

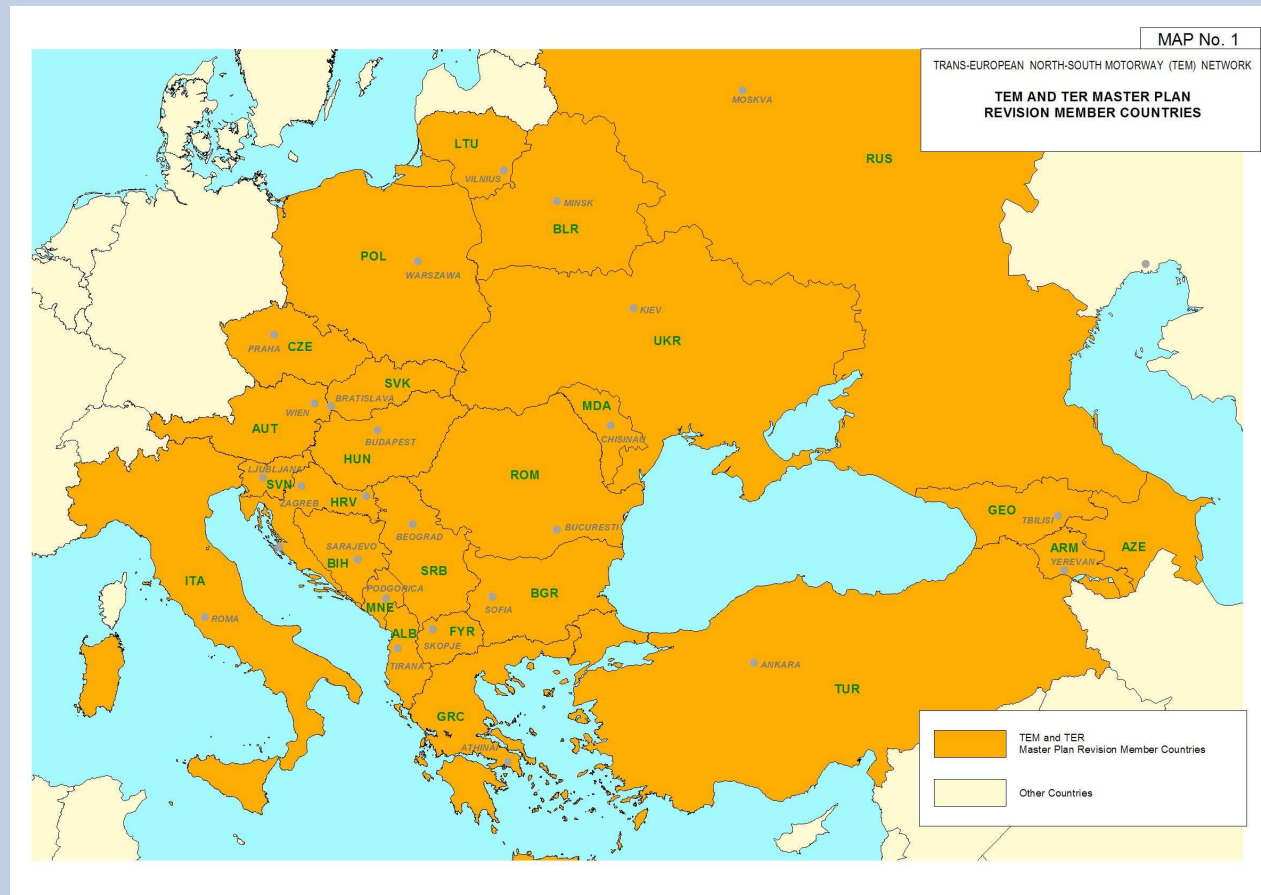


**UNITED NATIONS**  
**ECONOMIC COMMISSION FOR EUROPE**

# **TEM AND TER MASTER PLAN REVISION**

**Petr Pospisil**  
**TEM and TER Consultant**

# Region covered



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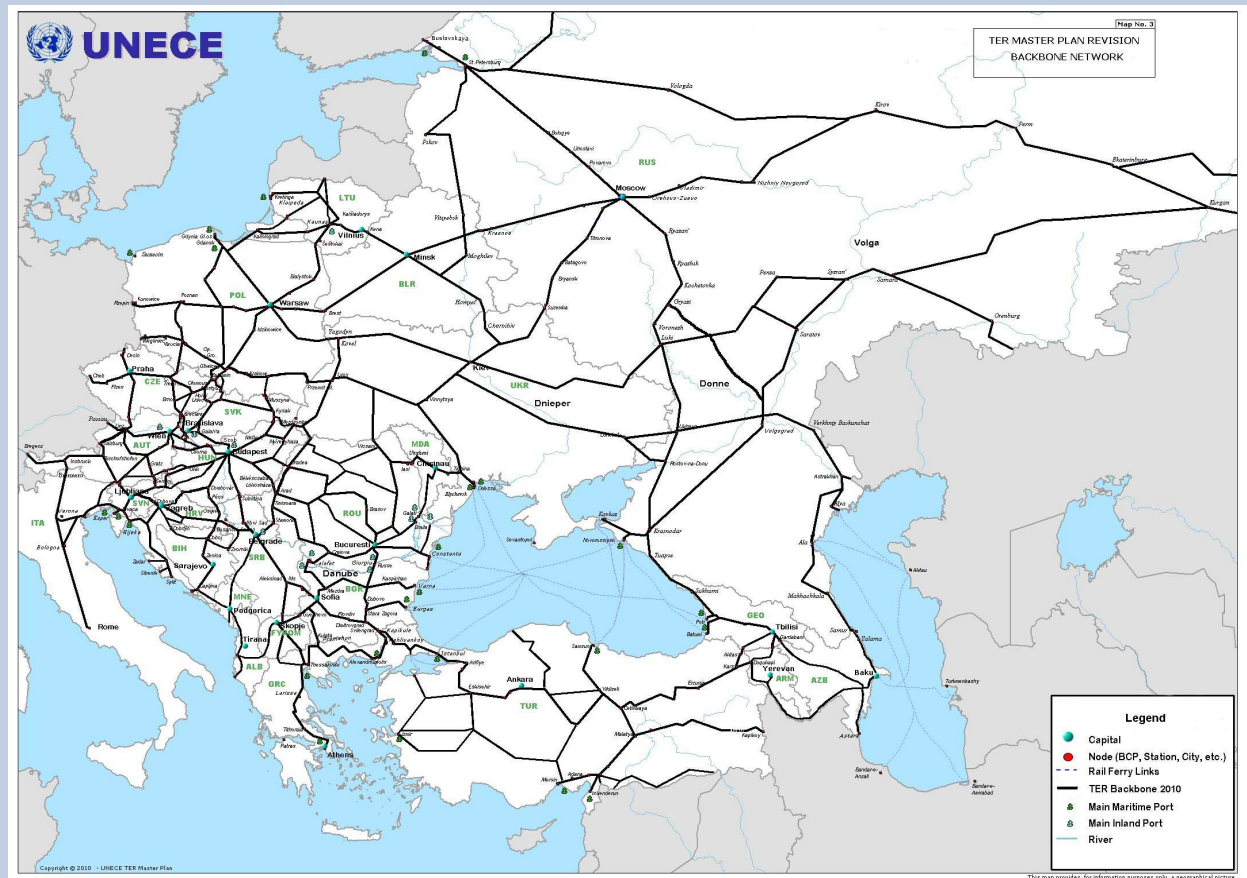
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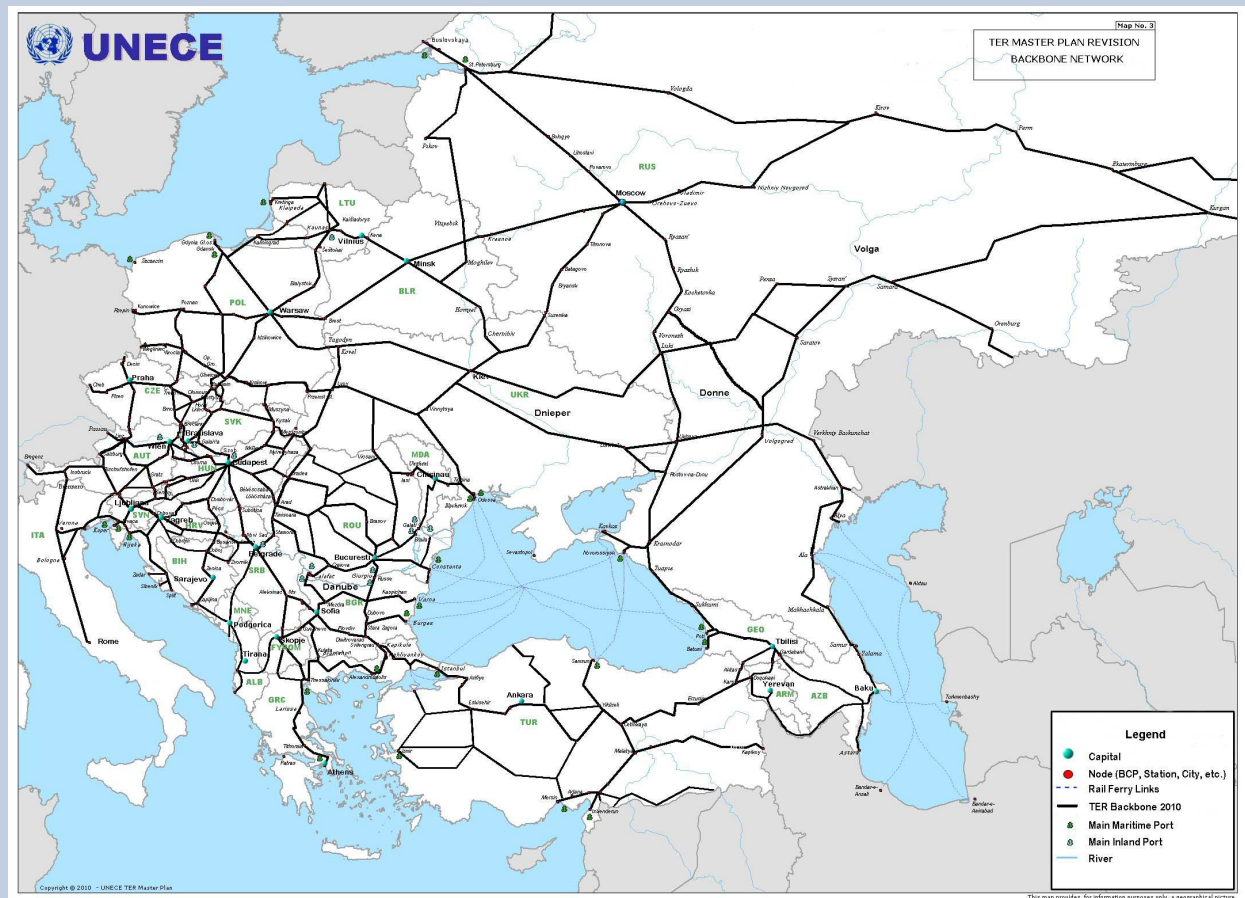
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# TER Master Plan Revision backbone network



