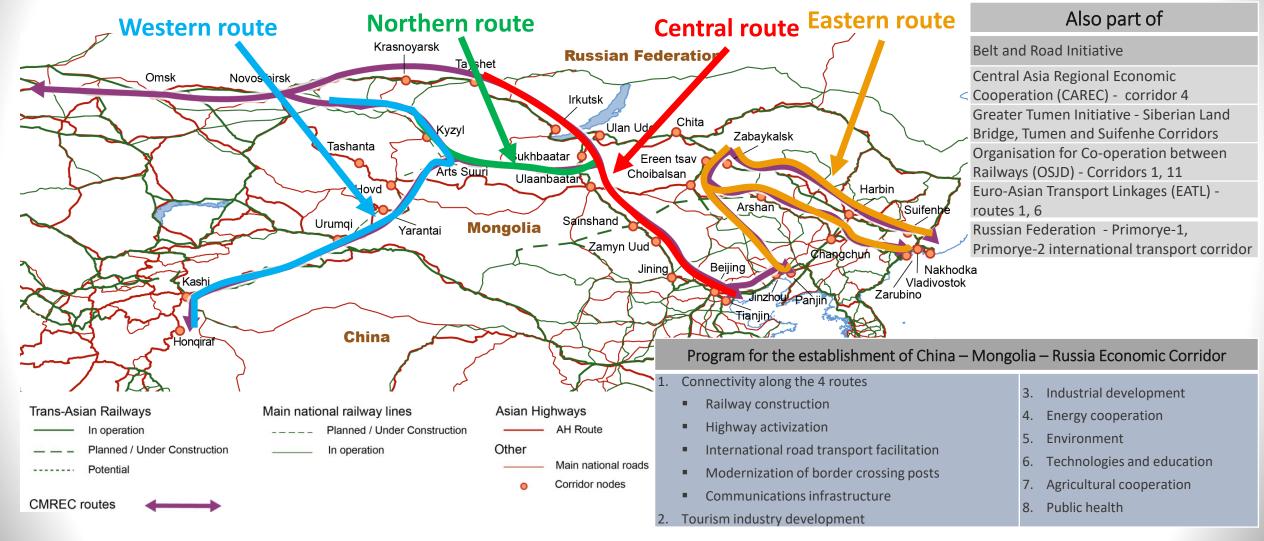
UN-OHRLLS, ESCAP: Capacity building workshop on strengthening connectivity along the China-Mongolia-Russian Federation Economic Corridor

Potential of the China-Mongolia-Russian Federation Economic Corridor

Transport routes of the China – Mongolia – Russian Federation Economic Corridor



Transport routes of the China – Mongolia – Russian Federation Economic Corridor

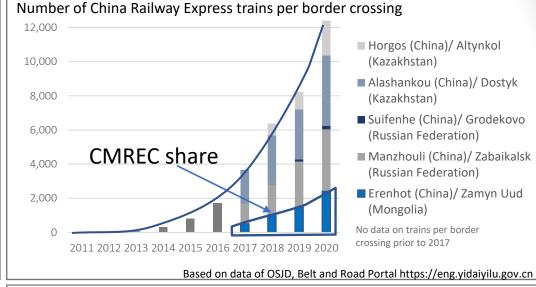


Traffic potential



Traffic potential: Eurasian container block trains





1. China – Europe – C	hina
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Total

2. China – Russian Federation, Belarus – China

3. China – Central Asia – China

Route Options .. Via China/Kazakhstan border

- 2. Via China/Mongolia border CMREC
- 3. Via China/Russian Federation border

6.363 8.225

12,406

Number of China Railway Express trains per border crossing 2011 2012 2013 2014 2015 2016 2019 2020 2017 2018 Erenhot (China)/Zamyn Uud (Mongolia) 1,486 2,436 (China)/ Zabaikalsk (Russian Manzhouli 1,766 2,667 3,599 Federation) Suifenhe (China)/ Grodekovo (Russian 122 218 Federation) Alashankou (China)/ Dostyk (Kazakhstan) 2,927 4,112 Horgos (China)/ Altynkol (Kazakhstan) 2,041

CMREC in Eurasian container railway transit

- Share in trains number grows slower than total train number
- 2. Has lower share in Eurasian railway container traffic than alternatives
- 3. Has almost no China Europe China traffic: about 90% goes via China/Kazakhstan border

