

# TEN-T Core Network Corridors

## The Scandinavian-Mediterranean Corridor



19<sup>th</sup> Corridor Forum Meeting  
Brussels, 14.11.2023

## Agenda of the 19<sup>th</sup> Corridor forum meeting 14.11.2023

1	Opening, Welcome, past Activities by <i>Pat Cox, European Coordinator TEN-T CNC ScanMed</i>
2	Tour de corridor: <i>Introduction of Corridor Forum Members</i>
3	Adoption of the Agenda, and the Minutes of Meeting of the 18 <sup>th</sup> Corridor Forum Meeting 06.06.2023
4	Report from DG MOVE by <i>Martin Zeitler (MOVE)</i>
5	Report from CINEA CEFII Spending on TEN-T Corridor ScanMed by <i>Thomas Lazzeri (CINEA)</i>
6	State of Play of the TEN-T CNC study before the revised TEN-T Regulation by <i>Consultant team</i> - Results of the selected KPI analysis - Working Group (meeting) Large Infrastructure Projects Questions and Answers; Feedback from CF members
	Coffee Break
7	Reports from Scandinavian-Mediterranean Corridor's stakeholders - Rail Freight Corridor ScanMed Report of Key Performance Indicators by <i>Furio Bombardi, Managing Director RFC ScanMed</i> - Rail innovations and their applicability on the (ScanMed) corridor by 2030 by <i>Ralf Marxen, DB AG, Head of Program Europe's Rail (TTSXR)</i> - The Scan-Med Observatory approach from the MOVE21 project by <i>Raffaele Vergnani, Project Manager at POLIS Network MOVE 21 - ScanMed Observatory</i> Questions and answers
8	CEF digital programme: 5G corridors and synergies with TEN-T policy by <i>Bianca Jitea (DG CNECT)</i>
9	Any other business (e.g. news from CF members)
10	Conclusions / wrap-up by <i>Pat Cox, European Coordinator</i>
	Restricted meeting with Member States Representatives

## Information on the Coordinators' activities / Meetings - past

Date	Place	Subject
06.06.2023	Brussels	18th Corridor Forum Meeting (Presentation of PIR 2023-1)
4.07.2023	Brussels/ online	Expert meeting with Italian delegation on Messina Strait Bridge project
04.10.2023	Berlin	Coordinators visit to Berlin for meeting DE Minister and CEO DB (excused)
17.10.2023	online	4th BBT-SE supervisory board meeting 2023
18.10.2023	Brussels	1 <sup>st</sup> Commission working group on decarbonised construction of transport infrastructure
22-23.10.2023	Luxemburg	Coordinators seminar and meeting with management of European Investment Bank
6/7.11.2023	Helsinki	Joint conference of Scandria Alliance and CPMR Baltic Sea Commission "Adapting to a changing geopolitical landscape: the future of transport in the Baltic Sea Region and wider Europe"; Meeting the FI minister of Transport, Meeting the Major of Turku
14.11.2023	Brussels	19th Corridor Forum Meeting (Presentation of KPI-Status 2021/22)



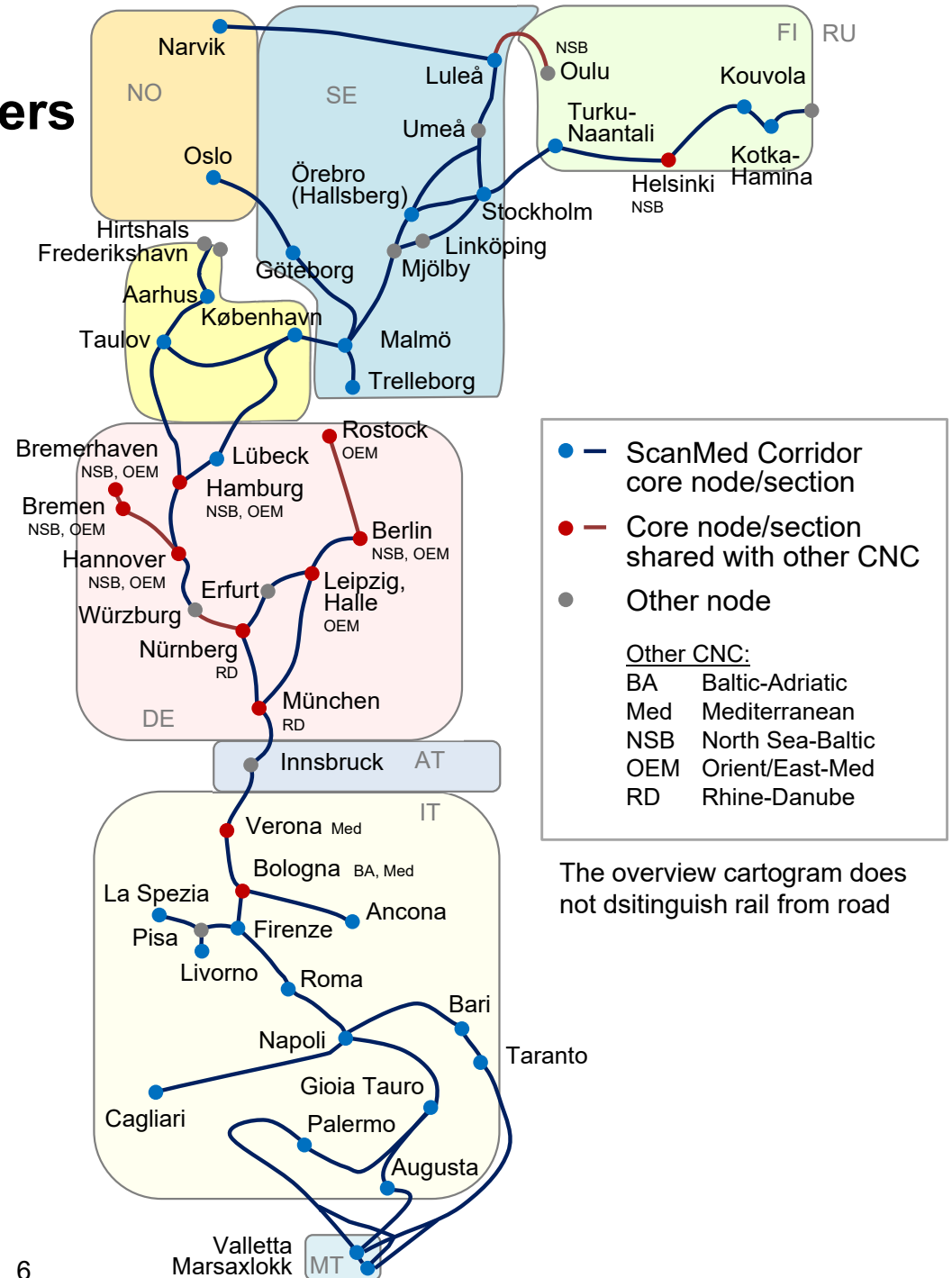
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## Corridor Alignment\* & Stakeholders

