**Working Party on Transport Trends and Economics** 

Twenty-fourth session

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EATL PHASE II Project Prioritization Exercise

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## Content

- Scope of prioritization exercise.
- Input received.
- Methodology-Project Classification.
- Prioritization results per country.
- Summary Results.
- Proposed steps for prioritization exercise completion.
- - Results presented are those presented and discussed at the <u>6<sup>th</sup> Session of Group of</u> <u>Experts on Euro-Asian Transport Links (July</u> 2011, Almaty, Kazakhstan).
  - Subject to revision based on countries' new input.
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# Scope

- The goal is to present a consistent and realistic short, medium and long term investment strategy for the identified EATL Phase II Routes.
  - Review and update of projects identified under EATL Phase I.
  - Analysis of information on new projects based on country inputs.
  - Prioritize projects through the application of the proposed methodology.
  - Elaborate the new investment plan of EATL Phase II.

## **Input Received**

- Out of the 27 countries participating in this project:
  - Countries that submitted data:

Afghanistan, Armenia, Azerbaijan, Bulgaria, China, Georgia, Germany, Greece, Latvia, Lithuania, Kazakhstan, Kyrgyzstan, Mongolia, Pakistan, Republic of Moldova, Romania, Russian Federation, Tajikistan, the former Yugoslav Republic of Macedonia, Turkey, Ukraine, Uzbekistan

Countries that have not submit data to date: Belarus, Iran, Finland, Luxemburg, Turkmenistan

## Project Infrastructure Category

- By type of infrastructure:
- Road projects (ROD)
- Railway project (RLW)
- Maritime projects (MAR)
- Inland waterway projects (INL)
- Inland/border crossing and other projects (INM)

# **Project Priority Category**

#### Category I

projects, which have funding secured and are on-going and expected to be completed in the near future (**up to 2013**).

#### Category II

projects, which may be funded or their plans are approved and are expected to be implemented rapidly (up to 2016).

#### Category III

projects requiring some additional investigation for final definition before likely financing and implemented (up to 2020).

#### Category IV

 projects requiring further investigation for final definition and scheduling before possible financing, including projects, for which insufficient data existed. (most likely to be implemented after 2020)

#### Completed projects

- Reserve category
  - Projects along other important routes and of national importance that may be included in the EATL routes in the future

# **Key Assumptions**

- Methodology application based on the updated data received by each country involved.
- Application of the methodology was <u>not feasible</u> in all cases due <u>to limited data availability</u>.
- Where no updated data was received, the consultant attempted to:
  - collect the missing information from other sources
  - carry out the analysis based on a number of assumptions that are explicitly stated and justified.
- Project costs are depicted in Billion United States Dollars.

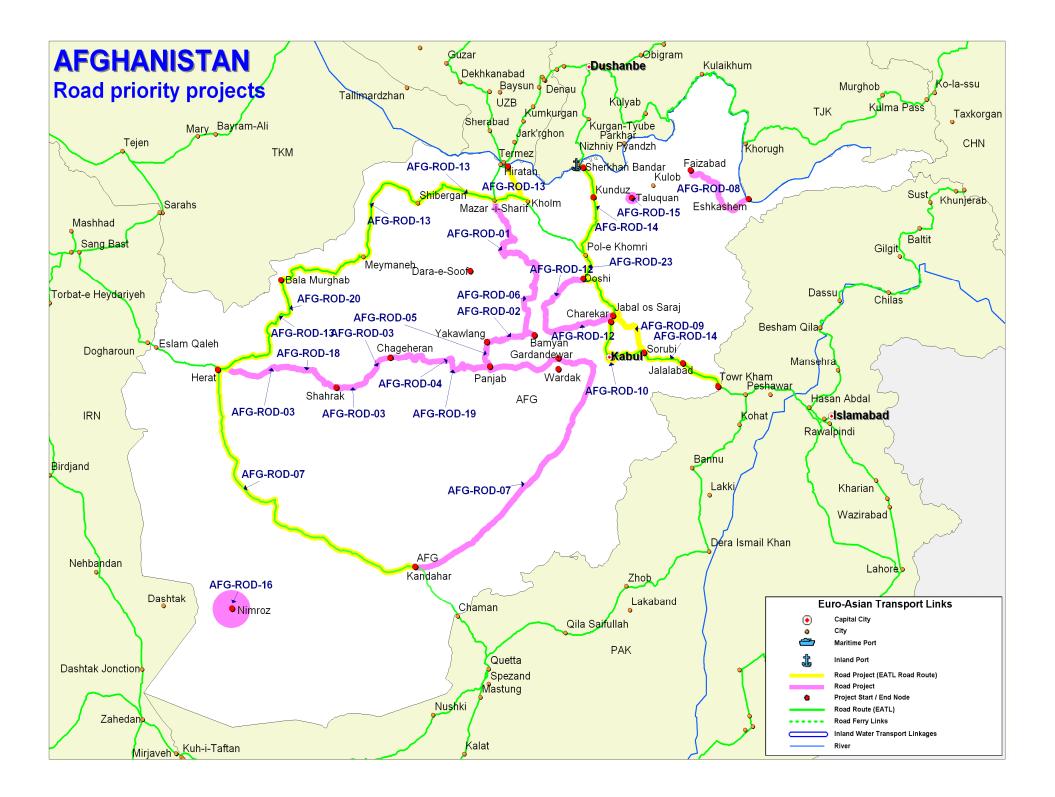
## **Total Number of Projects**

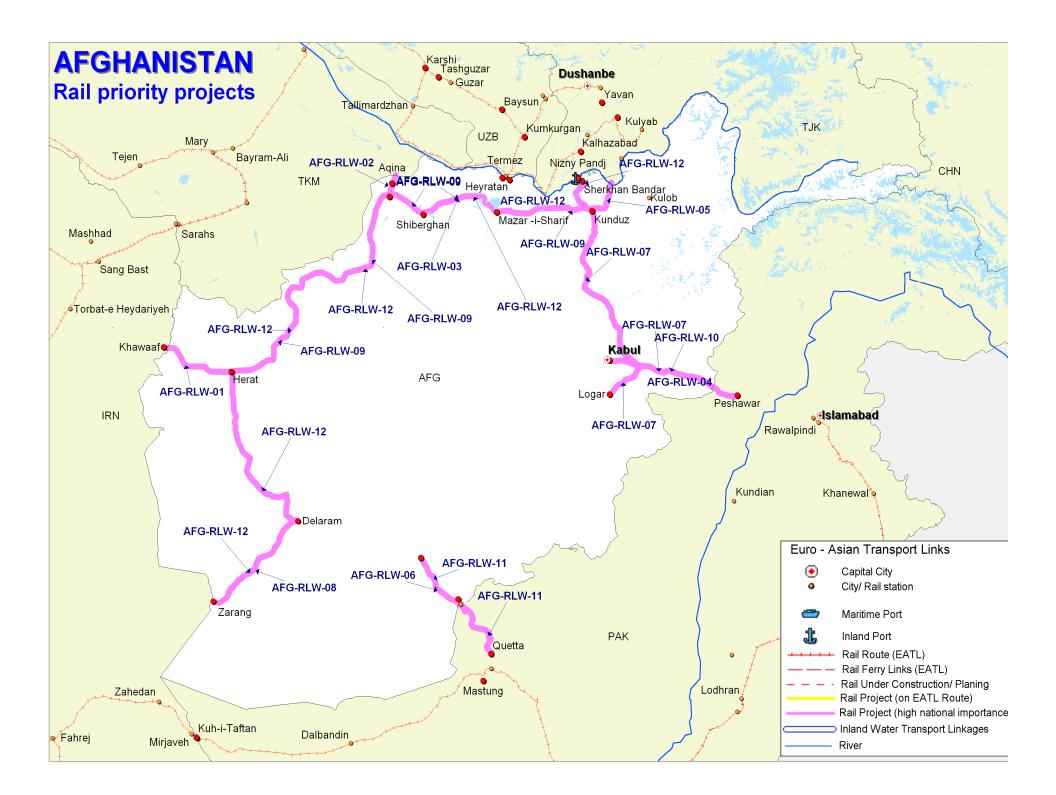
- In total 404 projects were proposed by the participating countriesof total cost amounting to approximately \$246 billion:
  - 287 projects have been identified to be along the approved and proposed EATL Phase II Routes
  - 117 projects are of national importance (Reserve Category).

# **Analysis on a Country Basis**

# Afghanistan

- 35 Projects of total cost \$3,02 billion
  - 6 along approved and proposed EATL Routes of total cost
     \$0,288 billion
  - 29 of national importance of total cost \$2,792billion
- 6 EATL Routes Projects
- Road Projects
  - 1 has committed funding-Category I
  - 5 classified as Category IV due to lack of information on funding
- 1% of the funding has been secured.





## Armenia

- 13 Projects of total cost \$2,788 billion
  - 10 along approved and proposed EATL Routes of total cost
     \$2,412 billion
  - 3 of national importance of total cost \$0,377 billion
- <u>10 EATL Routes Projects</u>
  - 5 Road Projects (\$0,517 billion):
    - Committed funding-Category I
  - 3 Rail Projects (\$1,895 billion) :
    - Category IV (at launch of tender but financing not secured yet)
  - 2 Other Projects (no cost estimate provided):
    - Category II (Transport Strategy 2009-2019 to be completed in 2015)
- 21% of the funding has been secured.





## Azerbaijan

### <u>6 EATL Routes Projects</u> of total cost \$1,788billion

- 4 Road Projects (\$0,938 billion)
- 1 Rail Project (\$0,45 billion)
- 1 Port Project (\$0,4 billion)
- All have committed funding-Category I

100% of the funding has been secured.