# TER Master Plan Revision backbone network



# Comparison of TEM and TER backbone networks with the other international infrastructure networks

IFER BACKBONE NETWORK LINKS						
COUNTRY	From	To	PART OF HLG TRANSNATIONAL AXIS	PART OF E-RAIL NETWORK	PART OF EURO-ASIAN LINKAGES	PART OF TEN-T
ARMENIA	Ayrum (Georgian border)	Yerevan	X	X	X	
	Masis	Yeraskh (Azerbaijani border)	X			
	Meghri (Azerbaijani border)	Nuvedi (Azerbaijani border)	X			
AUSTRIA	Wernstein a. I. (German border)	Wien		X		X
	Salzburg	Rosenbach (Slovenian border)	X	X		X
	Linz	Bregenz		X		X
	Wien	Nickelsdorf (Hungarian border)		X		X
	Pamdorf	Kittsee (Slovak border)		X		X
	Summerau (Czech border)	Spieffeld (Slovenian border)		X		X
	Wien	Arnoldstein (Italian border)		X		X
	Wien	Bernhardthal (Czech border)		X		X
	Innsbruck	Brenner (Italian border)		X		X
	Baumgarten i. B. (Hungarian border)	Wien				X
	Klagenfurt	Jennersdorf (Hungarian border)				X
	Baku	Yalama (Russian border)			X	
AZERBAIJAN	Baku	Astara			X	
	Baku	Boyuk-Kesik (Georgian border)	X	X	X	
	Osmanly	Agband (Armenian border)	X			

# List of TER Master Plan Revision projects

## (page 1)

ROAD projects - Microsoft Word

Šoubor Úpravy Zobrazit Vložit Formát Nástroje Tabulka Okno Nápověda

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# List of TER Master Plan Revision projects

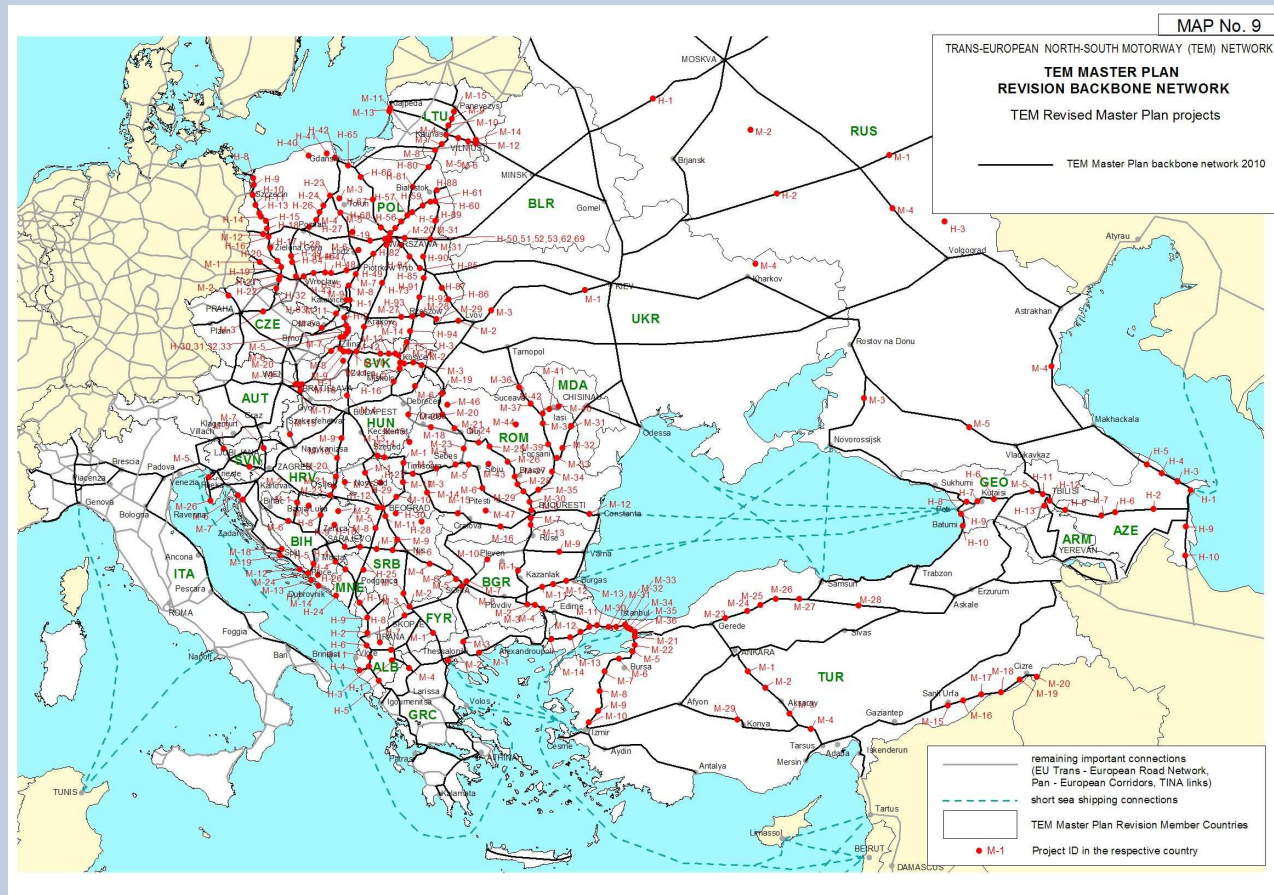
(page 1)