- Member States & Norway
- Infrastructure managers:
  - Rail
  - Road
  - Seaports
  - Airports
  - Rail Road Terminals
- Regions
- Core Urban Nodes
- Selected Projects

\* The Regulation (EU) 2021/1153 establishing the Connecting Europe Facility (CEF) for the period 2021-2027



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# Adoption of Minutes of Meeting

- Draft Minutes of Meeting sent on 16.06.2023
- One comment received to correct the title of Sandro Francesconi, to „Director of Financing at BBT SE”
- Adopted?

**18<sup>th</sup> Corridor Forum Meeting  
of the Scandinavian-Mediterranean Core Network Corridor  
Brussels, 06<sup>th</sup> June 2023, 13:30 – 17:30**

**Minutes of Meeting (draft)**

**Agenda**

ITEM	SUBJECT
1	<b>Opening, Welcome and Activities since last Meeting</b> by <i>Pat Cox, European Coordinator</i>
2	<b>Tour de corridor: Introduction of Corridor Forum members</b>
3	<b>Adoption of the Minutes of the 17<sup>th</sup> Corridor Forum Meeting, September 2022</b>
4	<b>Reports from DG MOVE and CINEA</b> <ul style="list-style-type: none"> <li>TEN-T revision: state of play and main elements of the negotiations by <i>Martin Zeitler</i></li> <li>CEF II and ongoing call: basic statistics by CINEA by <i>Thomas Lazzeri CINEA</i></li> <li>Military Mobility and Alternative Fuels Infrastructure Facility calls: update on results and information on the third Military Mobility call by <i>Thomas Lazzeri CINEA</i></li> <li>Online public dashboard: information about a new portal on EU funding by <i>Thomas Lazzeri CINEA</i></li> <li>CEF III: exchange of views on the financing aspects and possible recommendations for the upcoming financial period by <i>Antoine Kedzierski MOVE B1</i></li> </ul>
6	<b>Reports from ongoing or recently completed Projects I</b> <ul style="list-style-type: none"> <li>Innovative financing scheme of the upgrade of the Palermo-Catania railway by <i>Stefano Pierini, FS-Group</i></li> <li>Impact of "Inflation" on large project – the BBT case by <i>Sandro Francesconi BBT SE</i></li> </ul>
	"Coffee" Break
5	<b>State of Play of the TEN-T CNC Study</b> by <i>Consultant team</i> <ul style="list-style-type: none"> <li>Results of the Project Implementation Report 2023-1</li> <li>Upcoming activities</li> </ul>
6	<b>Reports from ongoing or recently completed Projects II</b> <ul style="list-style-type: none"> <li>Greater4H by <i>Julie Jo Nygaard, Project Manager Greater4H at STRING</i></li> </ul> <b>Questions and Answers; Feedback from CF members</b>
7	<b>Reports from DG MOVE</b> <ul style="list-style-type: none"> <li>The role of the urban policy in the TEN-T: Presentation of Sustainable Urban Mobility Plans (SUMPs) and the Cities Mission action by <i>Leo Huberts MOVE B3</i></li> <li>The resilience of the TEN-T network: information about a planned study on the TEN-T climate adaptation and cross-border investment needs by <i>Martin Zeitler</i></li> </ul>

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- [Seperate presentation of Martin Zeitler, DG MOVE](#)

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Ressource  
Leben  
Sehnsucht

24.9.2023  
11.2.2024

Ressource  
Life  
Longing

## Last Activities in the framework of the Corridor Study

- Provide one update of technical parameters in TENtec OMC for 2021 and 2022 of the following 11 KPIs
- Limited to existing section which are not compliant, yet and based on
  - the narrow update of the project list (PIR 2023-1),
  - the data of the consultants, and
  - the data from the network statements of the infrastructure managers.
- Section sharing among consultants/Corridors
- Results per corridor obtained from TENtec OMC in November 2023

Compliance Indicators		TEN-T CNC Compliance Rates by end 2019
Rail	Loading gauge ( $\geq$ P400)	40%
	Maximum train length ( $\geq$ 740m)	53%
	Max axle load ( $\geq$ 22,5 tonnes)	90%
	Line Speed ( $\geq$ 100km/h)	86%
	Track gauge (1435mm)	84%
	Electrification	90%
Air	Connection to rail	70%
IWW	RIS implementation	94%
	Permissible height under bridges ( $\geq$ 5,25m)	83%
	Permissible draught ( $\geq$ 2,5m)	84%
	CEMT IV class ( $\geq$ IV)	96%