# Bulgaria

- 23 Projects of total cost \$8,097billion
  - 11 along approved and proposed EATL Routes of total cost \$7,697billion
  - 12 of national importance of total cost \$0,4 billion

#### <u>11 EATL Routes Projects</u>

#### 3 Road Projects (\$0,655 billion)

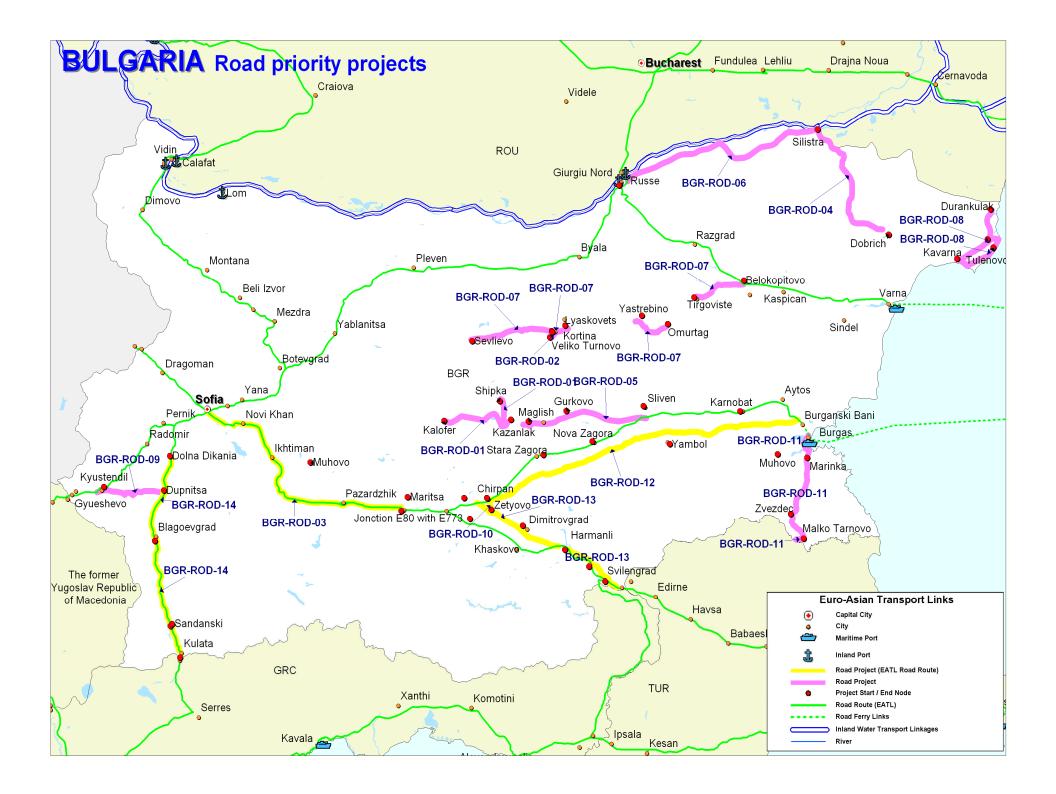
- 2 were classified as Category I
- 1 was classified as Category II

#### 6 Rail Projects (\$6,849 billion)

Committed funding-Category I

#### 1 Maritime port project (\$0,193 billion)

- Completed
- 1 Inland waterway project for which no information was given and is classified as Category IV
- 93% of the funding has been secured.





## China

### <u>18 EATL Routes Projects</u> of total cost \$7,193billion

### 16 Road Projects (\$6,289 billion):

- 6 have committed funding-Category I
- 6 were classified as Category II
- 9 were classified as Category III
- 2 Port Projects (\$0,904 billion):
  - Committed funding-Category I
- 57% of the funding has been secured.



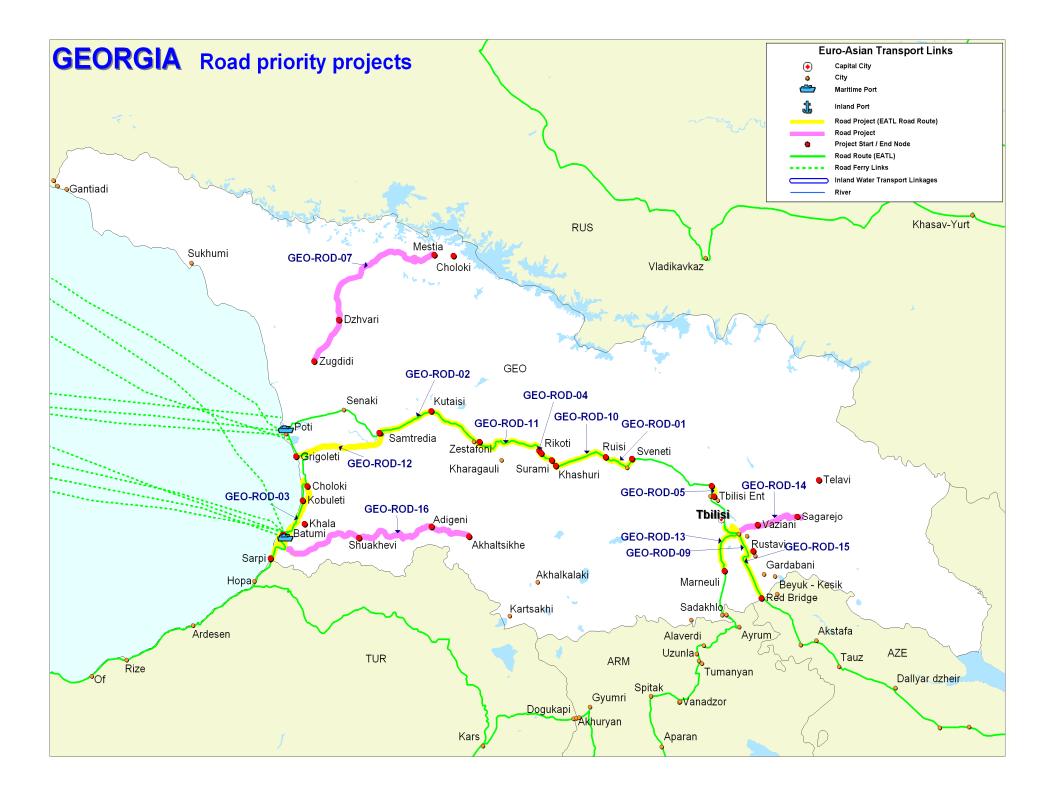
# Georgia\*

- 18 Projects of total cost \$1,227 billion
  - 14 along approved and proposed EATL Routes of total cost \$1,171 billion
  - 4 of national importance of total cost \$0,056 billion
- 14 EATL Routes Projects
  - 12 Road projects (\$0,439 billion):
    - 6 have committed funding-Category I
    - For 6, there is no information on the sources of funding and thus were classified as Category IV

#### 2 Rail Projects (\$0,732 billion):

- 1 has committed funding-Category I
- According to available information the remaining project was classified as Category II.
- 66% of the funding has been secured.

\* subject to revision based on new input submitted





## Germany\*

### 5 Projects of total cost \$1,734 billion

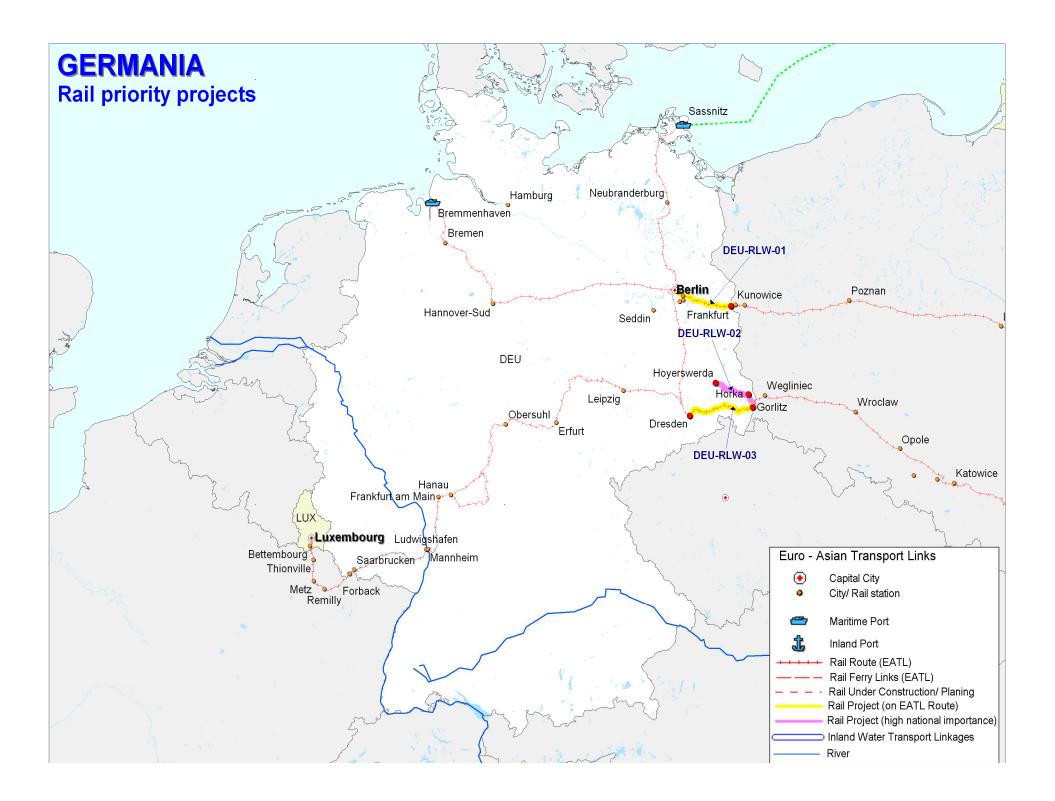
- 4 along proposed EATL Routes of total cost \$1,069 billion
- 1 of national importance of total cost \$0,655 billion

### <u>4 EATL Routes Projects</u>

- 2 Road Projects (\$0,352 billion):
  - According to evaluation methodology, these were classified as Category IV.
- 2 Rail Projects (\$0,717 billion):
  - According to evaluation methodology:
    - 1 was classified as Category III
    - 1 was classified as Category IV
- No funding has been secured.

