bologna-Ancona/Bari/Brindisi-Igoumenitsa/Patras-Athens	<b>Brenner</b>
<b>MadPar</b>	Madrid-Gijon-Saint Nazaire-Paris Branch A: Madrid-Lisboa	<b>Finis Terrae</b>
<b>CorMun</b>	Cork-Dublin-Belfast-Stranraer Branch A: Munich-Friedewald-Nuneaton Branch B: West Coast Main line	<b>Cloverleaf</b>
<b>HelGen</b>	Helsinki-Turku-Stockholm-Oslo-Göteborg-Malmö-Copenhagen (Nordic triangle including the Oresund fixed link)- Fehmarnbelt - Milan - Genoa	<b>Edelweiss</b>
<b>RotMos</b>	Motorway of Baltic sea Branch: St. Petersburg-Moscow-Minsk-Klapeida	<b>Nureyev</b>
<b>RhiDan</b>	Rhine/Meuse-Main-Danube inland waterway axis Branch A: Betuwe line Branch B: Frankfurt-Paris	<b>Strauss</b>
<b>AthDre</b>	Igoumenitsa/Patras-Athens-Sofia-Budapest-Vienna-Prague-Nurnberg/Dresden-Hamburg	<b>Two Seas</b>
<b>SinOde</b>	Odessa-Constanta-Bourgas-Istanbul-Piraeus-Gioia Tauro-Cagliari-La Spezia-Marseille-Barcelona-Valencia-Sines Branch A: Algeciras-Valencia-Barcelona-Marseille-Lyon Branch B: Piraeus-Trieste	<b>Mare Nostrum</b>
<b>CNHam</b>	Shanghai-Le Havre/Rotterdam-Hamburg/Göteborg-Gdansk-Baltic ports-Russia Branch: Xiangtang-Beijing-Mongolia-Russia-Belarus-Poland-Hamburg	<b>Silk Way</b>

# Section 1:

## <<Engines & Propulsion Systems>>

EN Technology: EN08  
Gas turbine

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## EN Technology: EN09 Steam turbine

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## EN Technology: EN10 Water jet

☐ Railway  
☐ Road  
☐ Multimodal

x Maritime  
x Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## EN Technology: EN11 Diesel-Electric propulsion

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## EN Technology: EN21 Nauticlean S System

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 2:

# <<Fuels & Sources of Energy>>

**FU Technology: FU01**  
Ultra-low sulphur diesel

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU02 Ethanol and bio-diesel

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**FU Technology: FU03**  
CGN (compressed natural gas)

☐ Railway  
☐ Road  
☐ Multimodal

x Maritime  
x Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU04

Solar power network

☐ Railway  
☐ Road  
☐ Multimodal

x Maritime  
x Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU05

Alternative maritime power (AMP)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU06

Wind energy

☐ Railway  
☐ Road  
☐ Multimodal

x Maritime  
x Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## FU Technology: FU08 LNG

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU14

Hydrogen

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU18

Biogas

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## FU Technology: FU22

Fuel cell

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## Section 3:

# <<Cargo Handling & Transfer >>

**HT Technology: HT01**  
Conversion of RTGs from  
diesel to electric power

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT02

VSE (variable speed engines)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Applicable
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## HT Technology: HT03

Hybrid hydraulic drive  
for Terminal tractors

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT04

RTG power convertor

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## HT Technology: HT05

Timer devices for handling equipment

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT06

Mains-powered RTG (MP-RTGs)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT07

Low emission engines

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT09

Green schemes to improve RTGs emissions and noise

☐ Railway  
☐ Road  
☐ Multimodal

x Maritime  
x Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## HT Technology: HT11

Cargo Cassette and Translifter  
for cargo cassette

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT12

Conro - combined container - roro

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT13

Automated container terminal

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT14

Roll trailer technology

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## HT Technology: HT15

Double stack on cassette  
or roll trailer

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## HT Technology: HT16

Barge-mothership system

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 5:

### <<Innovative Units & Treatment >>

LU Technology: LU03  
Loading plate

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## LU Technology: LU04

Trailer stand

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## Section 7:

# <<Navigation Technologies >>

**NA Technology: NA02**  
Automatic Identification System (AIS)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA03

AIS Application-Specific Messages

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA04 Satellite AIS

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA05 ECDIS

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## NA Technology: NA06 eLoran (Enhanced Loran)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

**NA Technology: NA07**  
Global Navigation Satellite Systems  
or GNSS (GPS etc.)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA08 Radar

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA09

Radarsat 1 and 2

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## NA Technology: NA10

Radarsat Constellation

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA11 LRIT

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA12

GEO satellites

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA13

LEO satellites

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



## NA Technology: NA14

Inmarsat

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

- indicating whether the technology can be applicable or not,
- rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA15

WiMax – Worldwide Interoperability for  
Microwave Access

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## NA Technology: NA16

Advising Tempomaat

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 8:

### <<Best Practices >>

**BP Technology: BP08**  
Coaster Express (CoEx)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



**BP Technology: BP09**  
AMECS (Advanced Emission Control System)

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

The End  
Many thanks for your cooperation

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# questionnaire

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## a survey on the application areas for Green Technologies

This is a questionnaire conducted under the SuperGreen project, Task 3.2. Its objective is to assess the greening potential of each technology identified in Task 3.1, applicable to specific activities in each of the Green Corridors listed on Page 2.

Close to this questionnaire, you may find a collection of technologies from different categories (engines & propulsion, cargo handling, fuels, etc.).

*Your collection of technologies includes a few selected ones from several selected categories. You will have to ignore the categories that are not referred in your technologies collection table.*

For all the technologies identified in this table of every category, please:

1. Fill the questions' template. Questions are the same for all technologies and all categories.
2. You will have to copy, paste and fill the questions' template as many times as the technologies.