Project ID	Project Description	Length (km)	Cost mil. €	Class	Starting year	End year	% Funding Secured/source			
							National	Bank	Grant	Private
ALBANIA										
AL-R-1	Porto Romano Port (LPG and oil terminal) to Sukth station	13	24 €							
AL-R-2	Portoferra Port (LPG and oil terminal) to Vloza station	2			2009	2010				100
AL-R-4	Link railway Lin – border with FYROM	3	5 €							
AUSTRIA (Note to funding: in majority of cases, 70% of bank loans to be reimbursed by state)										
AT-R-2	Gloggnitz – Murzzuschlag, new tunnel, rehabilitation, safety concept	42	1123 €		2002	2011		100		
AT-R-3	Godersdorf – Rosenbach, Karawanken tunnel, upgrading and tunnel safety	23	109 €					100		
AT-R-4	Wien – Semmering, upgrading and rehabilitation of access to Semmering base tunnel	75	685 €		2002	2011		100		
AT-R-5	Bruck/Mur – Graz, upgrading and rehabilitation	54	105 €		2002	2011		100		
AT-R-6	Graz – Spielfeld, construction of 2nd track, rehabilitation and upgrading	49	654 €		2002	2011		100		
AT-R-7	Passau – Wels, rehabilitation and upgrading	81	189 €		2002	2011		100		
AT-R-8	Wien – Bratislava, construction of new line and rehabilitation of existing one	45	348 €		2002	2011		100		
AT-R-9	Traun – Selzthal, rehabilitation and upgrading	104	113 €		2002	2011		100		
AT-R-10	Summerau – Linz, construction of 2nd track	55	138 €		2007	2011		100		
AT-R-11	Koralpin project, new line Graz – Klagenfurt	125	2988 €		2002	2011		100		
AT-R-13	Freilassing – Salzburg, construction of 3rd track	4	116 €		2007	2011		100		
AT-R-14	Kufstein – Wörgl – Kundl, construction of additional 2 tracks, upgrading of existing line	65	1339 €		2012	2021		100		
AT-R-15	Linz – Wien, construction of 61 km new 4 track line, additional 2 tracks on the rest 127 km	188	4784 €		2002	2011		100		
AT-R-16	Linz – Salzburg, construction of additional 2 tracks, upgrading and rehabilitation	124	276 €		2007	2011		100		
AT-R-17	Buchs – Innsbruck, construction of 2nd track, rehabilitation and upgrading, tunnel safety	137	381 €		2002	2011		100		
AT-R-20	Wien – Bernhardsthal, rehabilitation and upgrading	78	95 €		2002	2011		100		
AT-R-21	Klagenfurt – Villach, new line construction	38	196 €		2002	2011		100		
AZERBAIJAN										
AZ-R-1	Reconstruction and rehabilitation of the Baku – Boyuk-Kesik (Georgian border) line	503	319 €							
AZ-R-2	Construction of new railway line Astara – Iranian border	8								
BOSNIA AND HERZEGOVINA										
BH-R-1	Rehabilitation and upgrading of Bosanski Samac – Doboj line	62	40 €			2015	0	0	0	0
BH-R-2a	Rehabilitation of Sarajevo – Ploče line, section Čelebici – Čapljina – Croatian border	100	60 €		2009	2010		100		

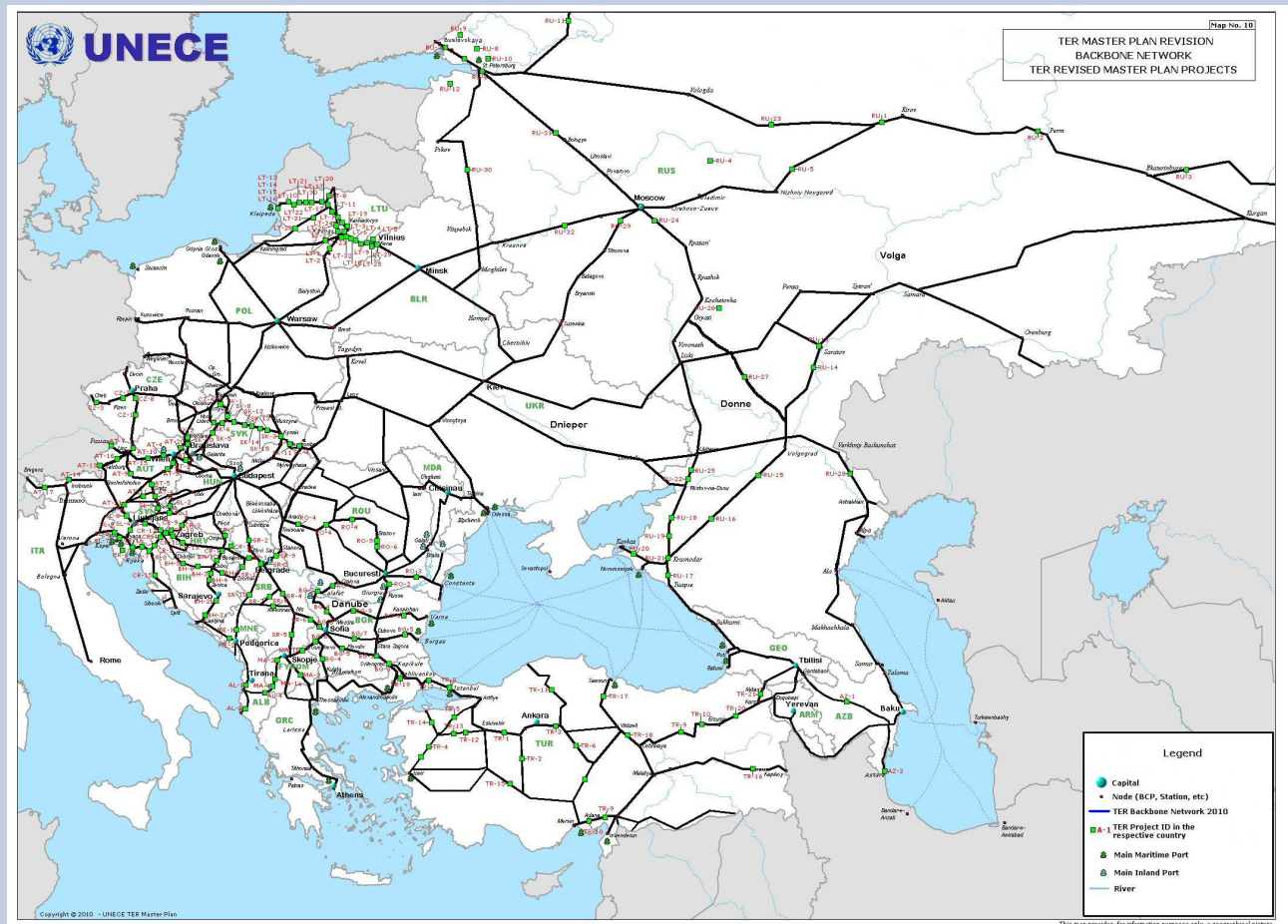
## OVERVIEW OF THE TEM AND TER MASTER PLAN PROJECTS

<u>MASTER PLAN</u>	<u>Original 2005</u>	<u>Revision 2010</u>
NUMBER OF PROJECTS:	491	512
Out of which rail projects	172	191
Out of which road projects	319	321
 TOTAL COST OF PROJECTS (bill. EUR):	 102,114	 196,971
Out of which rail projects	52,558	70,288
Out of which road projects	49,556	126,683
 AVERAGE COST OF PROJECT (mill. EUR):	 208	 385

