

The EU Strategy for the Danube Region
Priority Area 1b: To improve mobility and Multimodality - road, rail and air links

Improving Railways

key to changing the transport performance and
the economy of the Region

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Ministry of Infrastructure, Slovenia



Co-financed by the EU (ERDF and IPA)

**Workshop on
Regional Rail Connectivity**
3-4 October 2019 | „Waterfront“
Belgrade, Serbia

- ✓ **First: the EU Strategy for the Baltic Sea Region (EUSBR); 2009**
- ✓ **Second: the EU Strategy for the Danube Region (EUSDR): 2010**
 - 8 Dec 2010: Adoption by the CION (Two docs: Communication on Strategy and Action plan)
 - 24 June 2011: endorsed by the European Council!
- ✓ **Third: the Adriatic-Ionian Macro-Region (EUSAIR); 2014**
- ✓ **Fourth: the Alpine Macro-Region (EUSALP); 2015**

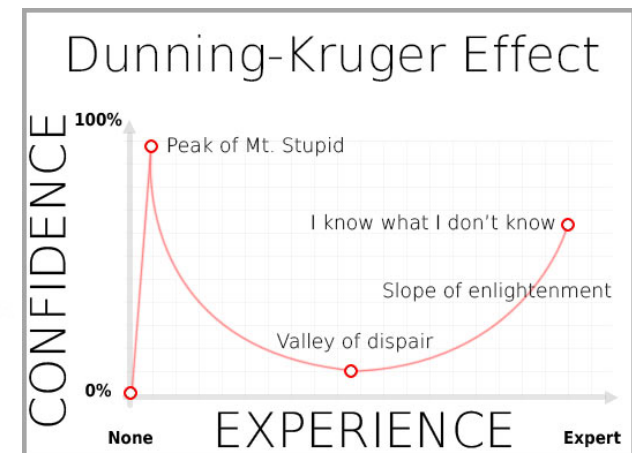
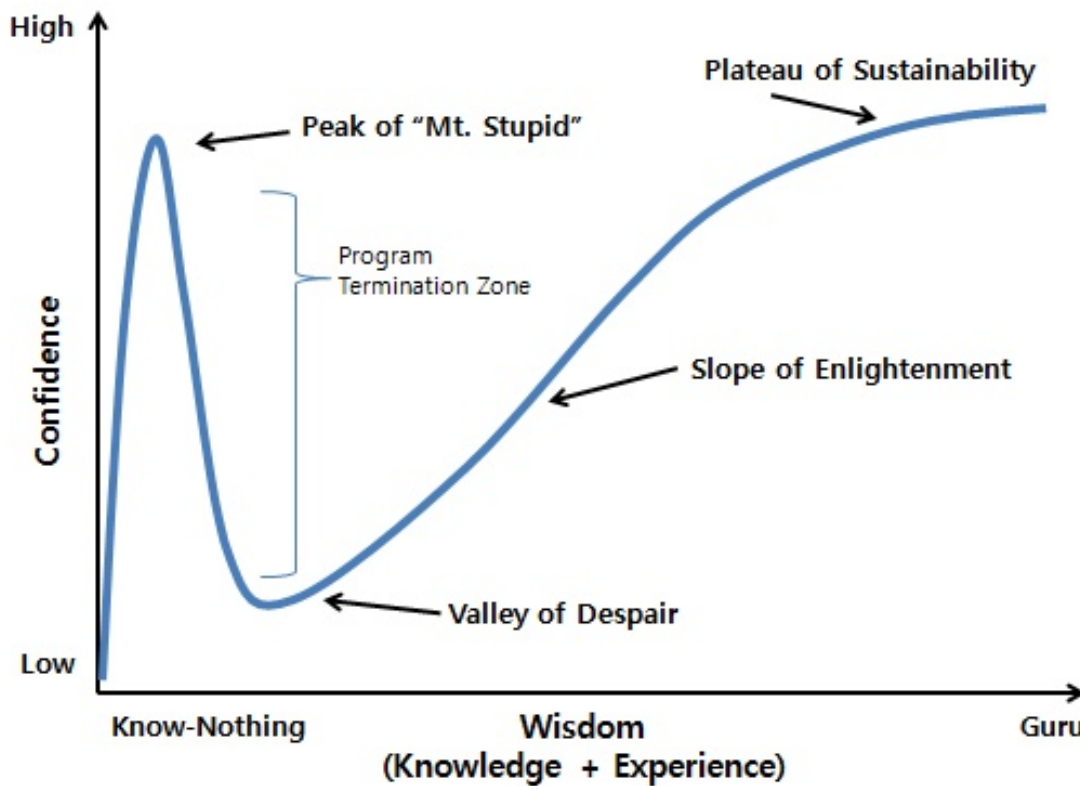


