



# ***ECO: Rail-based intermodal transport corridors***

**TC Department, Economic Cooperation Organization**

# ESCAP Seminar on Railway Network Connectivity & Infrastructure Challenges

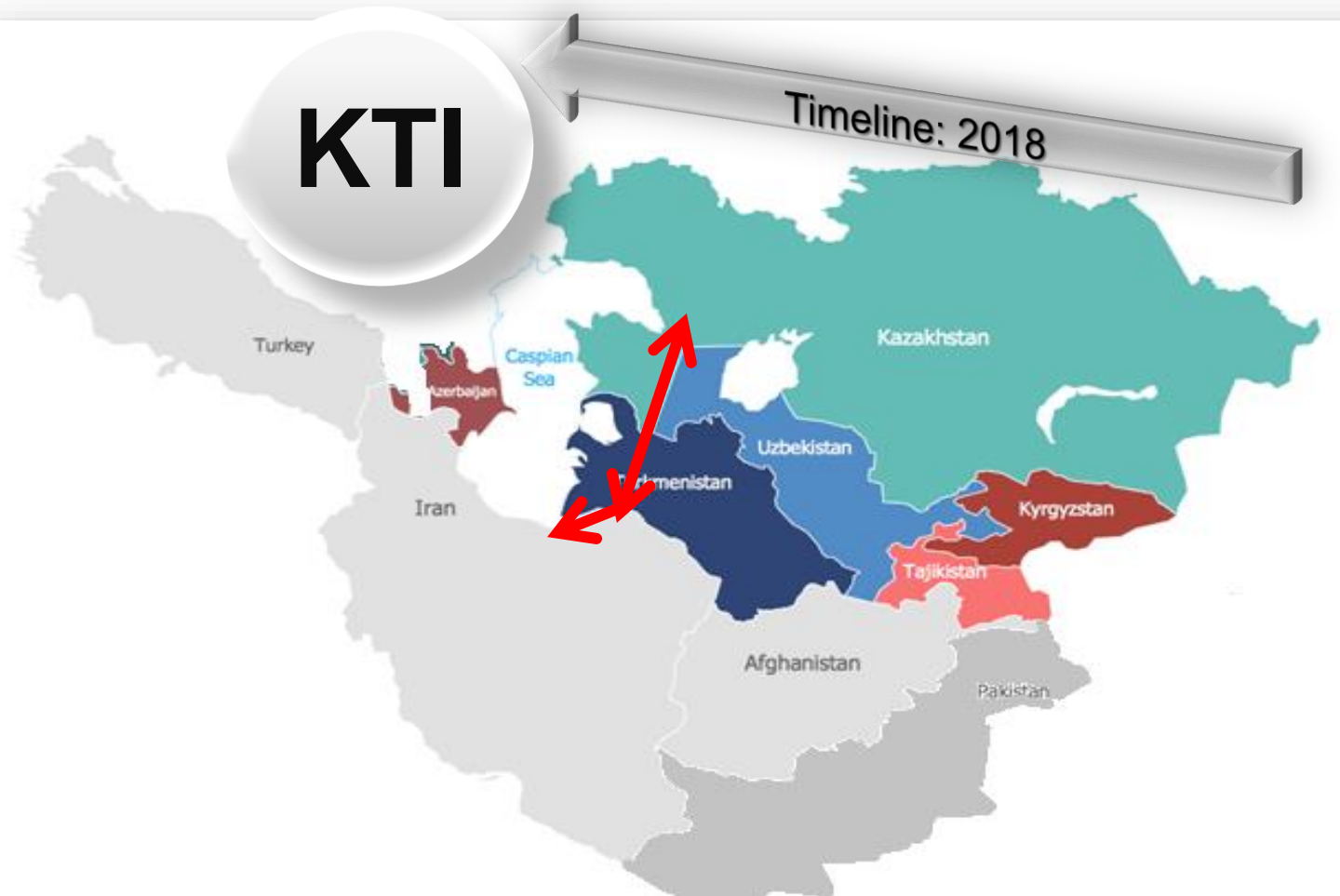
## Contents:

- ❖ Connectivity
- ❖ Institutional Mechanism
- ❖ Challenges: Infrastructure/Connectivity
- ❖ Regional initiatives

# ECO-ESCAP Railway Connectivity:

**KTI**

Timeline: 2018



- ✓ MoU
- ✓ MoA
- ✓ KTI Project

# Institutional mechanism: ECO- ESCAP KTI Project: CMM

Replicate CMM in the region:

## ECO's Key Rail Routes

- ITI
- KTI
- Istanbul-Almaty & Almaty-Bandar Abbas
- KTAI
- Qazvin-Rasht-Astara IRN-Astara AZE