Source: TENtec team, generic data, beyond Scan-Med

# Compliance Rail by July 2023

## Improvements

- DK section Vordingborg <--> Ringsted „electrified“ (despite no project)
- IT intermodale gauge and train length on sections Sarzana <--> Pisa and Poggio Rusco <--> PM Tavernelle (despite no project)
- SE Ockelbo <--> Kilafors (due to project)



Source: Hacon analysis  
Date: 14 November 2023

### Compliance status

- Green line: Compliant
- Red line: Not compliant
- Black line: Not applicable

### Reason for non-compliance

- (E) No 'Electrification'
- (L) 'Line speed < 100 km/h'
- (A) 'Axle load < 22.5 tonnes'
- (G) 'UIC gauge ≠ 1,435 mm'

### Rail: Missing link

- (A) Missing link

# Compliance Rail by July 2023

TEN-T ScanMed		Status: 07/2023							
		All entries: %-age of all sections fulfilling the respective standard							
TEN-T Technical Parameters	Standards <sup>1)</sup>	FI	NO	SE	DK	DE	AT	IT	Total
- thereof with freight traffic [km]		644	208	2.691	842	2.722	103	2.519	9.731
Traction	Electrified	97%	100%	100%	53%	91%	100%	100%	93%
	Diesel	3%	0%	0%	47%	8%	0%	0%	6%
	Others/Unknown	0%	0%	0%	0%	1%	0%	0%	0%
Track gauge <sup>2)</sup>	1435 mm	0%	100%	100%	100%	100%	100%	100%	95%
	other than 1435 mm	100%	0%	0%	0%	0%	0%	0%	5%
	Others/Unknown	0%	0%	0%	0%	0%	0%	0%	0%
Intermodal gauge <sup>3)4)</sup>	≥ P/C 70/400	29%	100%	79%	98%	97%	100%	28%	70%
	< P/C 70/400	0%	0%	0%	0%	3%	0%	65%	18%
	Others/Unknown	71%	0%	21%	2%	0%	0%	7%	13%
Max operating speed <sup>3)</sup>	≥ 100 km/h	100%	22%	89%	98%	100%	74%	76%	89%
	< 100 km/h	0%	78%	11%	0%	0%	26%	21%	11%
	Others/Unknown	0%	0%	0%	2%	0%	0%	3%	1%
Max axle load <sup>3)</sup>	≥ 22.5 t	100%	100%	100%	98%	100%	100%	70%	92%
	< 22.5 t	0%	0%	0%	0%	0%	0%	29%	8%
	Others/Unknown	0%	0%	0%	2%	0%	0%	0%	0%
Maximum train length <sup>3)</sup>	≥ 740 m	95%	100%	8%	98%	100%	61%	2%	48%
	< 740 m	5%	0%	92%	0%	0%	39%	97%	51%
	Others/Unknown	0%	0%	0%	2%	0%	0%	0%	0%
ERTMS in operation	YES	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	NO	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Others/Unknown	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Source: Hacon analysis

Date: 14 November 2023



## Compliance Rail by July 2023

- Generally high compliance rates for electrification was further improved in DK to 53% and 93% for the entire corridor
- Track gauge 1435 mm available on 95% of the corridor rail km despite in FI but exempted, to to „isolated network“
- Intermodal gauge  $\geq$  P/C 70/400 improved in IT to 28% and thus 70% in total
- Maximum freight train operating speed  $\geq$  100 km/h worsened in SE and IT to a total of 89%
- Maximum axle load  $\geq$  22.5 tons with no change and high rate of 92%
- Maximum train length  $\geq$  740 m improved slightly in SE and IT but still only 48% in total.

## Compliance Airport by July 2023

- Update requested only for KPI „Connection Rail“ according to Art. 41(3) of Regulation 1315/2013
- MLA exempted according to Art. 57 of Regulation (EU) 1315/2013
- TKU, GOT, MMX, NAP with no connection to rail but are not „main airports“ according to part 2 of Annex II of Regulation (EU) 1315/2013
- Thus 100% compliance already before