Traffic potential: Eurasian container block trains



Analysis of current demand

- 1. CMREC might have 1/3 of China Europe China railway container train traffic
- 2. Total volume of China Europe (EU28) China railway cargos 1.6 million ton (2019)
- 3. This might mean +23,000 TEU to current container volume via Mongolia (149,000 TEU)

Estimates of volume of freight traffic China – Europe – China that might be diverted from sea lines to Eurasian railways

Potential container rate (USD/FEU)	Share of diverted sea trade volume	Potential diverted sea volume, million ton	Potential diverted sea volume, million FEU	Railway container rate as share of volume-weighted average price of goods per FEU
5,500	36%	42.01	1.59	2.6%
10,000	22%	25.67	0.97	3.4%

Analysis of potential demand

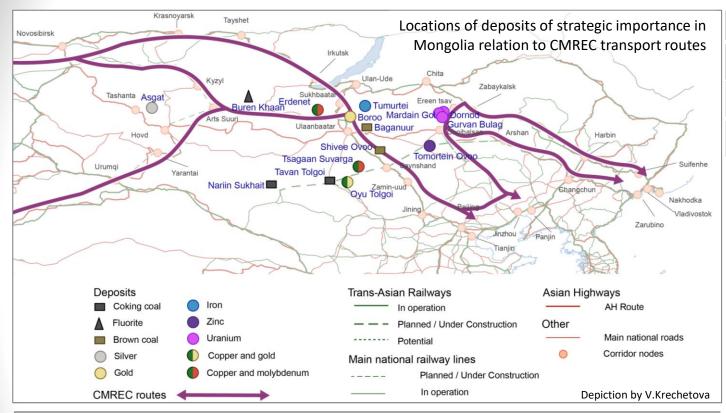
- Eurasian railways carried 725,000 TEU of China Europe China cargos in 2019 (base year)
- 2. Total of potentially possible diverted cargos + existing railway container transit gives potential cargo base of 1.3-1.9 million FEU (or about 2.6-3.8 million TEU)
- 3. Potential cargo base for CMREC 450-650 thousand FEU (900-1,300 thousand TEU).

Capacity constraints

Accommodation of such number of containers might require throughout capacity of 30-43 trains/day for container trains *only*

Current capacity of UBTZ (Ulaanbaatar railway) 8-14 train pairs/day – insufficient

Traffic potential: Minerals



Analysis of potential demand

- 1. Total of mining production plans, expansion plans and new development plans gives ≈110 million ton/year mining output reached between 2025-2035
- 2. This translates into reaching 75-80 million ton/year of export of minerals and products between 2025-2035
- 3. To compare, maximum of export bulk in recent years ≈47 million ton/year

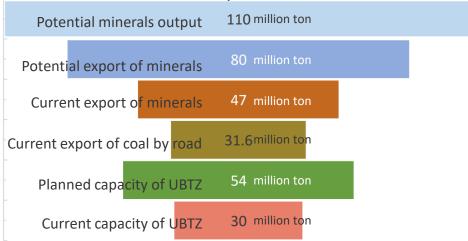
Capacity constraints

In 2019, 31.6 million ton of coal were exported by road and 10.2 million ton of various cargos by railway.

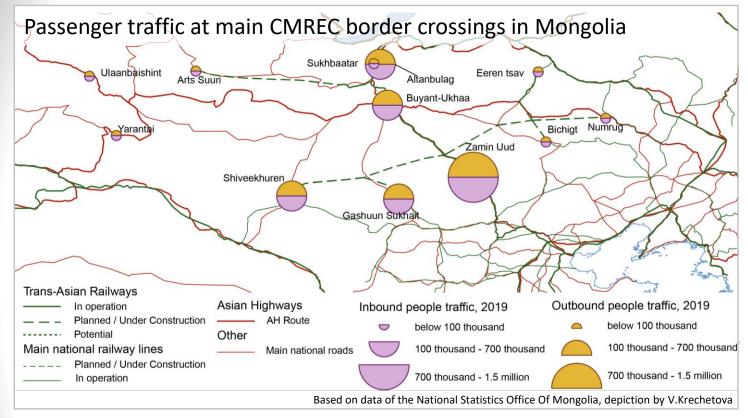
Current capacity of the UBTZ (Ulaanbaatar railway) is about 30 million ton/year, less than needed