**We thank you very much for your cooperation!**

## GREEN CORRIDORS

ACRONYM	BRIEF DESCRIPTION- BRANCHES	NICKNAME
<b>BerPal</b>	Malmö-Trelleborg-Rostock/Sassnitz- Berlin-Munich-Salzburg-Verona-Bologna-Naples-Messina-Palermo Branch A: Salzburg-Villach-Trieste (Tauern axis) Branch B: Bologna-Ancona/Bari/Brindisi-Igoumenitsa/Patras-Athens	<b>Brenner</b>
<b>MadPar</b>	Madrid-Gijon-Saint Nazaire-Paris Branch A: Madrid-Lisboa	<b>Finis Terrae</b>
<b>CorMun</b>	Cork-Dublin-Belfast-Stranraer Branch A: Munich-Friedewald-Nuneaton Branch B: West Coast Main line	<b>Cloverleaf</b>
<b>HelGen</b>	Helsinki-Turku-Stockholm-Oslo-Göteborg-Malmö-Copenhagen (Nordic triangle including the Oresund fixed link)- Fehmarnbelt - Milan - Genoa	<b>Edelweiss</b>
<b>RotMos</b>	Motorway of Baltic sea Branch: St. Petersburg-Moscow-Minsk-Klapeida	<b>Nureyev</b>
<b>RhiDan</b>	Rhine/Meuse-Main-Danube inland waterway axis Branch A: Betuwe line Branch B: Frankfurt-Paris	<b>Strauss</b>
<b>AthDre</b>	Igoumenitsa/Patras-Athens-Sofia-Budapest-Vienna-Prague-Nurnberg/Dresden-Hamburg	<b>Two Seas</b>
<b>SinOde</b>	Odessa-Constanta-Bourgas-Istanbul-Piraeus-Gioia Tauro-Cagliari-La Spezia-Marseille-Barcelona-Valencia-Sines Branch A: Algeciras-Valencia-Barcelona-Marseille-Lyon Branch B: Piraeus-Trieste	<b>Mare Nostrum</b>
<b>CNHam</b>	Shanghai-Le Havre/Rotterdam-Hamburg/Göteborg-Gdansk-Baltic ports-Russia Branch: Xiangtang-Beijing-Mongolia-Russia-Belarus-Poland-Hamburg	<b>Silk Way</b>

# Section 1: <<Engines & Propulsion Systems>>

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## Section 2:

# <<Fuels & Sources of Energy>>

**FU Technology:** FU01 Ultra-low sulphur diesel

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

According to the valid directive/national laws sulphur content shall be under 0,005 %. As the most part of mainlines of European railways has been electrified, so ultra-low sulphur diesel is only useful for diesel traction on second-lines and shunting.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Standard diesel oil on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above



# <<Fuels & Sources of Energy>>

**FU Technology:** FU01 Ultra-low sulphur diesel

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

According to the valid directive/national laws sulphur content shall be under 0,005 %. SO2 emissions from road traffic is very low.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

Standard diesel oil on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

- d) indicating whether the technology can be applicable or not,  
e) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
f) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Technology is in use
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU02 Ethanol  
and bio-diesel

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Bioethanol is blended with gasoline and is used mainly on light duty vehicles as delivery vans and short distances. There is first-generation, second generation and third-generations biodiesels in research and development and in use blended with petrodiesel or used alone. More expensive than petrodiesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following

corridors and branches:

g) indicating whether the technology can be applicable or not,

h) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

i) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Technology is in use
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU03 CNG  
(Compressed natural gas)

☐ Railway ☐ Maritime  
☐ Road ☐ Inland Waterway  
☒ Multimodal

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

CNG for multimodal yard handling equipment is environmentally sustainable as it produces significantly less emissions of pollutants and is cheaper than diesel oil. CNG needs investments for refuelling infrastructure and natural gas supply.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

- j) indicating whether the technology can be applicable or not,  
k) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
l) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	x Yes <input type="checkbox"/> No	5 %	Only for multimodal yard engines
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above
	Branch B	x Yes <input type="checkbox"/> No	5 %	As above
Finis Terrae	Main	x Yes <input type="checkbox"/> No	5 %	As above
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above
Cloverleaf	Main	x Yes <input type="checkbox"/> No	5 %	As above
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above
	Branch B	x Yes <input type="checkbox"/> No	5 %	As above
Edelweiss	Main	x Yes <input type="checkbox"/> No	5 %	As above
Nureyev	Main	x Yes <input type="checkbox"/> No	5 %	As above
Strauss	Main	x Yes <input type="checkbox"/> No	5 %	As above
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above
	Branch B	x Yes <input type="checkbox"/> No	5 %	As above
Two Seas	Main	x Yes <input type="checkbox"/> No	5 %	As above
Mare Nostrum	Main	x Yes <input type="checkbox"/> No	5 %	As above
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above
	Branch B	x Yes <input type="checkbox"/> No	5 %	As above
Silk way	Main	x Yes <input type="checkbox"/> No	5 %	As above
	Branch A	x Yes <input type="checkbox"/> No	5 %	As above