# Istanbul-Almaty & Almaty-Bandar Abbas

Istanbul-  
Almaty



Feasibility study  
2016

RPC, December  
2017

Study on  
commercialization  
2018

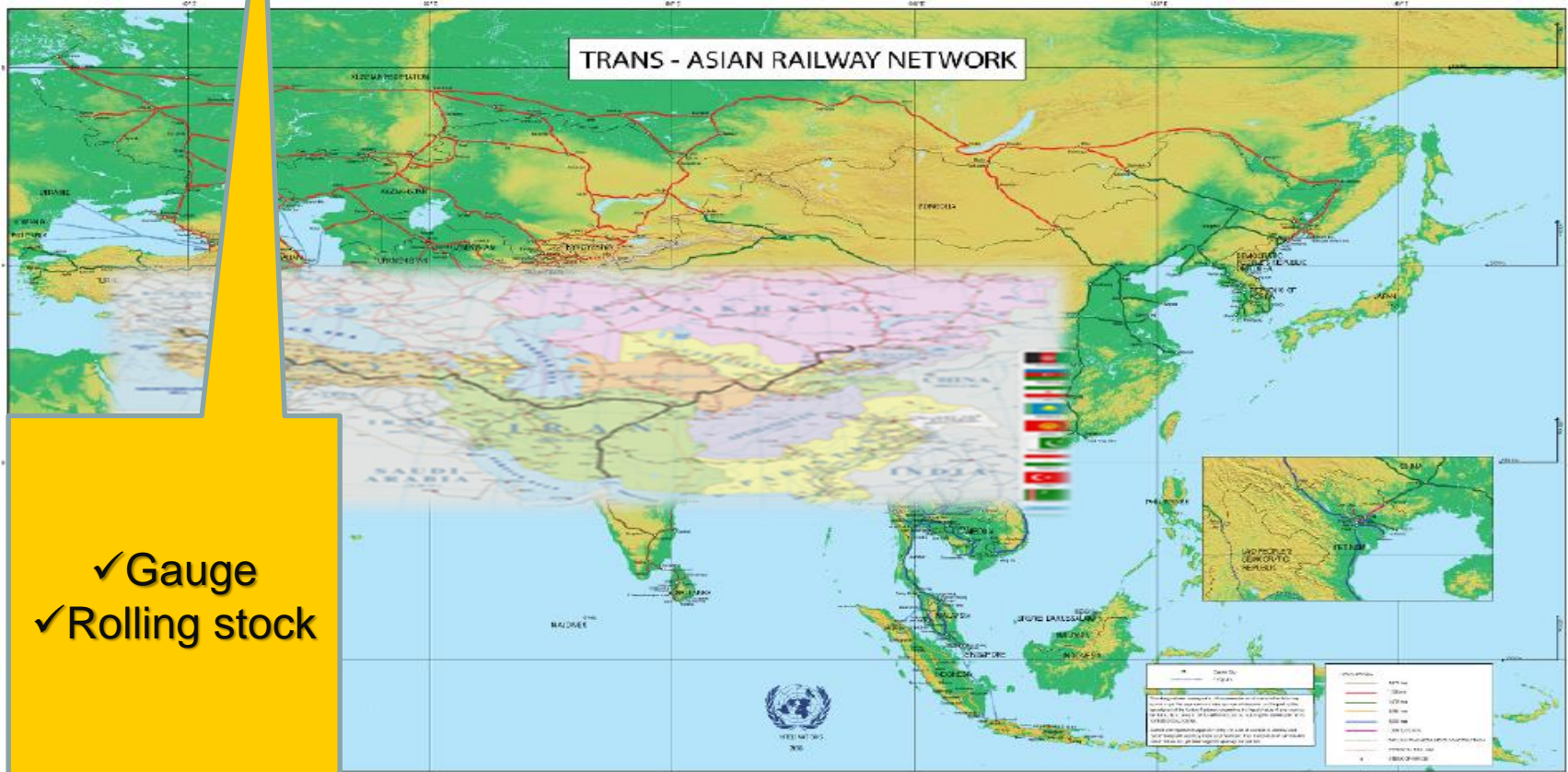
14<sup>th</sup> COM, April  
2018

Turkmenbashi  
Declaration  
(para4) 2018

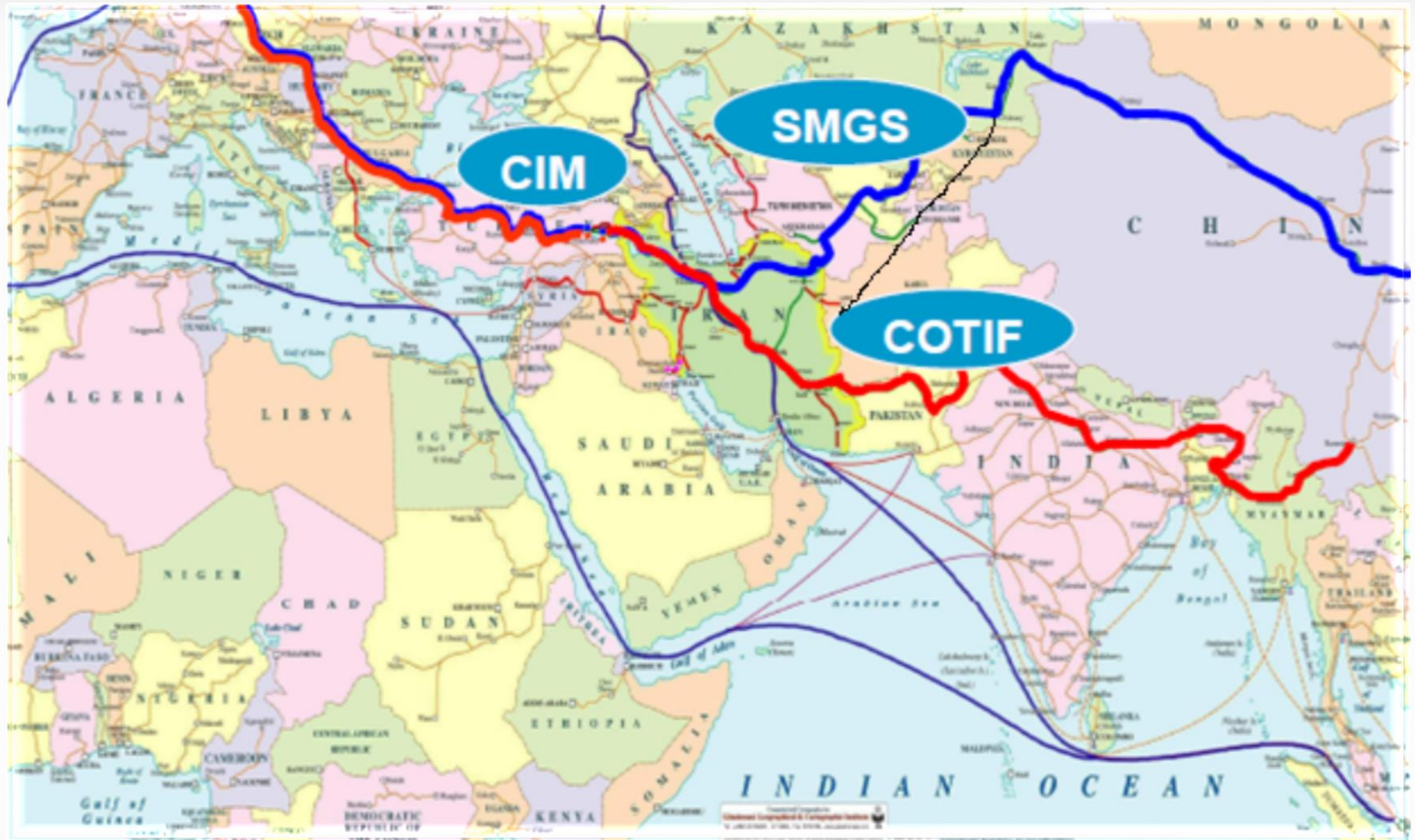
Almaty-  
Bandar  
Abbas



# Infrastructure challenges



# Harmonization of international multimodal railway standards



# Adherence to int. transport standards on intermodal railway system

<b>ECO</b>	<b>TIR</b>	<b>Kyoto Convention</b>	<b>COTIF/CIM</b>	<b>SMGS</b>	<b>CMR</b>	<b>ADR</b>
Afghanistan	*			+		
Azerbaijan	+	+	+	+	+	+
Iran	+	+	+	+	+	
Kazakhstan	+	+		+	+	+
Kyrgyzstan	+			+	+	+
Pakistan	+		+			+
Tajikistan	+	+		+	+	+
Turkey	+	+	+			+
Turkmenistan	+			+	+	
Uzbekistan	+			+	+	



# Harmonization through capacity building: Transit Transport Framework Agreement of ECO (TTFA)

UNECE, ESCAP, IDB, IRU, ICT



Capacity building:

- TTFA
- TIR
- CMR
- SMGS
- SMPS
- ADR
- AETR
- ATP

# Rehabilitation, upgradation, construction of missing links (paras 4-5, Turkmenbashi Declaration)

**ITI**

**PR**

**PPP**

**CPEC**

**TCDD**

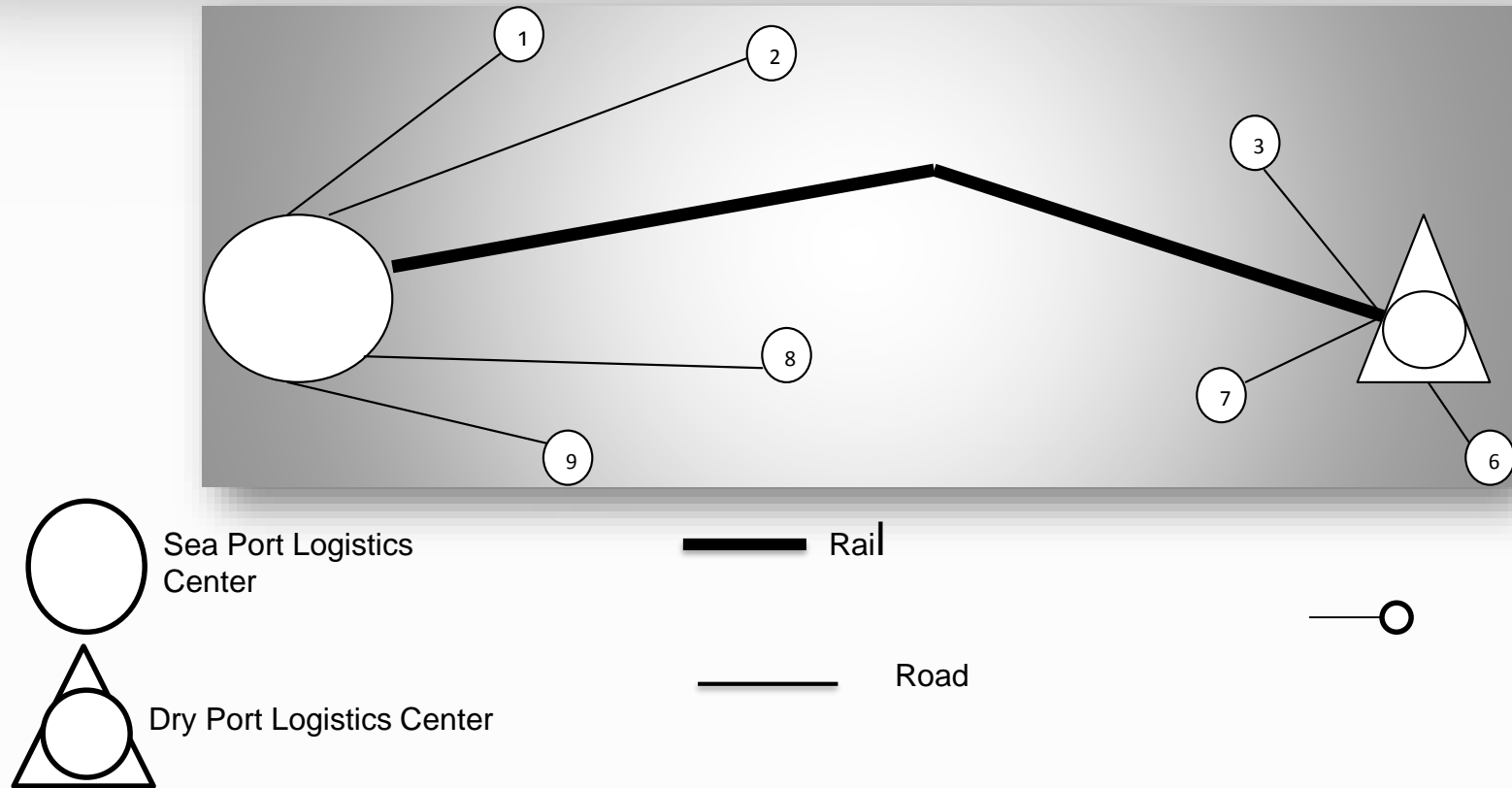


**IR**

- The freight train would carry textile, cotton, medical tools, furniture, fruits, machinery and parts, chemical products, paper, car spares and agricultural tools (acc. to 9<sup>TH</sup> HLWG Meeting). First passenger train scheduled for September 2018.

- Trade between the three countries amounted to \$1 billion in 2017.

# Regional initiative: Intermodal Connectivity: LLCs -Sea Port Infrastructure



Paras 9-11 of Turkmenbashi Declaration envisages the development of effective inter-linkages amongst ECO's logistics centers to liaise the Dry Ports with the Sea Ports

# Potential of ECO's Sea Ports

**Table 1. Turkey's share in world maritime profile, 2016**

	% of world total	DWT/TEU/GT/km
<b>Coastline(km)</b>	<b>0.5</b>	
<b>National flagged fleet (DWT)</b>	0.47	8658
<b>Fleet ownership (DWT)</b>	1.56	27951
<b>Container port throughput (TEU)</b>	1.25	8457612
<b>Ship building GT</b>	0.16	105645
<b>Ship scrapping (GT)</b>	3.45	998714

Source: UNSTAD, IMO, Turkstat

**Table 2. Turkey's carrying capacity by type of ship, 2016**

(Thousands DWT)	2005	2010	2015	2016
<b>Total fleet</b>	7 048.0	7 878.0	8 497.8	8 568.2
<b>Oil tankers</b>	959	1 693.6	1 291.8	1 308.4
<b>Bulk carriers</b>	4 087.0	3 357.7	4 235.3	4 043.9
<b>General cargo</b>	1 565.0	2 011.5	1 598.8	1 618.2
<b>Container ships</b>	290	572.9	749.1	982.5
<b>Other types of ships</b>	147	242.3	622.9	615.2

\*Increase of Turkey's fleet was by 8% in 2016. Source: UNSTAD, IMO, Turkstat

# Continued

Table 3. Iran's carrying capacity by type of ship, 2016

(Thousands DWT)	2005	2010	2015	2016
<b>Total fleet</b>	9 114.0	1 333.3	4 548.2	4 877.3
<b>Oil tankers</b>	6 134.0	120.3	403.1	812.4
<b>Bulk carriers</b>	1 703.0	453.4	2 174.0	2 087.1
<b>General cargo</b>	731	297.7	700.3	704.1
<b>Container ships</b>	420	252.4	1 128.0	1 128.0
<b>Other types of ships</b>	126	209.5	142.8	145.8

\*Iran's fleet growth increased by 7.2% in 2016. *Source: UNSTAD, IMO*

Table 4. Iran's share in world maritime profile, 2016

	%	DWT/TEU/GT/km
Coastline(km)	0.36	
National flagged fleet (DWT)	0.27	4877
Fleet ownership (DWT)	1.00	17 838
Container port throughput (TEU)	0.35	2731000
Ship building GT	...	
Ship scrapping (GT)	...	

*Source: UNSTAD, IMO*



# Continued

Table 5. Pakistan's carrying capacity by type of ship, 2005-2016

(Thousands DWT)	2005	2010	2015	2016
<b>Total fleet</b>	472	481.1	709.7	709.7
<b>Oil tankers</b>	274	281.7	427.7	427.7
<b>Bulk carriers</b>	..	65.7	255.2	255.2
<b>General cargo</b>	184	107.5	..	..
<b>Container ships</b>	..	..	..	..
<b>Other types of ships</b>	14	26.3	26.8	26.8

\*Pakistan's fleet growth increased by 0.0% in 2016 *Source: UNCTAD, IMO, UN Data*

# Potential of ECO's Dry Ports

Main dry ports in ECO			
Afghanistan		Pakistan	
1	Torkham	1	Lahore Dry Port
2	Shir-Khan	2	Lahore NLC Dry Port
3	Keyrabad	3	Multan Dry Port
<b>Azerbaijan</b>		4	Rawalpindi Dry Port
1	Alyat	5	Sialkot Dry Port
<b>Iran</b>		6	Larkana Dry Port
1	Motakhari Dry Port	7	Quetta Dry Port
2	Ahlan SEZ	8	Quetta NLC Dry Port
3	Zahedan LC	9	Hyderabad Dry Port
4	Shiraz LC	10	Gilgit Dry Port
5	Markazi LC	11	Sost Dry Port
6	Isfahan LC	12	Azakhel Dry Port
7	Kerman LC	13	Havelian Dry Port
8	Khorasan-e-Razavi	14	Peshawar Dry Port
9	Aprin Dry Port	15	Faisalabad Dry Port
<b>Kazakhstan</b>		16	Jamrud Dry Port
1	Khorgos	17	Karachi Dry Port
2	Pavlodar	18	Karachi NLC Dry Port
3	Semey	19	Muzaffarabad Dry Port
4	Oskemen	<b>Tajikistan</b>	
<b>Kyrgyzstan</b>		1	Nijnii Panj
<b>Uzbekistan</b>		2	Tursunzade
1	Angren	3	Dushanbe
2	Navoi		
3	Termez		