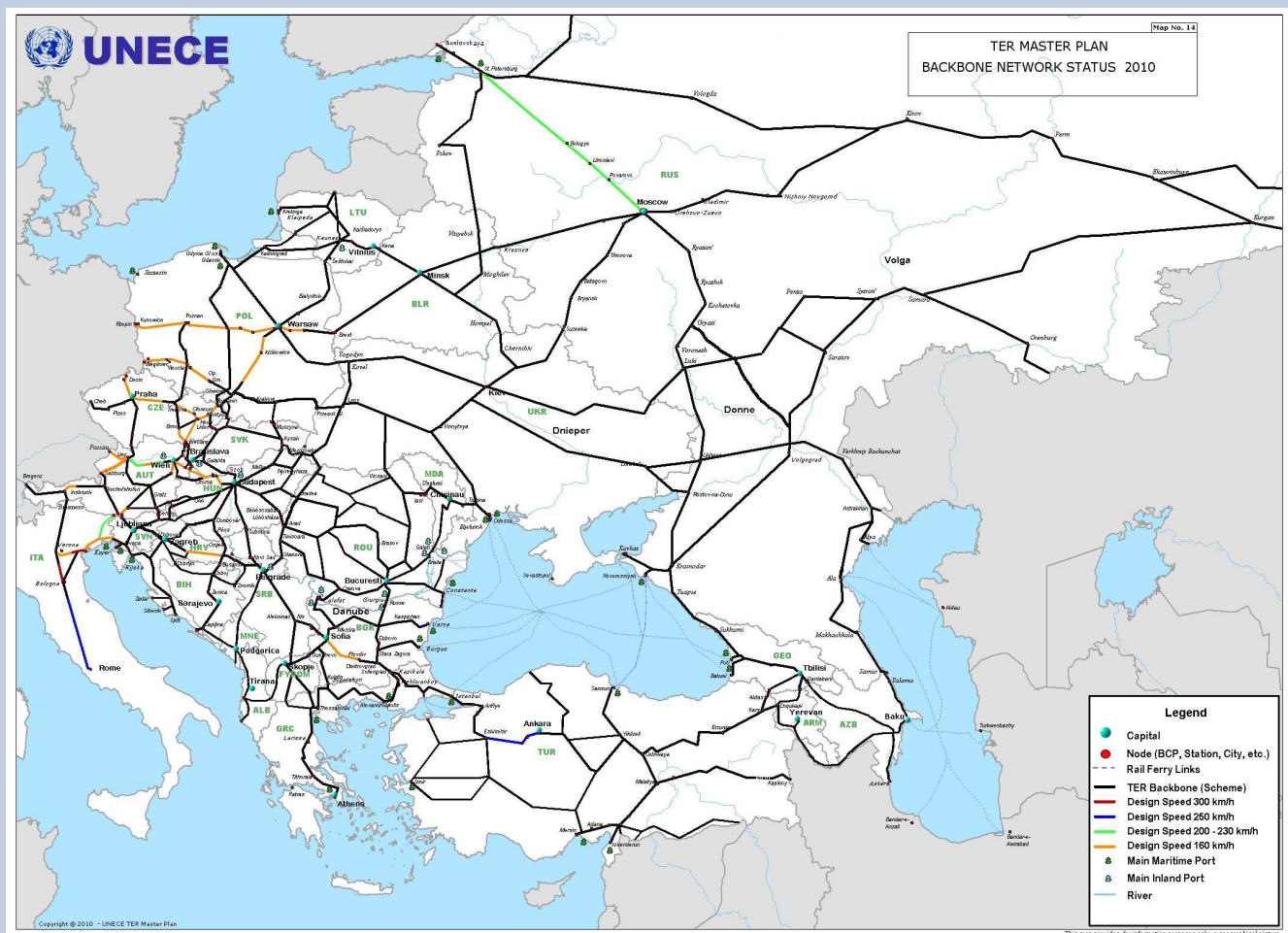
# TEM Master Plan Revision projects



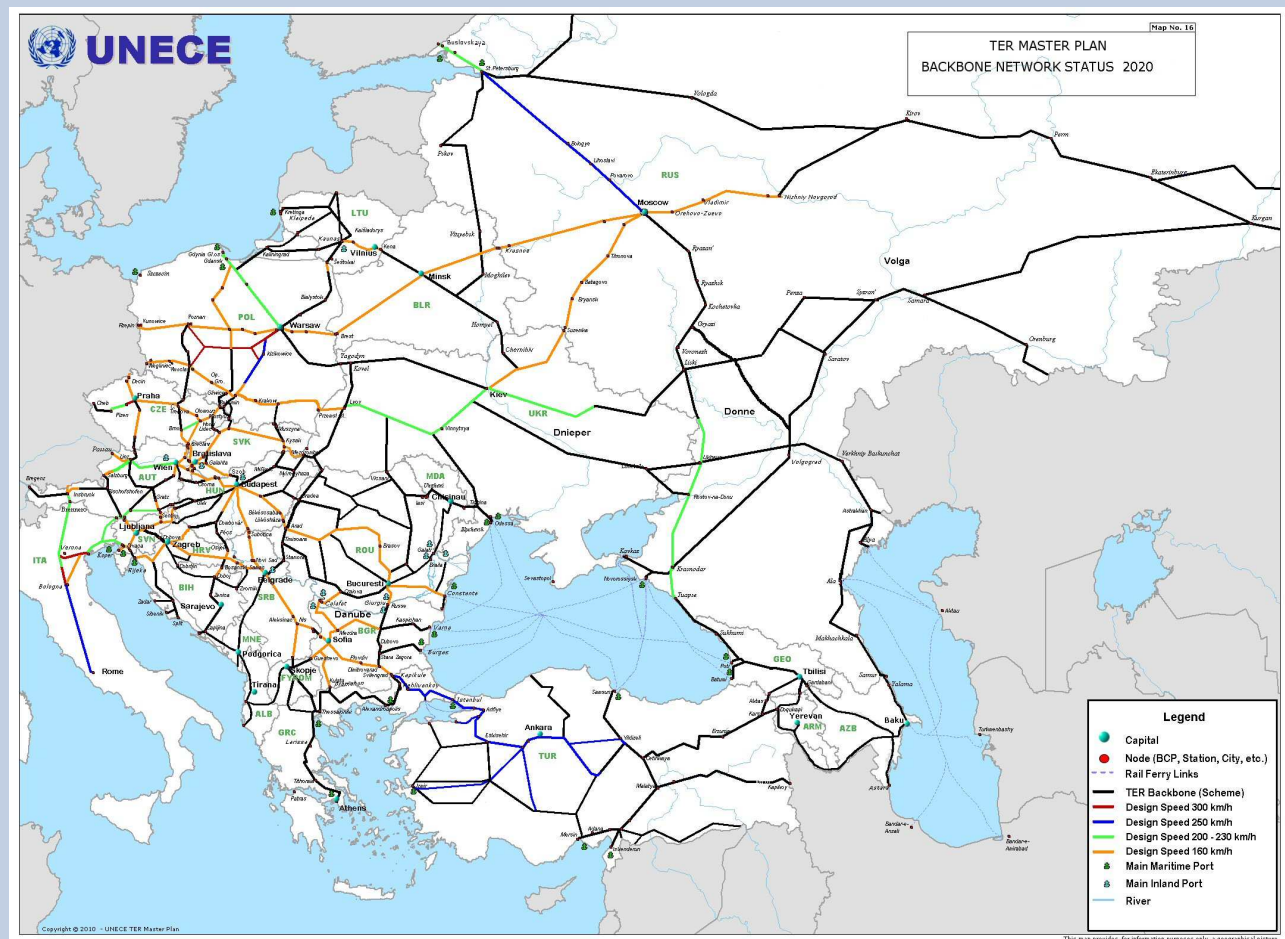
# TER Master Plan Revision projects



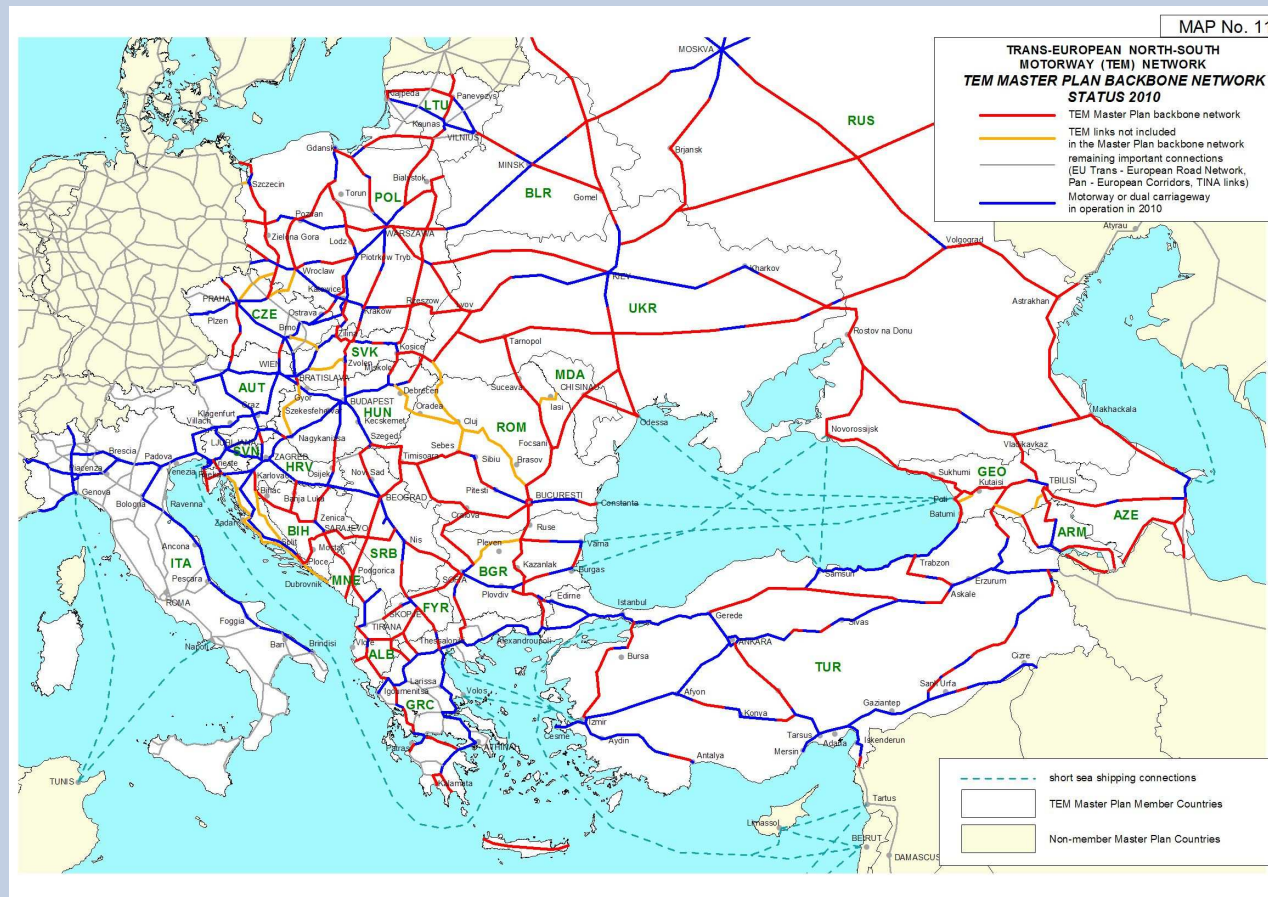
