

DEVELOPMENT OF TRANSPORT AND LOGISTICS NETWORK IN MONGOLIA RELATED TO THE GTI TRANSPORT CORRIDORS

By Prof. Gotov Dugerjav, Dr.Sc

School of Mechanical Engineering and Transportation

Mongolian University of Science and Technology

IMPROVEMENTS OF TRANSPORT AND LOGISTICS NETWORK IN GTI CORRIDORS RELATED TO MONGOLIA

“Connectivity for Future growth in Mongolia” TA project final report was prepared in 2016, ADB. This report determined all needs for transport investment projects including GTI corridors;

FS and FEED on Khuut-Nomrog (Sumber) railway project have been completed;

FEED Railway section: Sainshand-Baruun Urt-Khuut-Bichigt was completed in 2014;

FEED on reconstruction of the existing rail track: Choibalsan-Ereentsav has been completed;

Demonstration project on international road freight transportation from Tianjin Port via Ulaanbaatar to Ulan-Ude took place in 2016;

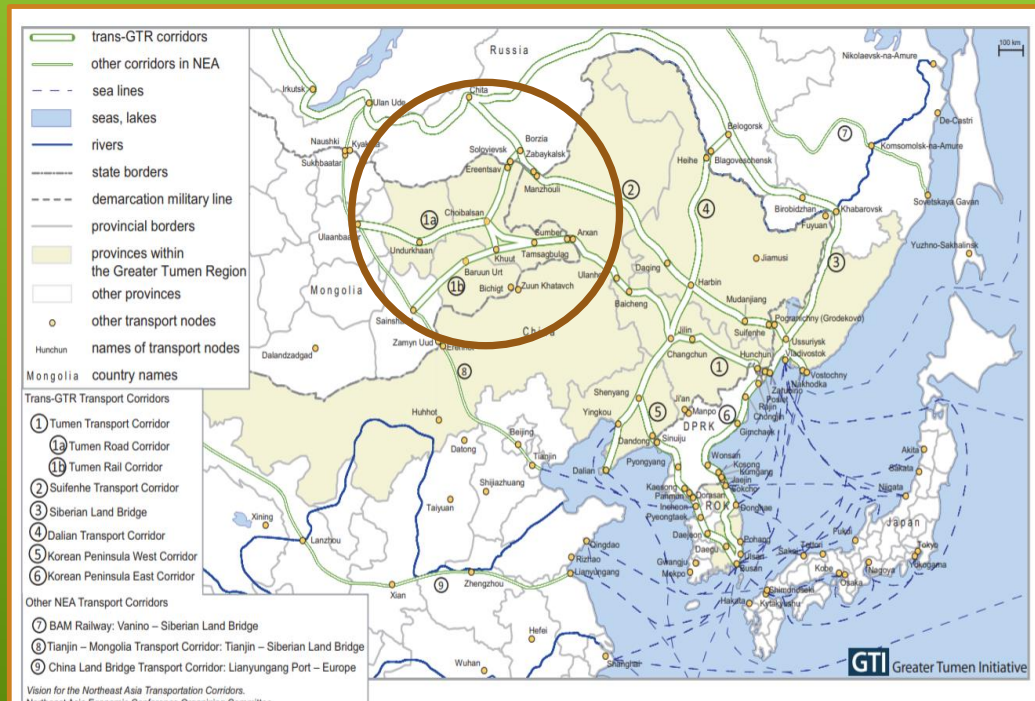
Construction of the road section: Ulaanbaatar-Undurkhaan-Choibalsan was completed in 2017

Construction of the Regional logistics center funded ADB in BCP Zamyn Uud was completed in 2018.

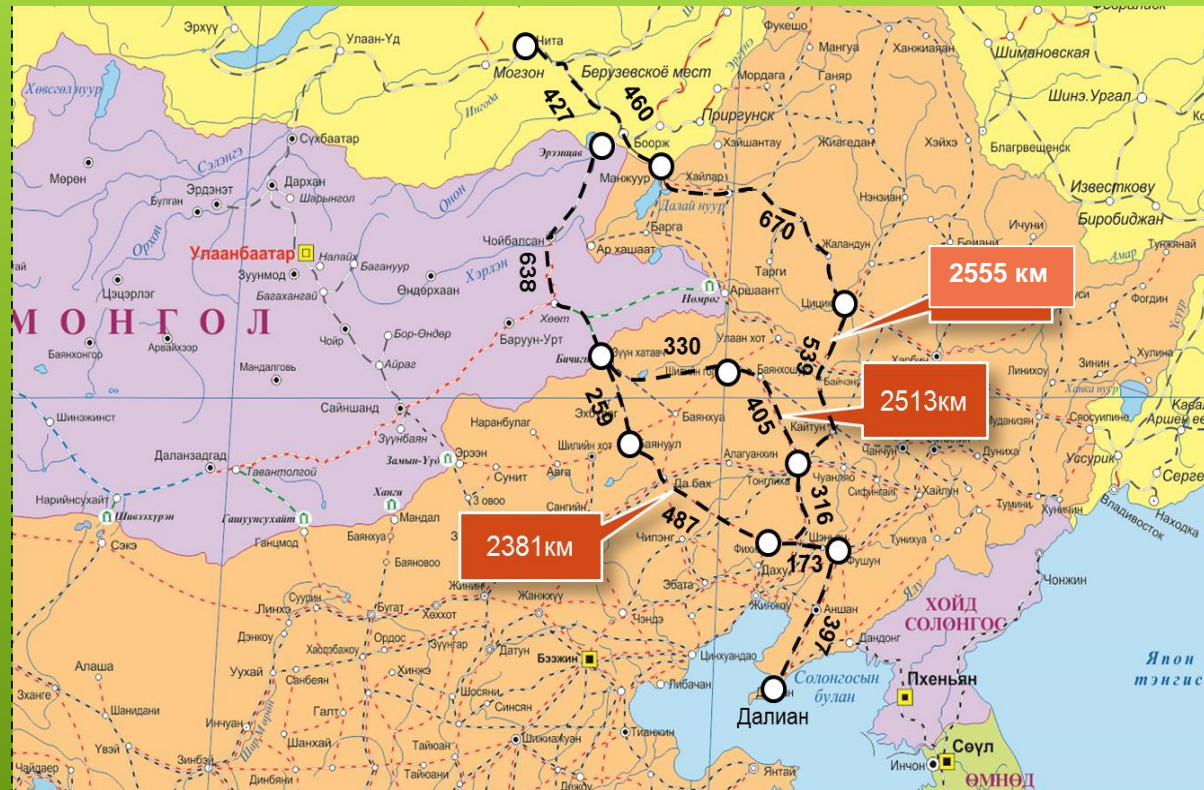
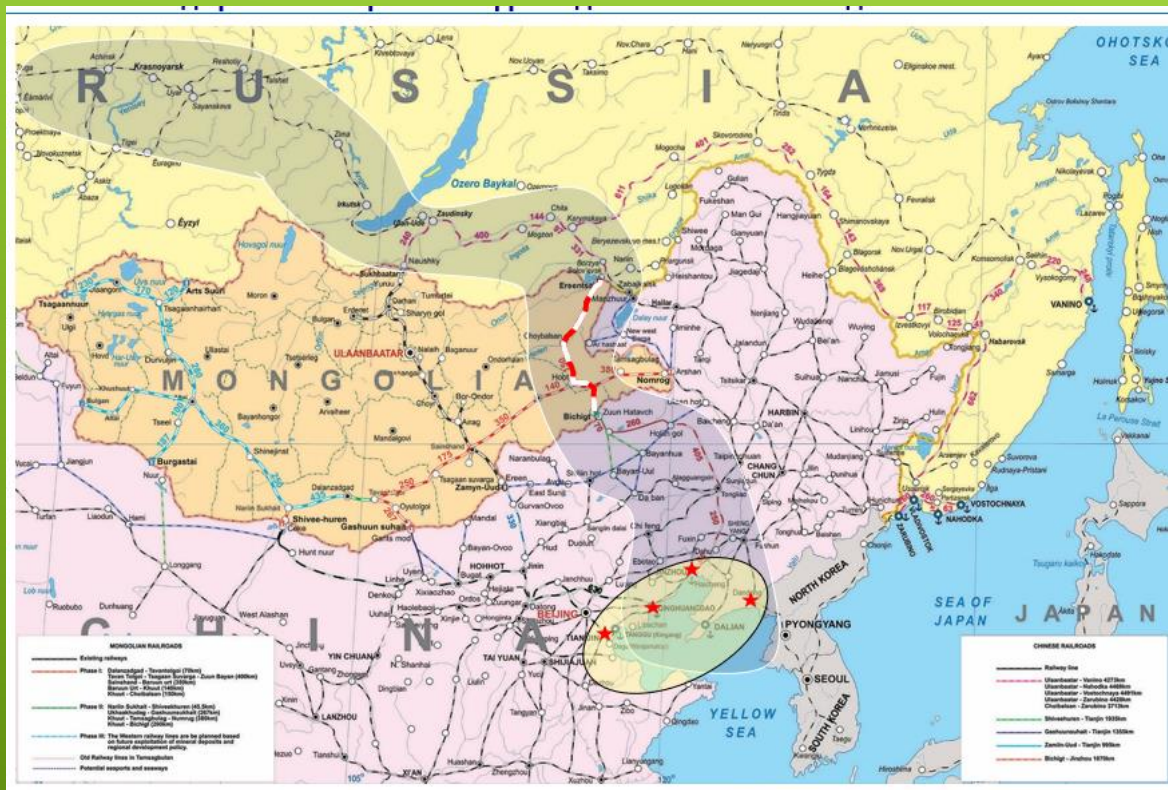
IMPROVEMENTS OF THE TRANSPORT AND LOGISTICS NETWORK IN GTI CORRIDORS IN MONGOLIA