# <<Fuels & Sources of Energy>>

**FU Technology:** FU07 HFO  
(Reference)

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact on of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Heavy fuel oil cannot be used in rail vehicles. It's cheap and sulphur content is high.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 m) indicating whether the technology can be applicable or not,  
 n) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

o) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



# <<Fuels & Sources of Energy>>

**FU Technology:** FU07 HFO  
(Reference)

☐ Railway  
☐ X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Heavy fuel oil cannot be used in road vehicles. It's cheap and sulphur content is high.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- p) indicating whether the technology can be applicable or not,  
q) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

r) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU08 LNG

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

LNG offers high energy density and is therefore good choice in term of autonomy and range.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Gas filling infrastructure is needed. The life cycle of railway engines is long.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- s) indicating whether the technology can be applicable or not,
  - t) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

u) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

# <<Fuels & Sources of Energy>>

FU Technology: FU08 LNG

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      X 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

LNG filling station network is needed.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 v) indicating whether the technology can be applicable or not,  
 w) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

x) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	LNG filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU09 LBG

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Gas filling infrastructure is needed. The life cycle of railway engines is long.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- y) indicating whether the technology can be applicable or not,
  - z) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

aa) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above



# <<Fuels & Sources of Energy>>

FU Technology: FU09 LBG

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      X 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

LBG filling station network is needed.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 bb) indicating whether the technology can be applicable or not,  
 cc) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

dd) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	LBG filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU10 Vegetable oil

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Vegetable oil based first-generation biodiesel threatened food supplies and biodiversity. More expensive than petrodiesel. Blended with petrodiesel.

As the most part of mainlines of European railways has been electrified, so biodiesel is only useful for diesel traction on second-lines and shunting

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

First-generation biodiesel is on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

ee) indicating whether the technology can be applicable or not,  
ff) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
gg) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only with diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

# <<Fuels & Sources of Energy>>

**FU Technology:** FU10 Vegetable oil

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Vegetable oil based first-generation biodiesel threatened food supplies and biodiversity. More expensive than petrodiesel. Blended with petrodiesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

First-generation biodiesel is on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
hh) indicating whether the technology can be applicable or not,

ii) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

jj) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Biodiesel can be applied alone or blended with petrodiesel.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU11 Algae oil

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Third-generation biofuel. Economy is the main challenge. As the most part of mainlines of European railways has been electrified, so biofuel is only useful for diesel traction on second-lines and shunting.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Algae oil is still under research and development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

kk) indicating whether the technology can be applicable or not,  
 ll) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 mm) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above



# <<Fuels & Sources of Energy>>

FU Technology: FU11 Algae oil

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Third-generation biofuel. Economy is the main challenge.

2. Please rate this technology according to your aspect towards its maturity.

X > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Algae oil is still under research and development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
nn) indicating whether the technology can be applicable or not,  
oo) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

pp) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Biofuel can be applied alone or blended with petrodiesel.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU12 Biodiesel

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

First-generation biodiesel threatened food supplies and biodiversity. More expensive than petrodiesel. As the most part of mainlines of European railways has been electrified, so biodiesel is only useful for diesel traction on second-lines and shunting

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

First-generation biodiesel is on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 qq) indicating whether the technology can be applicable or not,

rr) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

ss) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

# <<Fuels & Sources of Energy>>

FU Technology: FU12 Biodiesel

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

First-generation biodiesel threatened food supplies and biodiversity. More expensive than petrodiesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

First-generation biodiesel is on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 tt) indicating whether the technology can be applicable or not,  
 uu) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

vv) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Biodiesel can be applied alone or blended with petrodiesel.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

## FU Technology: FU13 Electricity

- ☐ Railway  
☒ Road  
☐ Multimodal
 ☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Electricity is usable for short-distances and delivery. Effectiveness depends on the technology of electricity generation.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years
 ☐ 1 to 5 years
 ☐ < 1 year

Please expand on the above, if necessary.

HDV electricity vehicles is under development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 ww) indicating whether the technology can be applicable or not,

xx) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

yy) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Electricity is usable for short-distances and delivery
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



# <<Fuels & Sources of Energy>>

**FU Technology:** FU13 Electricity

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

As the most part of mainlines of European railways has been electrified, so electricity is very effective technology to decrease CO2 emissions. Effectiveness depends on the technology of electricity generation.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

zz) indicating whether the technology can be applicable or not,  
aaa) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
bbb) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	Technology can be applied only with electric traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80 %	As above

# <<Fuels & Sources of Energy>>

## FU Technology: FU14 Hydrogen

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Hydrogen has low energy content per unit volume. Hydrogen has low emissions in use, instead production of hydrogen with fossil energy resources include the emission.

2. Please rate this technology according to your aspect towards its maturity.

X > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Hydrogen filling station network is needed.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
ccc) indicating whether the technology can be applicable or not,

ddd) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

eee) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Hydrogen filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU15 Biodiesel  
(BTL)

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

BTL-biodiesel is second-generation biofuel. Can be used alone or blended with conventional diesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Production processes is still under development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 fff) indicating whether the technology can be applicable or not,  
 ggg) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

hhh) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU15 Biodiesel  
(BTL)

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

BTL-biodiesel is second-generation biofuel. Can be used alone or blended with conventional diesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Production processes is still under development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 iii) indicating whether the technology can be applicable or not,  
 jij) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

kkk) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above



# <<Fuels & Sources of Energy>>

## FU Technology: FU16

Bioethanol

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Bioethanol is blended with gasoline and is used mainly on light duty vehicles as delivery vans and short distances.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

Bioethanol is ready for the market blended with gasoline.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
III) indicating whether the technology can be applicable or not,

mmm) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

nnn) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Blended with gasoline and used mainly in LDV.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU16

Bioethanol

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Bioethanol is blended with gasoline and is used mainly on light duty vehicles as delivery vans and short distances. Railway engines uses dieseloil.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Ready on the market.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 ooo) indicating whether the technology can be applicable or not,

ppp) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

qqq) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0 %	Railway engines uses diesel oil.
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU17 Bio-DME

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

DME requires new refueling system and new engines. It's not suitable to blend with conventional fuels.