## TER backbone network status 2010



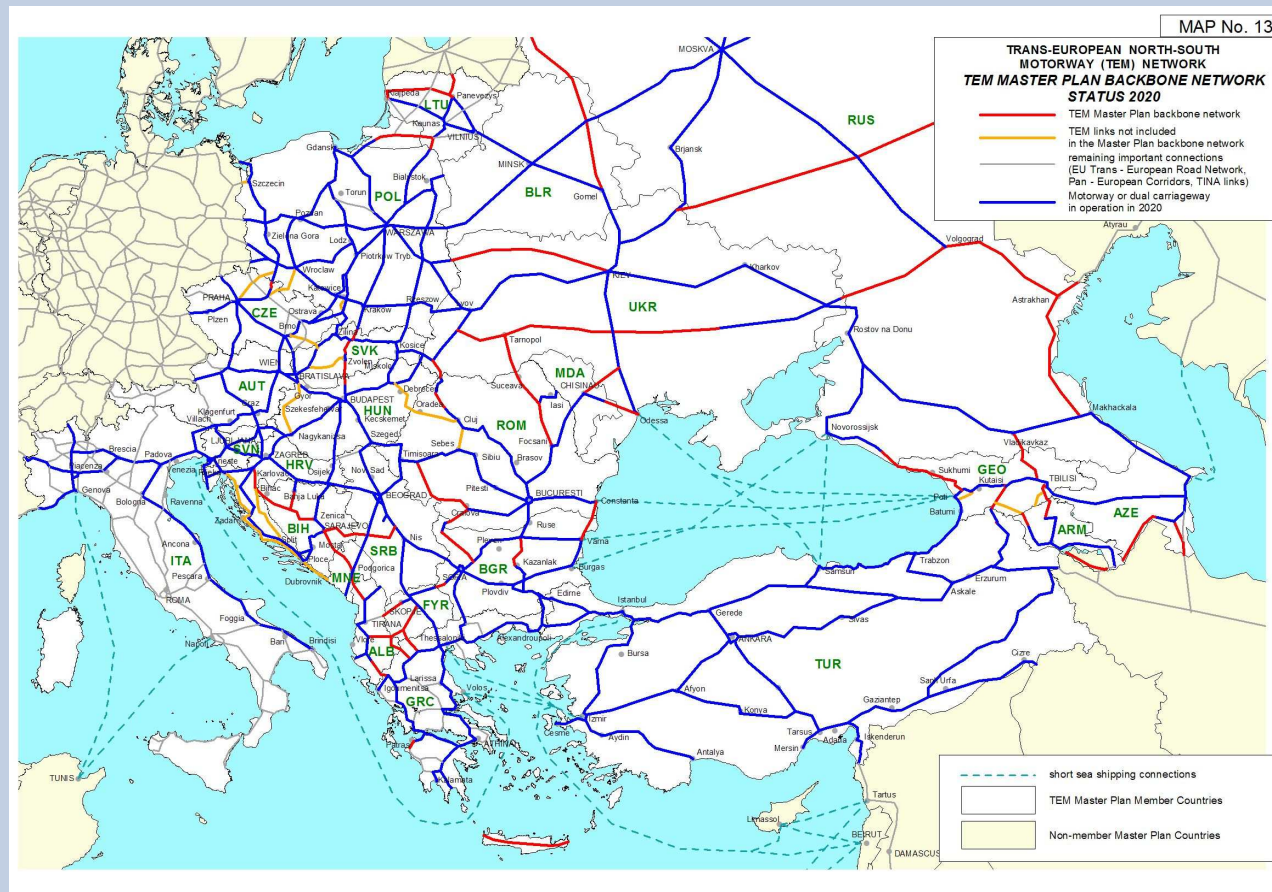
# TER backbone network status 2020



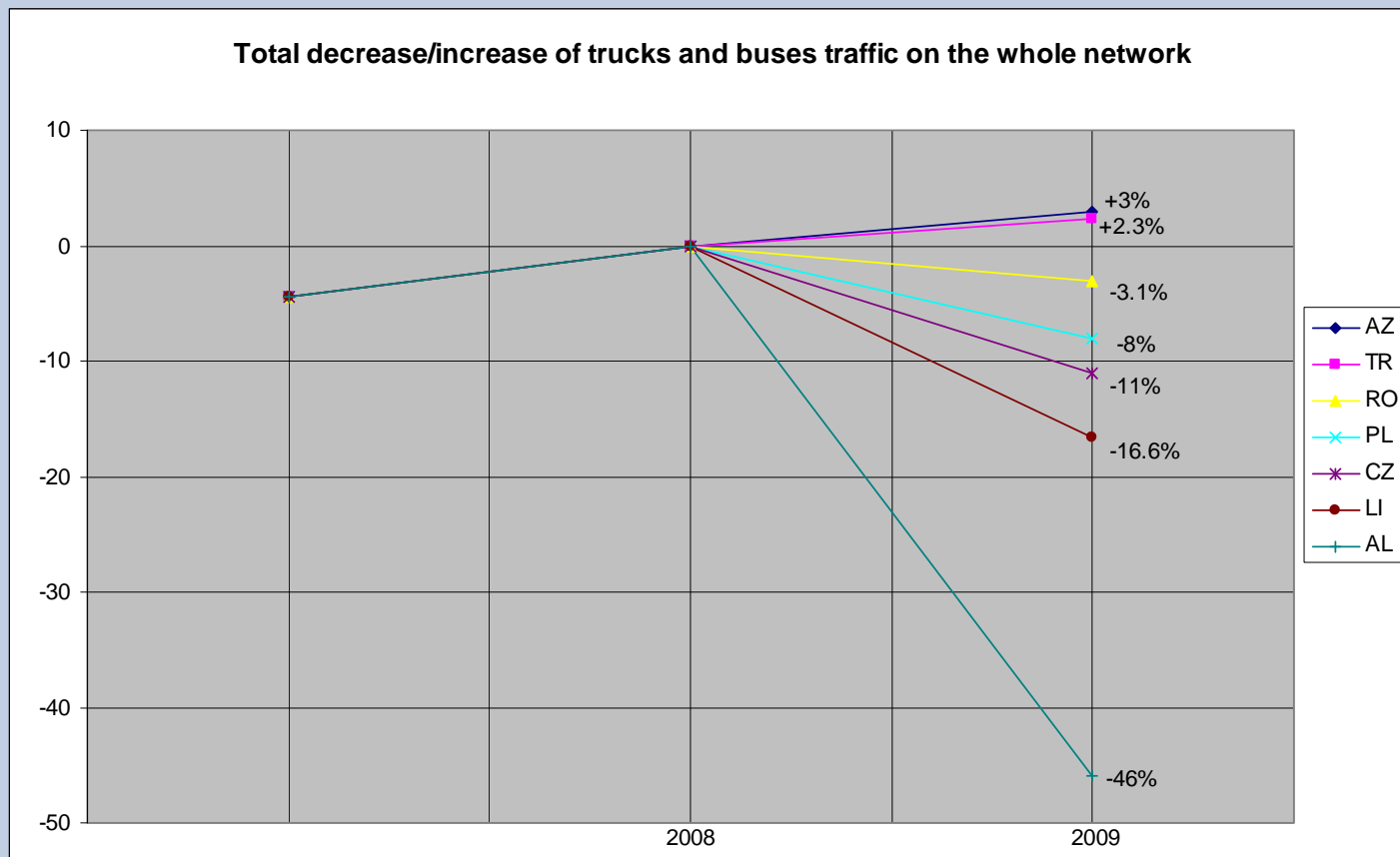