GTI corridor

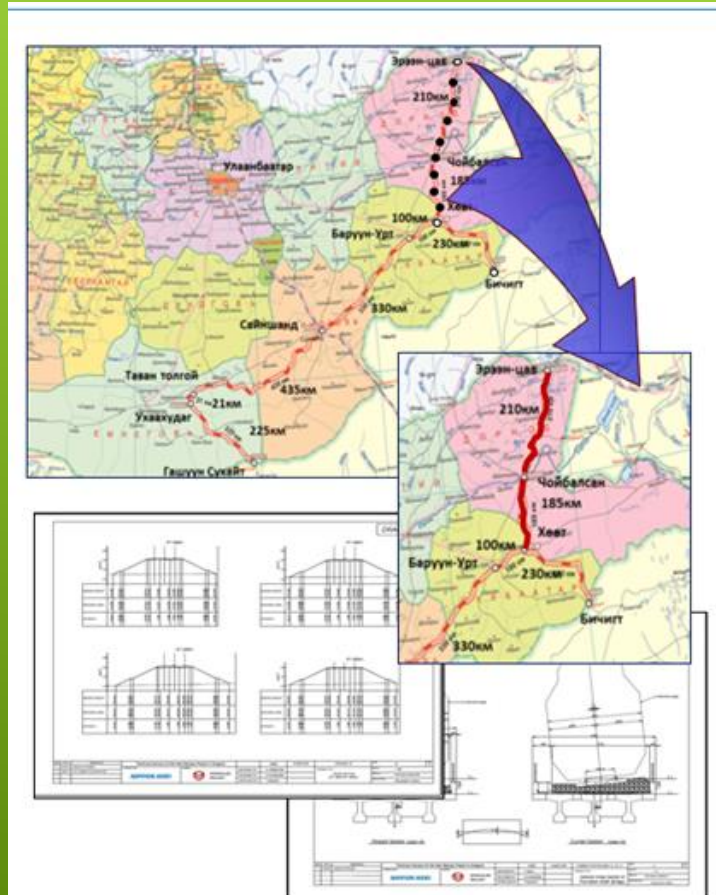
Improvements of the Routes



EREENTSAV-CHOIBALSAN-KHUUT-BICHIGT RAIL LINE FOR TRANSIT TRANSPORTATION



EREENTSAV-CHOIBALSAN-KHUUT RAIL LINE DESIGN



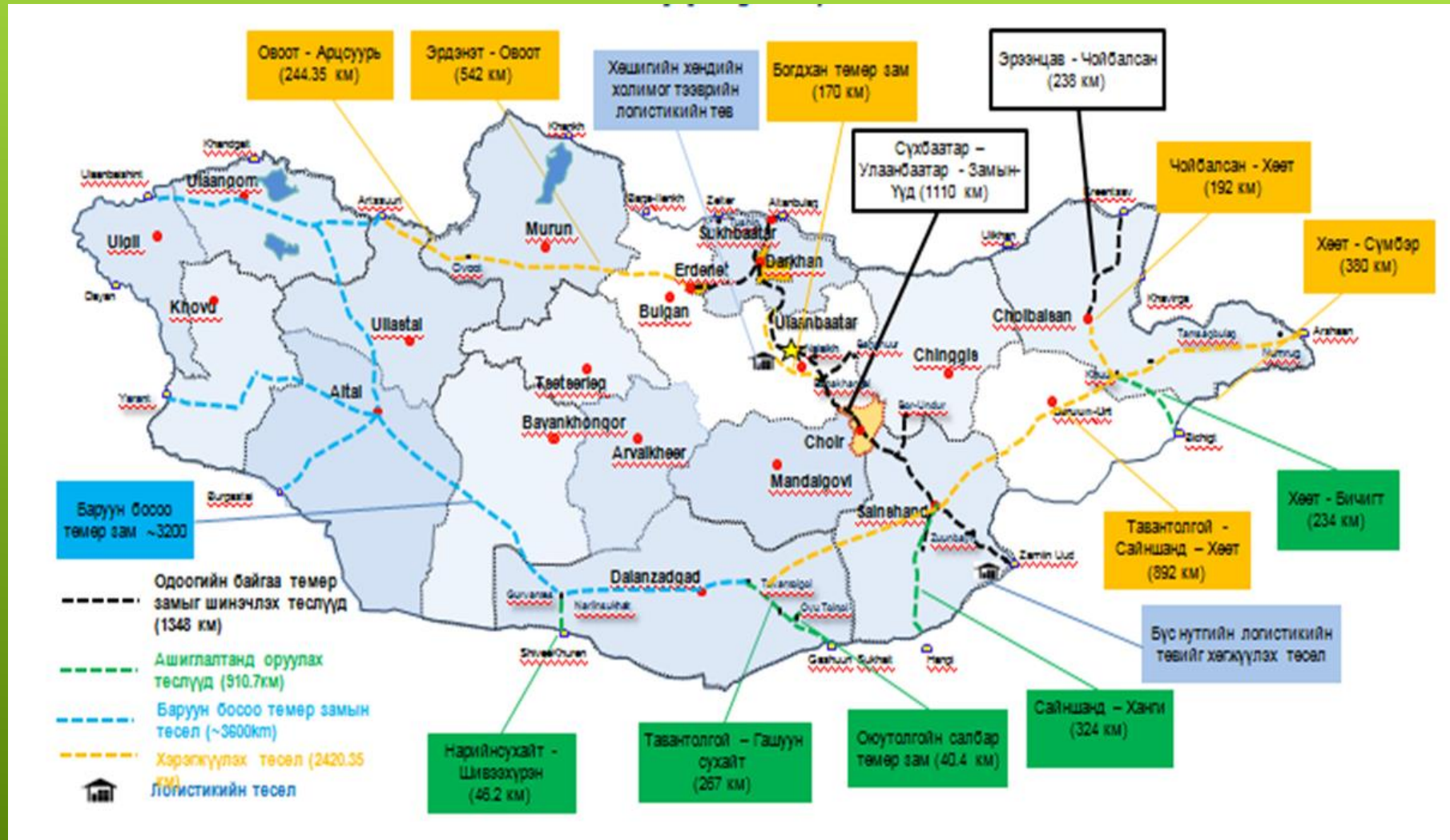
- ▶ Consultant - Nippon Koei
- ▶ Ereentsav-Choibalsan-Khuut rail line- (414 km)
- ▶ Total cost: ~1.98 billion USD
- ▶ Construction cost of rail line-1198.9 mln USD
- ▶ Signaling and energy cost-212.9 mln.USD
- ▶ Rolling stock and facilities -566.5 mil. USD
- ▶ Project implementation time – 4 years
- ▶ 2 terminal stations (Ereentsav-Khuut)
- ▶ 8 sidings
- ▶ 307 culverts
- ▶ 25 bridges (5240 m)
- ▶ Axle load – 25 tons
- ▶ Technical design completed - 100%

KHUUT-BICHIGT RAIL LINE-FEASIBILITY STUDY:

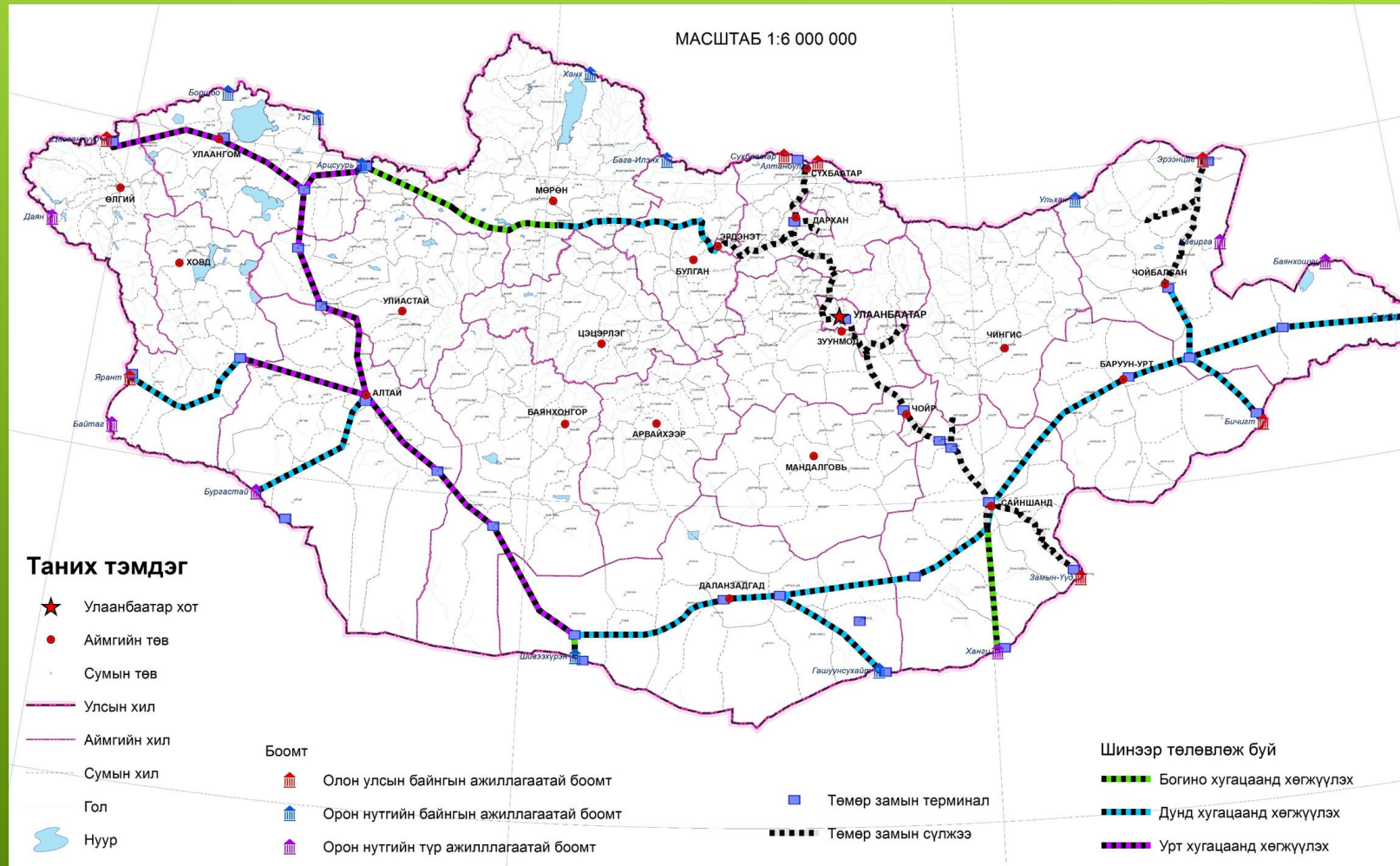


- Technical consultant – “China railway design bureau No 3
- Khuut-Bichigt (234 km)
- Cost: ~1.25 billion USD (preliminary calculation)
- Implementation period: 2.5 years
- 2 terminal stations (Khuut-Bichigt)
- 9 sidings
- 13 bridges (10117 m)
- Axle load – 25 tons
- Capacity: Khuut-Bichigt 12-15 mil.tons per year