DME has high emission reduction potential.

2. Please rate this technology according to your aspect towards its maturity.

X > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Still under research and development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
rrr) indicating whether the technology can be applicable or not,  
sss) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

ttt) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU17 Bio-DME

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

DME requires new refueling system and new engines. It's not suitable to blend with conventional fuels.

DME has high emission reduction potential.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Still under research and development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

uuu) indicating whether the technology can be applicable or not,

vvv) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

www) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above



# <<Fuels & Sources of Energy>>

FU Technology: FU18 Biogas

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Only for short distances.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      X 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Gas filling station network is needed.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

xxx) indicating whether the technology can be applicable or not,

yyy) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

zzz) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Gas filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU18 Biogas

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Gas filling infrastructure is needed. The life cycle of railway engines is long.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 aaaa) indicating whether the technology can be applicable or not,  
 bbbb) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

cccc) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	Technology can be applied only diesel traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

# <<Fuels & Sources of Energy>>

**FU Technology:** FU19 HVO  
(hydrotreated vegetable oil, BTL)

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Second-generation biofuel (BTL). Can be used alone or blended with conventional diesel.

More expensive than standard diesel.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Biofuel is in use blended with conventional diesel.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 dddd) indicating whether the technology can be applicable or not,  
 eeee) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

ffff) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

**FU Technology:** FU20 Liquid  
Methane Gas

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

LNG filling station network is needed.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 gggg) indicating whether the technology can be applicable or not,  
 hhhh) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

iii) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	LNG filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		



# <<Fuels & Sources of Energy>>

FU Technology: FU21 Bio-DME

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

DME requires new refuelling system and new engines. It's not suitable to blend with conventional fuels

DME has high emission reduction potential.

2. Please rate this technology according to your aspect towards its maturity.

X > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Still under research and development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
jjjj) indicating whether the technology can be applicable or not,  
kkkk) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

III) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

# <<Fuels & Sources of Energy>>

FU Technology: FU22 Fuel cell

☐ Railway  
X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	x	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Hydrogen has low emissions in use, instead production of hydrogen with fossil energy resources include the emission. Fuel cell technology is still expensive.

2. Please rate this technology according to your aspect towards its maturity.

X > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

Fuel cell technology is still under development.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
mmmm) indicating whether the technology can be applicable or not,

nnnn) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

oooo) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	Hydrogen filling station network is needed.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 3: <<Cargo Handling & Transfer >>

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## Section 4: <<Heating & Cooling >>

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## Section 5:

### <<Innovative Units & Treatment >>

#### EN Technology:

LU01 Transshipment of standard semi-trailers from the road to the rail

X Railway  
X Road  
X Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

There are different technologies on the market. It is unlikely to see technology in the short term because horizontal transfer options are still expensive.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      X 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 pppp) indicating whether the technology can be applicable or not,  
 qqqq) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 rrrr) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

# <<Innovative Units & Treatment >>

LU Technology: LU02 SECU unit

X Railway  
☐ Road  
☐ Multimodal

X Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cost savings 10 to 15 %. Used only in railway (Finland, Sweden) and maritime transports between Scandinavia and main European ports.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

Already in use for Stora Enso paper products transportation.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 ssss) indicating whether the technology can be applicable or not,



tttt) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

uuuu) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	40	Not in use Fehrmanbelt to Genoa
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## <<Innovative Units & Treatment >>

LU Technology: LU05 2,5 wide container

☐ Railway  
☐ Road  
☒ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Pallet-wide container has more room to load Europallets and therefore improve efficiency.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Already in use.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
vvvv) indicating whether the technology can be applicable or not,  
www) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

xxxx) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

## Section 6:

### <<Vehicles >>

**VE Technology: VE23 APU**  
(Auxiliary Power Unit)

X Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

It's impossible to make rating because there is not enough information what is the main idea with the Auxiliary Power Unit. If the idea is onboard energy storage system the rating has been made in point VE26

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 yyyy) indicating whether the technology can be applicable or not,  
 zzzz) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 aaaaa) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		

## <<Vehicles >>

**VE Technology: VE24 Metering**  
technology for traction energy  
consumption

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The energy meters in railway vehicles facilitates the exact measurements of energy consumption and provide consumption data for the identification and assessment of energy saving measures.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

There is already in use various of different technologies.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

bbbbbb) indicating whether the technology can be applicable or not,  
 ccccc) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 ddddd) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

## <<Vehicles >>

### VE Technology: VE25 Braking energy recovery

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

50 Hz, 25 kV and 16,7 Hz, 15 kV AC supply systems offer good conditions for feeding back recovered energy. In DC supply systems (1,5 and 3 kV) high recovery rates are only achievable under favourable conditions. DC substations shall be equipped with thyristor inverter units if recovered energy is fed back to national grid. Typically braking is blended between mechanical brake and electronic brake in freight trains. Therefore all the braking energy potential is not to be taken advantage of recovery.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Already in use in many countries.