# TEM backbone network status 2010



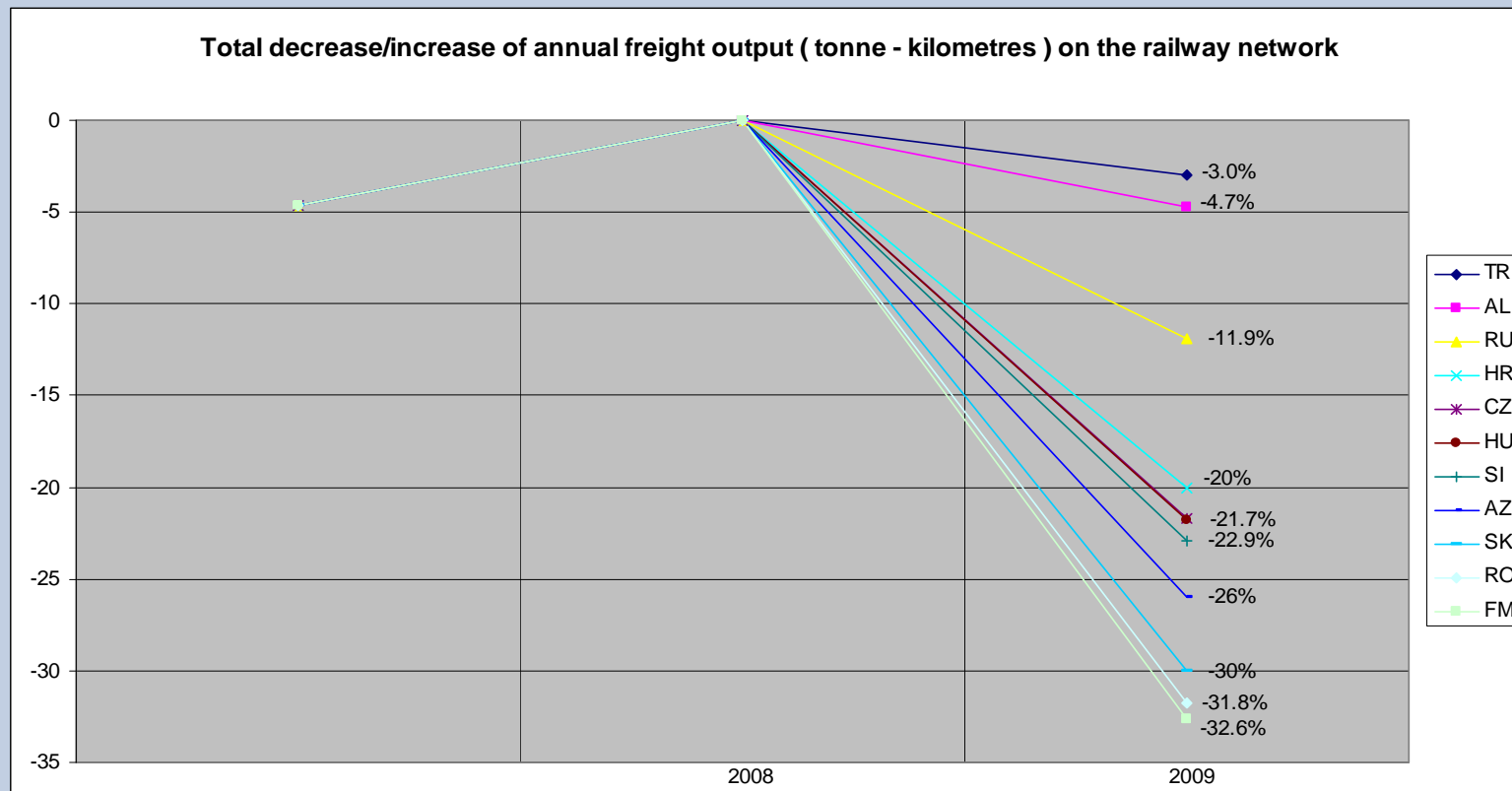
# TEM backbone network status 2020



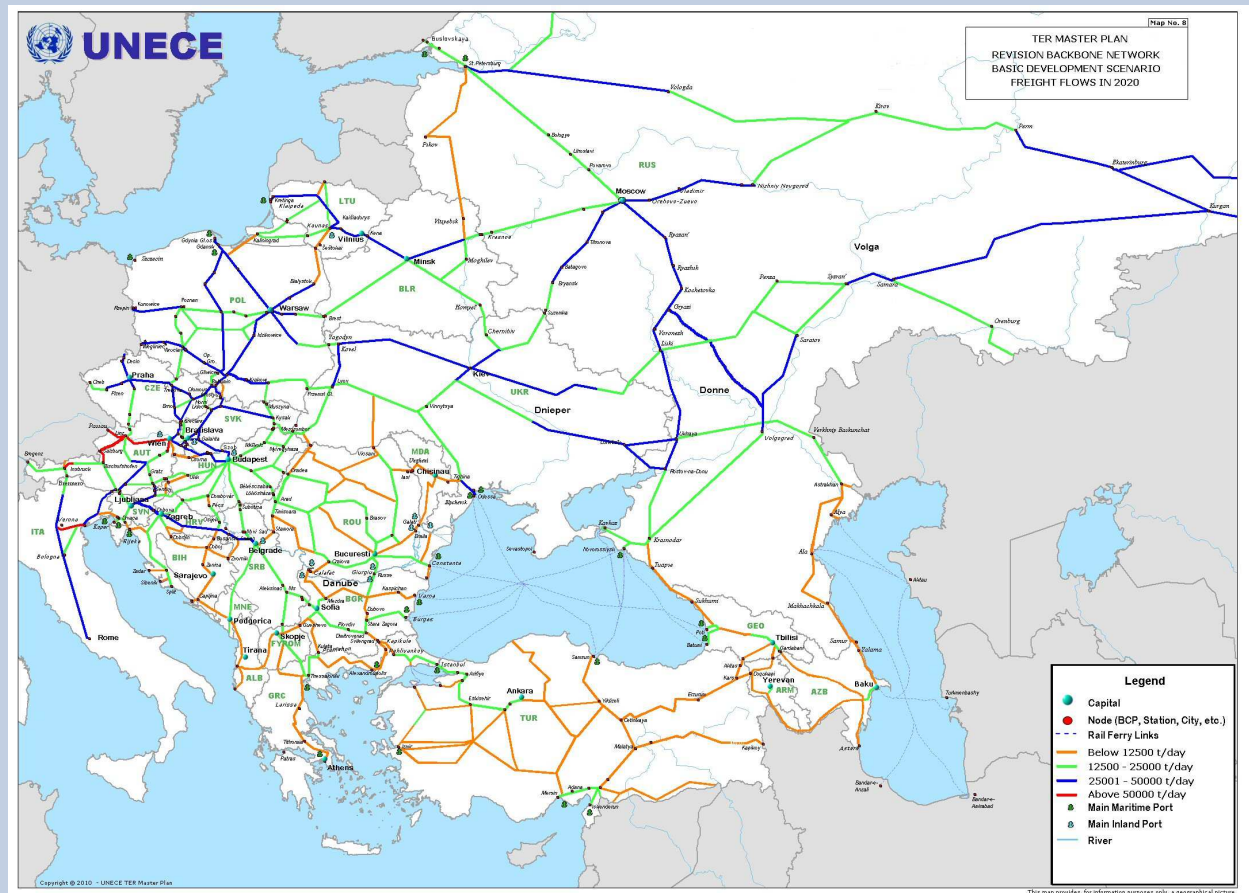
# Road traffic development in the years 2008 and 2009