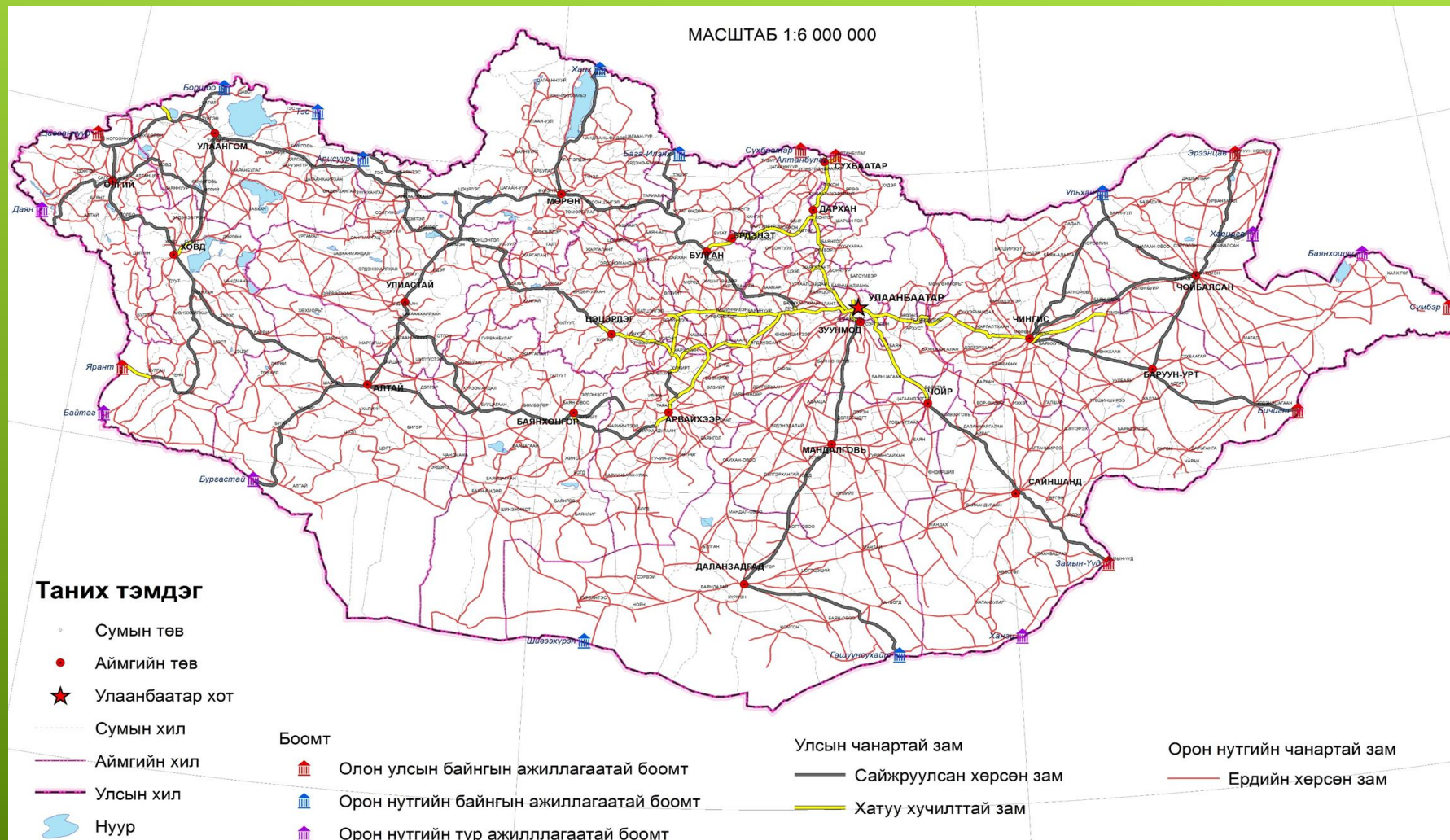
RAILWAY NETWORK DEVELOPMENT PROJECTS



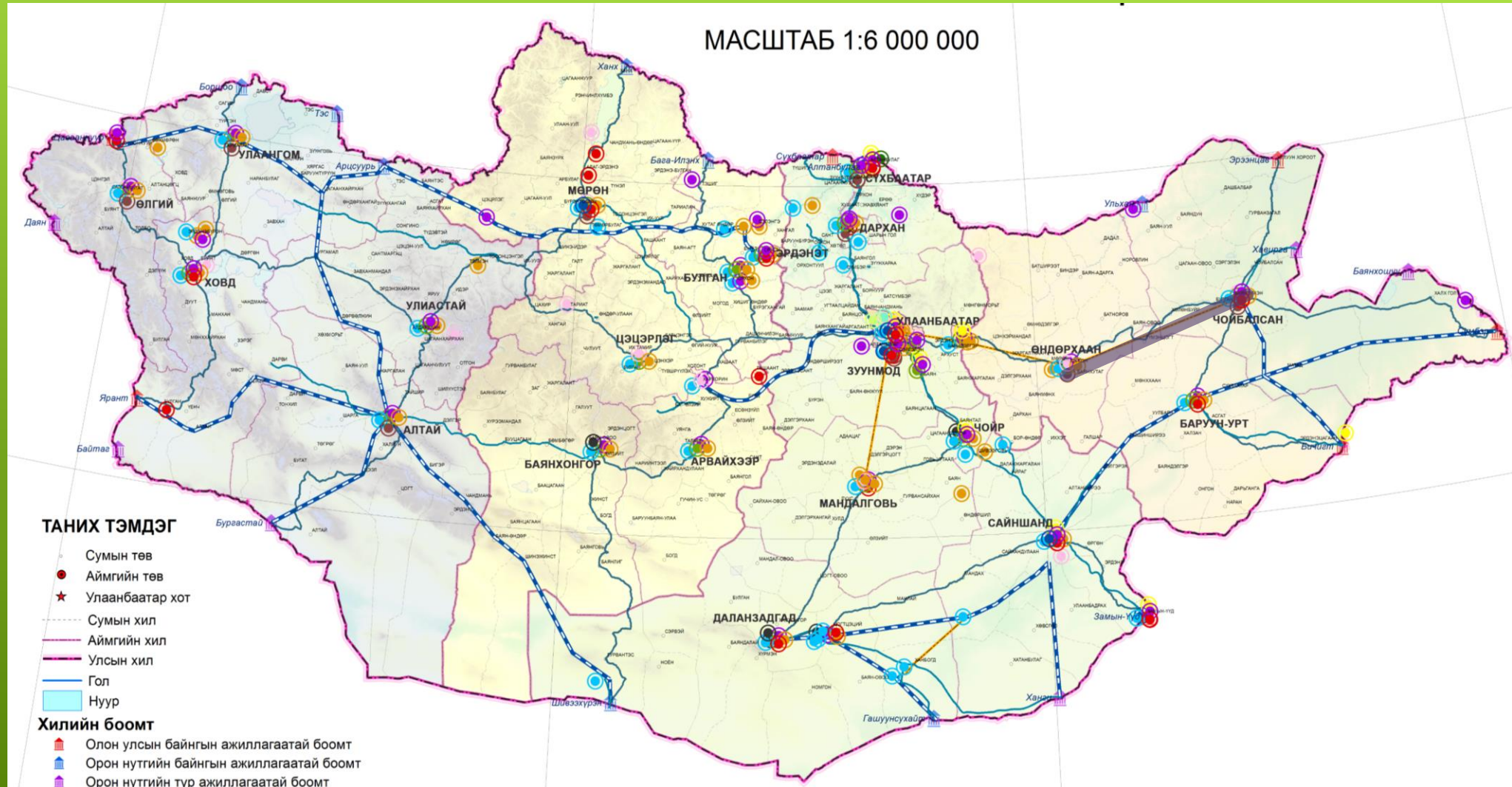
RAILWAY NETWORK DEVELOPMENT PLAN



CURRENT ROAD NETWORK OF MONGOLIA



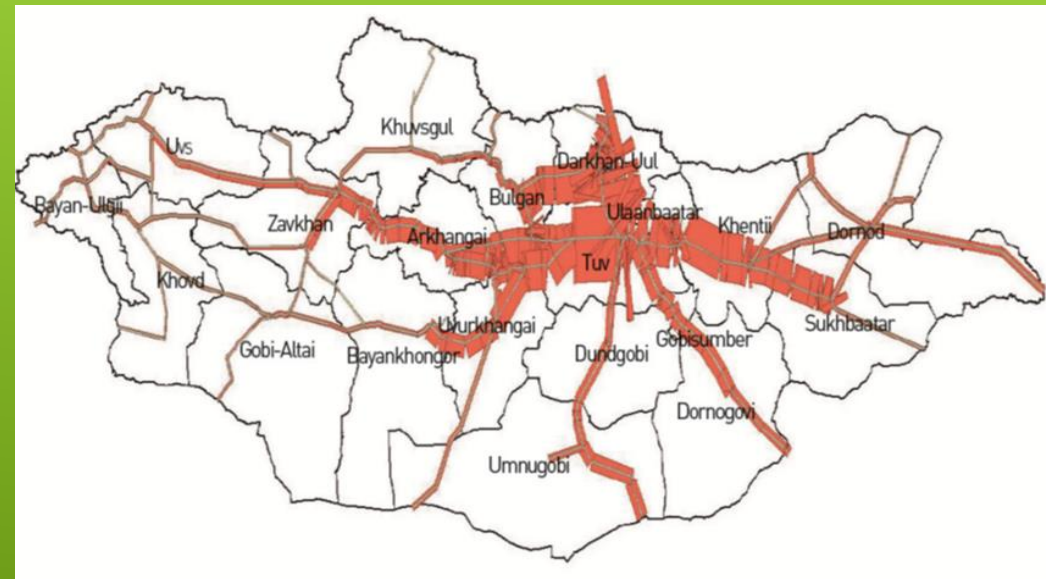
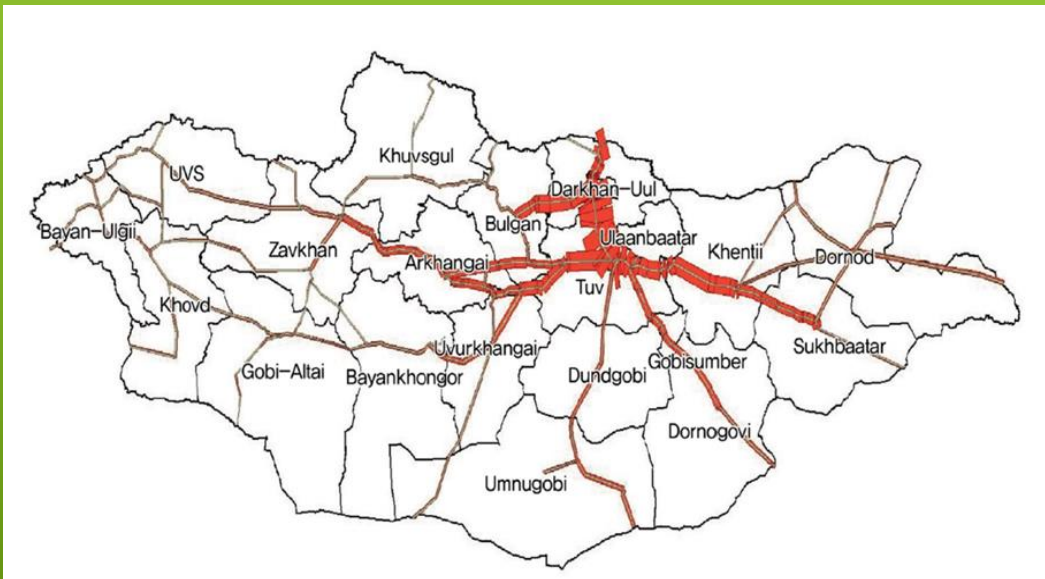
ROAD CONSTRUCTION FROM UNDURKHAAN TO CHOIBALSAN- COMPLETED