**Airport: Compliance by 2023**

**Compliance by 2023**

- Compliant
- Not-Compliant
- Not applicable

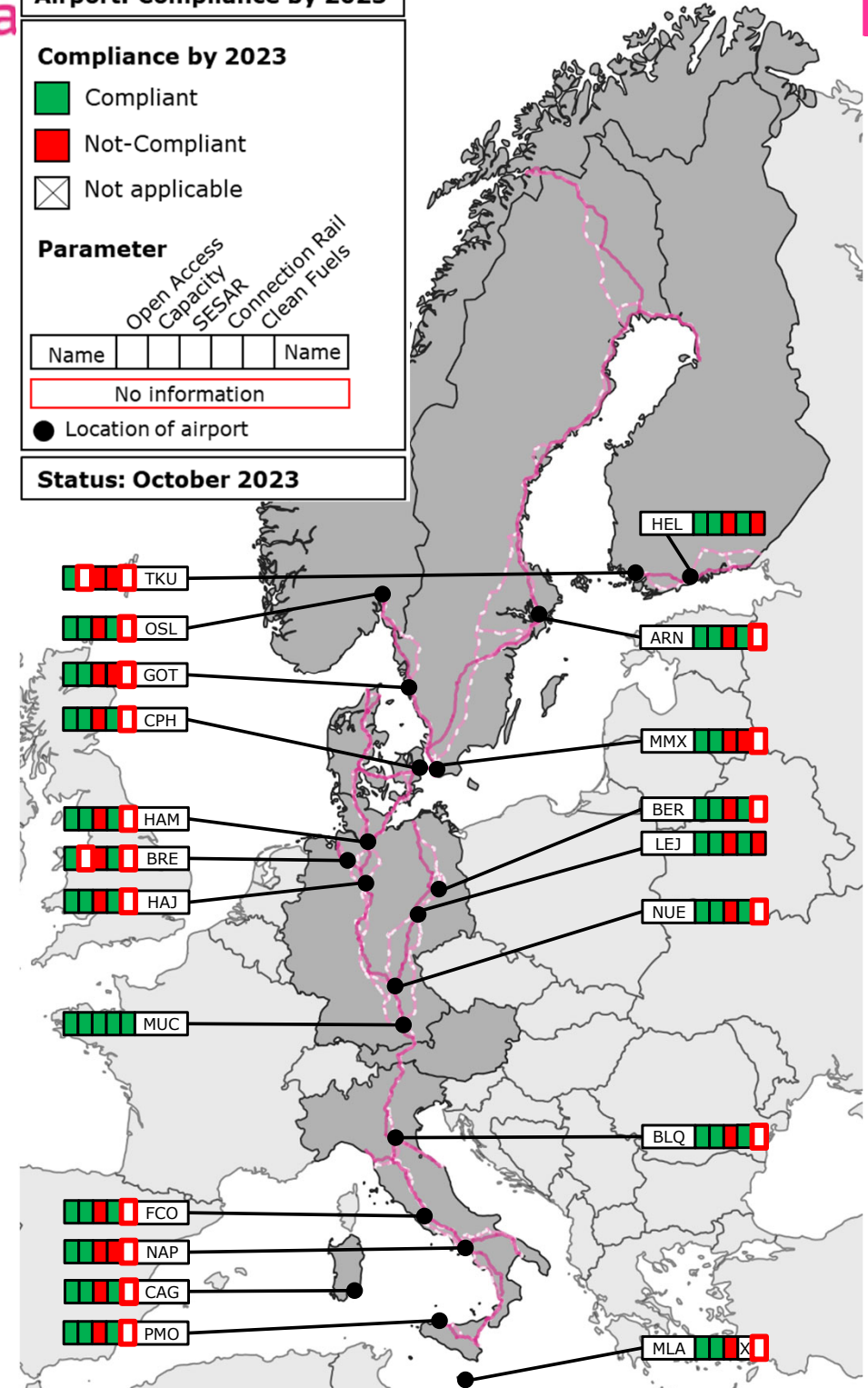
**Parameter**

- Open Access
- Capacity
- SESAR
- Connection Rail
- Clean Fuels

Name						Name
No information						

● Location of airport

**Status: October 2023**



## Activities in the framework of the Corridor Study

te of technical  
 Ntec OMC for 2021  
 following 11 KPIs  
 y section which are  
 and based on  
 date of the project  
 -1),  
 e consultants, and  
 the network  
 the infrastructure  
  
 mong  
 lors  
 or obtained from  
 lovember 2023

Compliance Indicators		TEN-T CNC Compliance Rates		
		2013	2023	
Rail	Loading gauge ( $\geq$ P400)	n.a.	70%	+
	Maximum train length ( $\geq$ 740m)	66%	48%	-
	Max axle load ( $\geq$ 22,5 tonnes)	94%	92%	-
	Line Speed ( $\geq$ 100km/h)	93%	89%	-
	Track gauge (1435mm)	95%	95%	=
	Electrification	96%	93%	-
Air	Connection to rail	88%	100%	+
IWW	RIS implementation	n.a.	n.a.	
	Permissible height under bridges ( $\geq$ 5,25m)	n.a.	n.a.	
	Permissible draught ( $\geq$ 2,5m)	n.a.	n.a.	
	CEMT IV class ( $\geq$ IV)	n.a.	n.a.	

Source: Corridor Study 2014 based on alignment of CEF 1 Regulation;  
 Corridor Study 2023 based on alignment of CEF 2 Regulation