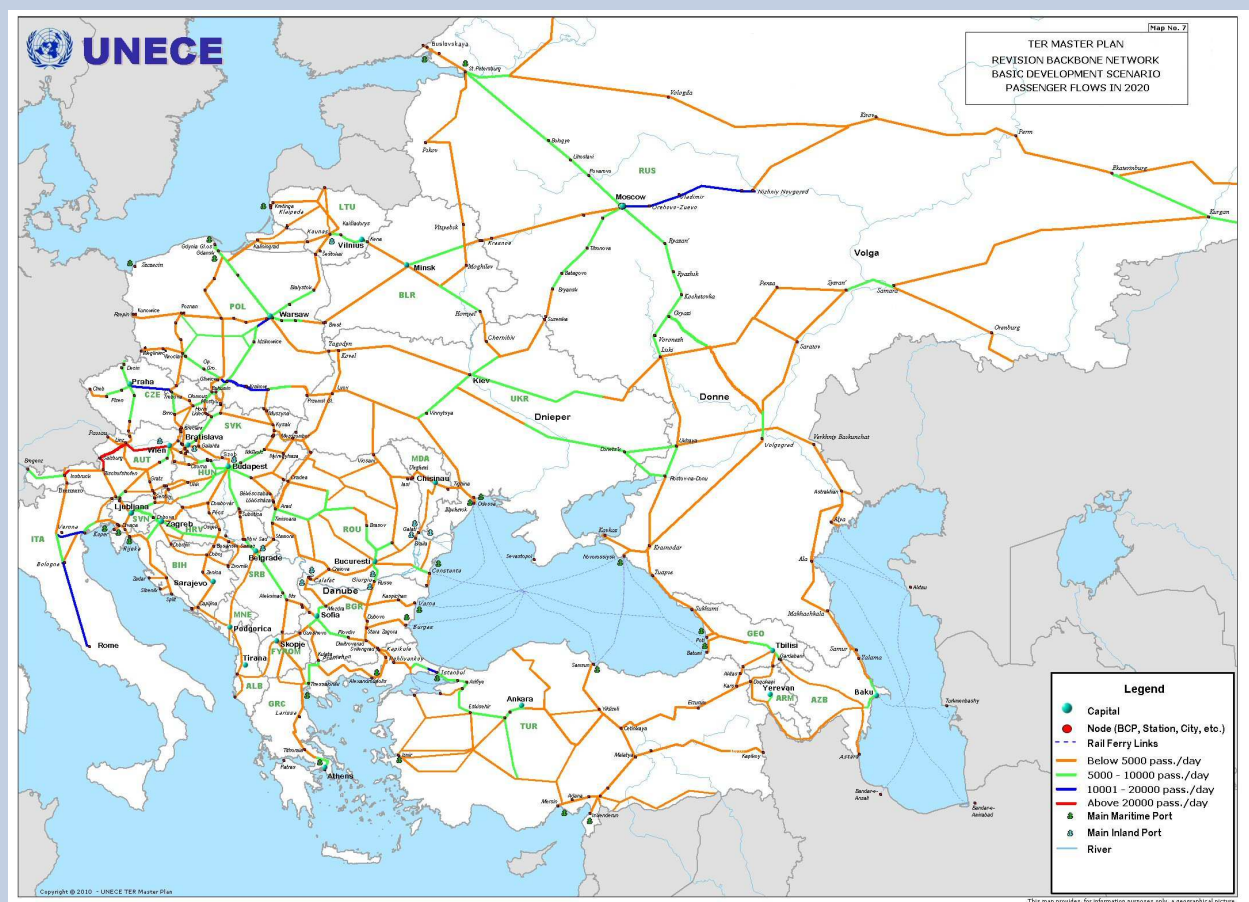
# Rail traffic development in the years 2008 and 2009