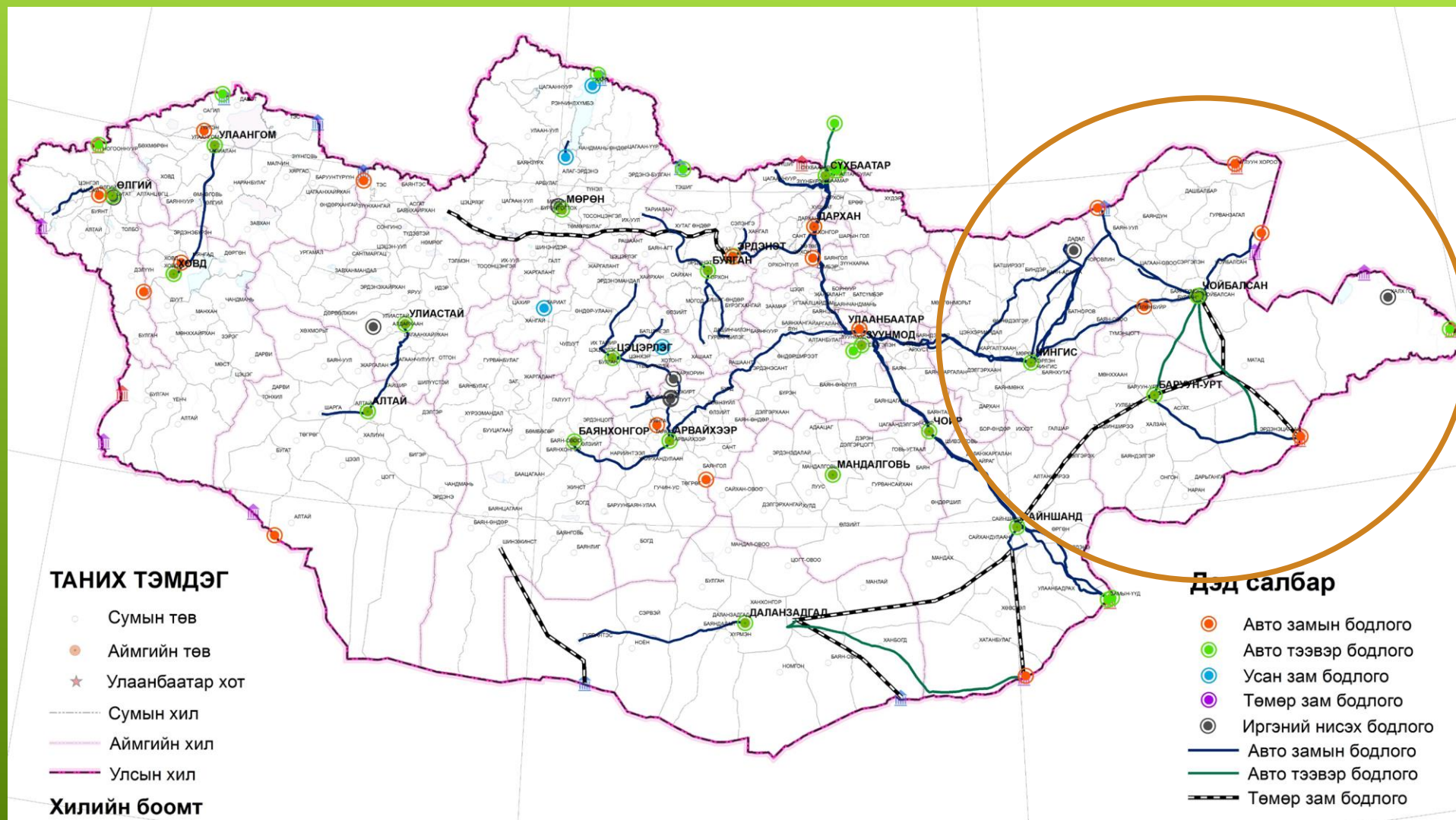
TRAFFIC BY ROAD (AADT):