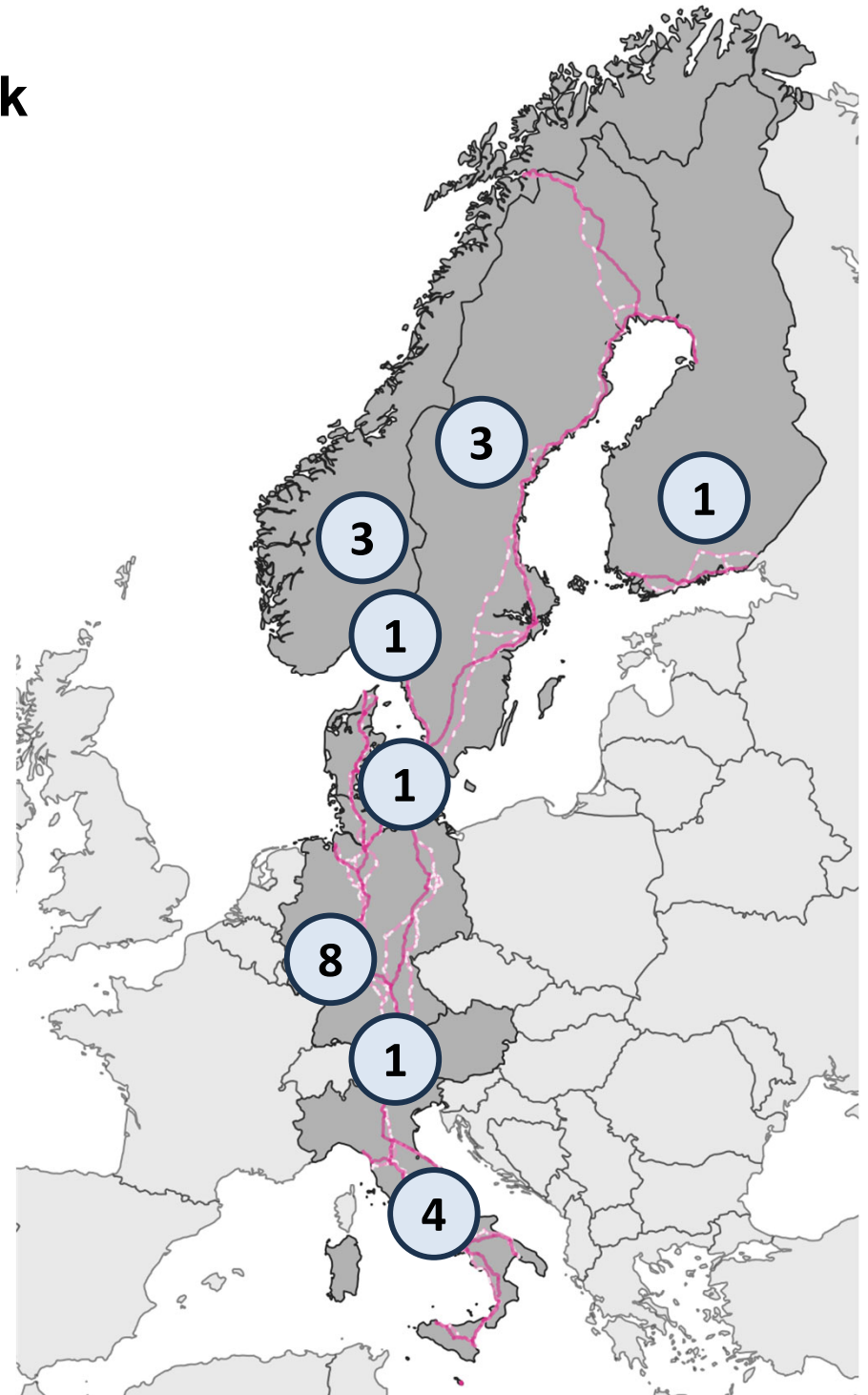
## Ideas Lab „Large Projects“ - Feedback

Cost > €3bn	22
too old/new	- 3
asked for interest	19
Added out of interest	+ 3
total	22