\* subject to revision based on new input submitted





### **Greece**\*

### 5 Projects of total cost \$0,865 billion

- 3 along proposed EATL Routes of total cost \$0,763 billion
- 2 of national importance of total cost \$0,102 billion
- <u>3 EATL Routes Projects</u>
  - 2 Road Projects (\$0,705 billion)
  - 1 Port Project (\$0,058 billion)
  - Committed funding-Category I
- 100 % of funding has been secured.

\* subject to revision based on new input submitted



### Iran

### 7 Projects of total cost \$3,478 billion

- 6 along approved and proposed EATL Routes of total cost \$3,478 billion
- 1 of national importance (no cost estimate provided).
- 6 EATL Routes Projects
  - All Rail Projects (\$3,478 billion)
    - 5 were classified as Category I
    - 1 was classified as Category II

61% of the funding has been secured.



## Kazakhstan

### 13 Projects of total cost \$10,489 billion

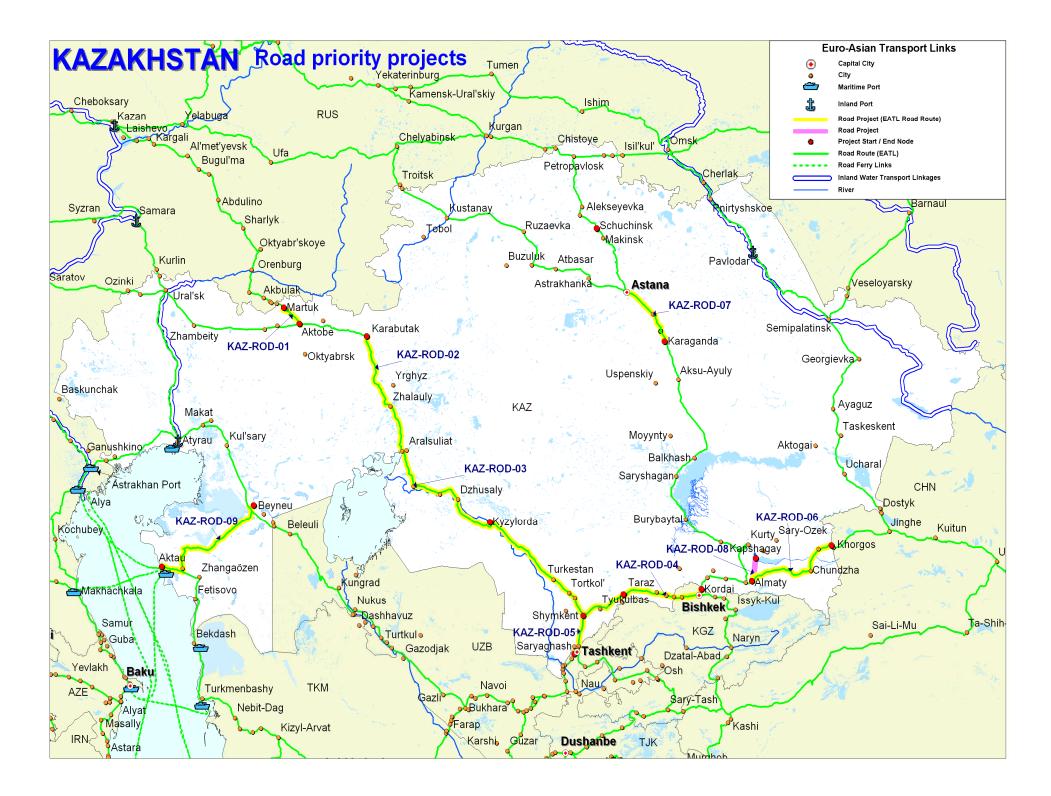
10 along approved and proposed EATL Routes of total cost \$8,918 billion

3 of national importance of total cost \$1,571 billion

### 10 EATL Routes Projects

- 8 Road Projects (\$7,411 billion)
- 2 Rail Projects (\$1,507 billion)
  - Based on relevant information are planned to go ahead, thus belong to Category I.

100% of the funding has been secured.





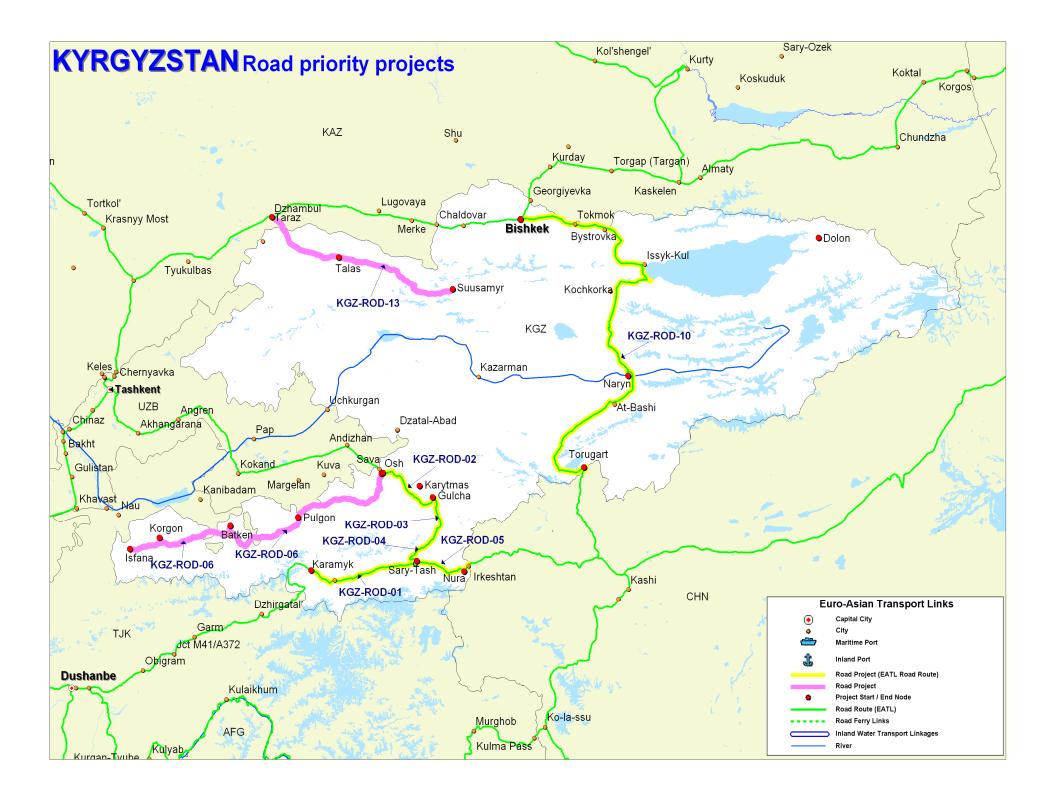
### Kyrgyzstan\*

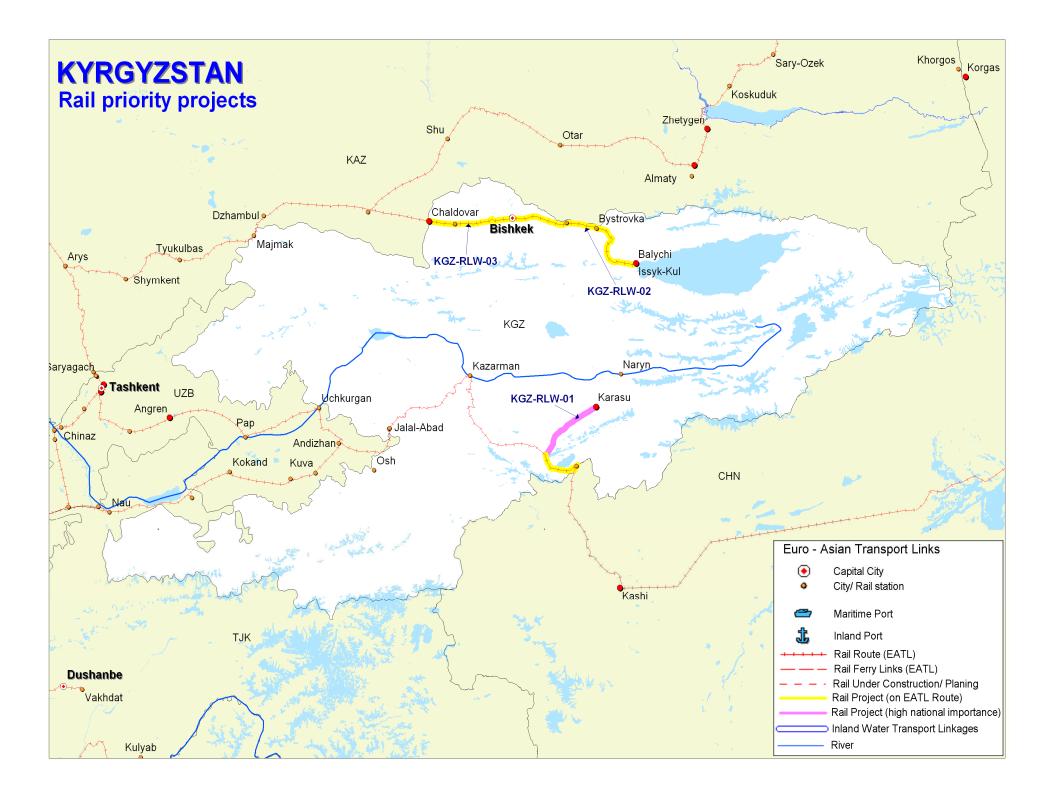
#### 16 Projects of total cost \$2,06 billion