3. Based on the above, please rate the greening potential of this technology for each of the following



corridors and branches:

eeeeee) indicating whether the technology can be applicable or not,

fffff) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

ggggg) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	Technology can be applied only electric traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

## <<Vehicles >>

**VE Technology:**VE26 Onboard  
energy storage systems

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Onboard energy storage system has a minor importance in electric freight traffic because the braking is not used so frequently than in passenger traffic. Typically braking is blended between mechanical brake and electronic brake in freight trains. Therefore all the braking energy potential is not to be take advantage of recovery.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following

corridors and branches:

hhhhh) indicating whether the technology can be applicable or not,

iiii) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

jjjj) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	Technology can be applied only electric traction
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

## Section 7:

# <<Navigation Technologies >>

**NA Technology: NA01 Train Control System**

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

With active train tracking and control it is possible to decrease costs and increase punctuality and environmental sustainability.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 kkkkk) indicating whether the technology can be applicable or not,  
 llll) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 mmmmm) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

# <<Navigation Technologies >>

**NA Technology: NA07 Global**  
Navigation Satellite systems or GNSS

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

With GNSS system it is possible to control trains more effectively.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
nnnnn) indicating whether the technology can be applicable or not,  
ooooo) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

ppppp) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

# <<Navigation Technologies >>

**NA Technology: NA07 Global**  
Navigation Satellite systems or GNSS

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

With GNSS system it is possible to control trucks more effectively.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 qqqqq) indicating whether the technology can be applicable or not,  
 rrrrr) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology



can be applied only at the 20% of the corridor.  
 sssss) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## <<Navigation Technologies >>

**NA Technology: NA15 WiMax -**  
Worldwide Interoperability for  
Microwave Access

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

WiMax is wireless high bandwidth Internet which can provide long range wireless access up to 50 km for fixed stations and 5-15 km for mobile stations.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Already in use since 2001.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

ttttt) indicating whether the technology can be applicable or not,  
 uuuuu) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 vvvvv) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

# <<Navigation Technologies >>

**NA Technology: NA15 WiMax -**  
Worldwide Interoperability for  
Microwave Access

☐ Railway  
☒ X Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

WiMax is wireless high bandwidth Internet which can provide long range wireless access up to 50 km for fixed stations and 5-15 km for mobile stations.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Already in use since 2001.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

wwwww) indicating whether the technology can be applicable or not,  
 xxxxx) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 yyyyy) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 8:

### <<Best Practices >>

**BP Technology: BP01 APU**  
(Auxiliary Power Unit)

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Auxiliary power unit (APU) in diesel locomotive can automatically shut down the main locomotive engine idle and therefore reduces idle fuel consumption. It's beneficial for marshalling yard locomotives.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 zzzzz) indicating whether the technology can be applicable or not,  
 aaaaaa) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 bbbbbb) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	Technology can be applied marshalling yard locomotives
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90 %	As above
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10 %	As above

# <<Best Practices >>

## BP Technology: BP02 TDS

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

With active train tracking and control it is possible to decrease costs and increase punctuality and environmental sustainability.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 cccccc) indicating whether the technology can be applicable or not,



ddddd) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

eeeeee) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

## <<Best Practices >>

### BP Technology: BP03 GEKKO

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Gekko is one example of driving assistance systems which helps drivers giving recommendations for energy efficient driving styles and therefore decrease energy cost and increase punctuality.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

Already in use.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 ffffff) indicating whether the technology can be applicable or not,

gggggg) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

hhhhhh) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

## <<Best Practices >>

### BP Technology: BP04 Traffic Flow Management

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The core of traffic flow management is online train run simulation for speed and energy consumption versus location and time. The target of traffic flow management is increase punctuality and decrease energy consumption.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

iiiiii) indicating whether the technology can be applicable or not,  
 jjjjjj) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 kkkkkk) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	

The End

Many thanks for your cooperation

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# questionnaire

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## a survey on the application areas for Green Technologies

This is a questionnaire conducted under the SuperGreen project, Task 3.2. Its objective is to assess the greening potential of each technology identified in Task 3.1, applicable to specific activities in each of the Green Corridors listed on Page 2.

Close to this questionnaire, you may find a collection of technologies from different categories (engines & propulsion, cargo handling, fuels, etc.).

*Your collection of technologies includes a few selected ones from several selected categories. You will have to ignore the categories that are not referred in your technologies collection table.*

For all the technologies identified in this table of every category, please:

1. Fill the questions' template. Questions are the same for all technologies and all categories.
2. You will have to copy, paste and fill the questions' template as many times as the technologies.

**We thank you very much for your cooperation!**

## GREEN CORRIDORS

ACRONYM	BRIEF DESCRIPTION- BRANCHES	NICKNAME
<b>BerPal</b>	Malmö-Trelleborg-Rostock/Sassnitz- Berlin-Munich-Salzburg-Verona-Bologna-Naples-Messina-Palermo Branch A: Salzburg-Villach-Trieste (Tauern axis) Branch B: Bologna-Ancona/Bari/Brindisi-Igoumenitsa/Patras-Athens	<b>Brenner</b>
<b>MadPar</b>	Madrid-Gijon-Saint Nazaire-Paris Branch A: Madrid-Lisboa	<b>Finis Terrae</b>
<b>CorMun</b>	Cork-Dublin-Belfast-Stranraer Branch A: Munich-Friedewald-Nuneaton Branch B: West Coast Main line	<b>Cloverleaf</b>
<b>HelGen</b>	Helsinki-Turku-Stockholm-Oslo-Göteborg-Malmö-Copenhagen (Nordic triangle including the Oresund fixed link)- Fehmarnbelt - Milan - Genoa	<b>Edelweiss</b>
<b>RotMos</b>	Motorway of Baltic sea Branch: St. Petersburg-Moscow-Minsk-Klapeida	<b>Nureyev</b>
<b>RhiDan</b>	Rhine/Meuse-Main-Danube inland waterway axis Branch A: Betuwe line Branch B: Frankfurt-Paris	<b>Strauss</b>
<b>AthDre</b>	Igoumenitsa/Patras-Athens-Sofia-Budapest-Vienna-Prague-Nurnberg/Dresden-Hamburg	<b>Two Seas</b>
<b>SinOde</b>	Odessa-Constanta-Bourgas-Istanbul-Piraeus-Gioia Tauro-Cagliari-La Spezia-Marseille-Barcelona-Valencia-Sines Branch A: Algeciras-Valencia-Barcelona-Marseille-Lyon Branch B: Piraeus-Trieste	<b>Mare Nostrum</b>
<b>CNHam</b>	Shanghai-Le Havre/Rotterdam-Hamburg/Göteborg-Gdansk-Baltic ports-Russia Branch: Xiangtang-Beijing-Mongolia-Russia-Belarus-Poland-Hamburg	<b>Silk Way</b>