ACTUAL-2018

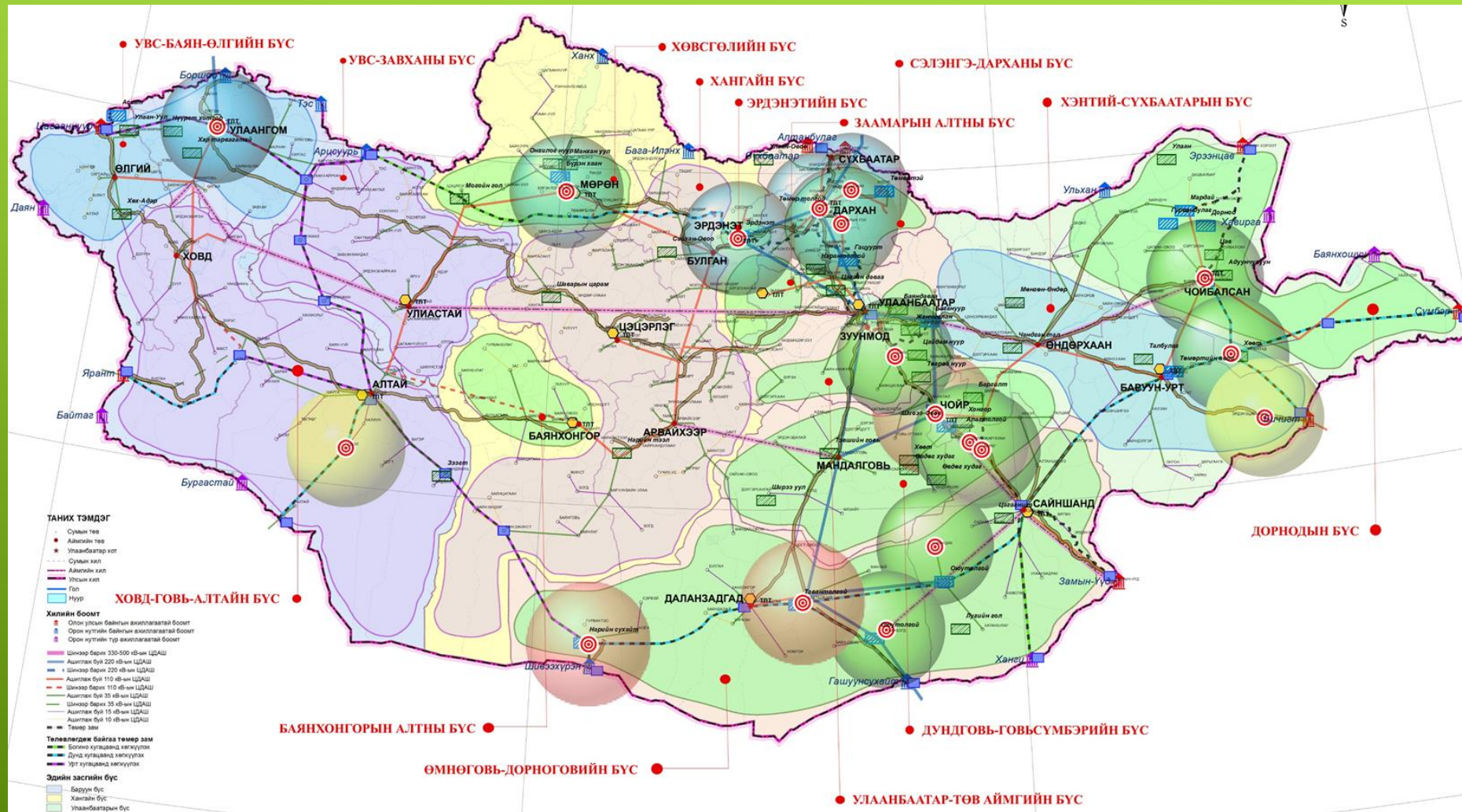
FORECAST-2030



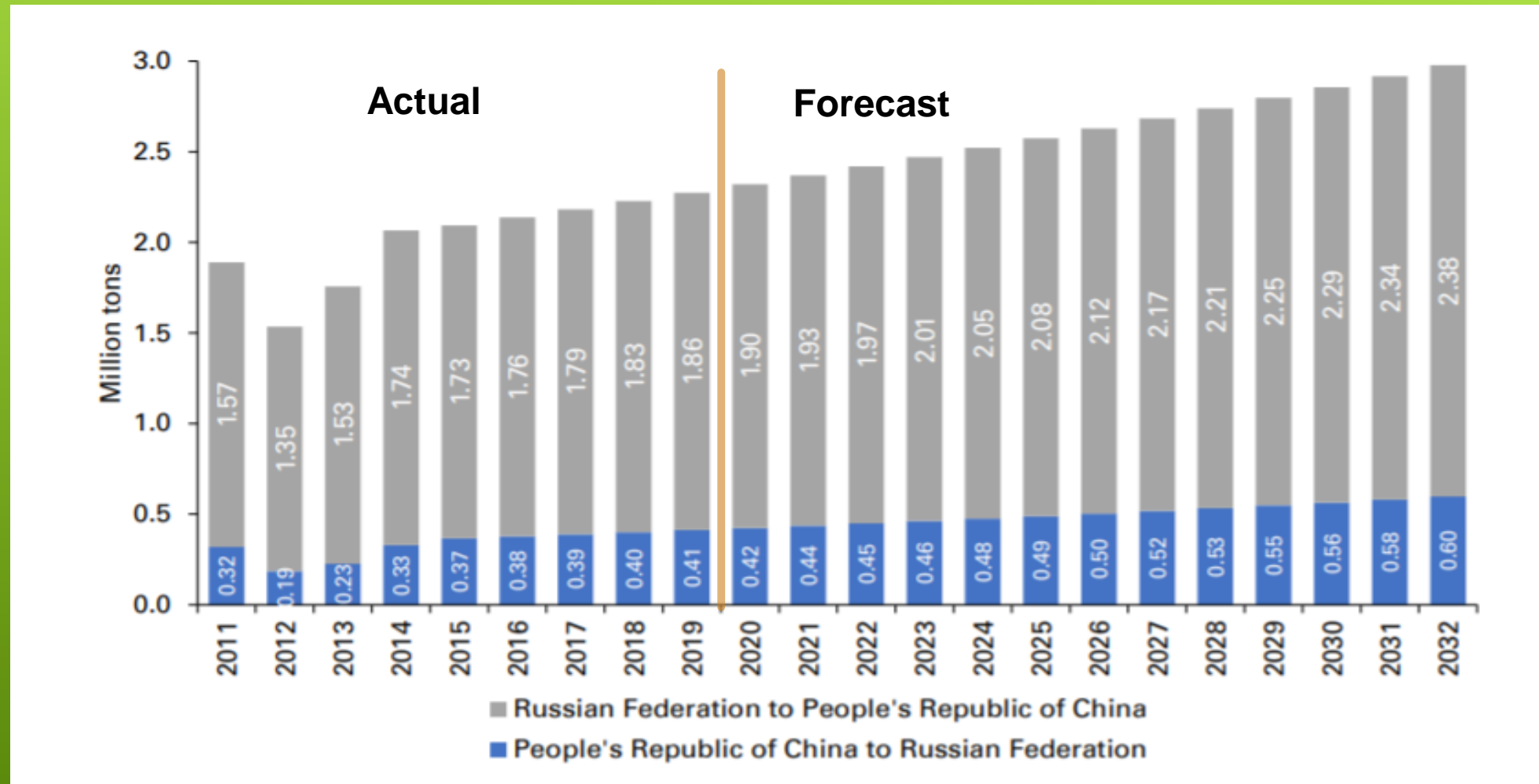
ROAD NETWORK FUTURE DEVELOPMENT POLICY



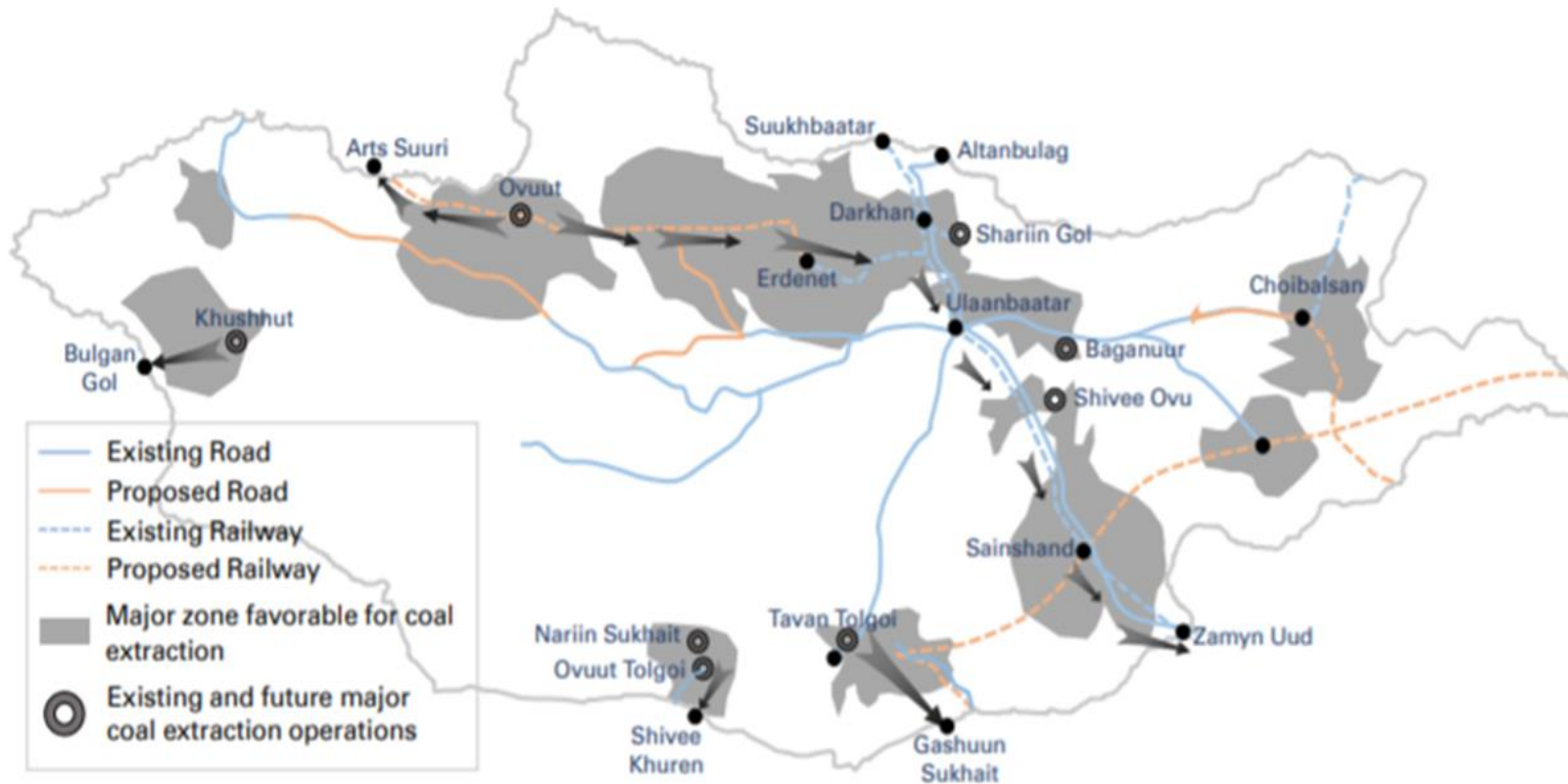
MINING AND HEAVY INDUSTRY DEVELOPMENT PLAN



TRANSIT TRAFFIC FORECAST TROUGH MONGOLIA

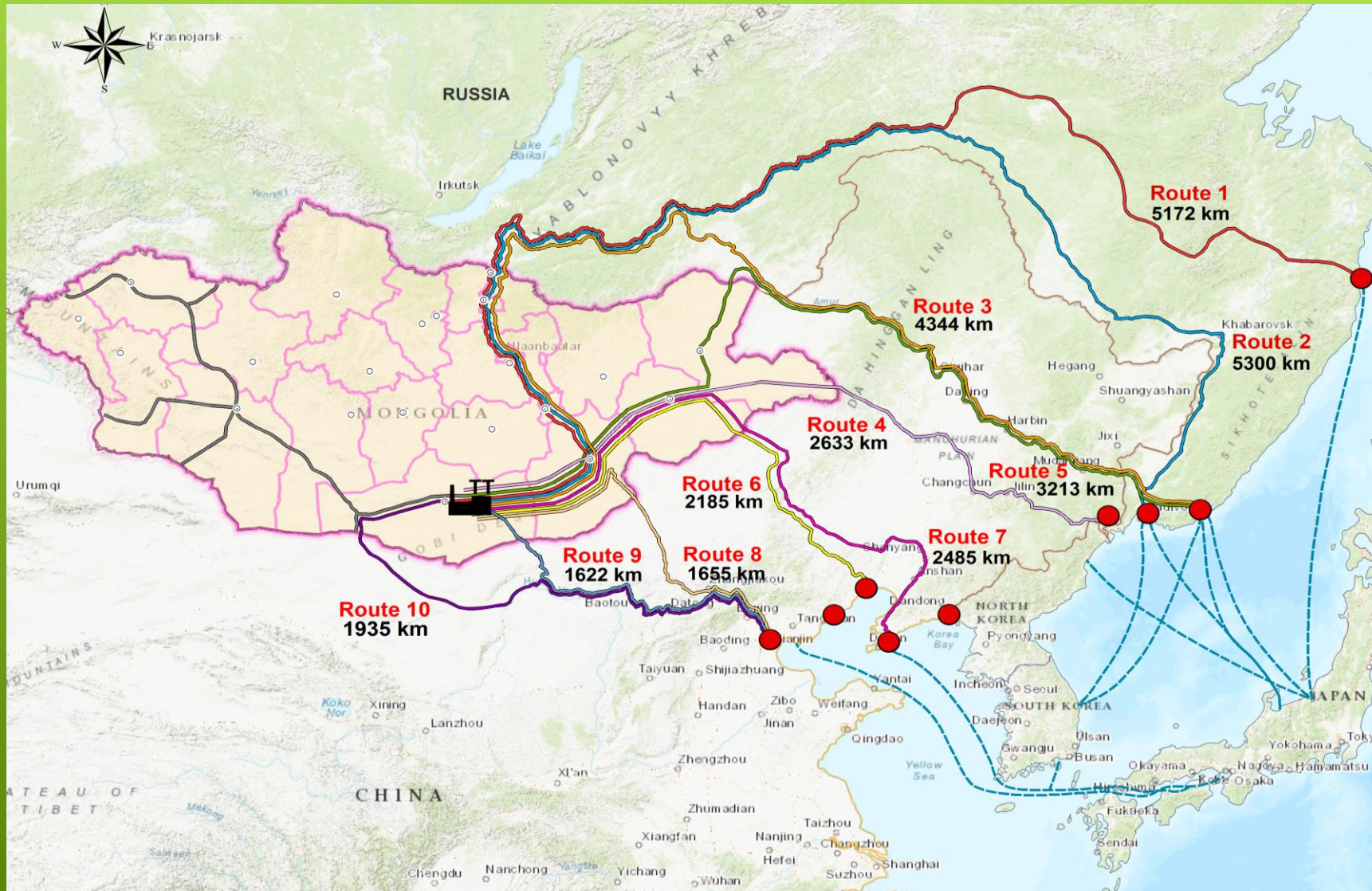


COAL EXPORT FROM MONGOLIA

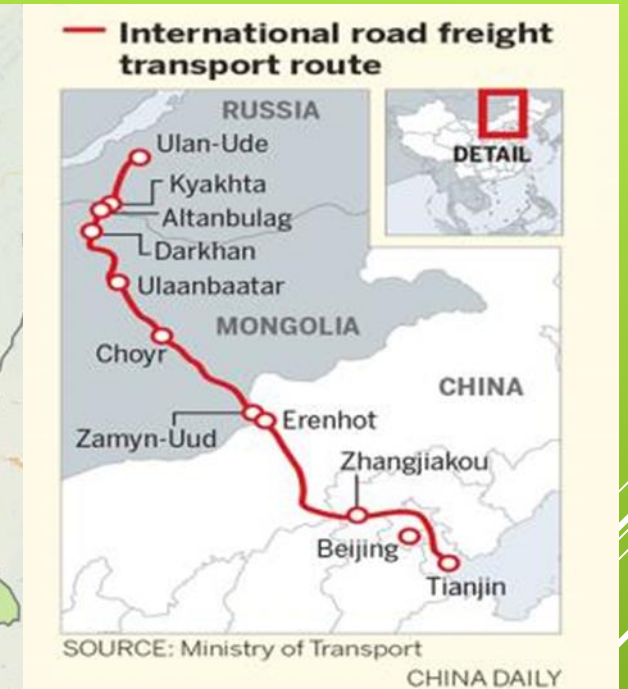


Years	2017	2020	2023	2026	2029	2032
Coal export from Mongolia , million tons	17.067	19.402	27.558	32.398	38.253	42.412