- 11 along approved and proposed EATL Routes of total cost
   \$1,953 billion
- 5 of national importance of total cost \$0,107 billion
- <u>11 EATL Routes Projects</u>
  - 8 Road Projects (\$0,437 billion):
    - 7 have committed funding-Category I
    - 1 has been completed
  - 3 Rail Projects (\$1,517 billion):
    - 2 were classified as Category II
    - 1 was classified as Category IV

#### 21% of the funding has been secured.

\* subject to revision based on new input submitted





### Latvia

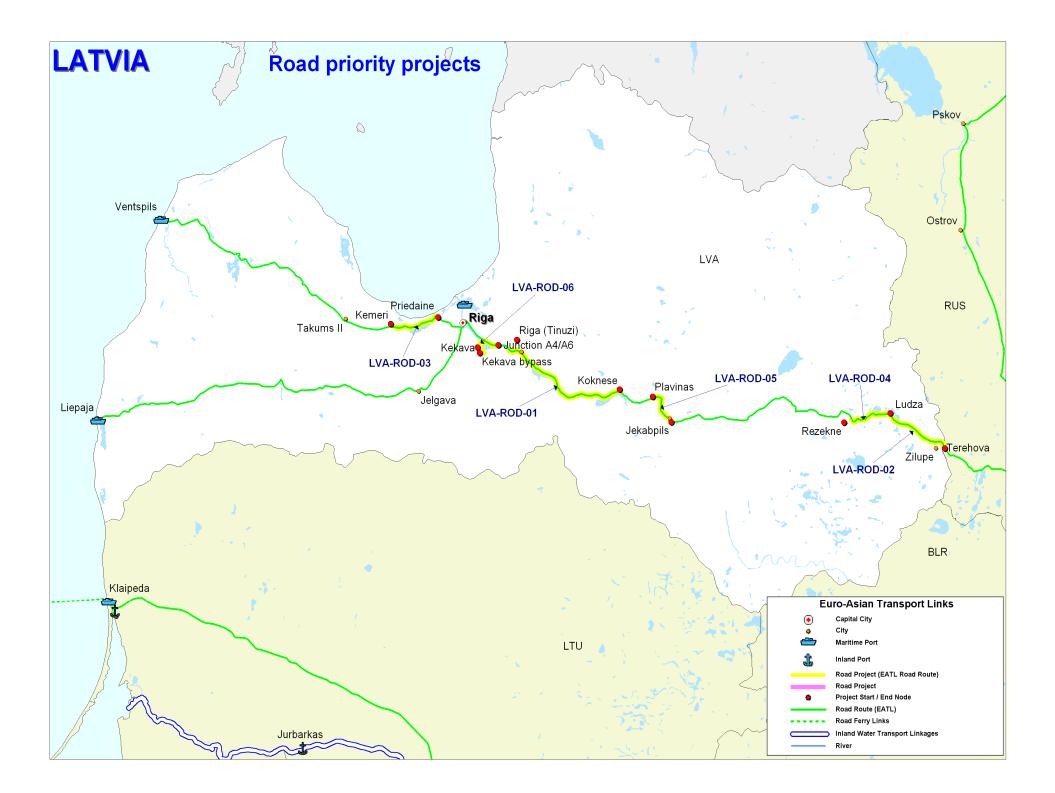
<u>16 EATL Routes Projects</u> of total cost \$3,683 billion

#### 6 Road Projects (\$0,967 billion)

- 3 have committed funding Category I
- For 3, no information on sources of funding-Category IV.

#### 10 Rail Projects (\$2,716 billion)

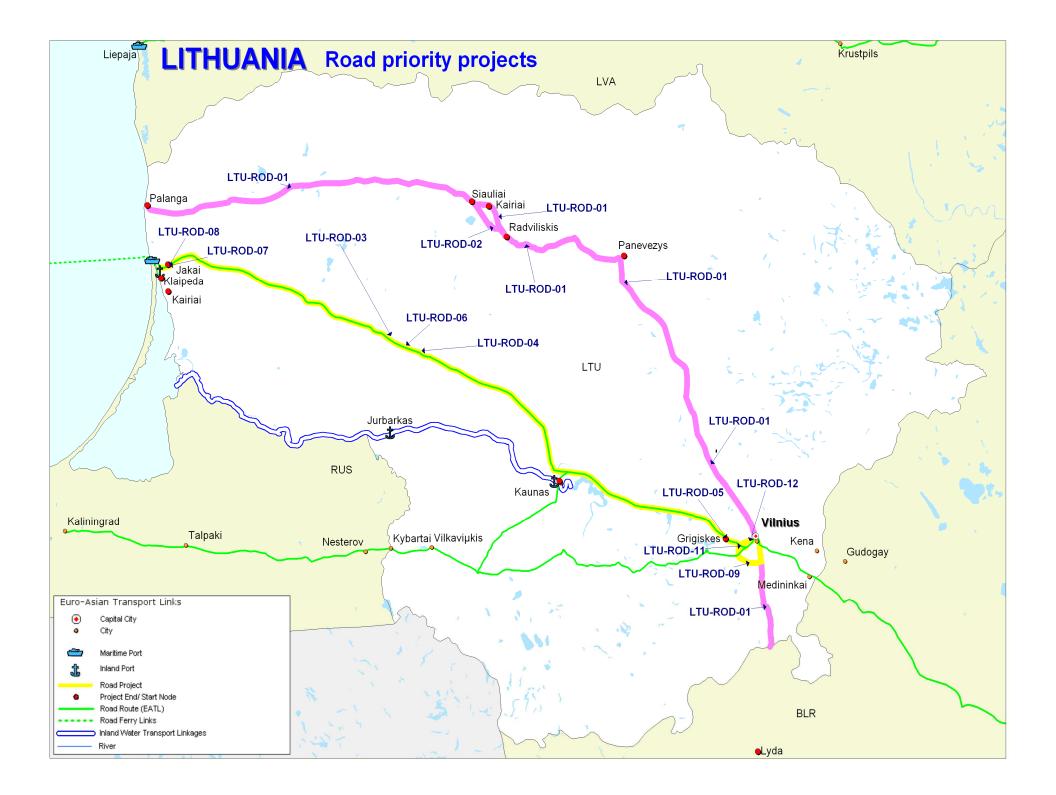
- 8 have committed funding Category I
- For 2, no information on sources of funding-were classified as Category IV.
- 25% of the funding has been secured.

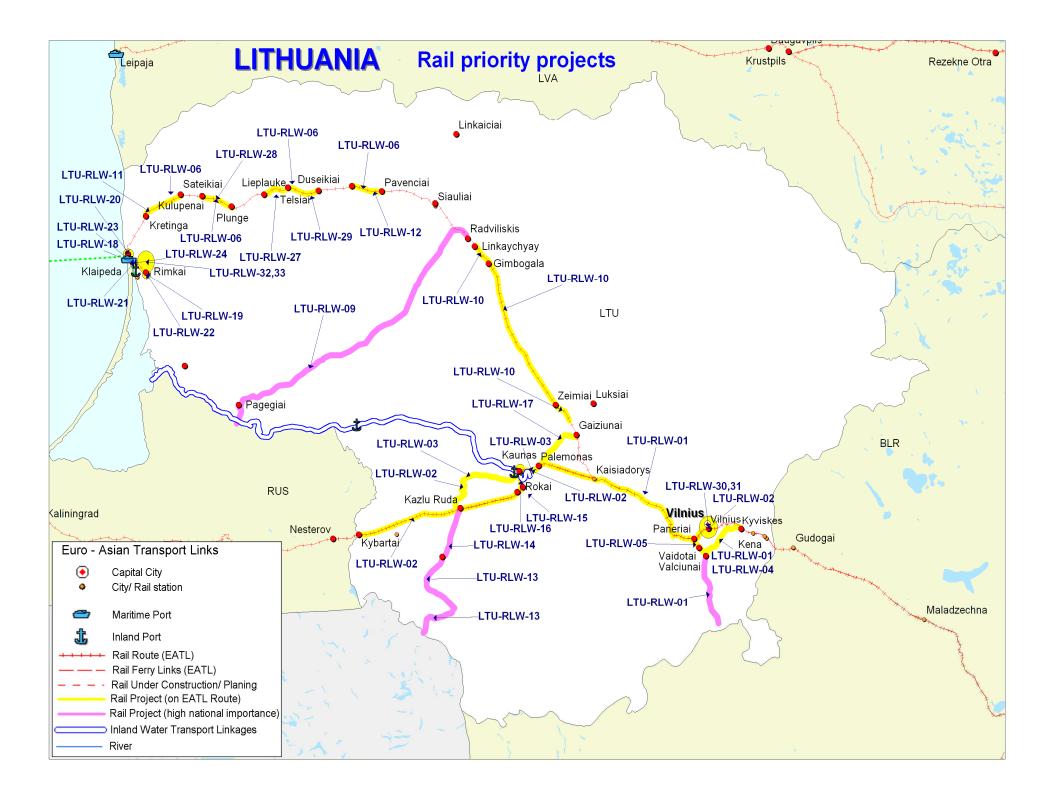




### Lithuania

- 55 Projects of total cost \$1,720 billion
  - 48 along proposed EATL Routes of total cost \$1,46 billion
  - 7 of national importance of total cost \$0,26 billion
- 48 EATL Routes Projects
  - 9 Road Projects (\$0,447 billion)
  - **30 Rail Projects** (\$0,844 billion)
  - **5 Maritime Projects** (\$0,16 billion)
  - 4 Inland Waterway Projects (\$0,009 billion)
  - All have committed funding-Category I
  - 100% of the funding has been secured.