EUSDR - 11 Priority areas:

- ✓ **PA1: To improve Mobility and Multimodality**
 - ✓ **PA 1a: inland waterways - Austria and Romania**
 - ✓ **PA 1b : rail, road and air links - Slovenia and Serbia**

The Danube macro-region & **Illusion of knowledge**

Dunning-Kruger Effect



The Danube Region ...

EUSDR - **11 Priority areas:**

- 24 June 2011: endorsed by the European Council!

PA 1: To improve Mobility and Multimodality

✓PA 1a: inland waterways - Austria and Romania

✓PA 1b : rail, road and air links - Slovenia and Serbia



- **14 States:** Germany, Austria, Czech Republic, Croatia, Slovakia, Hungary, Slovenia, Romania, Bulgaria, Bosnia and Herzegovina, Serbia, Montenegro, Moldova, Ukraine
- **Population:** 115 million (EU27: 502 mio) **Area:** 1,092.591 km² (EU27: 4,324,782)

PA1b Past Events:

- **19 STEERING GROUP MEETINGS** (22 June 2011 – 1 October 2019) & **HL meeting**
 - + (2) Ad hoc **Working Group on projects**; 9 – 10 February 2011, Belgrade, 23 September 2019, Portorož
 - + (2) **Joint meeting Pa1a and PA1b**; 3 May 2012, Bratislava and 4 May 2016, Zagreb
 - + (1) **High-level meeting** on projects in the Danube region, 28 September 2017, Belgrade
- **8(9) WORKSHOPS / SEMINARS:**
 - (2) **“Common Transport Vision for the Danube Region“**; 27 September 2012, Belgrade and 15 March 2013, BXL
 - (1) **Rail Freight Corridors (Action 2)**, 27 June 2013; Ljubljana
 - (1) **Air Transport Development (Action 3)**, 5 September 2013; Belgrade
 - (2) **ITS in the Danube Region (Action 7)**, 27 March 2014, Timisoara and 25-26 September 2014, Vienna
 - (1) **Improving attractiveness and competitiveness of Railways in the Danube Region**, 21-22 November 2016; Ljubljana
 - (1) **Joint UNECE and PA1b WS: „How to develop resilient infrastructure?“**; 16-17 November 2017, Ljubljana
 - (1) **Joint UNECE and PA1b WS: Regional Rail Connectivity**, 3-4 October 2019, Belgrade
- **14 CONFERENCES:**
 - (4) **“The Danube Region Transport Days“**; 18-19 Nov. 2012, Ljubljana, 3 Oct. 2013: Belgrade and 21 -22 Oct. 2014, Lj and 4-5 Dec.2018, Ljubljana
 - (4) **“Transport & Research in the Danube Region“**; 2-3April 2014, Ljubljana, 20-21 October 2015, Čatež (SI) and 9 November 2016, Novo mesto (SI), 6-7 November 2017, Ljubljana (SI)
 - (4) **“Transport & Logistics in the Danube Region“**; 10 March 2014, 26 March 2015, 14 April 2016 and 5 April 2017, Belgrade
 - (1) **“Road Safety in the Danube Region“**, 20-21 May 2015, Ljubljana
 - (1) **„Development & Maintenance of Road Surfaces in the Danube Region“**, 25 November 2015, Bled (SI)

TOTAL: 46 (47) EVENTS! Out of it 22 dedicated to stakeholders (conferences, workshops)!