# Section 1:

## <<Engines & Propulsion Systems>>

EN Technology: EN01, **EN12**,  
EN15

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>A) Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>B) Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>C) Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>D) Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>E) Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The diesel engines as well as the particle filter does not affect KPIs A, B, C and D. The application is limited to Diesel tracks and shunting activities as Diesel locomotives are in use here.  
For gas engines the supply stations have to be available. The system is not very efficient – it is an interim solution to hybrids and full electrification (from increasing renewable sources).

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- indicating whether the technology can be applicable or not,
  - rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	shaunting
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	shaunting
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17% of track	Diesel track in Greece
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10-15%	10% Diesel track + shaunting
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	24-25%	24% Diesel track (Portugal) + shaunting
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	Shaunting
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	Shaunting
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	shaunting
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-3%	Shaunting (train)
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	35-40%	35% Diesel tracks in Lithuania, Poland and Russia
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No rail locomotives	
	Branch A (Rotterdam – Bratislava – Belgrad – Constanta)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5-10%	5% Diesel track (20% Belgrad – Constanta) + Shaunting
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	Shaunting
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15-20%	Diesel tracks (Bulgaria and Greece) + shaunt.
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No rail locomotives	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8,5-10%	8,5% Diesel (Algeciras - Valencia)
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No rail locomotives	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	No rail locomotives	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10-15%	10% Diesel track (Kazakhstan/50%)

# <<Engines & Propulsion Systems>>

EN Technology: \_EN16-EN20

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

All vehicles run on alternative engine power (hybrid/fuel cell) which requires high investments.  
 Also, service quality may suffer from energy efficiency losses.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 d) indicating whether the technology can be applicable or not,

e) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

f) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Only for collection and distribution = small vehicles
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: see BP05

☒ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- g) indicating whether the technology can be applicable or not,
  - h) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - i) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: HT01,02,04-09, HT 31-32, EN13-14 (need to be moved!)

☐ Railway  
☐ Road  
☒ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The related technology is used in terminals with portal crane equipment and bound to reduce emissions (esp. CO<sub>2</sub>). Costs and efficiency are in quite good balance, most of the technology is in use already.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- j) indicating whether the technology can be applicable or not,
  - k) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - l) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	All nodes/terminals with portal crane equipment	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch B	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Dto.	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dto.	



# <<Cargo Handling & Transfer >>

HT Technology: HT28, HT30

x Railway  
☐ Road  
x Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	x	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Systems confined to rail cross-docking, to make them more efficient/smother = improves infrastructure

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      X < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
m) indicating whether the technology can be applicable or not,

- n) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- o) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A (Rotterdam – Bratislava – Belgrad – Constanta)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to rail	

# <<Cargo Handling & Transfer >>

HT Technology: HT23, HT29

☐ Railway  
☐ Road  
☒ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Systems confined to barge cross-docking, to make them more efficient/smother = improves infrastructure

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

- p) indicating whether the technology can be applicable or not,  
q) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
r) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A (Rotterdam – Bratislava – Belgrad – Constanta)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cross-docking from/to barge	

# << Cargo Handling & Transfer >>

HT Technology: HT03, HT10\_

☐ Railway  
☐ Road  
☒ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The HT10 sea-to-train system has a high potential to increase efficiency in a sustainable way. It affords, however, investments. The HT03 is rather a subsystem, applicable in all maritime terminals.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
s) indicating whether the technology can be applicable or not,

t) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

u) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	with train connection for HT10
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	Dto.
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 4:

# <<Heating & Cooling >>

HC Technology: HC01

☐ Railway  
☐ Road  
☒ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The equipment/material is focused on climate protection. All other KPIs remain unaffected.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following

corridors and branches:

v) indicating whether the technology can be applicable or not,

w) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

x) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 10%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No*)	Road/100%	Recommended only for pre-/on-carriage
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 80%)	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 60%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 10%)	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 5%)	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/100%	Recommended only for pre-/on-carriage

\*) No means not bound for rail/road parts but applicable to road by 100%



# <<Heating & Cooling >>

HC Technology: HC02

☐ Railway  
☐ Road  
☒ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

It is a smart equipment which allows constant supervision (safety, load security etc.)  
 Investments have to be made incl. IT systems, insurance costs can be reduced.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 y) indicating whether the technology can be applicable or not,  
 z) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

aa) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 10%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 80%)	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 60%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 10%)	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (ca. 5%)	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Waterborne (100%)	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road/Rail/100%	Recommended only for pre-/on-carriage

\*) No means not bound for rail/road parts but applicable to road/rail by 100%

# <<Heating & Cooling >>

HC Technology: HC03

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

This technology is bound for climate protection of cooling systems in road transports.  
 All other KPIs remain unaffected.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 bb) indicating whether the technology can be applicable or not,  
 cc) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

dd) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 90%)	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road 100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 20%)	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 40%)	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 90%)	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 95%)	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road/100%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 5:

### <<Innovative Units & Treatment >>

LU Technology: LUX1-X3

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Alternative energy sources for shunting. Technical changes to locomotives necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- ee) indicating whether the technology can be applicable or not,
- ff) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- gg) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	shaunting
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-3%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5%	