POTENTIAL TRANSPORT CORRIDORS TO REACH TO SEA PORTS



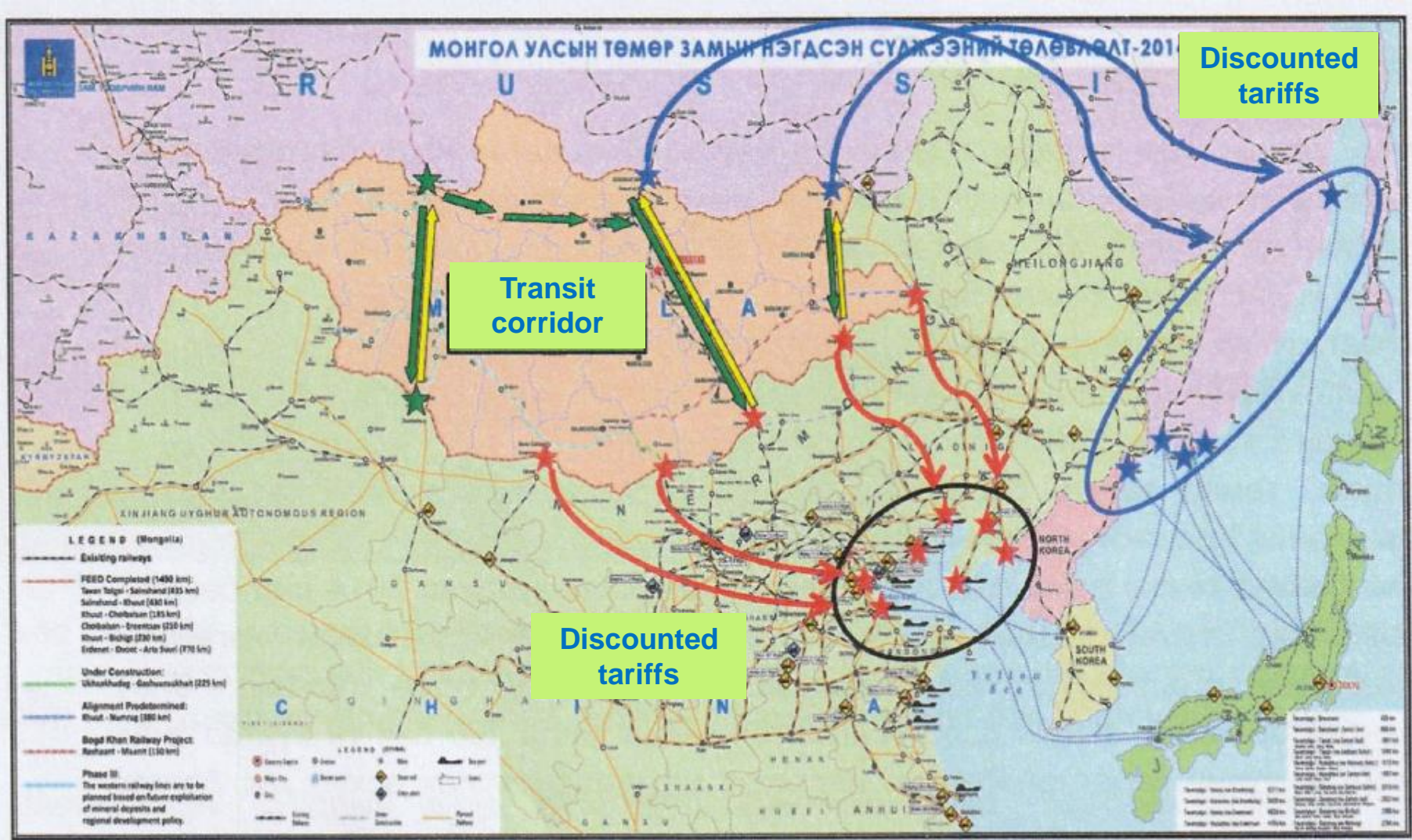
INTERNATIONAL ROAD TRANSPORT CORRIDORS



Test transportation was successfully carried out from Tianjin to Ulan-Ude on August 18-25, 2016

Trip of 7 days distance of 2,152 kms through 11 cities including Chinese BCP- Erenhot, Ulaanbaatar – capital city of Mongolia, and Russian city-Ulan-Ude

RAILWAY CORRIDORS TO SEA PORTS

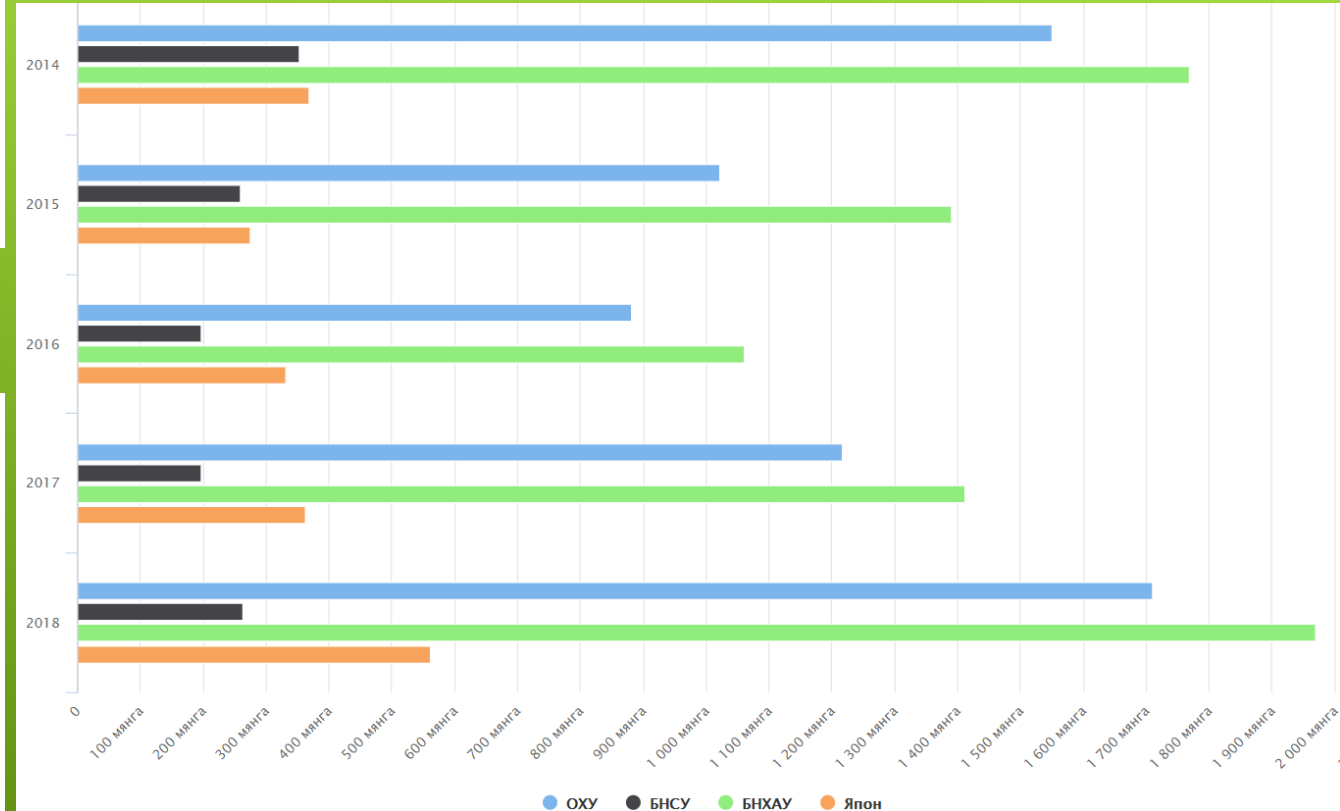


EXPORT AND IMPORT OF MONGOLIA

External trade (import and Export) by countries,
thousand USD, 2018

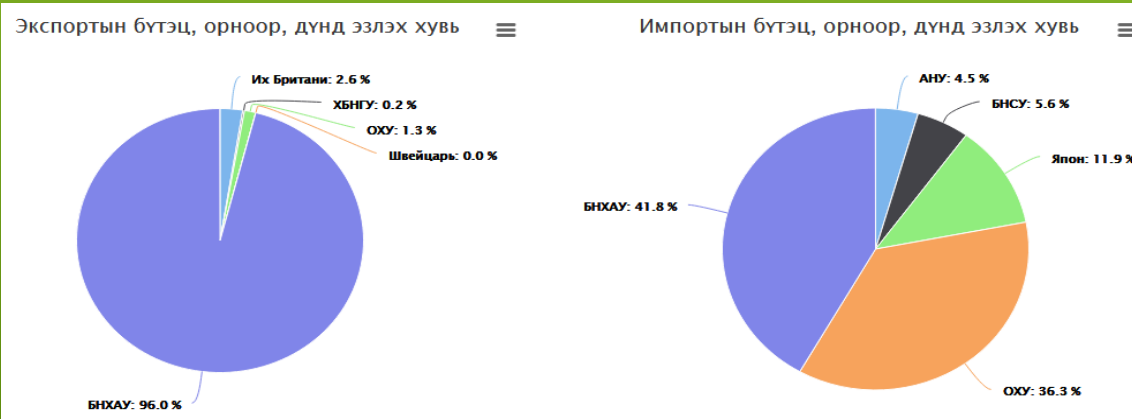
	Mongolia's Import from	Russia Federation	China	S.Korea	Japan
Mongolia's Export to		85,937.4	6,505,528.3	21,200.4	26,468.5
Russian Federation	1,710,347.3				
China	1,969,050.2				
S.Korea	262,365.9				
Japan	561,042.6				