UBTZ Modernization Plan promises carrying capacity 54 million ton/year by 2030, which is less than potential export volume by that time

Capacity of Central route of CMREC (UBTZ) and mineral export demand



Traffic potential: Tourism





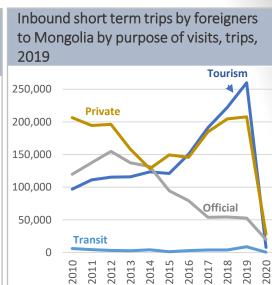
CMREC and its Northeast Asia neighbours are among global leaders in tourist departures

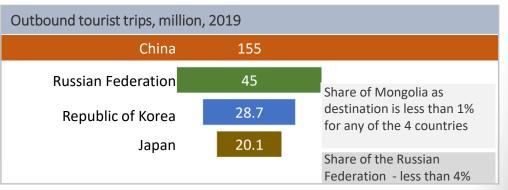
Share of CMREC is small in this number

Number of tourism arrivals in Mongolia tripled between 2010 and 2019

Number of small private vehicles in all CMREC countries grew in the last decade (2010-2019/2020): China 4.5 times (to 2.05 billion in 2019), doubled in Mongolia, +44% in the Russian Federation



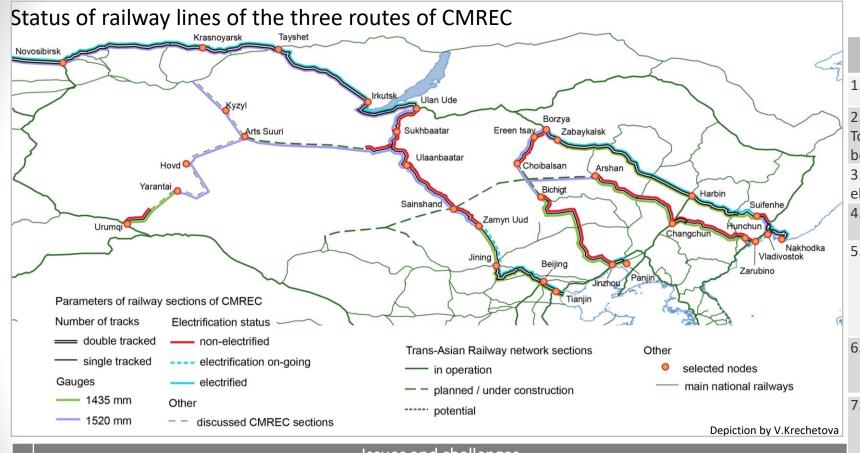






Corridor infrastructure

CMREC hard infrastructure: railways



Issues and challenges

- 1. Missing links at Western route, Northern route, Eastern route
- 2. Break-of-gauge China 1,435mm/ Mongolia, Russian Federation 1,520mm
- Central route is single-tracked non-electrified along Jining Erenhot (China)/ Zamyn Uud (Mongolia) Sainshand Ulaanbaatar Sukhbaatar (Mongolia)/Naushki (Russian Federation) Ulan Ude
- 4. Deteriorated tracks, aged rolling stock at UBTZ both at Central and Eastern routes

Actions to take to create needed railway capacity

- 1. Upgrade rolling stock and locomotives at UBTZ (Mongolia)
- 2. Commissioning the new railway link Zuunbayan Tavan Tolgoi Gashuun Sukhait (Mongolia)/ Ganqimaodu (China) border crossing as branch of Central route
- 3. Central route upgrade (Mongolia): Laying second track and electrification of UBTZ
- 4. Construction of the section of Northern route (Mongolia)

 Art Suuri Erdenet Salkhit
- Construction of the sections of Eastern route (Mongolia)
 Choibalsan Bichigt section;
 Choibalsan Arshan section (Tumen Corridor);
 Connection to the Central route Khuut –Baruun-Urt –
- 6. Modernization of sections of Eastern route Choilbalsan – Ereen tsav (Mongolia) Solovievsk – Borzya (Russian Federation)