## <<Innovative Units & Treatment >>

LU Technology: LUX4

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Recommendable only for legs with a sizeable share of non-electrified tracks.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:

- hh) indicating whether the technology can be applicable or not,  
 ii) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.  
 jj) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		For all rail tracks applicable, esp. for non-electrified legs in Bulgaria, Greece, Lithuania, Poland, Russia, Serbia and Spain
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17%	Patras - Athens
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	24-25%	Madrid - Lisboa
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	35-40%	Moscow – St. Petersburg, Klaipeda - Minsk
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	Belgrad – Constanta (only this leg recommendable: 20% Diesel)
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15-20%	Igoumenitsa/Patras - Belgrade
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8,5-10%	Algeciras - Valencia
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10-15%	Kazachstan leg (not recommendable!)



LU Technology: LUX5

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Does not require big investments, already available!

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

For all rail tracks applicable, esp. for non-electrified

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 kk) indicating whether the technology can be applicable or not,  
 ll) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

mm) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	For all rail tracks applicable, esp. for non-electrified legs (see LUX4)
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	

## Section 6:

### <<Vehicles >>

VE Technology: \_VE03-VE15

☐ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

All vehicles run on alternative fuels/energy which requires high investments esp. in the infrastructure.  
 Also, service quality may suffer from energy efficiency losses or delays because of supply problems.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- nn) indicating whether the technology can be applicable or not,
- oo) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- pp) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Only for collection and distribution = small vehicles
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Road (ca. 10%)	Dto.
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Road (ca. 10%)	Dto.
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## <<Vehicles >>

VE Technology: **\_VE01-VE02**

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

For all rail tracks applicable, esp. for non-electrified

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- qq) indicating whether the technology can be applicable or not,
- rr) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

ss) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	For all rail tracks applicable, esp. for non-electrified legs (see LUX4)
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	

## <<Vehicles >>

VE Technology: VE22

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

This technology is NOT recommendable!

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 tt) indicating whether the technology can be applicable or not,  
 uu) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can

be applied only at the 20% of the corridor.

vv) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	



## Section 7:

# <<Navigation Technologies >>

NA Technology: \_\_\_\_\_

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

- ☐ > 5 years      ☐ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- ww) indicating whether the technology can be applicable or not,
- xx) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- yy) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Nureyev	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Mare Nostrum	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input type="checkbox"/> No		

## Section 8:

### <<Best Practices >>

BP Technology: BP06/HT10

☐ Railway  
☐ Road  
☒ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The system has a high potential to increase efficiency in a sustainable way.  
 It affords, however, investments.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- zz) indicating whether the technology can be applicable or not,
- aaa) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
- bbb) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
Mare Nostrum	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
Silk way	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Terminals/sea	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

BP Technology: BP05

☒ Railway  
☒ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>					
Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>					
The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>					
Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>					
In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>					
Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

The main problem of bio-fuels is their availability and the missing infrastructure of fuel stations.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☒ 1 to 5 years      ☐ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
ccc) indicating whether the technology can be applicable or not,

ddd) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.

eee) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	All rail and road tracks !
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Finis Terrae	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Cloverleaf	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	90%	
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	

# <<Best Practices >>

BP Technology: BP07

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

Carbon 0 in the German Rail network, additional costs of 3%.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:  
 fff) indicating whether the technology can be applicable or not,  
 ggg) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology

can be applied only at the 20% of the corridor.

hhh) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ca. 40%	German leg
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ca. 35-40%	German leg
Nureyev	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20% (Rotterdam – Constanta)	German leg
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	40% (Frankf. - Paris)	German leg
Two Seas	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10%	German leg
Mare Nostrum	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5%	German leg



The End

Many thanks for your cooperation

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## Section 1: <<Engines & Propulsion Systems>>

EN Technology: 02

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☐ ☐ ☒

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 1:

# <<Engines & Propulsion Systems>>

EN Technology: 03

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 1:

# <<Engines & Propulsion Systems>>

EN Technology: 04

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 1:

# <<Engines & Propulsion Systems>>

EN Technology: 05

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 1:

# <<Engines & Propulsion Systems>>

EN Technology: 06

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 1:

# <<Engines & Propulsion Systems>>

EN Technology: 07

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☒ ☐ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

super ✓

FY

07

(AFO)



## Section 2:

### <<Fuels & Sources of Energy>>

FU Technology: OF

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☐ ☒

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☒ ☐ ☐ ☒

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.



## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: 08

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

> 5 years

☒ 1 to 5 years

☐ < 1 year

Please expand on the above, if necessary.

## Section 2: <<Fuels & Sources of Energy>>

FU Technology: 09

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

	1	2	3	4	5
<b>Economy and Efficiency</b>  Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Service Quality</b>  The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Environmental Sustainability</b>  Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Infrastructural Sufficiency</b>  In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Social Issues</b>  Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☒ 1 to 5 years

☐ < 1 year

Please expand on the above, if necessary.

## Section 2: <<Fuels & Sources of Energy>>

FU Technology: 10

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☒ 1 to 5 years

☐ < 1 year

Please expand on the above, if necessary.

## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: 11

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 2:

### <<Fuels & Sources of Energy>>

FU Technology: 12

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: 15

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 2: <<Fuels & Sources of Energy>>

FU Technology: 16

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☐ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 2: <<Fuels & Sources of Energy>>

FU Technology: 17

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.