Import by countries between 2014-2019,
thousand USD

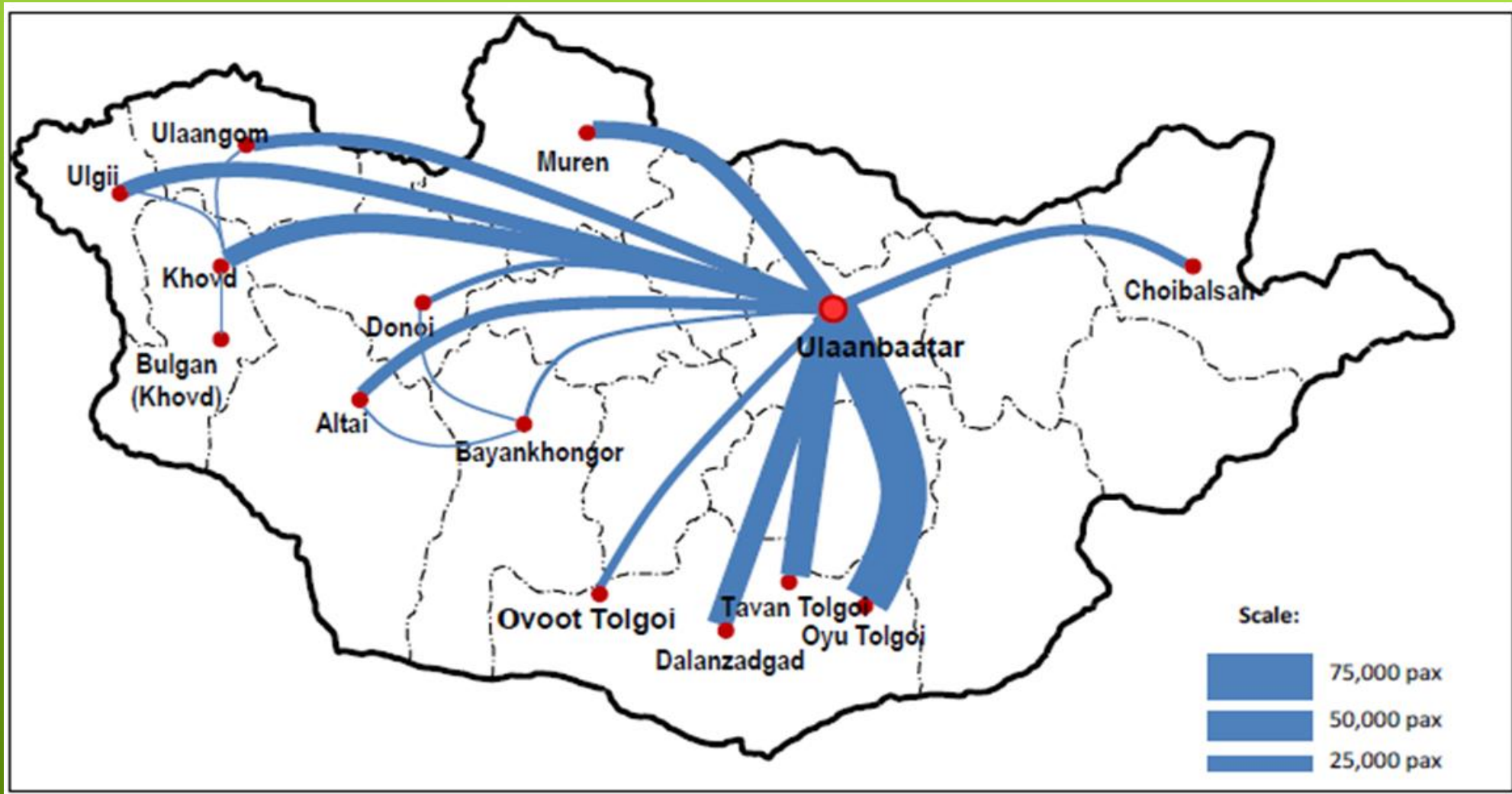


Export by countries.%

Import by countries, %



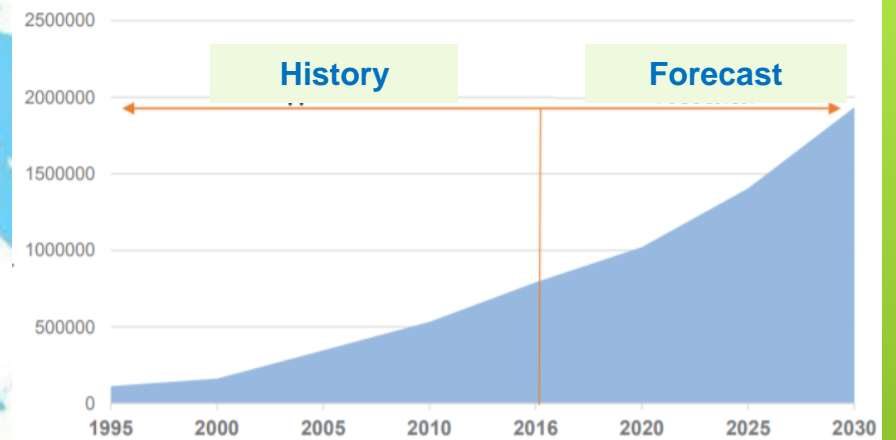
DOMESTIC FLIGHTS IN MONGOLIA



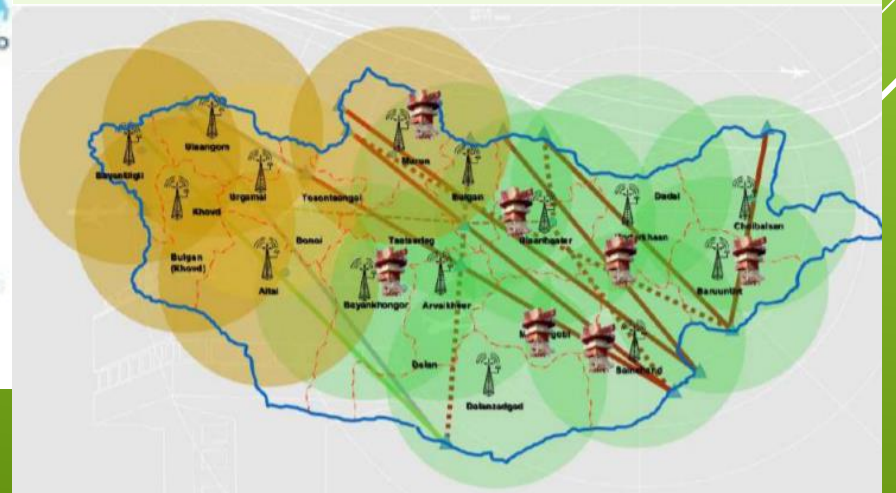
INTERNATIONAL FLIGHTS



Number of international passengers



Air navigation services for overflights



ULAANBAATAR NEW AIRPORT

Location



View of New Airport

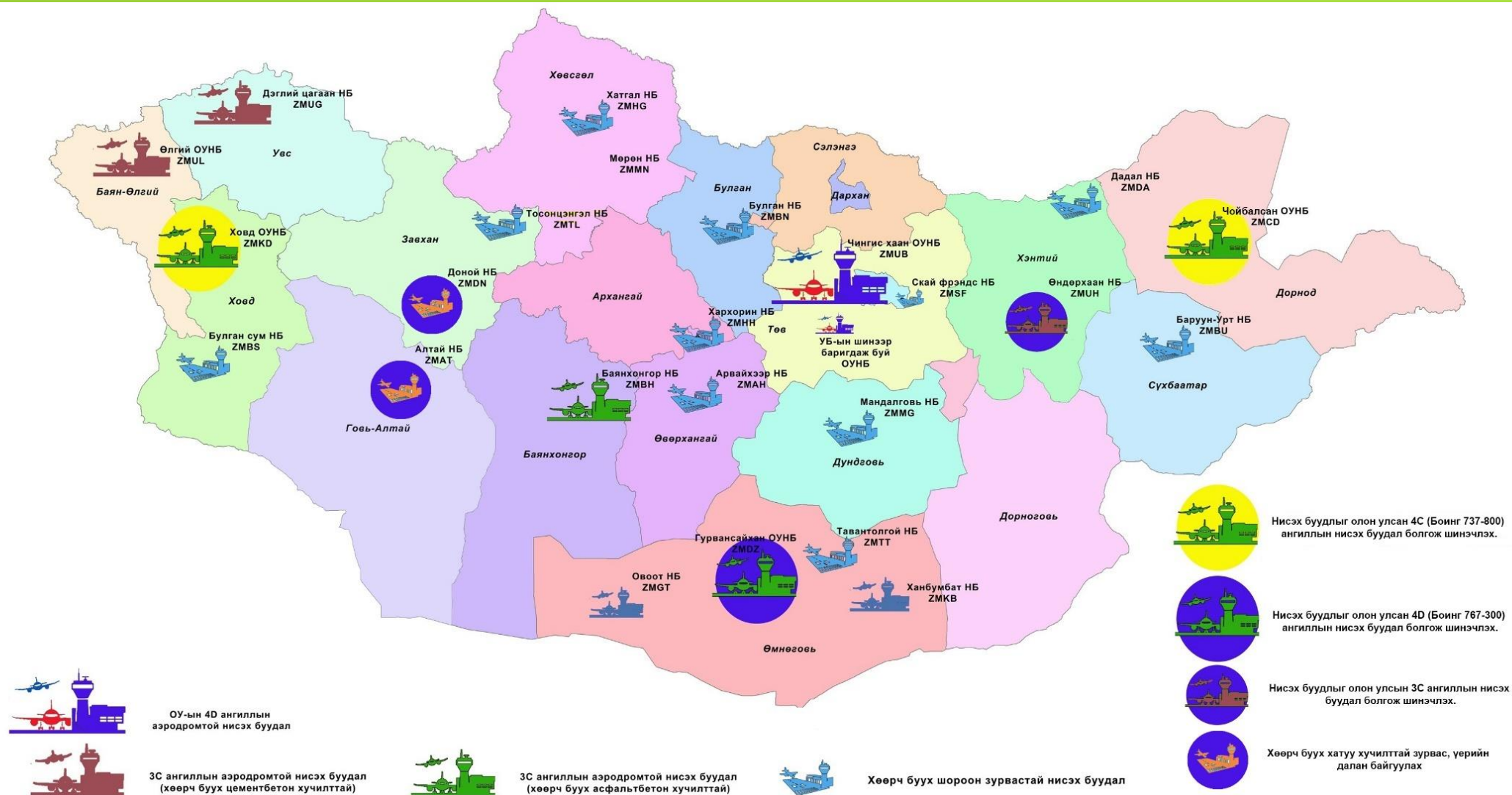


Passenger service terminal

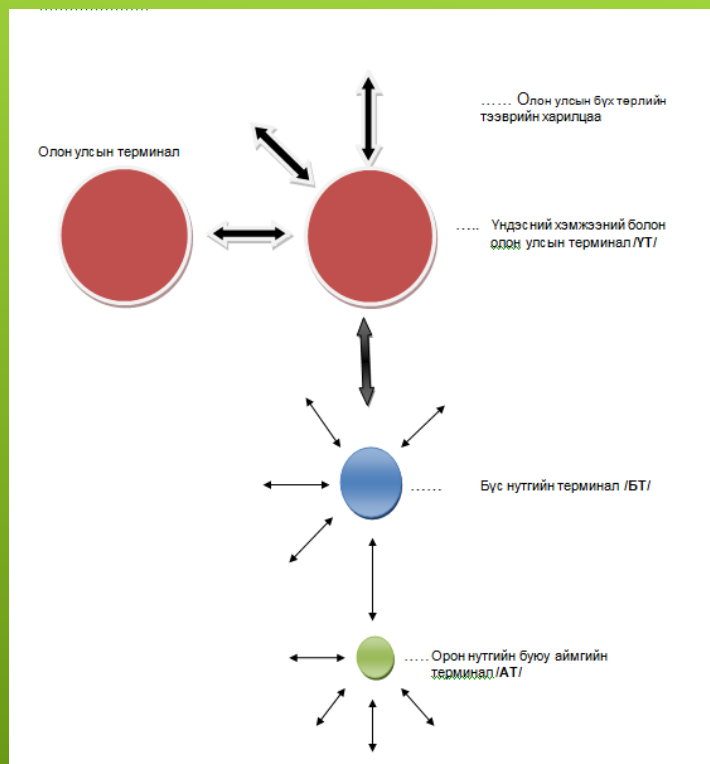
Flight Navigation center



EXPANSION PLAN OF THE AIRPORTS



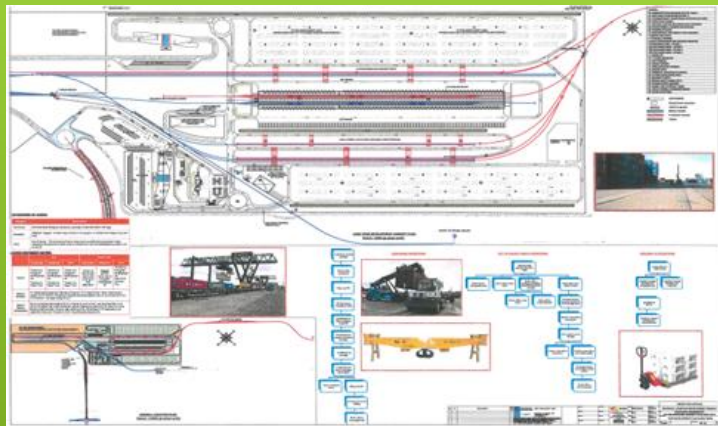
PLAN FOR LOGISTICS CENTERS IN MONGOLIA



- International multimodal logistic centers
- Provincial or aimags terminal
- Local or factory freight terminals