19  
€ 98.554 bn



Rail/Rail ERTMS	19
Multimodal	1
Road	1
Maritime	1

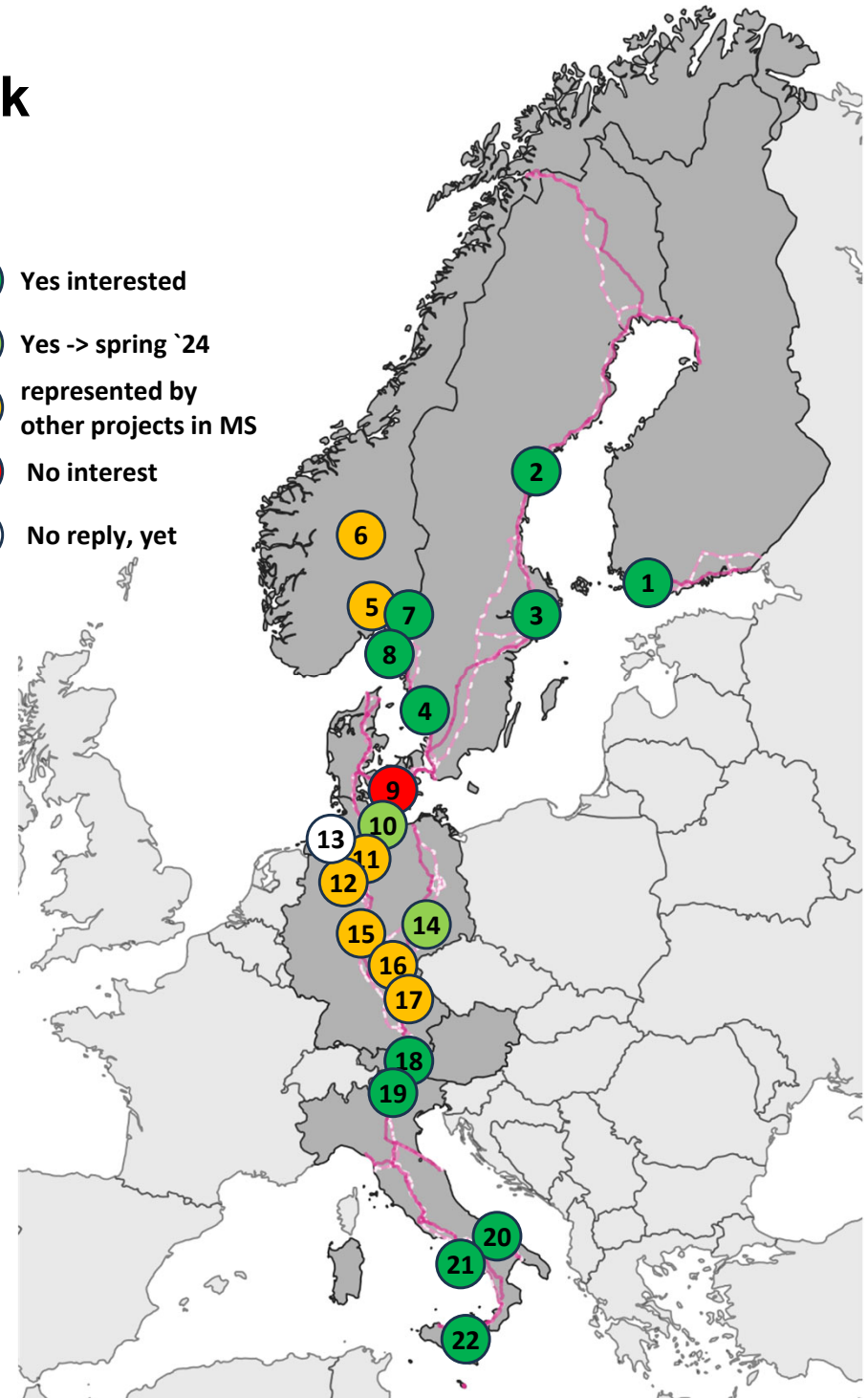
11  
1,537 km



# Ideas Lab „Large Projects“ - Feedback

1	Espoo - Iohja - Salo railway „One hour train“	
2	Norrbotniabanan (Umea - Lulea I, II, III New Railway)	
3	E4 Stockholm Bypass	
4	Ostlänken	
5	Follobanen	
6	Implementation of ERTMS system in NO	
7	Double Track Sandbukta - Moss-Sastad	
8	Oslo - Gothenburg (Feasibility Study)	
9	Fehmarn Belt Fixed Link	 
10	ABS/NBS Hamburg - Lübeck – Puttgarden	
11	Node improvement Hamburg	
12	„Optimised Alpha E“	
13	Planning and construction of Köhlbrand crossing	
14	ABS/NBS Nürnberg - Erfurt (VDE Nr.8.1)	
15	ABS/NBS Hanau - Fulda - Erfurt / Aschaffenburg - Nantenbach	
16	Node integration in Würzburg and Nuremberg	
17	ABS/NBS Nürnberg - Ingolstadt - München	
18	Brenner base tunnel (BBT)	
19	Southern access line to Brenner; Lotto/lot 2-4	
20	Rail connection Napoli - Foggia - Bari	
21	Upgrade itinerario Salerno - Reggio C. (lotti prioritari)	
22	Upgrade New connection Catania - Palermo	

-  Yes interested
-  Yes -> spring `24
-  represented by other projects in MS
-  No interest
-  No reply, yet



## Outlook



Source: U. Sondermann: Rügen August 2023; Frankfurt am Main Airport June 2023

Date: 14 November 2023

- You may search for this...
- But longer than 10:30



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## Reports from Stakeholders

- Rail Freight Corridor ScanMed Report of Key Performance Indicators  
*by Furio Bombardi, Managing Director RFC ScanMed*
- Rail innovations and their applicability on the (ScanMed) corridor by 2030  
*by Christer Löfving, Chief Strategist Trafikverket*
- The Scan-Med Observatory approach from the MOVE21 project *by Raffaele Vergnani, Project Manager at POLIS Network MOVE 21 - ScanMed Observatory*

Source: U. Sondermann, May 2022

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7	Reports from Scandinavian-Mediterranean Corridor's stakeholders - Rail Freight Corridor ScanMed Report of Key Performance Indicators by <i>Furio Bombardi, Managing Director RFC ScanMed</i> - Rail innovations and their applicability on the (ScanMed) corridor by 2030 by <i>Ralf Marxen, DB AG, Head of Program Europe's Rail (TTSXR)</i> - The Scan-Med Observatory approach from the MOVE21 project by <i>Raffaele Vergnani, Project Manager at POLIS Network MOVE 21 - ScanMed Observatory</i> Questions and answers
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9	Any other business (e.g. news from CF members)
10	Conclusions / wrap-up by <i>Pat Cox, European Coordinator</i>
	Restricted meeting with Member States Representatives

- [Separate presentation by Bianca Jitea, DG Connect](#)

## Agenda of the 19<sup>th</sup> Corridor forum meeting 14.11.2023

1	Opening, Welcome, past Activities by <i>Pat Cox, European Coordinator TEN-T CNC ScanMed</i>
2	Tour de corridor: <i>Introduction of Corridor Forum Members</i>
3	Adoption of the Agenda, and the Minutes of Meeting of the 18 <sup>th</sup> Corridor Forum Meeting 06.06.2023
4	Report from DG MOVE by <i>Martin Zeitler (MOVE)</i>
5	Report from CINEA CEFII Spending on TEN-T Corridor ScanMed by <i>Thomas Lazzeri (CINEA)</i>
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## The Öresund Metro - a cross-border light rail metro on the ScanMed Corridor connecting the Urban Nodes of Malmö and Copenhagen

- A cross-border light rail metro connecting Malmö and Copenhagen
- Drilled tunnel under the seafloor of the Öresund strait
- 23 minutes from Malmö C to Copenhagen H
- Departures up to every 90 seconds.
- Enhances capacity for additional freight- and long-distance trains on TEN-T ScanMed Corridor and on the Öresund bridge.
- Expands cross-border labor market from 1,3 mio. to 2,3 mio. people (app.)