## Section 2: <<Fuels & Sources of Energy>>

FU Technology: 18

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: 23

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☐ ☒

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 2:

# <<Fuels & Sources of Energy>>

FU Technology: 24

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
 (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 17

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 18

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

- ☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

- ☐ ☒ ☐ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

- ☐ ☐ ☐ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

- ☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

- ☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

- ☐ > 5 years      ☐ 1 to 5 years      ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 19

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 20

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 21

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☐ ☒

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☒ ☐ ☐ ☐ ☒

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.



## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 22

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 24

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☐ ☐ ☒

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 25

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☒ ☐ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 26

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 24

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
 (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
 mode of transport used for each link, (v) distance for each link  
 and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
 reliability (time precision), (iii) ICT applications, (iv) frequency  
 of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
 and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
 and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
 social issues that arise due to traffic safety or noise are  
 considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 28

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
 (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
 mode of transport used for each link, (v) distance for each link  
 and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
 reliability (time precision), (iii) ICT applications, (iv) frequency  
 of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
 and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
 and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
 social issues that arise due to traffic safety or noise are  
 considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 29

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years

☐ 1 to 5 years

☐ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 30

☒ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☐ ☒

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.



## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 31

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.

## Section 3:

# <<Cargo Handling & Transfer >>

HT Technology: 32

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☐ ☒

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.

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## Section 7:

# <<Navigation Technologies >>

NA Technology: 02

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact ... of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☒ ☐ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☐ ☐ ☒

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 7:

# <<Navigation Technologies >>

NA Technology: 03

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 7:

# <<Navigation Technologies >>

NA Technology: 04

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☒ ☐ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☒ 1 to 5 years

☐ < 1 year

Please expand on the above, if necessary.

## Section 7:

# <<Navigation Technologies >>

NA Technology: 05

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☒ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 7:

# <<Navigation Technologies >>

NA Technology: 06

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☒ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 7:

# <<Navigation Technologies >>

NA Technology: 07

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☐ ☒ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.



## Section 7:

# <<Navigation Technologies >>

NA Technology: 08

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.

## Section 7:

### <<Navigation Technologies >>

NA Technology: 09

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv)  
mode of transport used for each link, (v) distance for each link  
and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii)  
reliability (time precision), (iii) ICT applications, (iv) frequency  
of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint)  
and polluters is considered.

☐ ☐ ☒ ☐ ☐

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays,  
and traffic bottlenecks are considered.

☐ ☐ ☐ ☒ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas,  
social issues that arise due to traffic safety or noise are  
considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- p) indicating whether the technology can be applicable or not,
  - q) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - r) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	20%	
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	80%	
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	100%	
Nureyev	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Strauss	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	100%	
	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Mare Nostrum	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100%	
Silk way	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

3. Based on the above, please rate the greening potential of this technology for the each of the following corridors and branches:
- s) indicating whether the technology can be applicable or not,
  - t) rating the applicability of the technology to the whole corridor, i.e. write 20% if the technology can be applied only at the 20% of the corridor.
  - u) Comment your selections indicating the parts of the corridor that can/cannot be altered to accommodate this technology.

Corridor	Branch	Applicable	Percentage of applicability	Comment
Brenner	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Finis Terrae	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Cloverleaf	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Edelweiss	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Strauss	Branch A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
	Branch B	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	100 %	
Two Seas	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Mare Nostrum	Branch B	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Silk way	Main	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Branch A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## Section 6: <<Vehicles >>

VE Technology: 16

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☒ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 6:

### <<Vehicles >>

VE Technology: 17

- ☐ Railway  
☐ Road  
☐ Multimodal

- ☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☐ ☒

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☒ ☐ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.

## Section 6:

### <<Vehicles >>

VE Technology: 18

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☐ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☒ ☐ ☐ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☒ ☐ ☐ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☐ ☒

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☒ < 1 year

Please expand on the above, if necessary.

## Section 6:

### <<Vehicles >>

VE Technology: 19

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☒ ☐

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☒ ☐ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.



## Section 6:

### <<Vehicles >>

VE Technology: 20

☐ Railway  
☐ Road  
☐ Multimodal

☐ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering:  
(i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☐ ☒ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☐ ☐ ☒

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☐ ☒ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☐ ☒ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years ☐ 1 to 5 years ☐ < 1 year

Please expand on the above, if necessary.

## Section 6:

### <<Vehicles >>

VE Technology: 21

☐ Railway  
☐ Road  
☐ Multimodal

☒ Maritime  
☒ Inland Waterway

1. Please rate the impact of this technology with reference to the following areas (1=min, 5=max). For facilitating your decision, each area is shortly discussed.

1 2 3 4 5

#### Economy and Efficiency

Absolute and relative costs for transferring goods, considering: (i) type & (ii) quantity of goods, (iii) type of activity at nodes, (iv) mode of transport used for each link, (v) distance for each link and (vi) average speed for each link.

☐ ☐ ☒ ☐ ☐

#### Service Quality

The following issues are concerned: (i) transport time, (ii) reliability (time precision), (iii) ICT applications, (iv) frequency of service and (v) cargo security & (vi) safety.

☐ ☐ ☐ ☒ ☐

#### Environmental Sustainability

Impact towards greenhouse gas emissions (carbon footprint) and polluters is considered.

☐ ☐ ☒ ☐ ☐

#### Infrastructural Sufficiency

In this area, congestion cost, as the external cost of delays, and traffic bottlenecks are considered.

☐ ☒ ☐ ☐ ☐

#### Social Issues

Extensive corridor land use, neighbouring to sensitive areas, social issues that arise due to traffic safety or noise are considered.

☐ ☐ ☒ ☐ ☐

Please expand on the above, if necessary.

2. Please rate this technology according to your aspect towards its maturity.

☐ > 5 years

☐ 1 to 5 years

☒ < 1 year

Please expand on the above, if necessary.