White Papers on Transport

1. WP: **The future development of the common transport policy**

A global approach to the construction of a Community framework for sustainable mobility - Communication from the Commission, Document drawn up on the basis of COM(92) 494 final, 2 December, 1992

Policy approach: **Sustainable Transport**

2. WP: **European transport policy for 2010: time to decide** – COM(2001) 370 final, 12.9.2001

Policy approach: **Modal Shift**

2.1 Mid-term review of the 2001 Transport White Paper: **Keep Europe moving - Sustainable mobility for our continent**, COM(2006) 314 final, 22.06.2006

Policy approach: **Co-modality**

3. WP: **Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system**, COM(2011) 144 final, 28.3.2011

Policy approach: **Full-Modal Integration**

Present **CHALLENGES** for the EU Transport

The European Commission focuses on:

- **DIGITALISATION**
 - ITS (ERTMS; SESAR, VTMSIS, RIS)
 - Collaborative (Sharing) Economy
 - Drones

- **DECARBONISATION**
 - -20% CO₂ emissions from transport by 2030
 - Global solutions to reduce emissions (IMO, ICAO)
 - Polluter pay principle
 - Modal shift

- **INVESTMENT**
 - Innovative financing mechanisms /EFSI)
 - Infrastructure investment (CEF)
 - Strategic Research and innovation

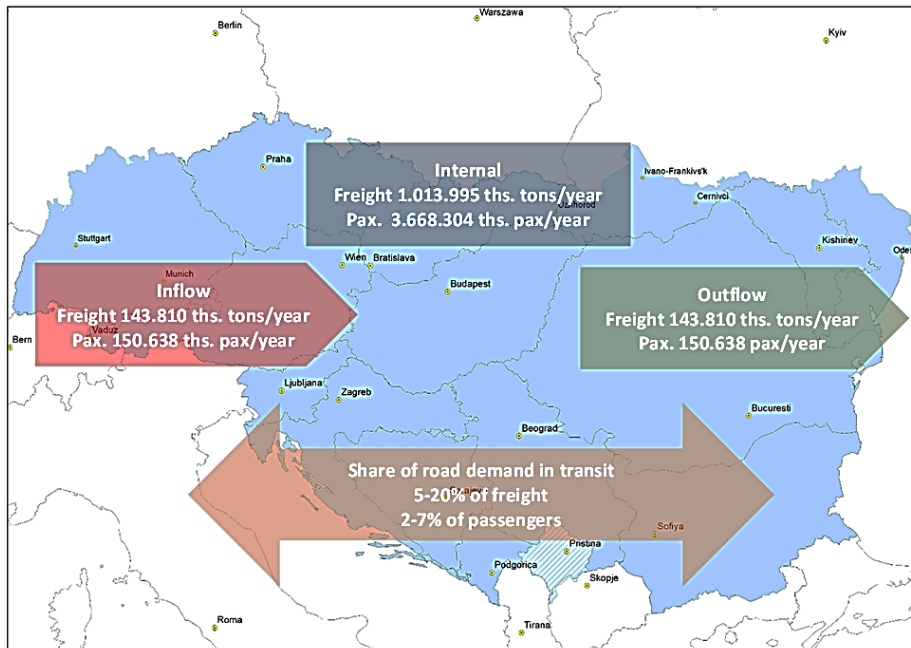
- **PEOPLE**
 - Safety and security (e.g. halving road deaths by 2020)
 - Passenger Rights
 - Jobs

The Danube region Railways

The Danube region Rail network length

COUNTRY	Length (km)	Electrified length (km)	Area (km ²) per km track	Population per km track	Nationalised or Private
Austria	5.527	3.826	15.18	1,587	Both
Bosnia and Herzegovina	1.018	565	50.29	3,445	(Nationalised)
Bulgaria	4.030	2.880	27.54	1,762	(Nationalised)
Croatia	2.604	985	21.71	1,595	(Nationalised)
Czech Republic	9.567	3.237	(8.24)	1,106	Nationalised
Germany*	38.594	20.500	(9.26)	2,145	Both
Hungary	7.945	2.889	(11.71)	1,233	Nationalised
Moldova	1.151	0	(29.4)	3,084	(Nationalised)
Montenegro	250	0	55.25	2,49	(Nationalised)
Romania	10.774	3.292	22.13	1,823	Both
Serbia	3.764	1.279	23.48	1,866	Nationalised
Slovakia	3.626	1.587	13.52	1,499	(Nationalised)
Slovenia	1.209	503	16.75	1,709	(Nationalised)
Ukraine*	20.952	9.801	28.81	2,14	Nationalised
	111.011	51.344			
European Union (28)	218.783	116.561	20.46	2,347	Both

Road and Rail Transport



Transport demand

Transport Study for the Danube Macro- Region (2017):

Road and rail transport flows:

- mostly domestic
- short/medium distance
- modal split in favour of the road

Transport mode	Unit of measurement	Road		Rail		Total	
		2010	2015	2010	2015	2010	2015
FREIGHT	thousand tonnes	937.657	989.476	220.147	224.764	1.157.804	1.214.240
	modal share (%)	81,0	81,5	19,0	18,5	100,0	100,0
	variation (%)		+ 5,5		+ 2,1		+ 4,9
PASSENGERS	thousand passeng.	3.613.646	3.725.783	204.995	229.496	3.818.679	3.955.280
	modal share (%)	94,6	94,2	5,4	5,8	100,0	100,0
	variation (%)		+ 3,0		+ 12,0		+ 3,5

Source: TRT elaborations on TRUST transport model and Eastern Partnership regional transport study (www.danube-transport.eu)

Future – Rail Freight

Rail freight demand indicative projections up to 2030 [thousand tonnes]

Source: TRT elaborations on Capros et al. (2016), EC (2014), National Transport Plans and Strategies

Functional Region	2015	2030		Indicative projection of annual growth rate [%]		Total growth [%]	
		Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Southern Germany and Western Austria	71.470	83.384	91.196	1,00	1,50	16,67	27,60
Eastern Austria and Slovenia	42.581	52.863	65.491	1,50	3,00	24,15	53,80
Czech Republic and Slovakia	78.936	91.719	122.785	1,50	3,00	16,19	55,55
Hungary	34.283	39.927	48.091	1,00	2,25	16,46	40,28
Croatia and Bosnia and Herzegovina	18.145	21.156	23.819	1,00	1,75	16,60	31,27
Montenegro and Serbia	5.328	7.129	7.708	2,00	2,50	33,81	44,67
Bulgaria	20.070	26.040	30.162	1,75	2,75	29,74	50,28
Western Romania	43.702	62.811	72.821	2,50	3,50	43,72	66,63
Eastern Romania Moldova and Ukraine	19.301	25.500	30.423	1,75	3,00	32,11	57,62
Danube Macro-Region	333.816	410.530	492.497	1,56	2,58	22,98	47,54

EXAMPLES OF PRE-IDENTIFIED STRATEGIC PROJECTS: SHORT – MEDIUM TERM

Country	PROJECT
Germany (Bayern)	ROAD: Motorway A8 AS Rosenheim – Border DE/AT; 6 lane widening Rosenheim-Achenmühle Achenmühle-Bernauer Berg
Austria	TERMINAL: Planning and construction of the expansion of the trimodal Port of Freudenau/Vienna
Slovenia/Austria	TUNNEL: Construction of a second tube for the Karawanks motorway tunnel
Czech Republic	RAIL: Brno junction modernisation/new main station (Studies, Works)
Slovakia	RAIL: Bratislava junction modernisation / Development of Rail Node Bratislava, incl. Airport Rail Link (Works)
Hungary	AIR: Construction of the railway connections of Budapest Liszt Ferenc Airport.
Croatia	RAIL: Construction of the second track on the railway line section Križevci – State border with HU, ERTMS 1
Bosnia and Herzegovina	RAIL: Modernization of railway Banja Luka-Doboj-Tuzla-Zvornik-Srbija - Action (1)
Serbia	RAIL: Reconstruction and Modernization of the railway line Belgrade - Novi Sad - Subotica - border with HU
Montenegro	AIR: Tivat Airport
Bulgaria	TERMINAL: Construction of a new intermodal terminal in Plovdiv area
Romania	ROAD: Drobeta-Turnu Severin – Maglavit/Calafat Road upgrade (Works).
Moldova	ROAD: A) Rehabilitation of National road M14 - Section Balti - Criva
Ukraine	ROAD: Construction of a new Odessa-Reni road

Pan-European Corridors



Source: Wikipedia

- **No. IV:** Dresden/Nuremberg – Prague – Vienna/Bratislava – Budapest – Bucharest – Constanta – Sofia – Thessaloniki/Plovdiv - Istanbul
- **No. V:** Venice – Ljubljana – Budapest – Lvov
 Branch A: Bratislava - Uzhhorod
 Branch B: Rijeka – Zagreb - Budapest
 Branch C: Ploče – Sarajevo -Budapest
- **No. VI:** Gdansk – Katowice – Žilina; branch Katowice - Brno
- **No. VII:** The Danube River
- **No. VIII:** Durres – Tirana – Skopje – Sofia – Plovdiv – Burgas – Varna – Constanta
- **No IX:** Helsinki - St. Petersburg – Kiev – Chişinău – Bucharest - Dimitrovgrad – Alexandroupolis
- **No. X:** Salzburg – Ljubljana – Belgrade – Skopje - Thessaloniki
 Branch A: Graz – Maribor - Zagreb
 Branch B: Budapest – Novi Sad - Beograd
 Branch C: Niš – Sofia - Istanbul
 Branch D: Veles – Bitola - Igumenitsa