### **Republic of Moldova\***

#### 7 Projects of total cost \$0,849 billion

- 5 along proposed EATL Routes of total cost \$0,756 billion
- 2 of national importance of total cost \$0,093 billion

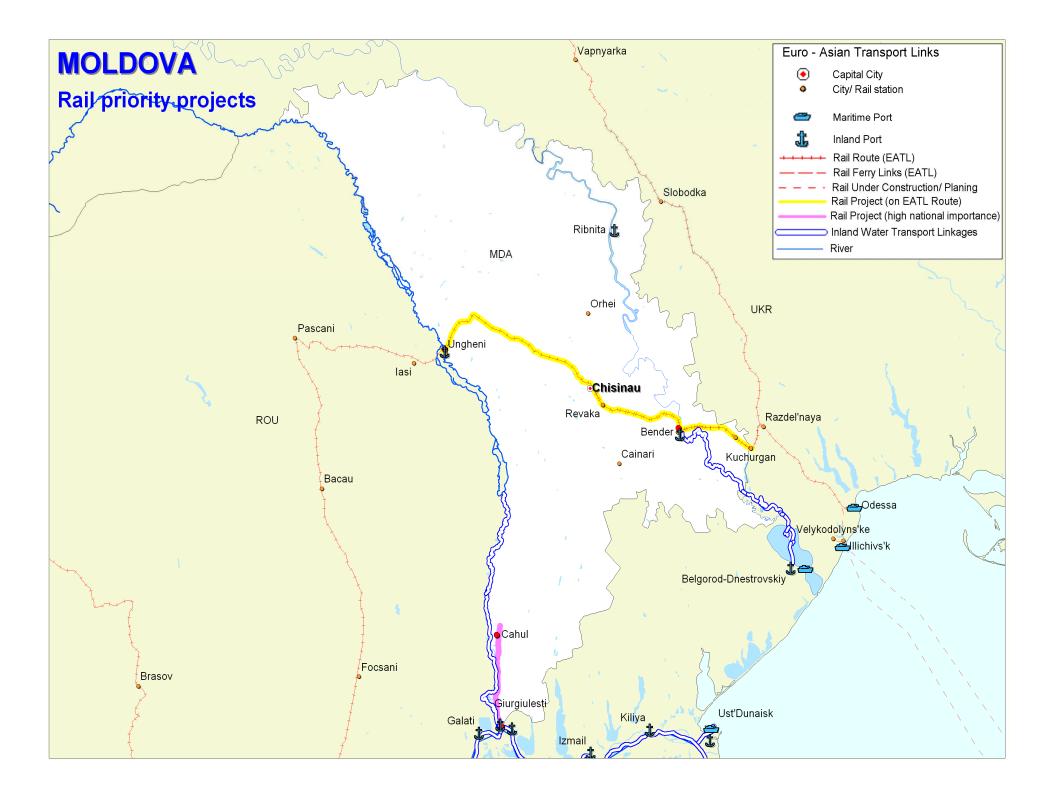
#### <u>5 EATL Routes Projects</u>

- 3 Road Projects (\$0,189 billion)
  - 2 have committed funding -Category I
  - 1 was classified as Category III
- 1 Rail Project (\$0,317 billion)
  - no information on the sources of funding was given-Category IV.

#### 1 inland waterway project (\$0,25 billion)

- Committed funding-Category I
- 53% of the funding has been secured.
- \* subject to revision based on new input submitted





### Mongolia

1 rail project of national importance (\$1,76 billion)



### Pakistan\*

#### 26 Projects of total cost \$4,449 billion

- 24 along proposed EATL Routes of total cost \$4,242 billion
- 2 of national importance of total cost \$0,207 billion

#### <u>24 EATL Routes Projects</u>

- 21 Road Projects (\$3,843 billion)
  - 10 have committed funding-Category I
  - 10 were classified as Category II
  - 1 was classified as category III

#### 1 Rail Project (no cost estimate provided)

Limited information was given-Category IV

#### 2 Maritime Projects (\$0,399 billion)

- 1 completed
- 1 for which limited information was given and was classified as Category IV

#### 56% of the funding has been secured.

\* subject to revision based on new input submitted





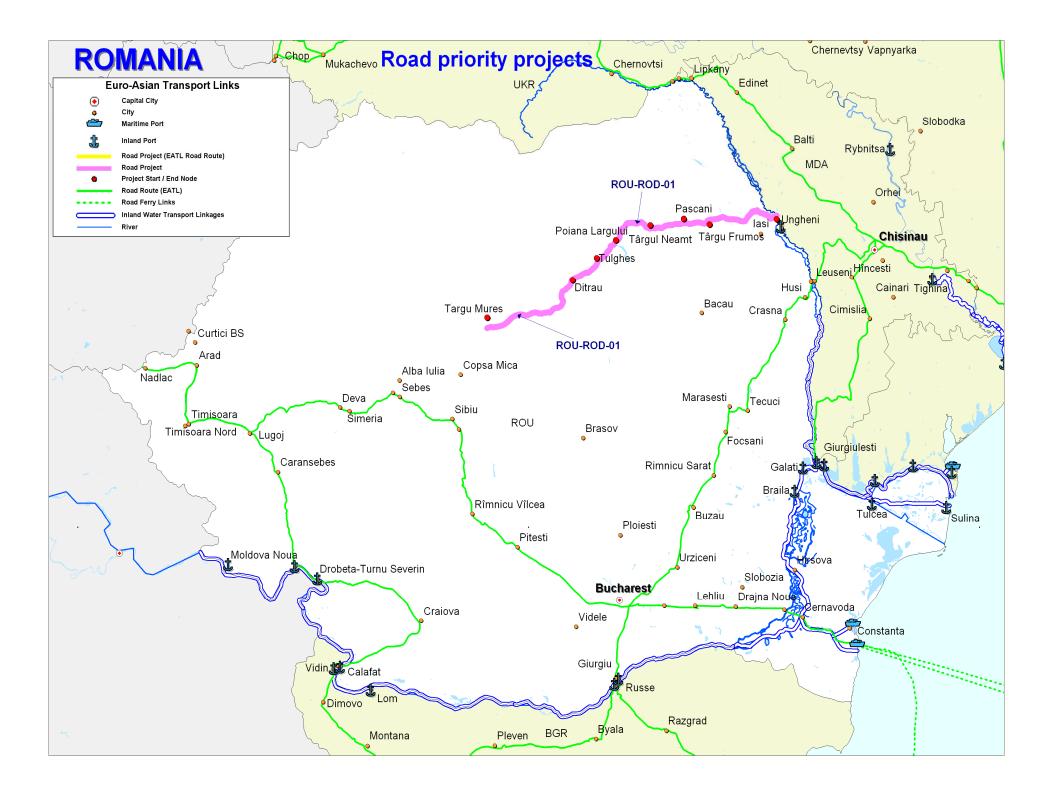
### Romania\*

#### 7 Projects of total cost \$9,694 billion

- 6 along approved and proposed EATL Routes of total cost \$0,494 billion
- 1 of national importance of total cost \$9,2 billion

#### 6 EATL Routes Projects

- 1 Maritime Project (\$0,196 billion):
  - Committed funding-Category I.
- 5 Inland waterway Projects (\$0,298billion):
  - 4 have committed funding-Category I
  - I for which limited information was provided-Category IV.
- 100% of the funding has been secured for those projects that information was provided.
- \* subject to revision based on new input submitted



### **Russian Federation\***

#### 70 Projects of total cost \$148,498 billion

- 50 along approved and proposed EATL Routes of total cost \$112,856 billion
- 20 of national importance of total cost \$35,642 billion

#### 50 EATL Routes Projects

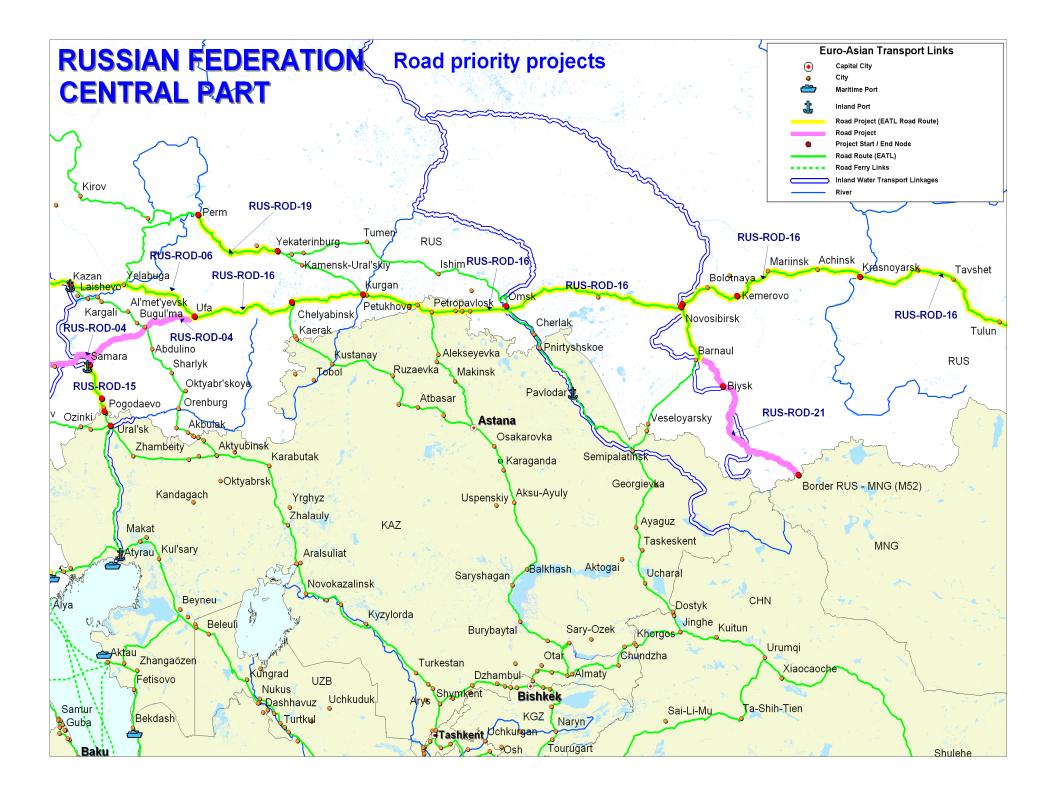
- 17 Road Projects (\$72,565 billion)
  - According to the information provided were classified as Category II