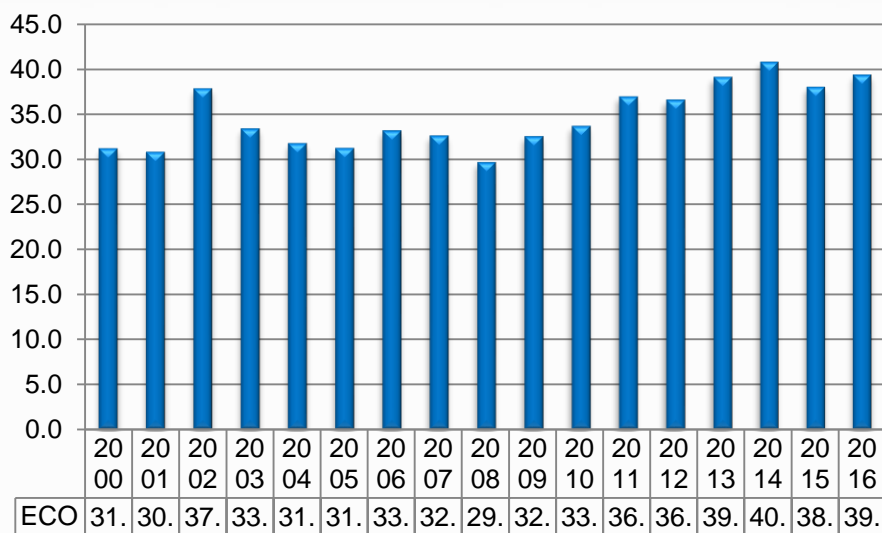
# ECO platform for regional initiatives

## The 2011-2018 decisions on regional transport

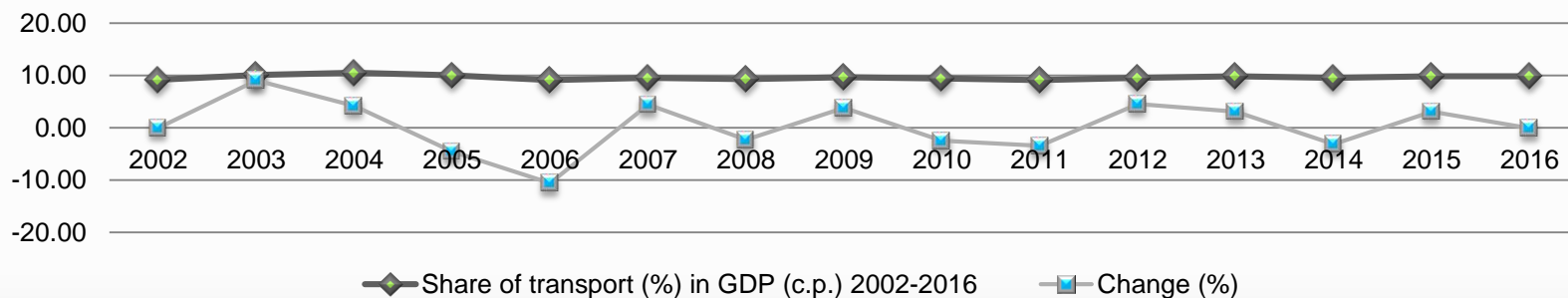
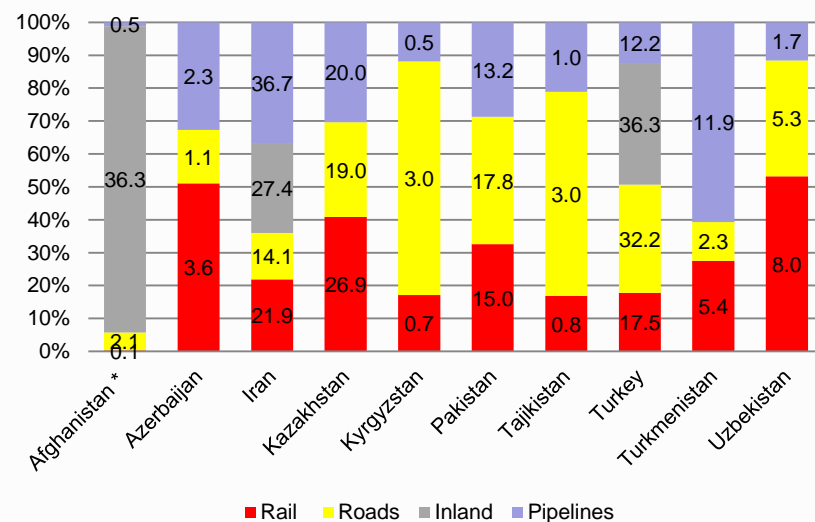


# Sustainable transport performance

Transport services share in ECO's exports (%) 2000-2016



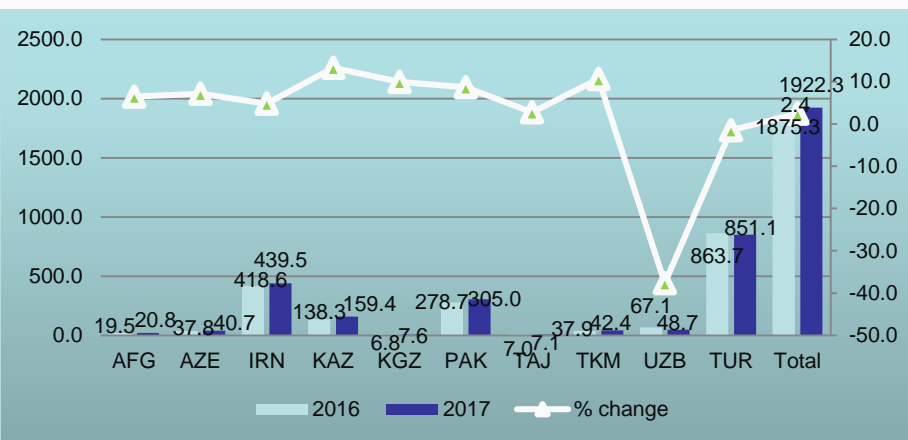
Transport modes (% by km) in ECO countries, 2017



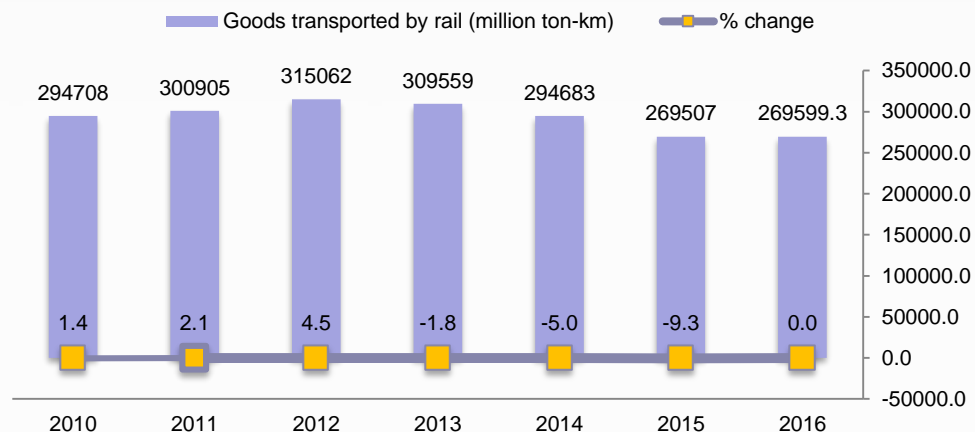


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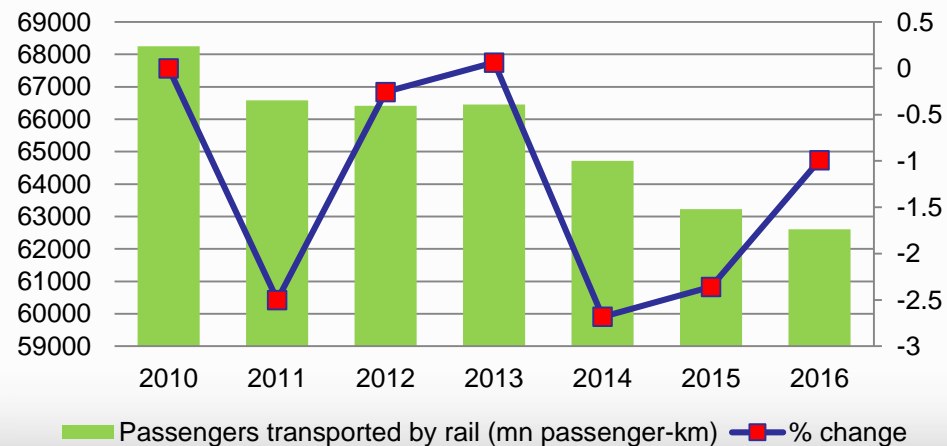
Growth in ECO countries' GDPs (US\$ bn at c.p. and % change) 2017



