



**MINISTRY OF ROAD, TRANSPORT,  
CONSTRUCTION AND URBAN DEVELOPMENT**

***Development projects in  
Road, transport sector***

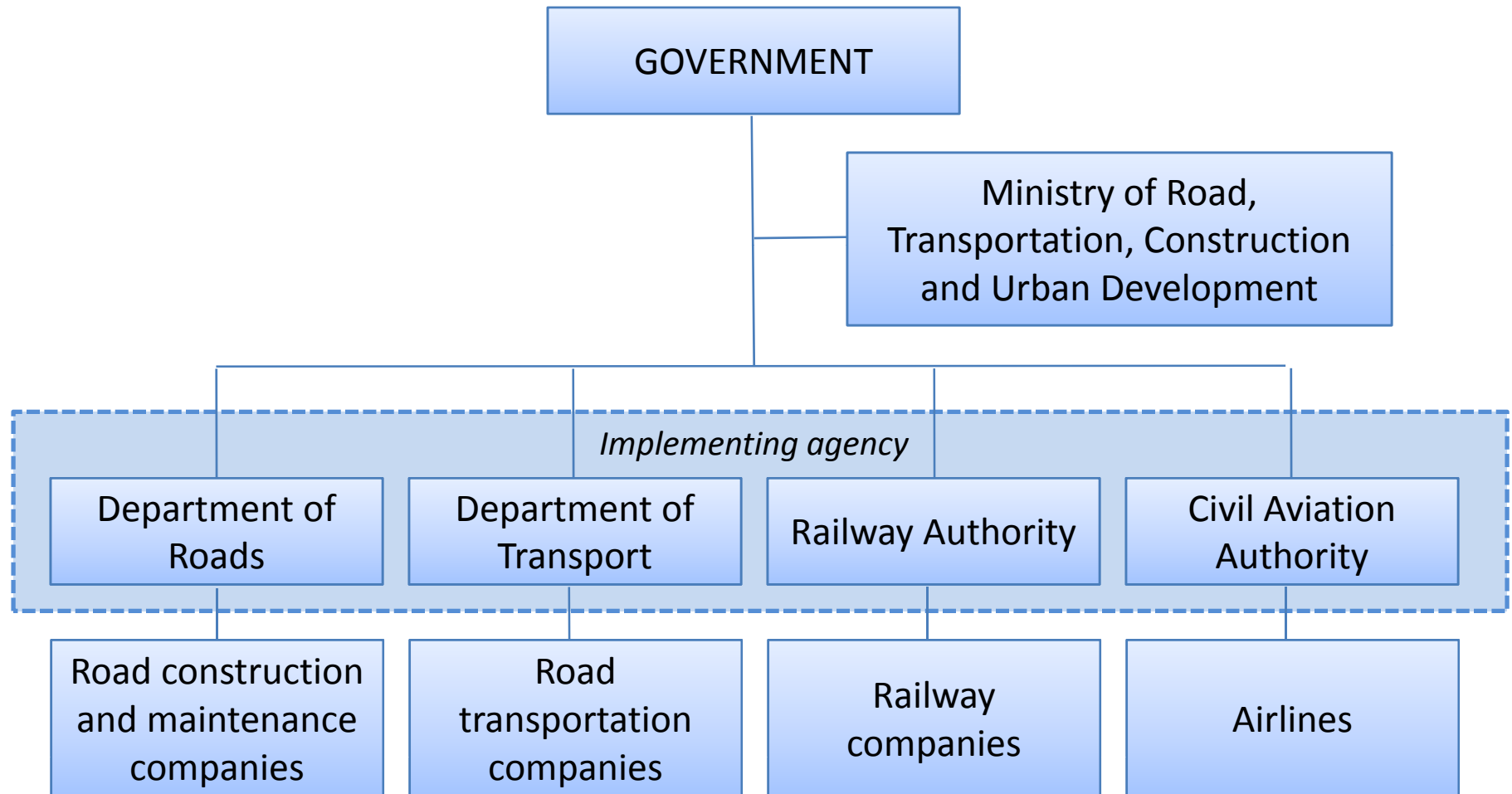