#### 23 Rail Projects (\$23,051 billion)

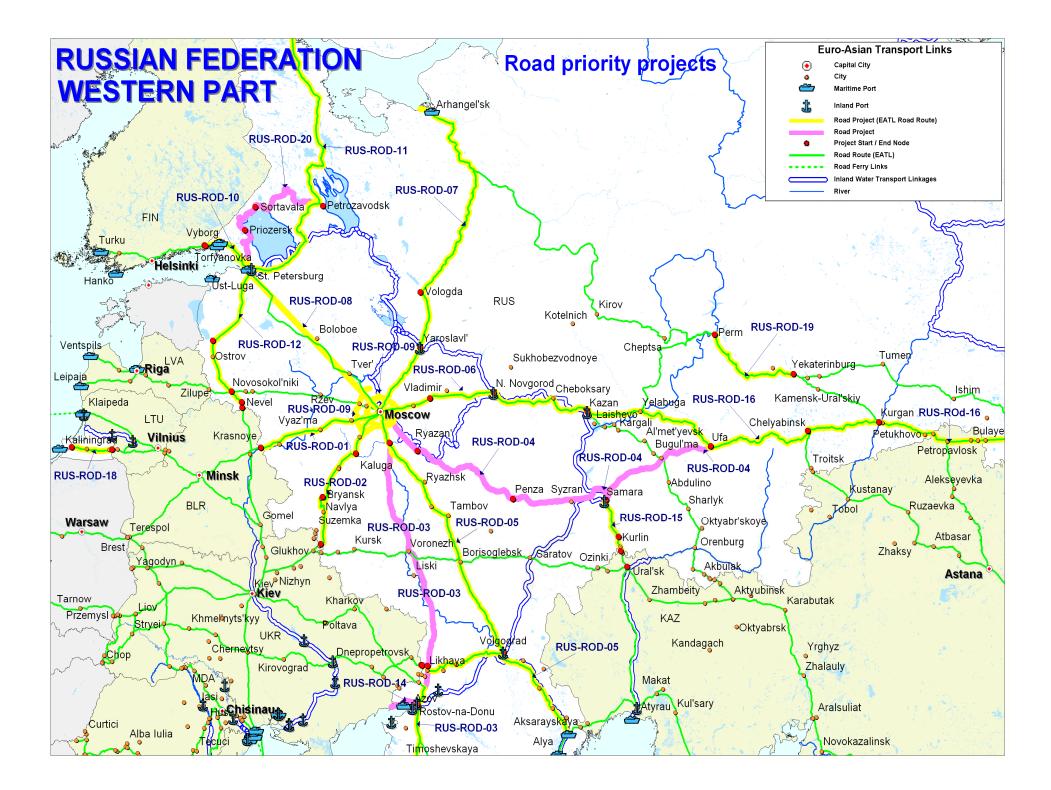
- 6 were classified as Category I
- 10 were classified as Category II
- 7 were classified as Category IV

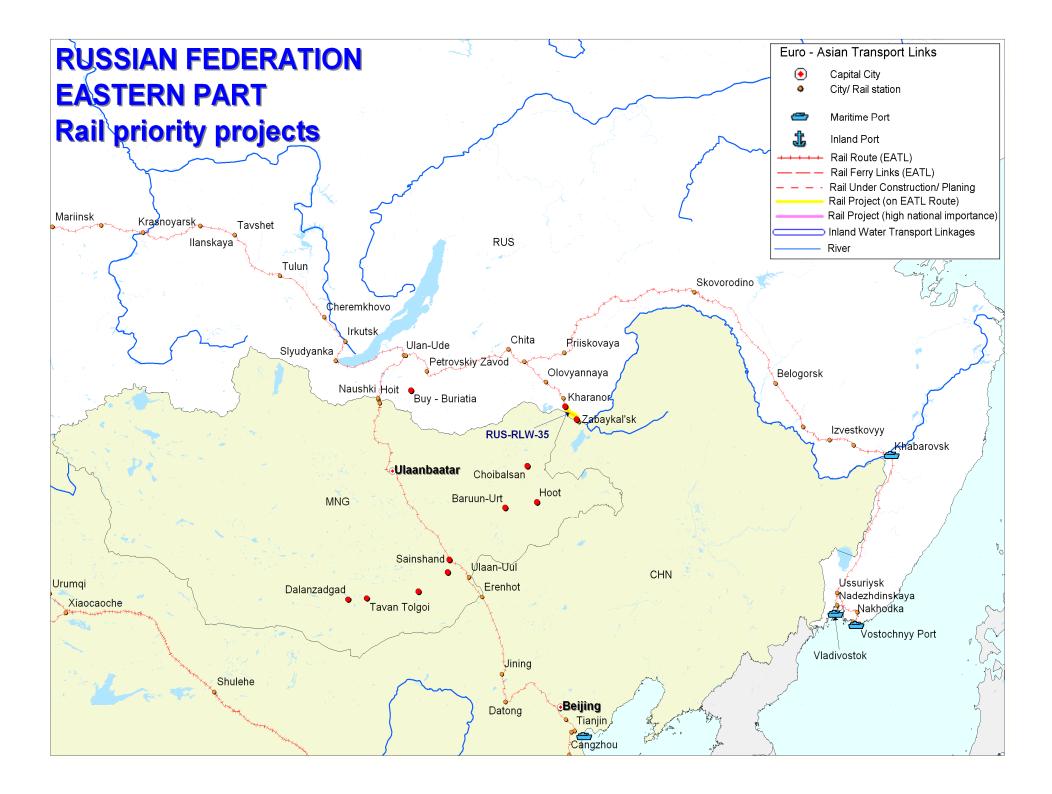
#### 5 Maritime Projects (no cost estimate provided)

- limited information was given-Category IV
- 5 Intermodal Terminals Projects (\$17,24 billion)
  - Committed funding -Category I.
- 16% of the funding has been secured.
- \* subject to revision based on new input submitted