RNE (2004) and RFC Corridors

RNE corridors part of the Danube Region:

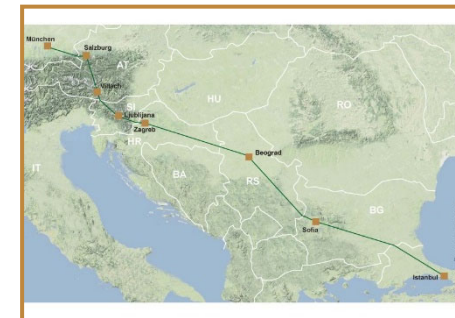
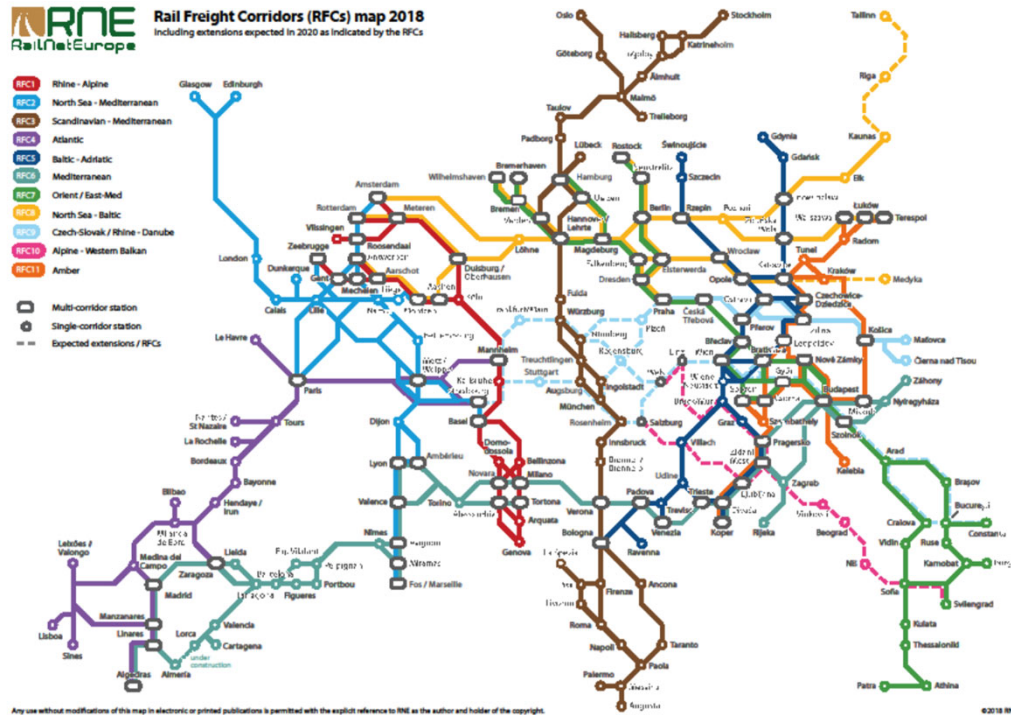
C07: Gdynia-Warszawa-Wien/Bratislava-Trieste/Koper