Sainshand

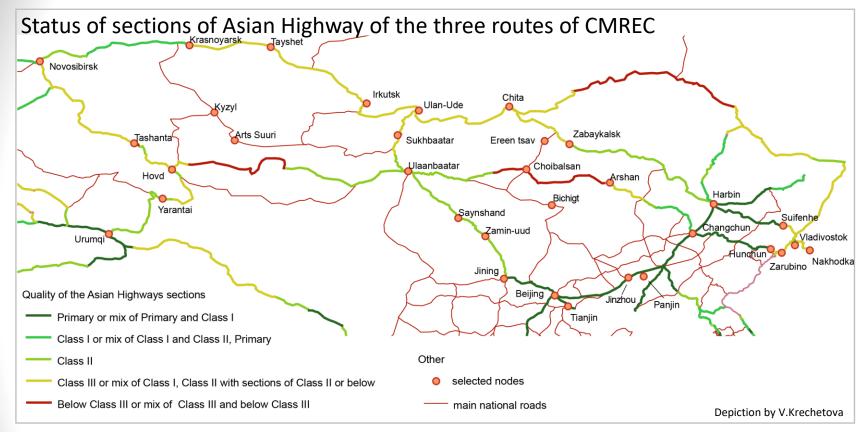
7. Construction of the sections of Western route

Kuragino – Kyzyl – Tsagaan Tolgoi (Russian Federation)

Art Suuri – Hovd – Yarantai (Mongolia)

Takeshiken – Zhundong/other option (China)

CMREC hard infrastructure: other issues to address



Actions to take

Bring roads to AH Class II and higher:

Central route

- Ulaanbaatar-Sukhbaatar, Mongolia
- Kyakhta Ulan Ude, Russian Federation

Eastern route

Northern route

Western route

AH Class II standard: 2 lane road with asphalt or cement concrete pavement

Modernize in terms of equipment, layout and capacity the border crossings

Create needed inland logistics terminal capacity at Mongolia's section

Corridor soft infrastructure

Trilateral agreements				
Intergovernmental Agreement on International Road Transport along the Asian Highway Network	Moscow, 2016	Road transport		
Agreement between the Federal Customs Service (Russian Federation), General Administration of Customs of the People's Republic of China and Customs General Administration of Mongolia on Mutual Recognition of the Results of Customs Control on Selected Goods	Tashkent,	Customs cooperation		
Program for the establishment of China – Mongolia – Russia Economic Corridor	Tashkent, 2016	Infrastructure development, economic cooperation		
Memorandum of Understanding on Establishing a Trilateral Mechanism coordinating implementation of China-Mongolia-Russia Economic Corridor Program The Working Group held first meeting in 2020.	Qingdao, 2018	Corridor management, Infrastructure development, economic cooperation		

	Railway agreements		Road agreements
	Manway agreements		Modu agreements
1.	All CMREC counties are OSJD members	1.	All CMREC countries are parties to
2.	All CMREC counties implement CIM/SMGS		TIR convention
	Consignment Note	2.	All CMREC countries are parties to
3.	All CMREC counties signed TAR agreement		AH Agreement
4.	Mongolia has agreements on sea ports	3.	Founding parties to Agreements on
	access in China (1991) and Russian		international road transport on AH
	Federation (1992)		Network
5.	Mongolia and Russian Federation agreed	4.	All signed bilateral road agreements
	on transit of cargos by rail (2018)		
6.	China Railways and Russian Railways have		
	strategic cooperation agreement (2016)		

Customs cooperation

- 1. All signed respective Customs mutual assistance and cooperation agreements
 - Secure transit based on secure locking mechanism
 - Electronic exchange of data on goods, inspection results, etc., across borders
 - Mutual recognition of inspection results both on bilateral and trilateral basis
- 2. Work on four-country Authorized Economic Operators (AEO) mutual recognition scheme under the umbrella of the Greater Tumen Initiative
- 3. Bilateral mutual recognition of AEO status only between China Mongolia
- 4. Joint Customs Control at Erenhot (China)/ Zamyn Uud (Mongolia)

Issues

- 1. Joint Customs control limited to one border crossing
- 2. Lack of full scale single window services for international trade and respective ecosystem in Mongolia limits digitalization of business processes in international transport across CMREC at full length

For instance, this might limit opportunities for UBTZ to join INTERTRAN endeavor of Russian Railways, UIC and ESCAP, that interfaces and interlinks all the information systems involved across service providers at all modes involved, at all controlling authorities involved and businesses to provide single intermodal digital product.

3. Limitations in use of electronic signatures in Mongolia cause some documents to be issued in both hard copies and digital form (ex., for empty wagons exchange at border with the Russian Federation)