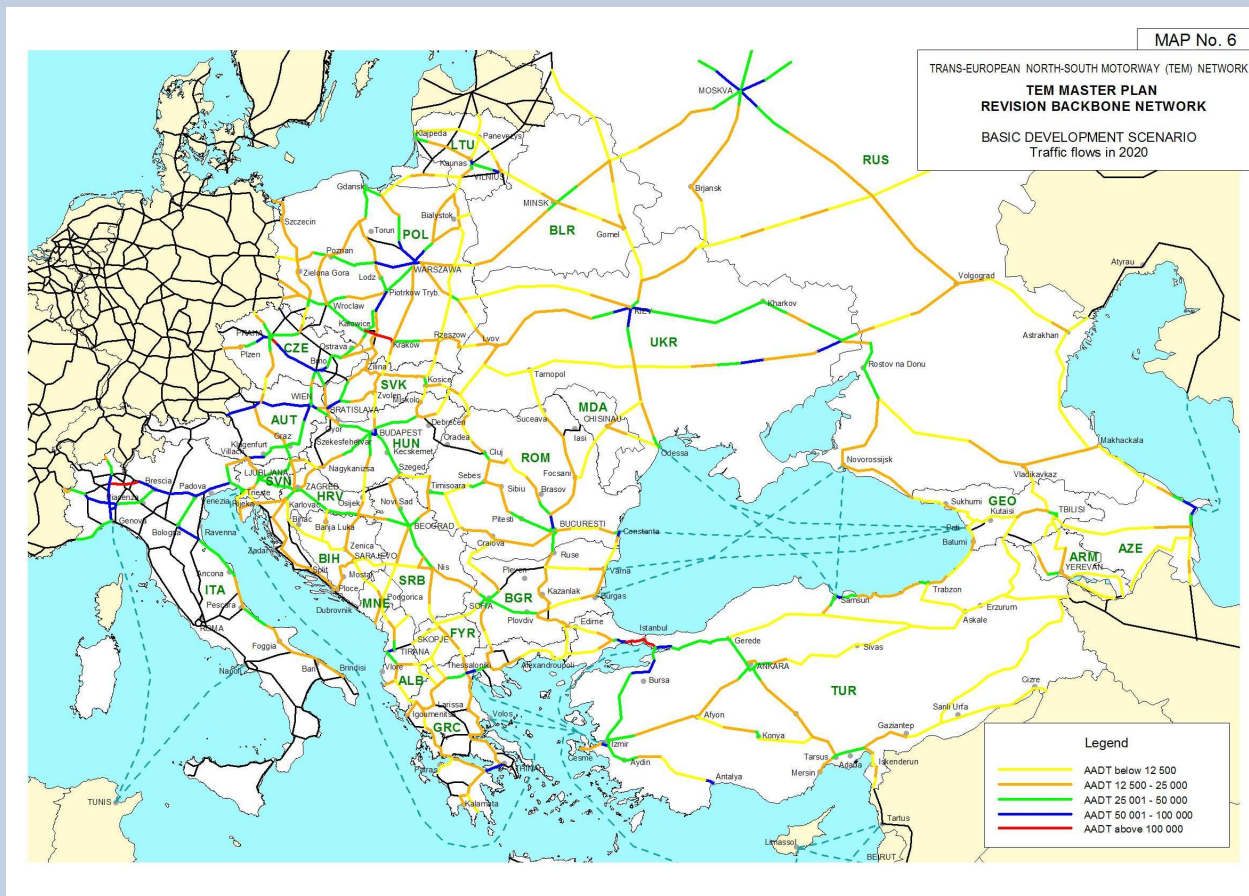
# Rail freight flows 2020



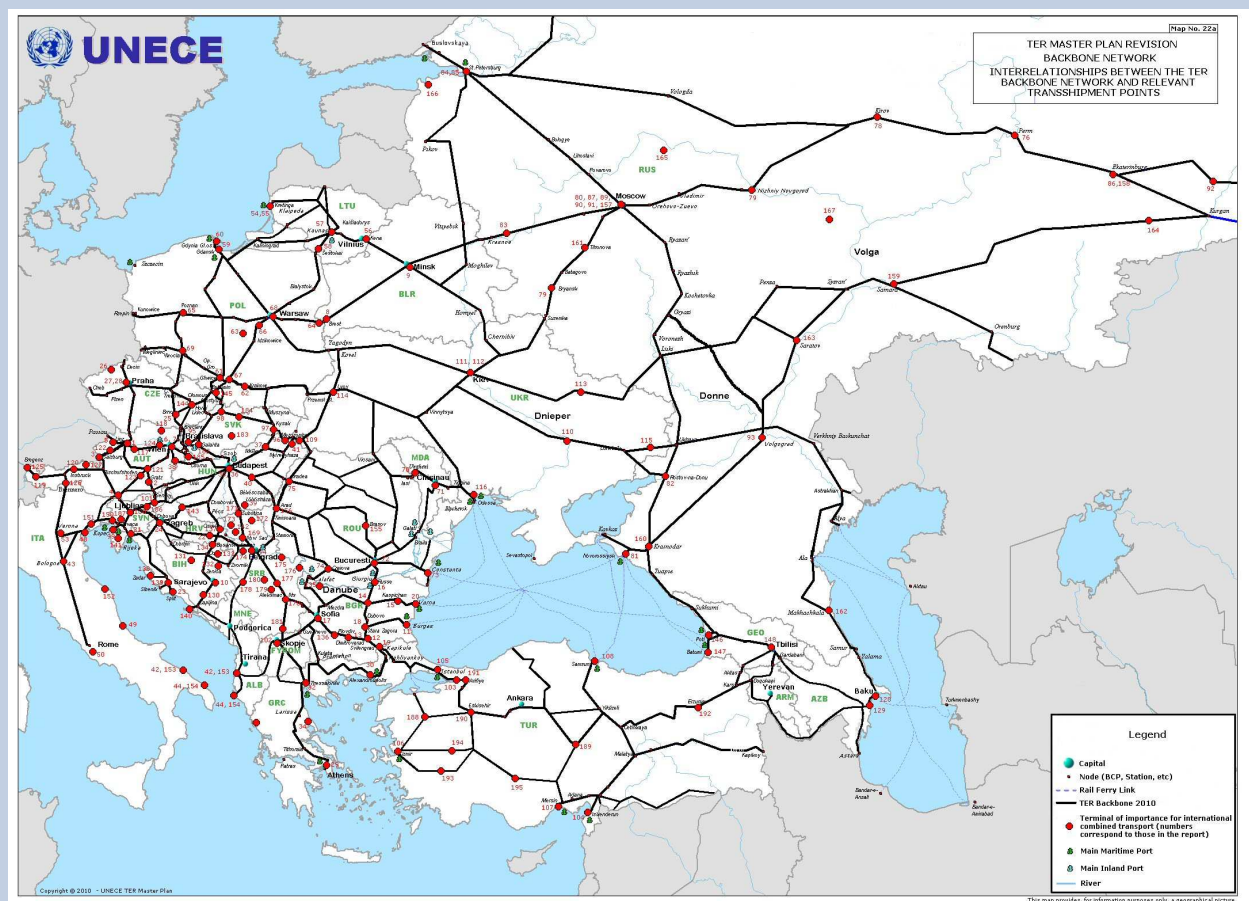
# Rail passenger flows 2020



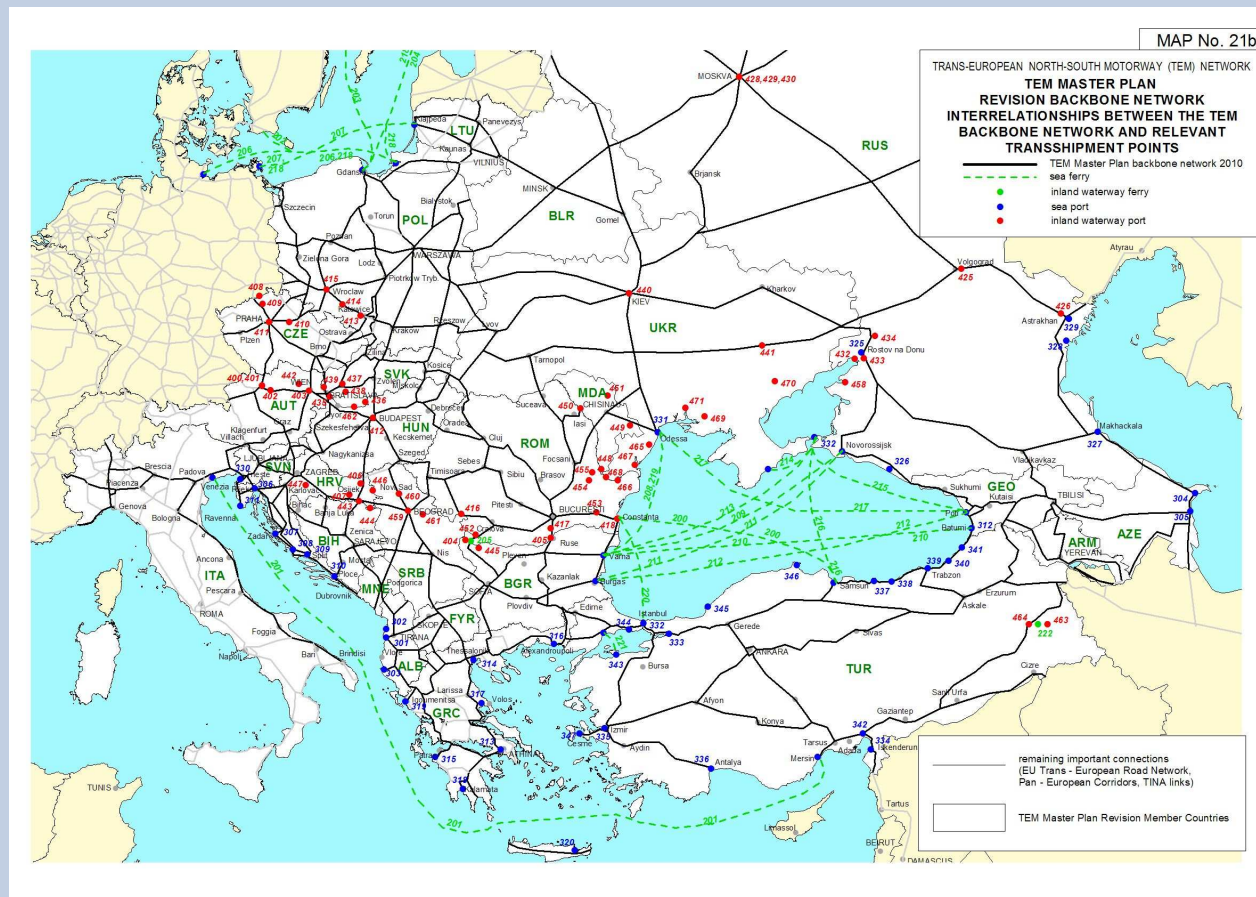
# Road traffic flows 2020



# TER backbone network vis-à-vis the terminals of importance for international combined transport



# TEM backbone network vis-à-vis the sea and inland waterway ports and ferries



**Thank you**