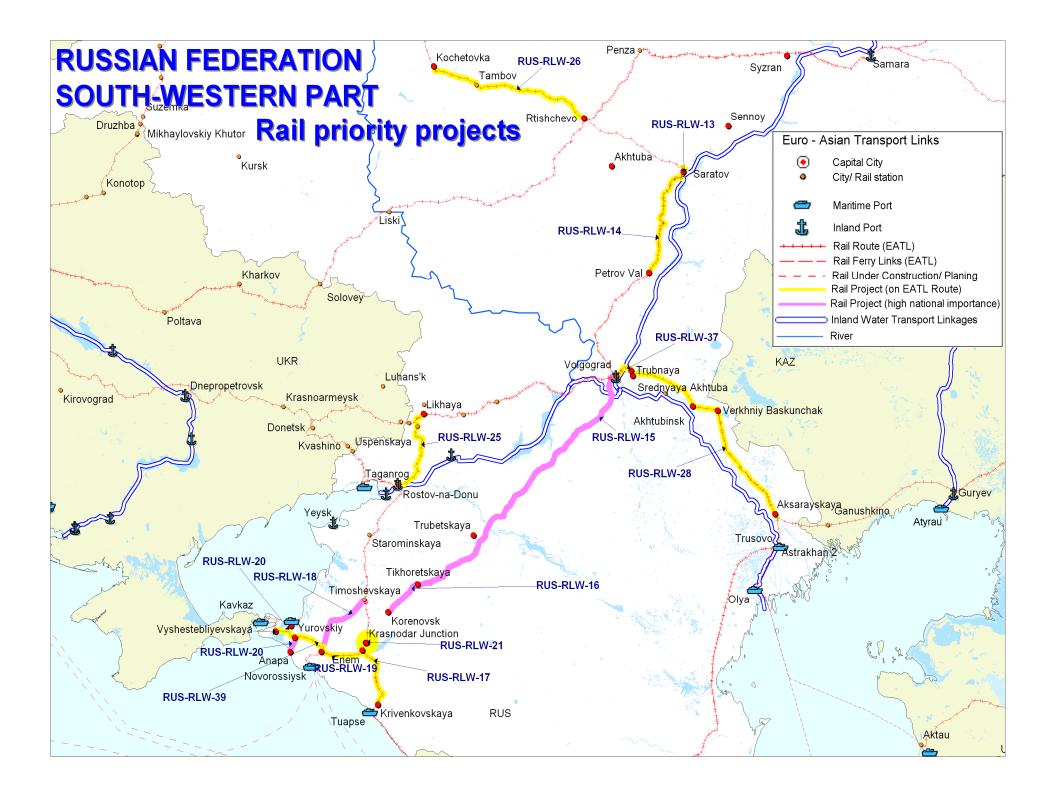












### Tajikistan\*

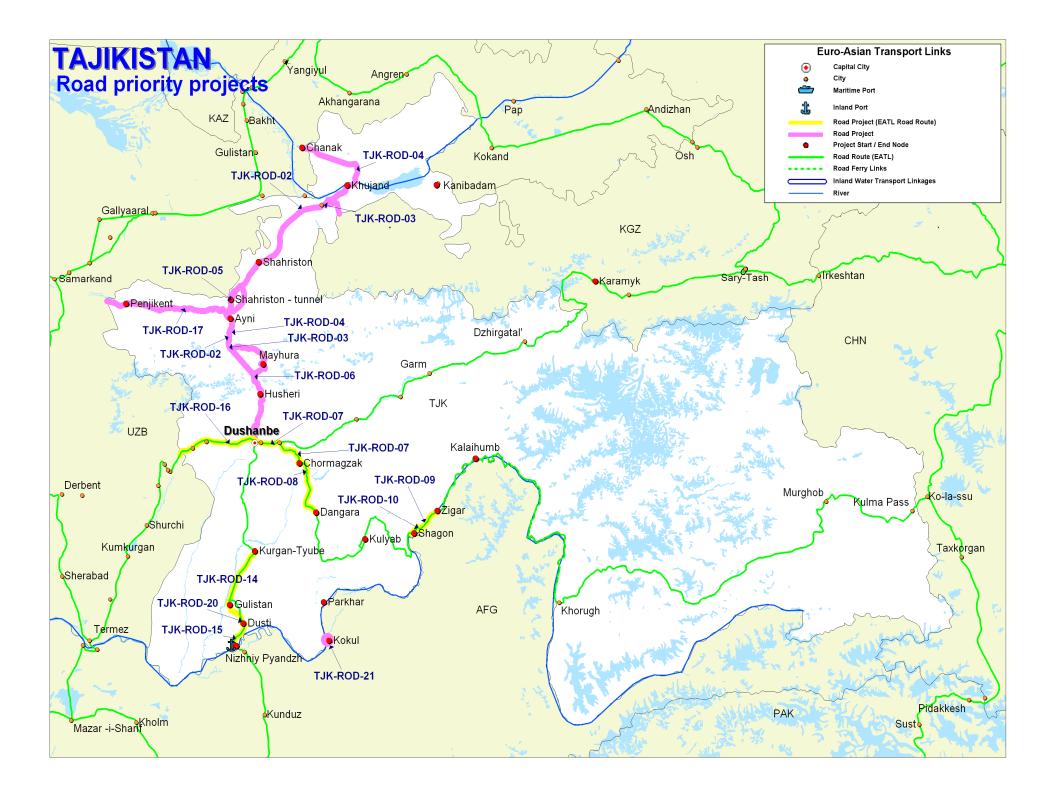
- 32 Projects of total cost \$4,876 billion
  - 12 along approved and proposed EATL Routes of total cost \$0,627 billion
  - 20 of national importance of total cost \$4,249 billion

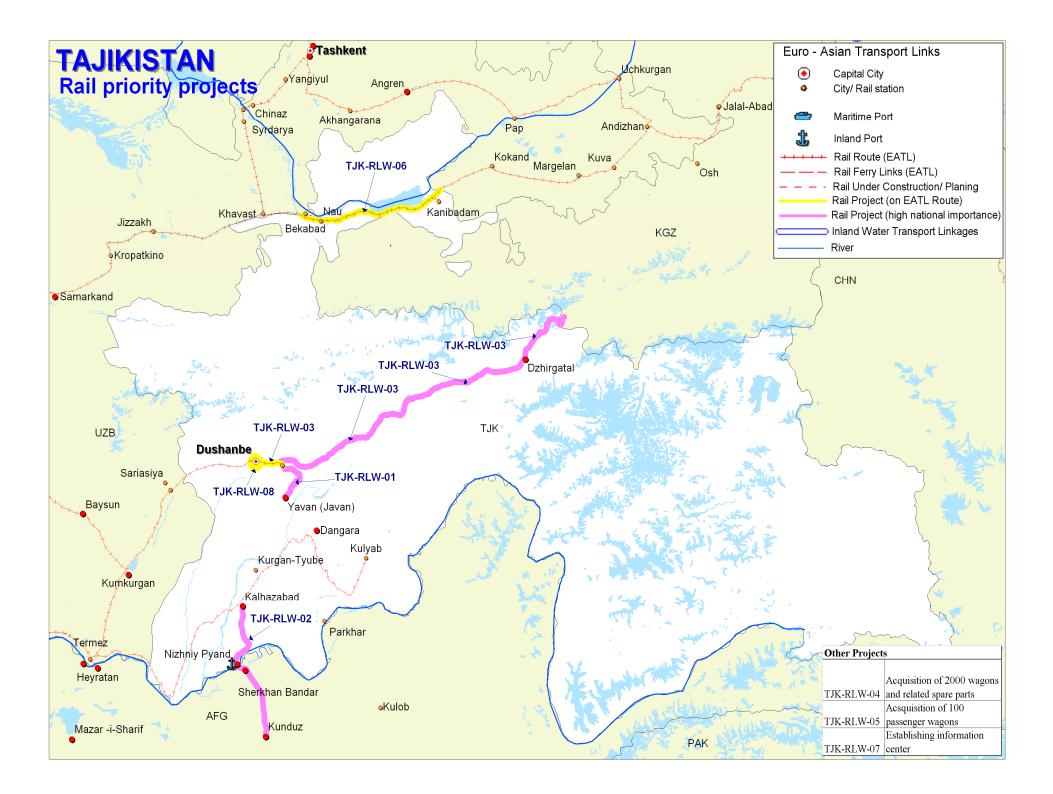
#### 12 EATL Routes Projects

- 9 Road Projects (\$0,537 billion)
  - 6 have committed funding-Category I
  - 3 for which limited information was given were classified as Category IV

#### 2 Rail Projects (\$0,07 billion)

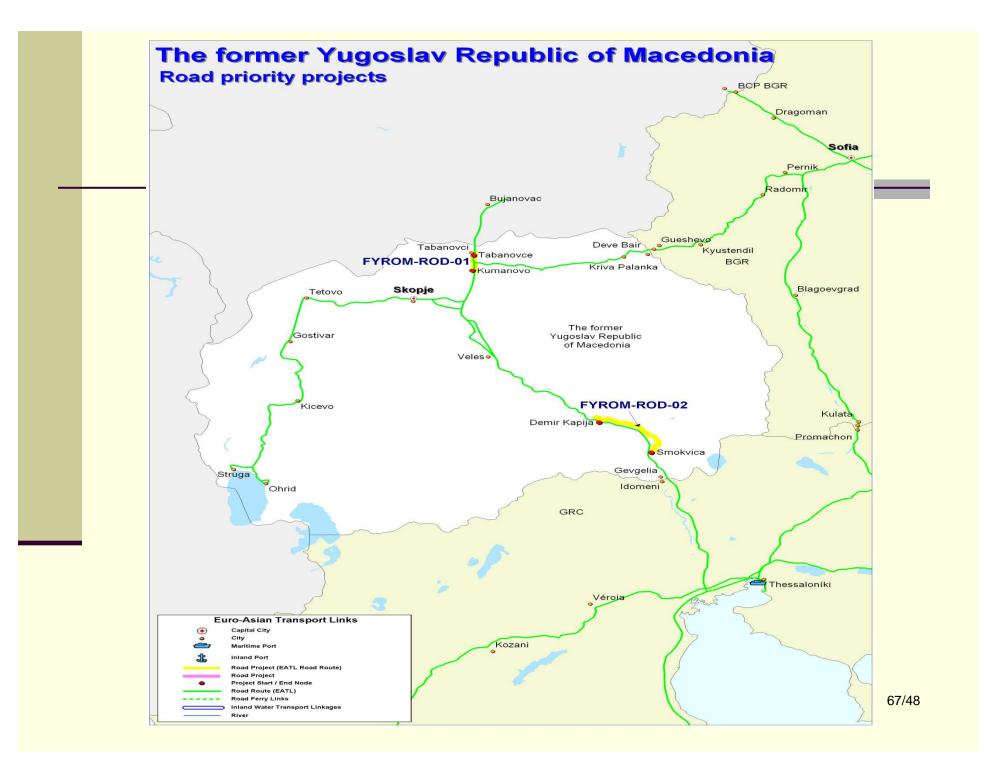
- Limited information was given-Category IV
- 1 intermodal terminals projects (\$0,02 billion)
- Limited information was given and were classified as Category IV
- 55% of the funding has been secured.
- \* subject to revision based on new input submitted