Goods transported by rail in ECO, mn ton-km, 2010-2016



Passengers transported by rail in ECO (mn passenger-km), % change, 2010-2016



Intra-ECO Trade

All values US \$ Billion

Year	Imports	Exports	Total Trade	Trade Balance	% Change in Trade
2013	35.67	39.31	74.98	3.64	
2014	35.05	38.71	73.76	3.66	-1.63
2015	27.99	29.7	57.69	1.71	-21.79
2016	25.34	28.86	54.2	3.52	-6.05
2017	26.68	26.57	53.25	-0.11	-1.75



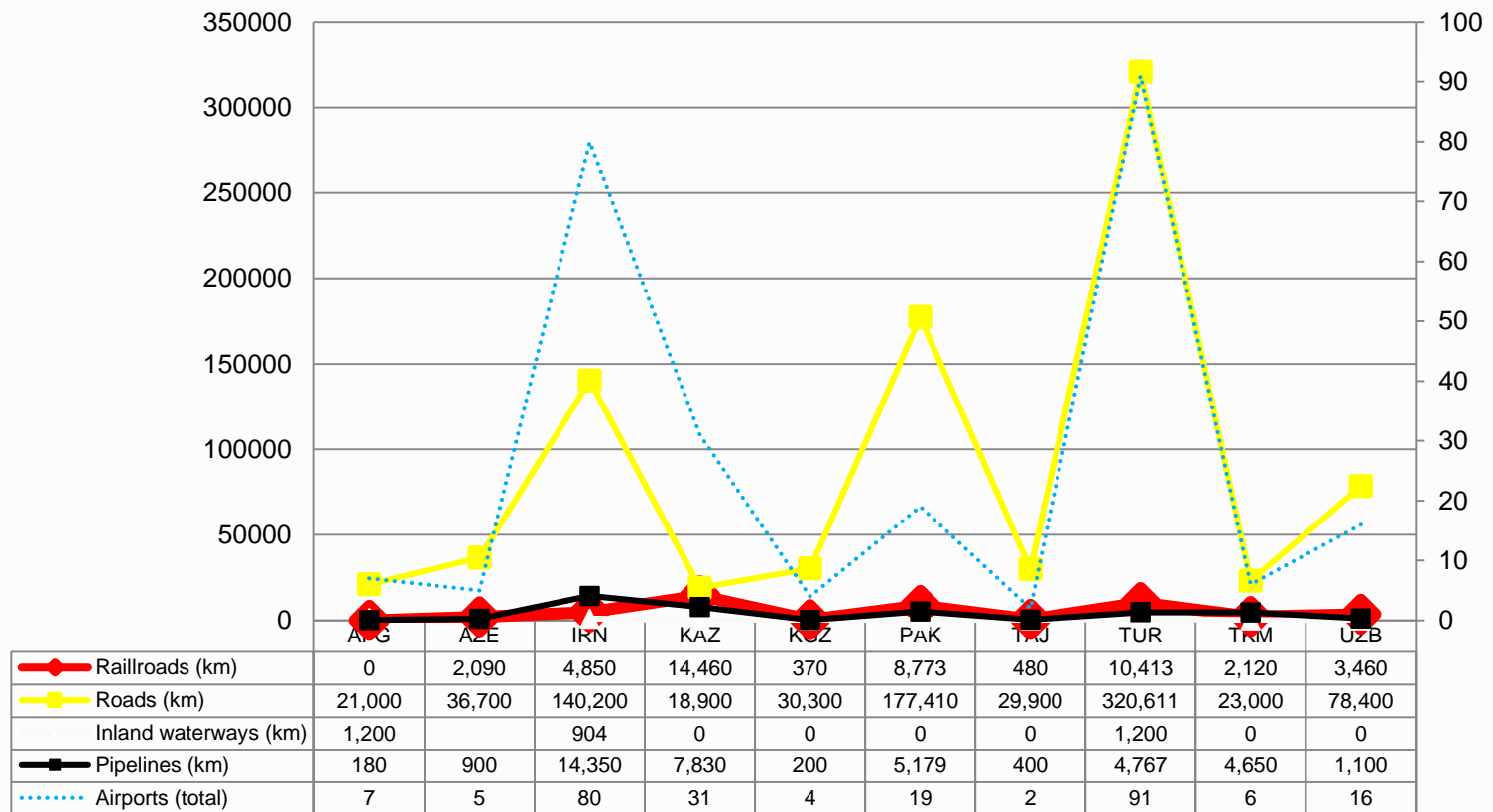
# Rail freight transportation (2011-2017)