C08: Lyon/Dijon-Torino-Ljubljana/Koper-Budapest

C09: Wien-Budapest-Bucharest-Constanta/Kulata/Svilengrad/Varna/Burgas

C10: Hamburg-Dresden-Praha-Bratislava-Budapest

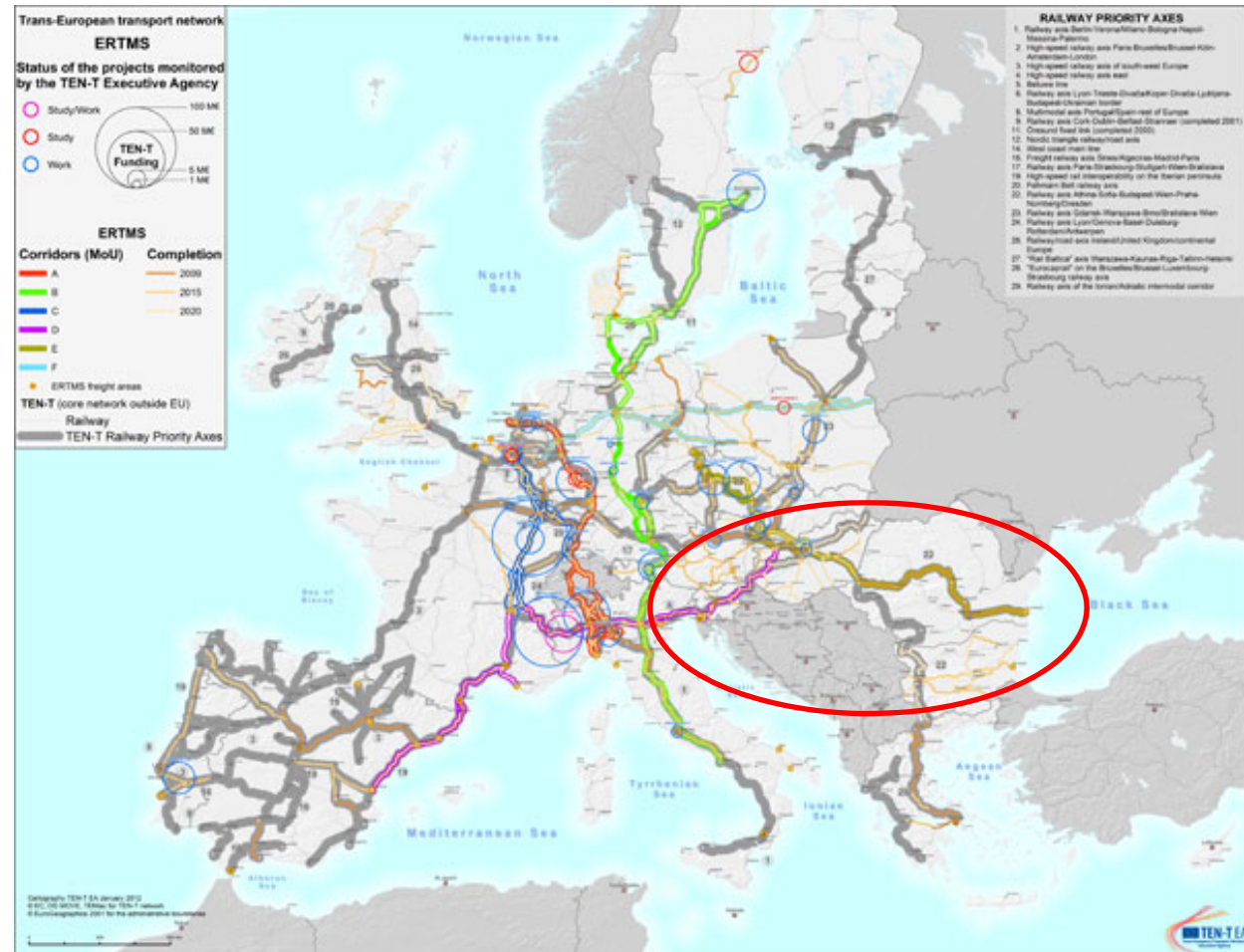
C11 RNE: München (DE) – Salzburg (AT) – Ljubljana (SI) – Zagreb (CRO) – Belgrade (SRB) – Sofia - Svilengrad (BG) - (Istanbul)