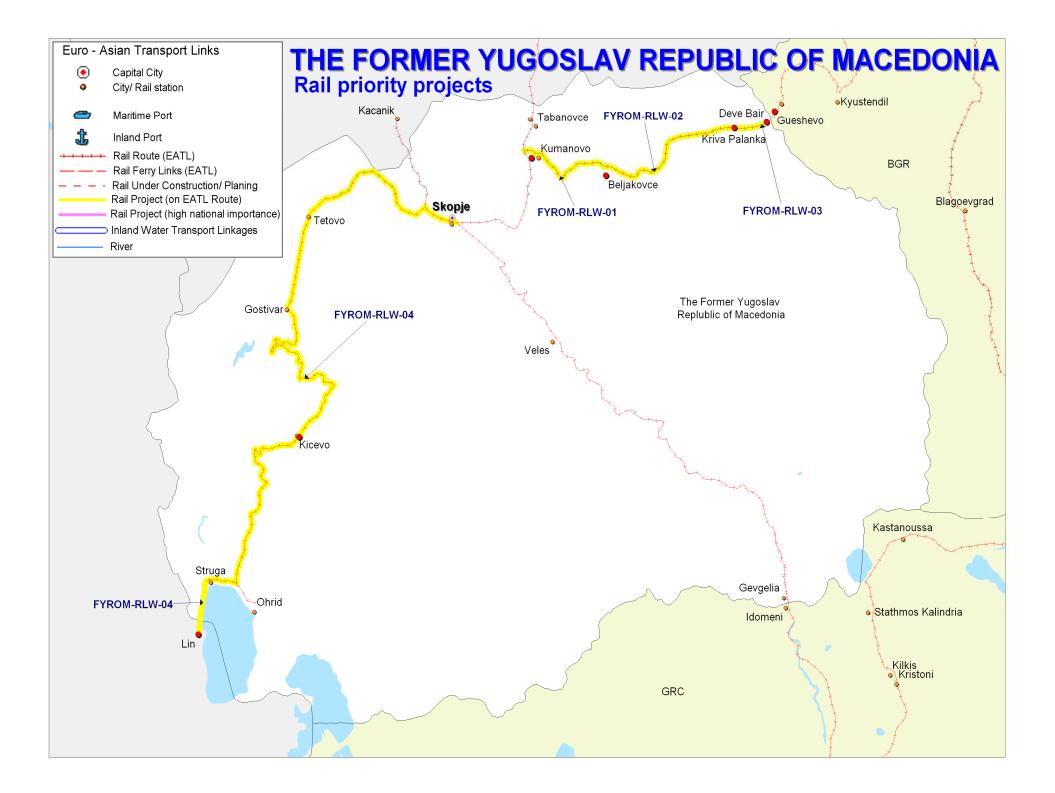




### The former Yugoslav Republic of Macedonia\*

- <u>6 EATL Routes Projects</u> of total cost \$1,355 billion
  - 2 Road Projects (\$0,341 billion)
    - All have committed funding-Category I.
  - 4 Rail Projects (\$1,014 billion)
    - Based on application of methodology, all were classified as Category II.
- 25% of the funding has been secured.
- \* subject to revision based on new input submitted





### Turkey\*

#### 18 Projects of total cost \$25,556 billion

- 15 along approved and proposed EATL Routes of total cost \$25,556 billion
- 3 of national importance (no cost estimate provided).

#### <u>15 EATL Routes Projects</u>

- 8 Road Projects (\$12,459 billion)
  - 5 have committed funding-Category I
  - Based on the evaluation methodology, 3 were classified as Category II.

#### 7 Rail Projects (\$13,097 billion)

- 5 have committed funding, thus belong to Category I
- Based on the evaluation methodology, 2 were classified as Category IV
- 42% of the funding has been secured.
- \* subject to revision based on new input submitted





### Ukraine

Ukraine did not submit any data for the purpose of the EATL Phase II Study until Almaty meeting.

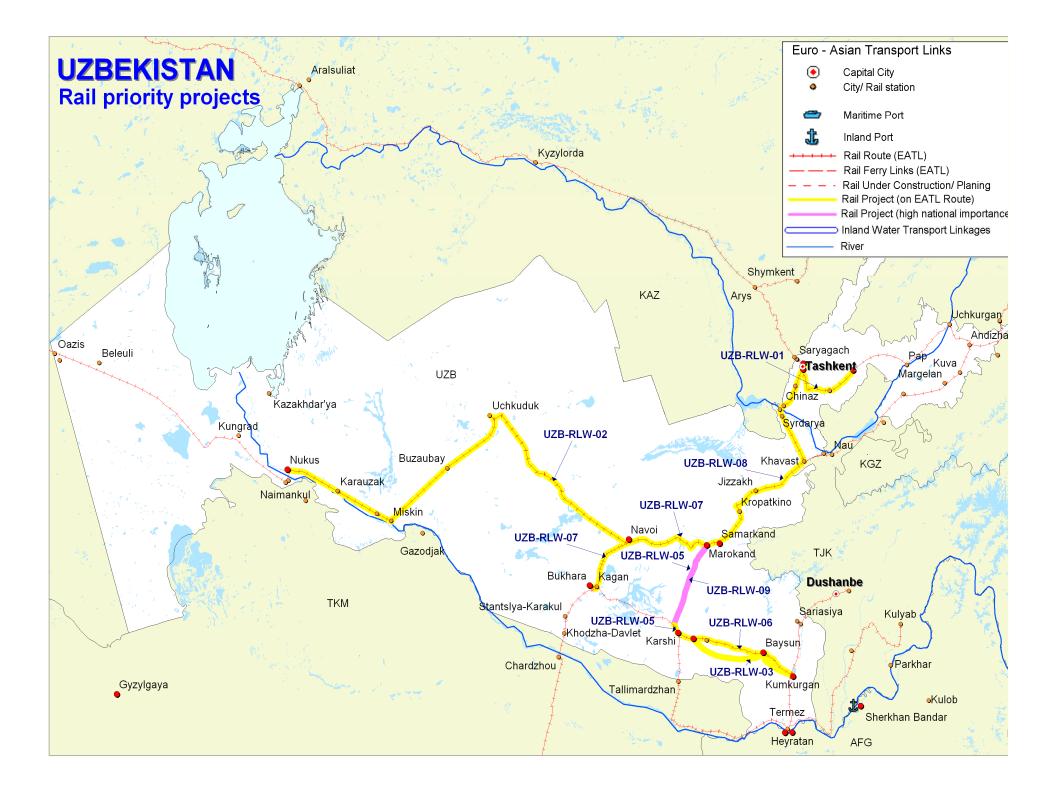
Ukraine submitted input few days ago.

### Uzbekistan\*

Uzbekistan did not submit information for the purpose of the EATL Phase II Study. According to other information available:

## 6 EATL Routes Rail Projects (\$1,105 billion)

- 4 were classified as Category I
- 2 were classified as Category II
- 1 is of national importance (\$0,1 billion).
- 64% of the funding has been secured.
- \* subject to revision based on new input submitted



### **Summary Analysis**

- Out of these 287 projects along approved and proposed EATL Phase II Routes:
  - 3 projects have been completed
  - 170 projects belong to Category I
  - 62 projects belong to Category II
  - 4 projects belong to Category III
  - 48 projects belong to Category IV

### Results Summary per Projects' Type and Cost

#### EATL Routes Projects total cost: \$ 189 billion

- 141 are road projects (49%), with an estimated value of \$109 billion, representing 58% of the total investment cost.
- 109 are railway projects (38%), with an estimated value of \$59 billion, representing 31 % of the total investment cost.
- 37 are other projects (13%), with an estimated value of \$20 billion, representing 11 % of the total investment cost.
- National Importance Projects total cost: \$57 billion

### **EATL Phase II Investment Plan**

- 1 % of the proposed projects for the EATL Network has been completed
- 59 % of the proposed projects for the EATL Network is expected to be completed until 2013
- 22 % of the proposed projects for the EATL Network is expected to be completed until 2016
- 1 % of the proposed projects for the EATL Network is possible to be completed until 2020 and
- For 48 % of the proposed projects for the EATL Network, it is unknown when would be completed, since further investigation is necessary before definition, scheduling and possible financing.
- 33% of the funding has been secured.

0	Decisets	EATL Projects Implementation Progress				
Country	Projects		Upto	2013-	2016-	2020-
		Completed	2013	2016	2020	unknown
AFT	6	0 %	17%	0 %	0 %	83%
ARM	10	0 %	50%	20%	0 %	30%
AZE	6	0 %	100%	0 %	0 %	0 %
BLR						
BGR	11	9%	73%	9%	0 %	9%
CHN	18	0 %	44%	50%	6%	0 %
FIN						
GEO	14	0 %	50%	7 %	0%	43%
GМ	4	0 %	0 %	0 %	25%	75%
G R	3	0 %	100%	0 %	0%	0 %
IR N	6	0 %	83%	17%	0%	0 %
KAZ	10	0 %	100%	0 %	0 %	0 %
KGZ	11	9%	64%	18%	0 %	9%
LVA	16	0 %	69%	0 %	0 %	31%
LTU	48	0 %	100%	0 %	0 %	0 %
LUX						
MNG						
ΡΑΚ	24	4 %	42%	42%	4 %	8 %
MDA	5	0 %	60%	0 %	20%	20%
ROU	6	0 %	83%	0 %	0 %	17%
RUS	50	0 %	22%	54%	0 %	24%
ТЈК	12	0 %	50%	0 %	0 %	50%
FYROM	6	0 %	33%	67%	0%	0 %
TUR	15	0 %	67%	20%	0 %	13%
ТКМ	15	0 %	0770	20%	0 %	13%
UKR						
UZB	6	0 %	67%	33%	0 %	0 %
		EATL Projects Implementation Progress				
EATL	Projects	Up to 2013- 2016- 2020-				
NETWORK	110 je ot 3	Completed	2013	2015-	2020	unknown
	287	1 %	59%	2010	1%	17%
	201	1 /0	55/0	L L /0	1 /0	1 / /0

### Conclusions

- A total of 287 infrastructure projects are being proposed in the EATL Phase II Study.
- The implementation of the EATL network as a whole will require the approximate sum of \$189 billion, out of which only 33% has been secured.
- Over half of the proposed projects (59%) are planned to be completed by year 2013.
- For a fair share of the EATL network (48%), it is unknown when it would be completed.
- Lack of information contributed significantly to obtaining the above results.
- The above figures will change, based on the new information submitted!

# Thank you for your attention!