## Volumes transported by regularized freight container trains from/to PRC incl. through ECO (2011-2017)

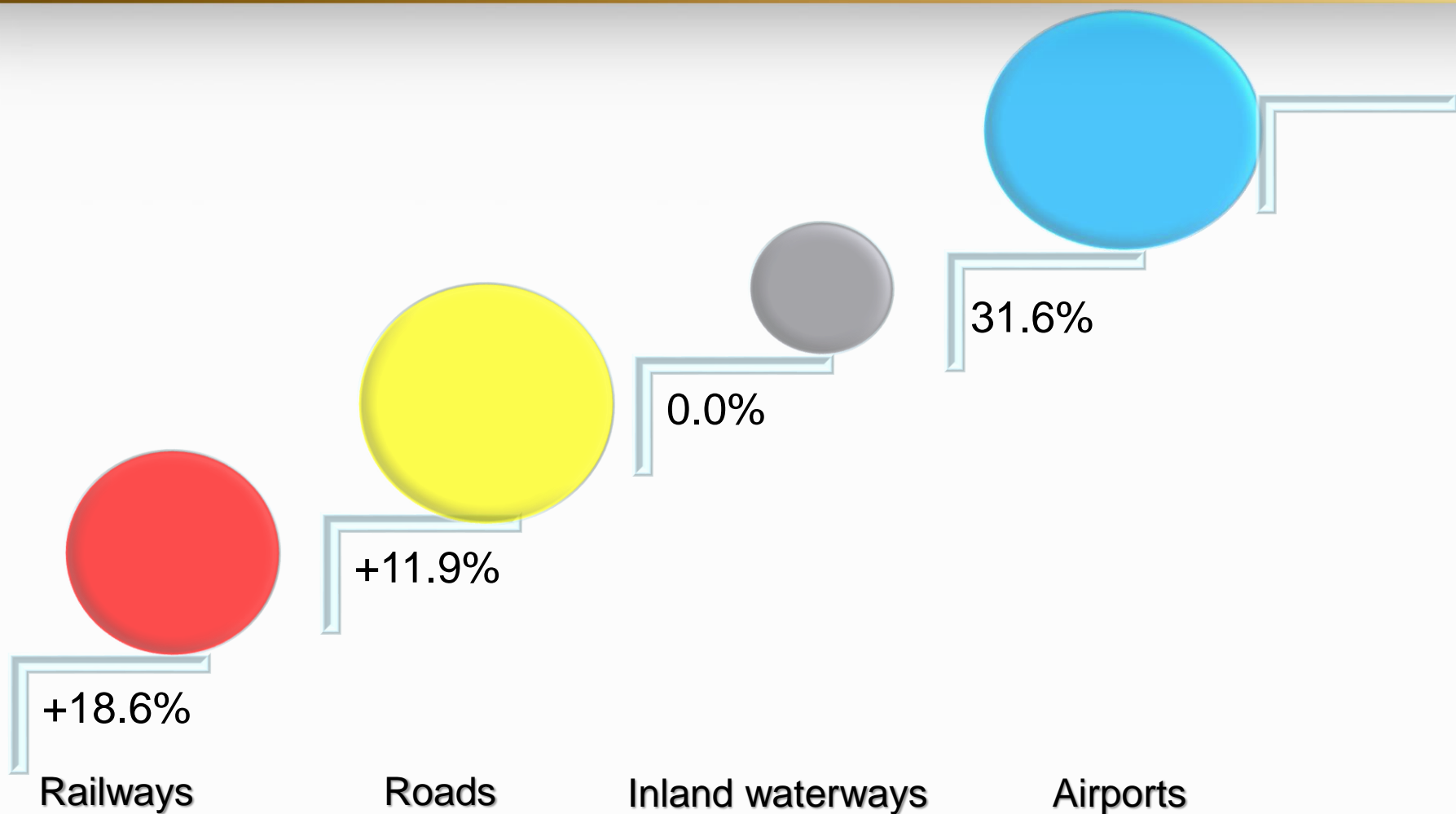
Regular trains by container type/container load/traffic volumes	2011		2012		2013		2014		2015		2016		2017	
	from	to	from	to	from	to	from	to	from	to	from	to	from	to
Freight container trains (units)	17.00	0.00	42.00	0.00	80.00	0.00	280.00	28.00	550.00	265.00	1130.00	572.00	2399.00	100.00
Freight container traffic (FEU)	702.00	0.00	1837.00	0.00	3480.00	0.00	11902.00	1133.00	23566.00	10885.00	48700.00	4197.00	106000.00	52965.00
Train load (FEU, ave)	41.00		44.00	0.00	44.00	0.00	43.00	40.00	43.00	41.00	43.00	28.00	44.00	42.00

# Regional network potential

2010 Length of railway, road, inland waterways, pipelines (km) and airports (units)



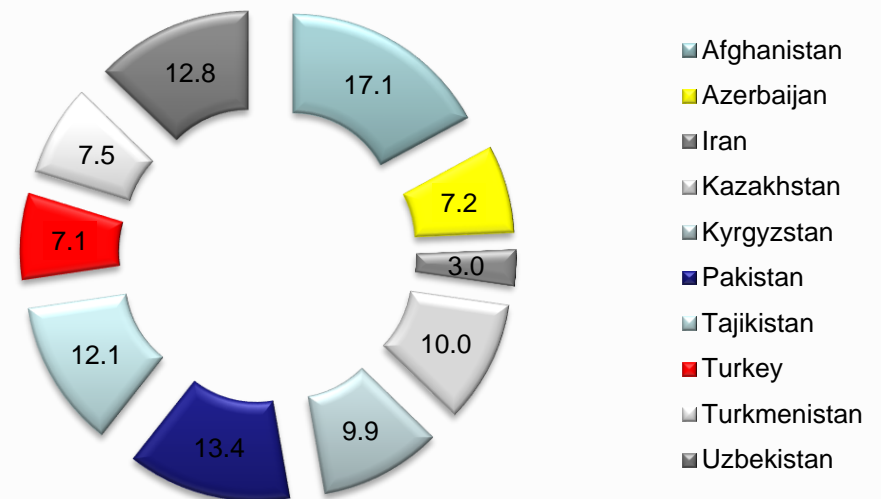
# 2010/2017 Increase/Decrease in railways, roads, inland waterways (km) and airports (units)