## Current planning processes in Sweden and Denmark

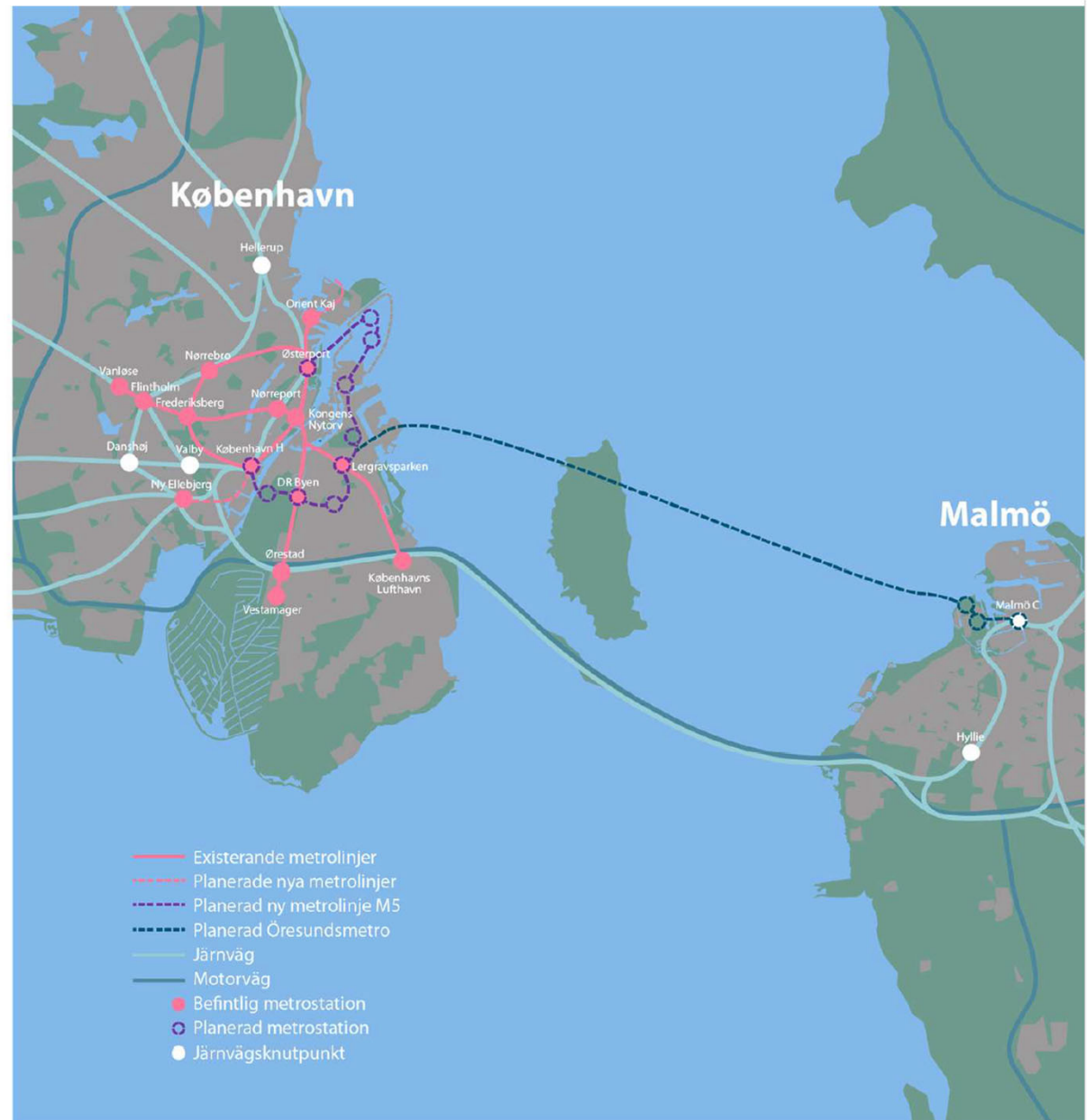


SE: State public inquiry on capacity and redundancy across the Öresund strait

SE: Malmö is planning for urban lines and metro stations in Malmö

DK: Environmental impact assessment for a new M5 metro line in Copenhagen, includes a bifurcation chamber for a possible connection to Malmö.

DK: Screening analysis for future metro lines within Copenhagen, neighboring municipality and to Malmö.



Jarl Zinn, The City of Copenhagen. [jaz@kk.dk](mailto:jaz@kk.dk)

Web: <https://oresundsmetro.com/en>

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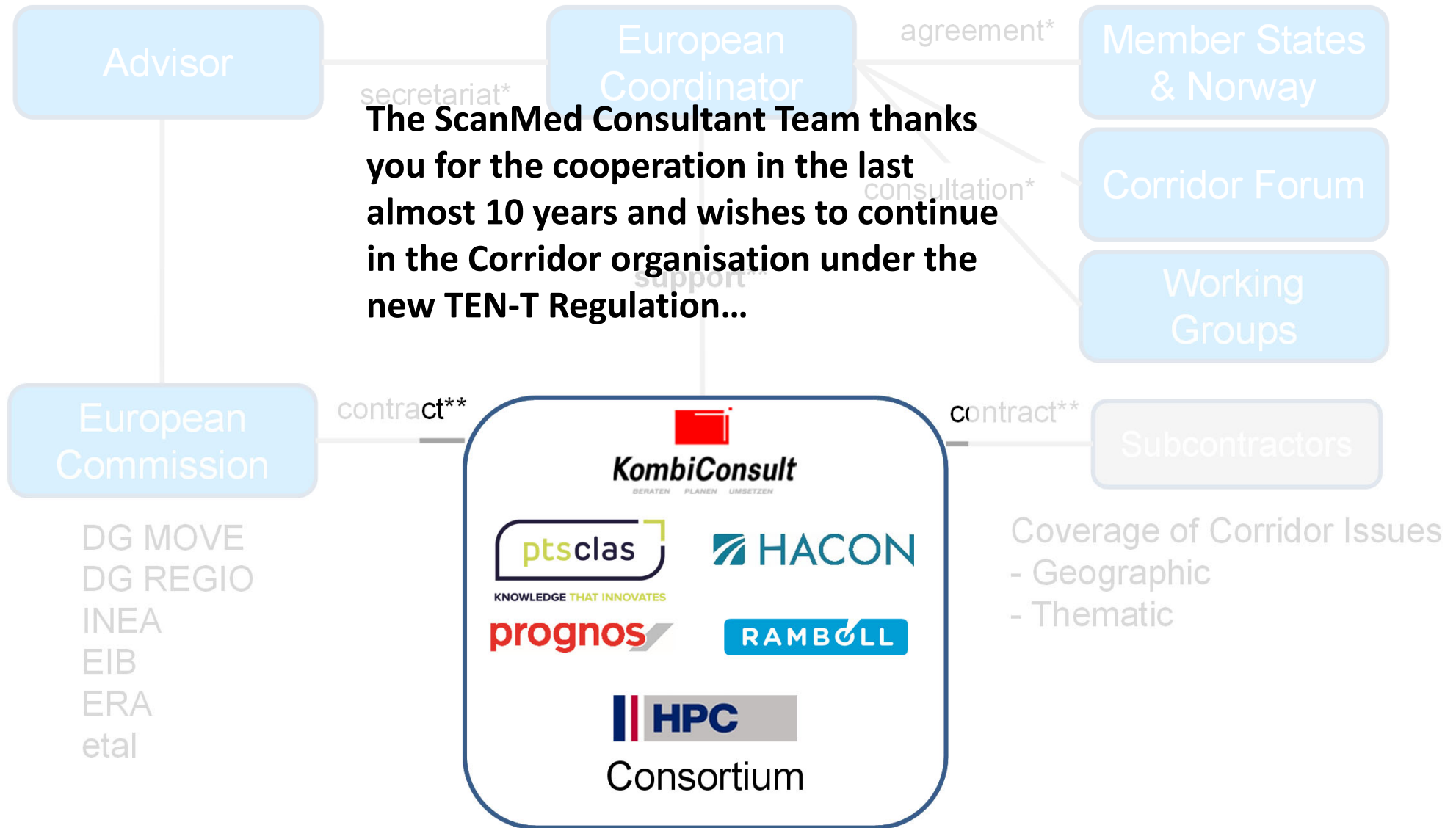
## Information on the Coordinators' activities / Meetings - future