ERTMS Corridors

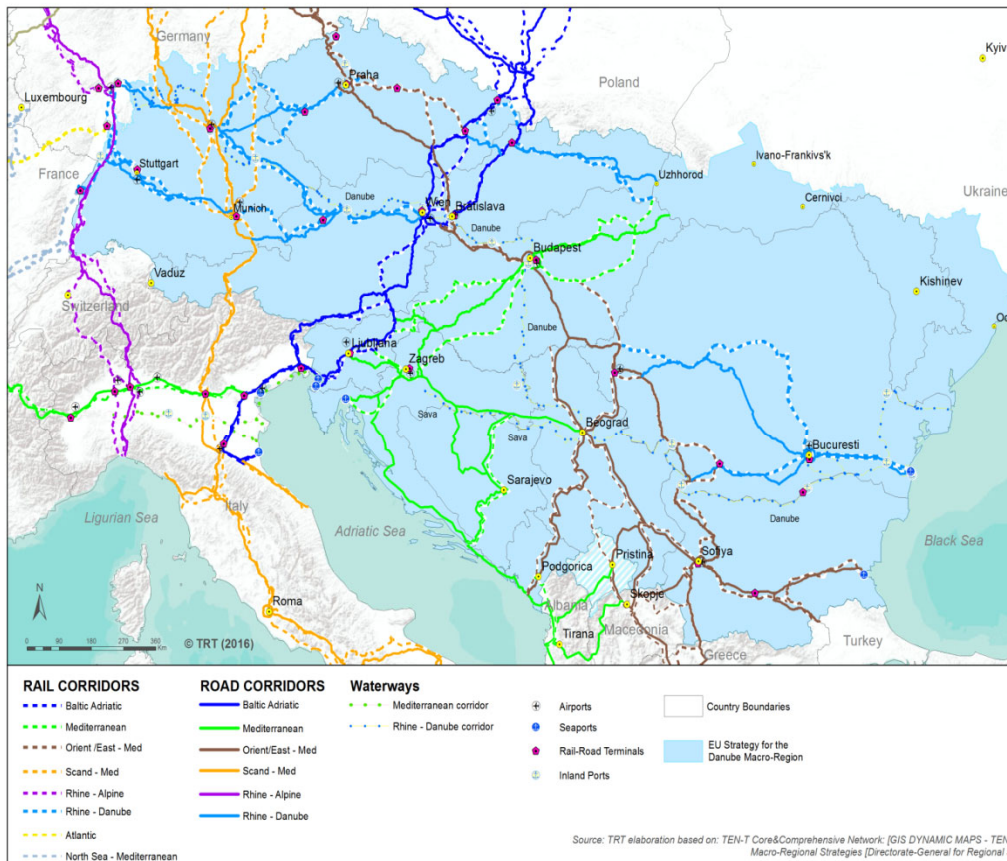
Six 'priority' corridors

- 2005 and 2008, two **MoUs signed** by the Commission and the railway stakeholders
- **ERTMS** (European Rail Traffic Management System) **Deployment plan in 2009**
- Commission Decision of 6 November 2012 amending Decision 2012/88/EU on the technical specifications for interoperability relating to the control-command and signalling subsystems of the trans-European rail system
- ✓ **EU Coordinator** nominated by CION **July 2005!**



TEN-T CNC crossing the Danube macro-region

TEN-T (Reg. 1315/2013 on TEN-T and Reg. 1316/2013 on CEF) CNCs, including indicative extensions to the Western Balkans



1. Scandinavian-Mediterranean Corridor (FI, SE, DK, DE, AT, IT, MT) - Mr. Pat Cox (IE); Since 12 March 2014

2. Baltic-Adriatic Corridor (PL, SK, CZ, AT, SI, IT) - Mr Kurt Bodewig (DE); Since 12.3.2014 and Ms Anne Elisabeth Jensen (DK); Since 16 September 2018

3. Orient/East-Med Corridor (DE, CZ, SK, AT, HU, RO, BG, GR, CY) - Mr. Mathieu Grosch (BE); 1 July 2014

4. Mediterranean Corridor (ES, FR, IT, SI, HR, HU) - Mr L. J. Brinkhorst * (NL); Since 12.3.2014 until 16.9.2018, Ms Iveta Radičová (SK); Since 16 september 2018

5. Rhine-Danube Corridor (FR, DE, AT, CZ, SK, HU, HR, RO, BG) - Ms Karla Peijs (NL); Since 12 March 2014

6. Rhine-Alpine Corridor (NL, BE, DE, FR, IT) - Mr Paweł Wojciechowski (PL); Since 27 May 2015

7. Atlantic Corridor (PT, ES, FR, DE) - Mr Carlo Secchi (IT); Since 12 March 2014

8. North Sea-Baltic Corridor (NL, BE, DE, PL, LT, LV, EE, FI) - Ms Catherine Trautmann (FR); Since 12 March 2014

9. North Sea-Mediterranean Corridor (IE, UK, FR, NL, BE, LU) - Mr Peter Balazs (HU); Since 12 March 2014

New proposed Corridor Initiatives



Proposals supported by PA1b Steering Group:

„Traianus“ Rail Freight Corridor (Constanta – Bucharest – Craiova - Turnu Severin – Belgrade – Zagreb – Ljubljana – Koper/Rijeka):

Thank you very much!

Please visit:
www.danube-transport.eu



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