# ECO Railway Network, 2017

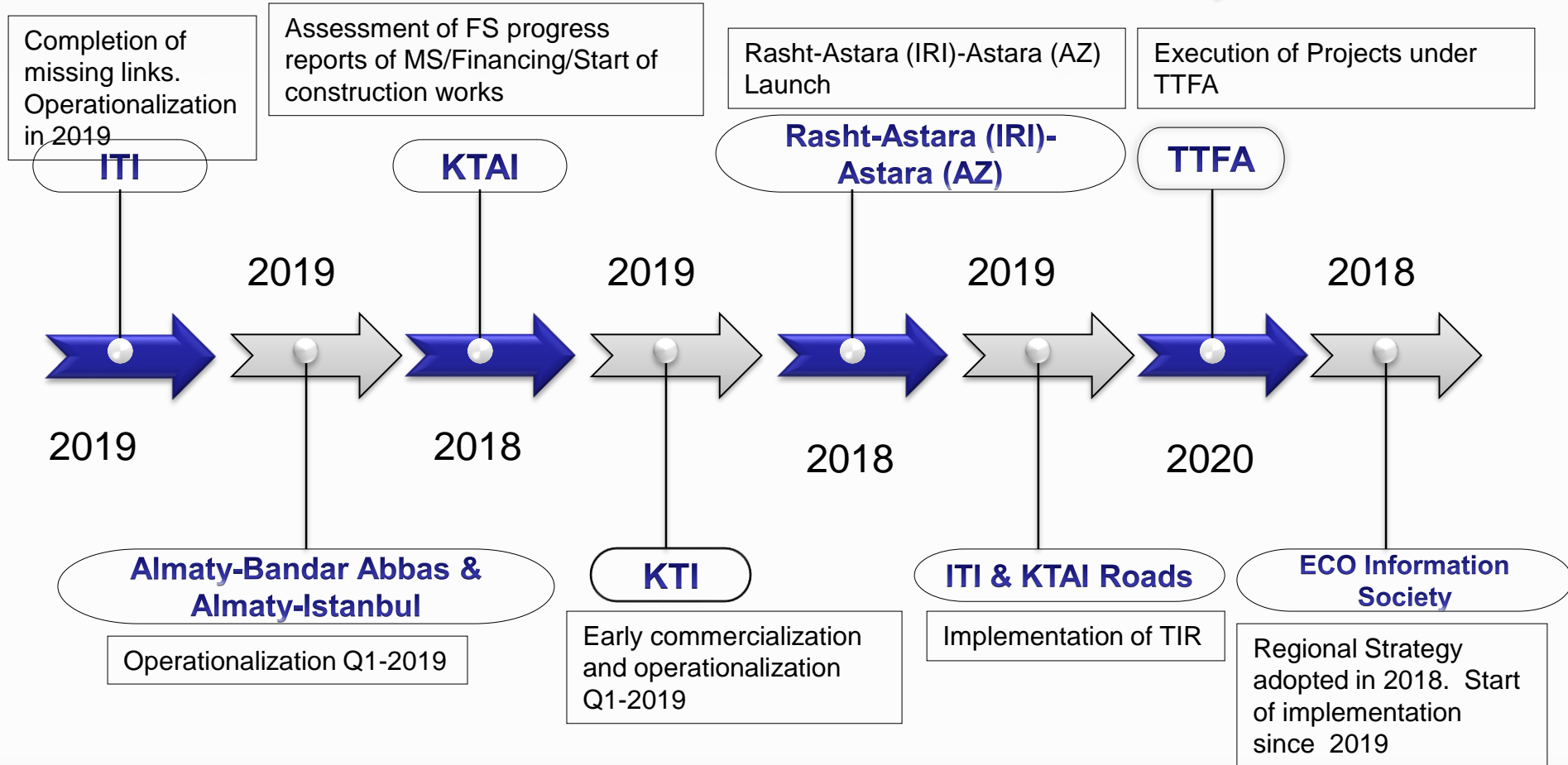


By country share of transport (%) 2017



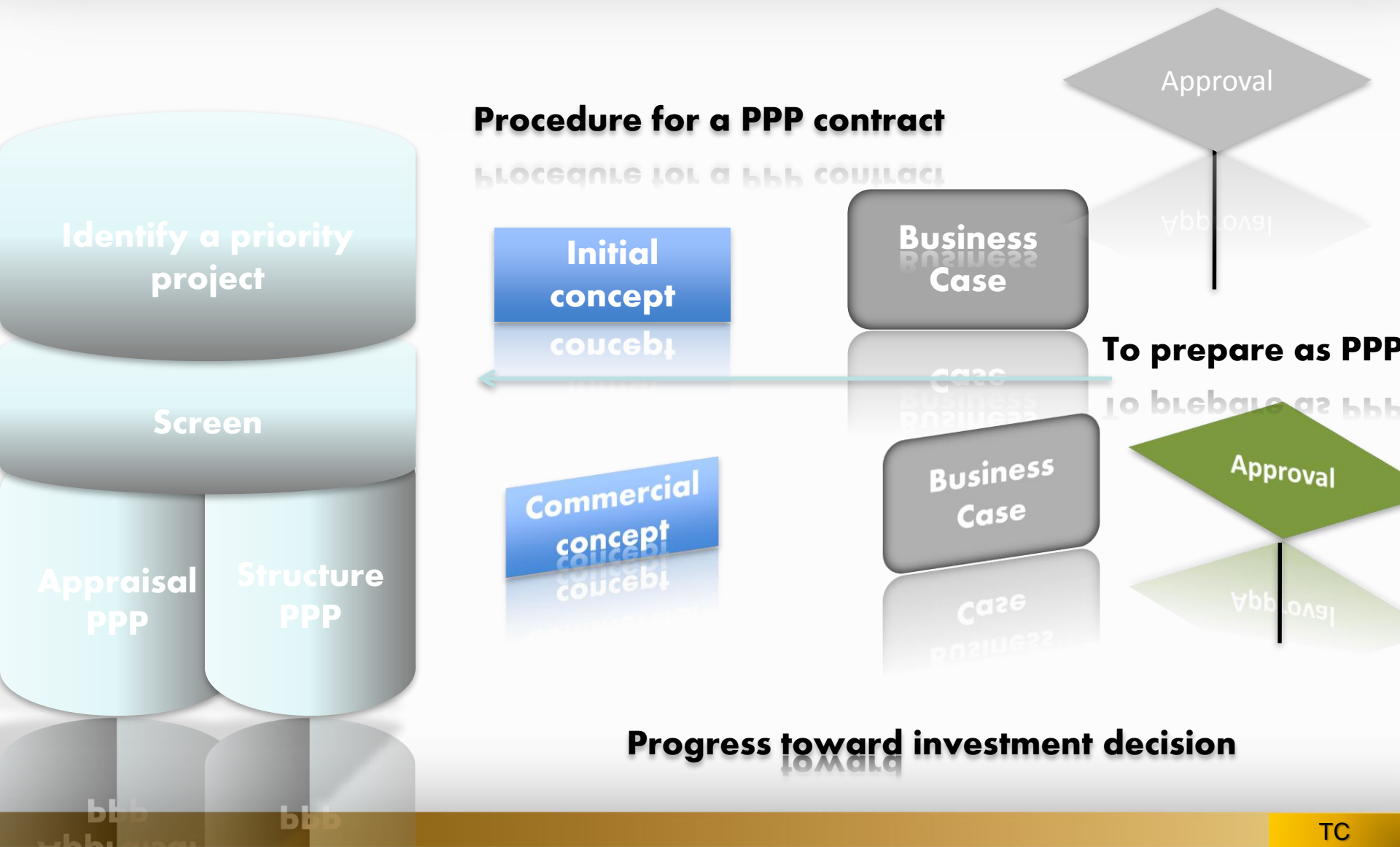
# ECO Railway Projects

**Project efficiency (Est. value of project funds for rail: US\$21bn of which US\$10bn secured and for roads US\$43bn of which US\$ 16.3bn secured)**