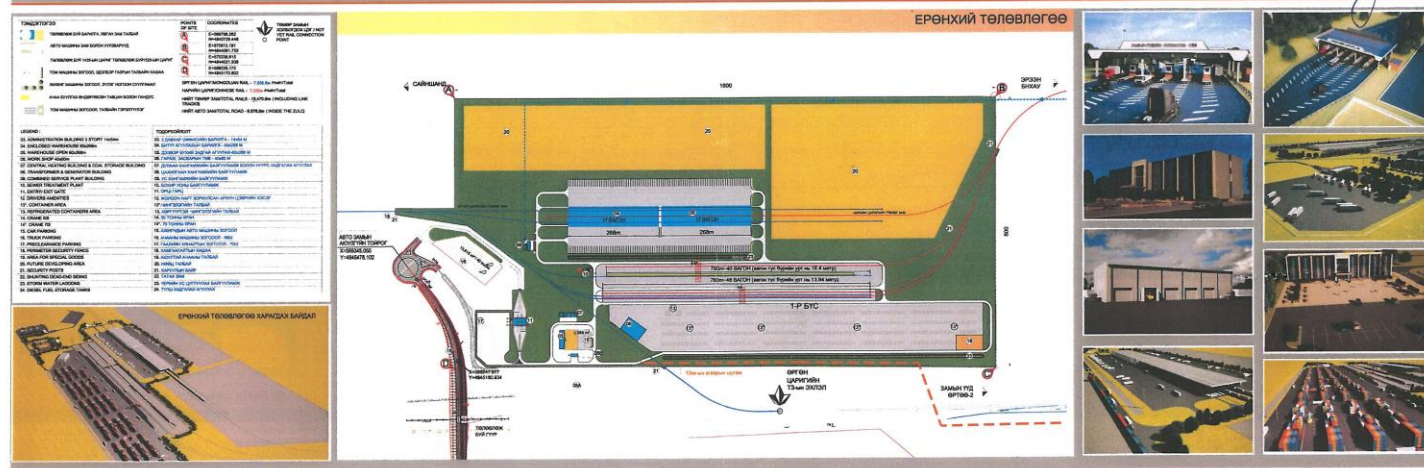
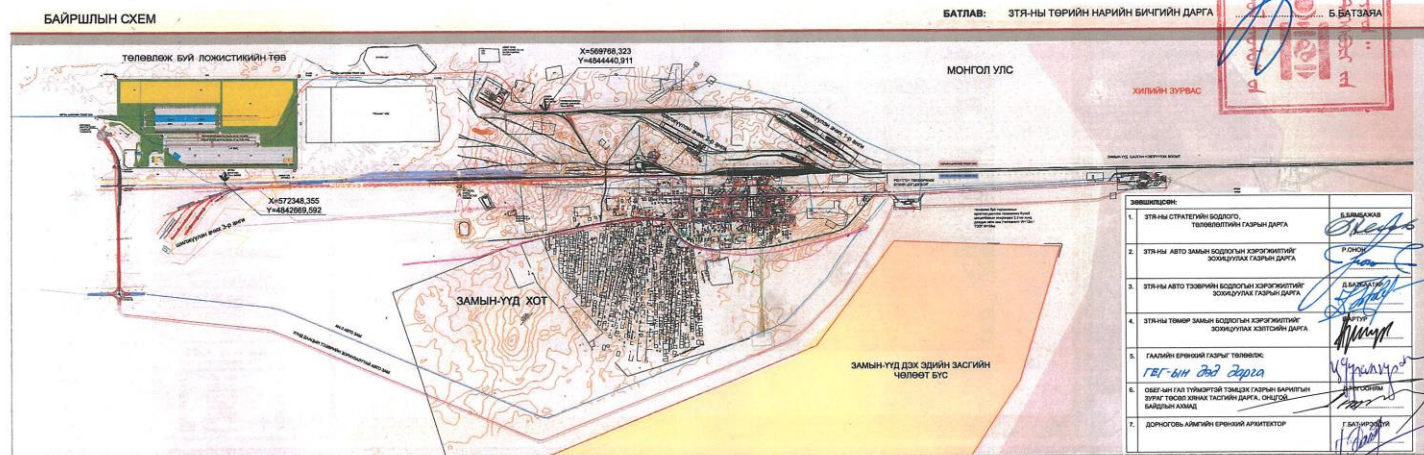
- Mining products logistics
- Non-mining products logistics

MULTIMODAL LOGISTICS CENTER IN ZAMYN-UUD-PUT INTO OPERATION IN 2018



Project Number:	L2719/G0240-MON
Project Title:	"Regional Logistics Development Project" (RLDP)
Beneficiary:	Government of Mongolia
Implementing Agency:	Ministry of Road and Transport Development (MRTD)
Total cost:	US\$ 71.6 million
Government of Mongolia	US\$ 26.64 million
Asian Development Bank /ADB/	US\$ 45.00 million
1. Loan	US\$ 40.00 million
1. Grant	US\$ 5.00 million
Approval Date	January 03, 2011
Effective Date	April 03, 2011
Closing Date (original)	Dec 31, 2019

БҮС НУТГИЙН ЛОЖИСТИКИЙН ТӨВИЙГ ХӨГЖҮҮЛЭХ ТӨСӨЛ ДОРНОГОВЬ АЙМАГ, ЗАМЫН-ҮҮД СУМ

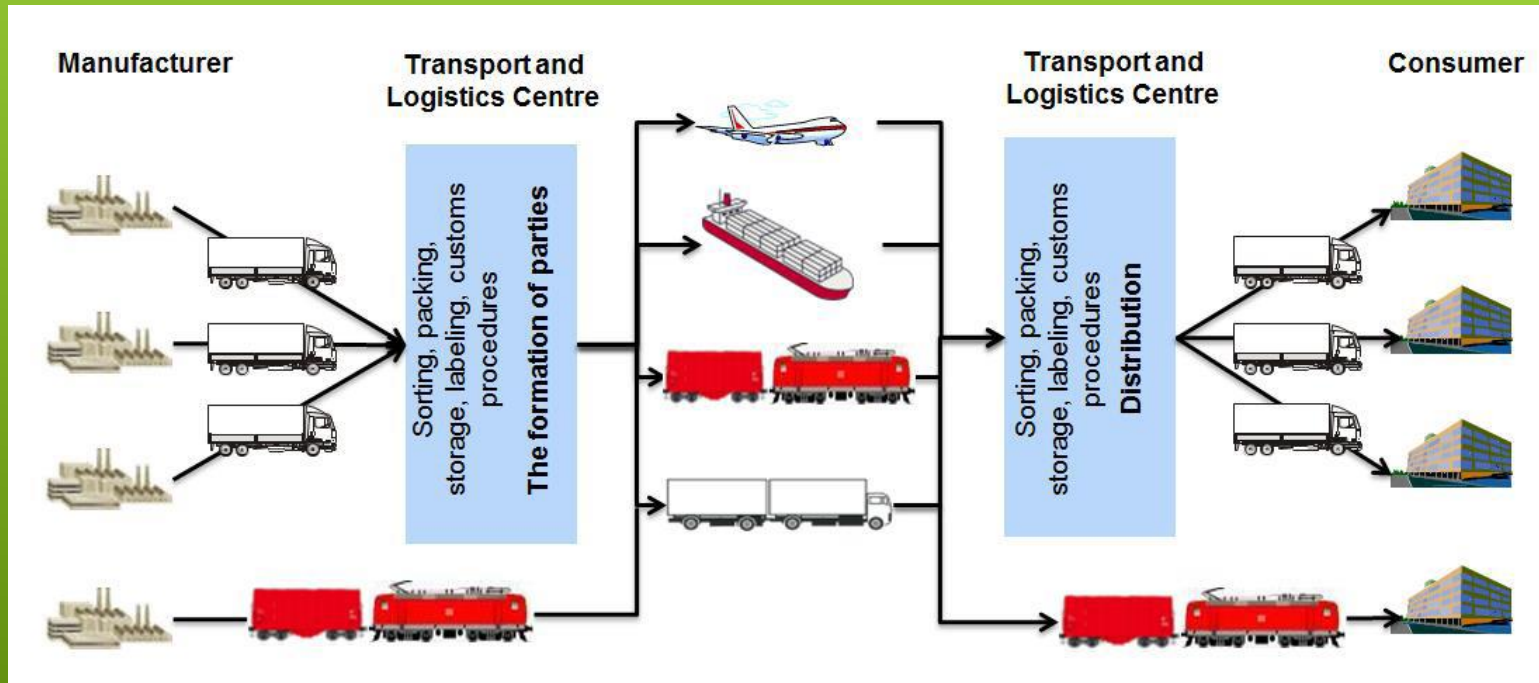


MULTIMODAL LOGISTICS CENTER IN ZAMYN-UUD



VALUE CHAINS AND LOGISTICS NETWORKS

Transport & Logistics network



Value chains



Approach: Three steps

1. Analyze Activities
2. Analyze Value Created by Those Activities
3. Determine How to Create Additional Value

Conclusions:

Projects required investment and financing:

- **Completion of the Reconstruction of road section: Altanbulag-Darkhan-Ulaanbaatar-Choir-Sainshand-Zamyn Uud (about 1000 km)**
- **Modernization of the UBTZ (Central corridor-1110 km)**
- **Construction of railway line “Khuut-Bichigt” (234 km)**
- **Construction of railway line “Zuunbayan-Khangai” (281 km)**
- **Construction of railway line “Choibalsan-Khuut” (192 km)**
- **Bogdkhan by-pass railway line (174 km)**
- **Reconstruction of the existing railway line “Ereentsav-Choibalsan” (238 km)**
- **Establish Logistics centers in Ulaanbaatar, Choir, Sainshand, Altanbulag and other bigger cities.**

“Land locked Mongolia to Land linked Mongolia”

THANK YOU FOR YOUR ATTENTION!