Date	Place	Subject
14.11.2023	Brussels	19th Corridor Forum Meeting
15.11.2023	Rome	Meeting with Italian Minister of Infrastructure and Transport and high level expert group meeting on Messina Strait Bridge project
4.12.2023	video message	Celebration for end of construction works at Isarco River underpass
7-8.12.2023	Skåne	Inauguration of Malmö-Lund and Ängelholm-Maria railway sections + railway conference organised by SE ministry
12.12.2023	Brussels	2 <sup>nd</sup> Commission working group on decarbonised construction of transport infrastructure
10-11.01.2024	Vienna	1 <sup>st</sup> BBT Supervisory Board 2024 (tbc)
30.01.2024	Brussels	High level investors' seminar: On how to accelerate private investment for a smart, sustainable and resilient EU transport network (tbc)
8.01.2024	Brussels	3 <sup>rd</sup> Commission working group on decarbonised construction of transport infrastructure
2-5.04.2024	Brussels	Connecting Europe Days
15-18.04.2024	Dublin	Transport Research Arena (tbc)



## Organisation of the work

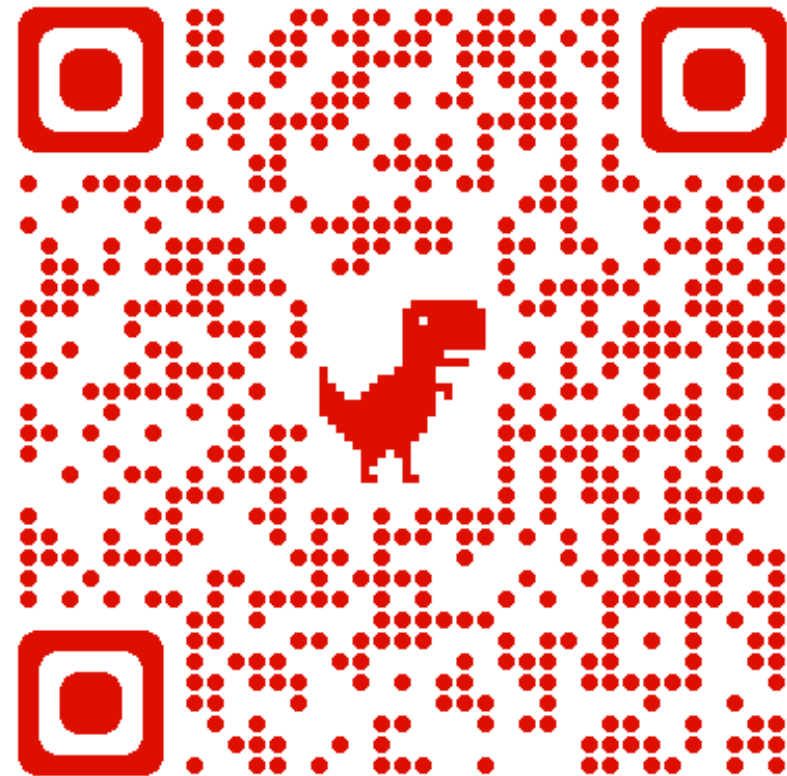


**The ScanMed Consultant Team thanks you for the cooperation in the last almost 10 years and wishes to continue in the Corridor organisation under the new TEN-T Regulation...**

\*Regulation (EU) 1315/2013, Chapter IV, in particular Article 46; \*\* Service Contract of June 2018  
Date: June 2018, updated March 2021

For very enthusiastic Forum Members ...

Scan-Me(d)



# TEN-T Core Network Corridors

## The Scandinavian-Mediterranean Corridor



19<sup>th</sup> Corridor Forum Meeting  
Restricted meeting with Member States  
Brussels, 14.11.2023

## Agenda

No items were presented by the MS prior to the meeting and no issues emerged from the Forum meeting.