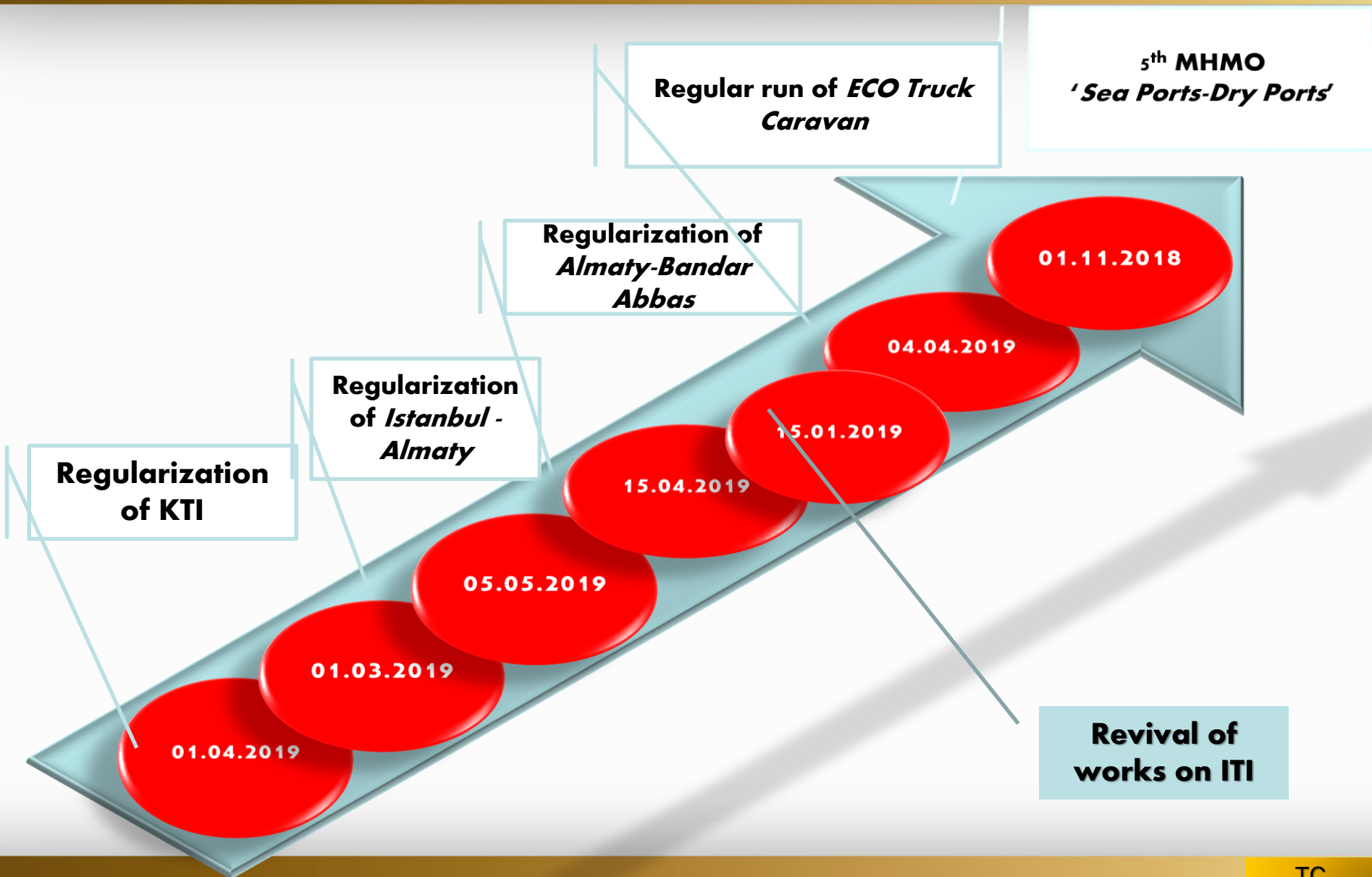




# Our structured operations



# Targets on connectivity



# 2018 Connectivity & infrastructure milestones



**Tabriz-Van** passenger train resumed its regular runs on 18 May 2018

**Urumchi– Aktau -Anzali** container train launched on 26 June 2018



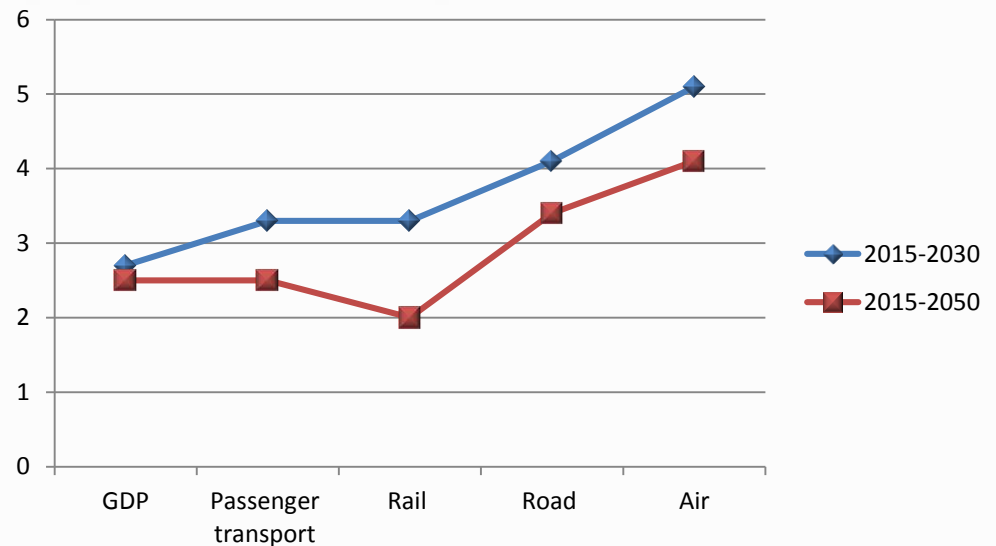
**1<sup>st</sup> Rail stock repair center** for Central Asia, Astana

**Serial locomotives production** in Kazakhstan

# Towards ECO Vision-2025

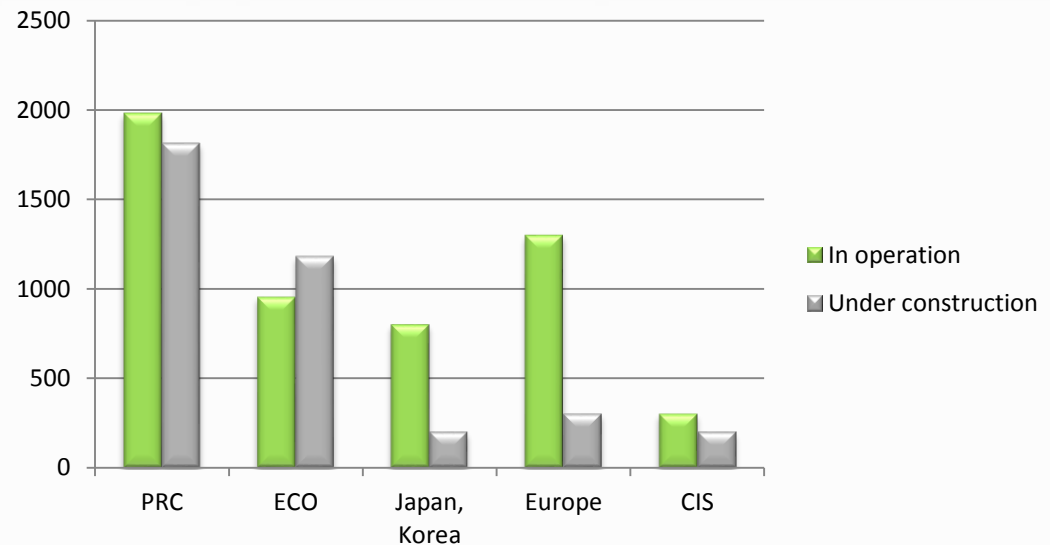
Growth in global transport demand  
in 2015-2030:

- Rail at the 3.3 rate%
- Road 4.1%
- Air 5.1%



# Rail

Railway efficiency is a gateway to sustainable regional transport

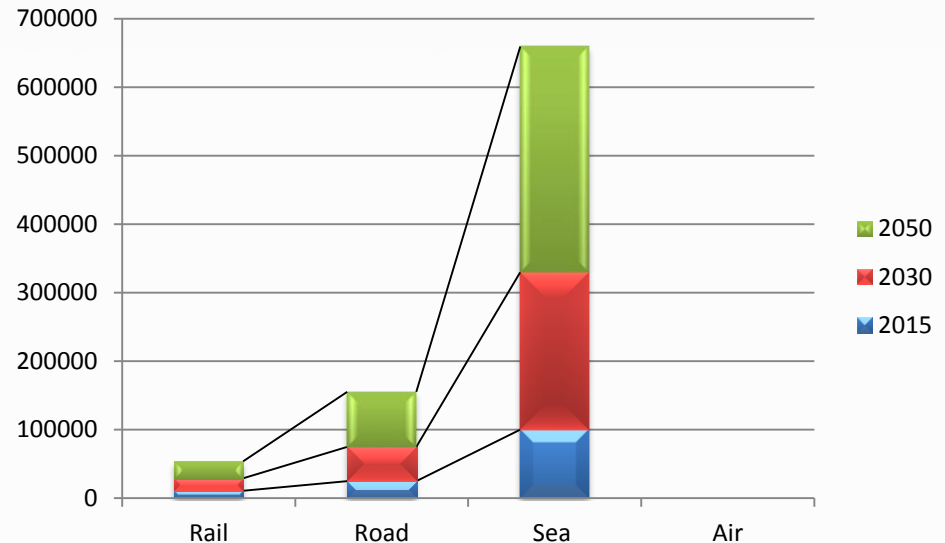


955km of HSR is in operation in ECO  
1,180km of HSR is currently under construction.



# Road

- Global freight transport demand forecasts to grow at 3.3% rate by 2030.
- Maritime freight to grow from 71% in 2015 to 75% of total by 2050.
- Air freight at 5% rate per annum, faster than other modes.



# Intermodal linkages by rail and maritime

ational  
tion on  
n Sea.  
ust 2018

- Seven of the ECO ten Member States are LCCs.
- Overall maritime demand in freight accounts to over 71% of transport.
- ECO is revitalizing its maritime cooperation.
- 9<sup>th</sup> Meeting of Ministers of Transport of ECO Member States on 1&3 May 2018 in Turkmenbashi.
- 5<sup>th</sup> Summit of Caspian States adopted milestone decisions on 12 August 2018 in Aktau.
- Summit of Founder States of IFAS approved an implementation plan on 24 August 2018 in Turkmenbashi.

Almaty  
Plan o  
Action

Vienna  
Program

Resolution  
2/L.42. 14  
April 2018

Internat  
Agreem  
Dry P

# Thank you.

You may wish to contact at:  
TC@eco.int