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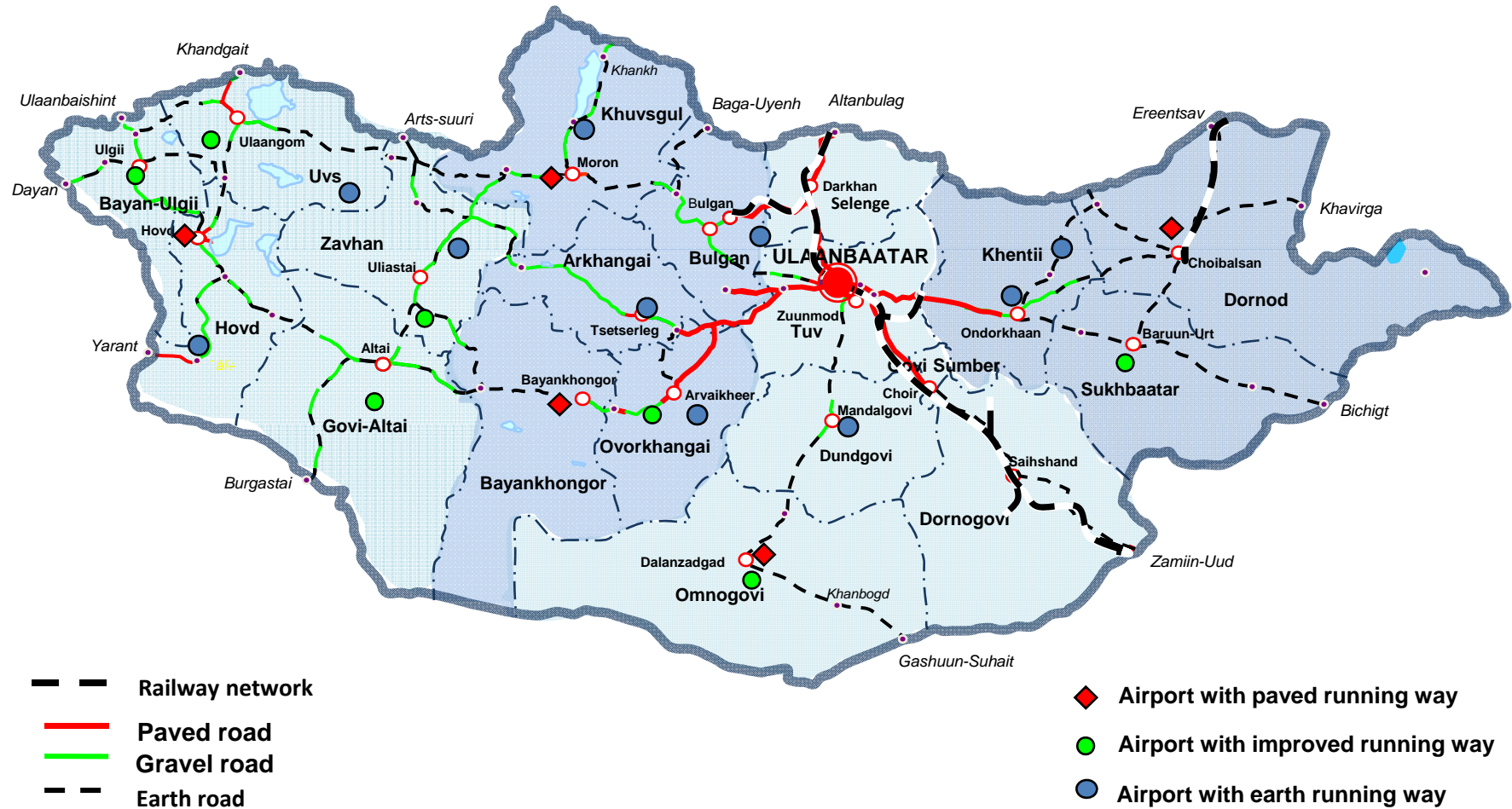
**2. Railway Transport**

**3. Civil aviation**

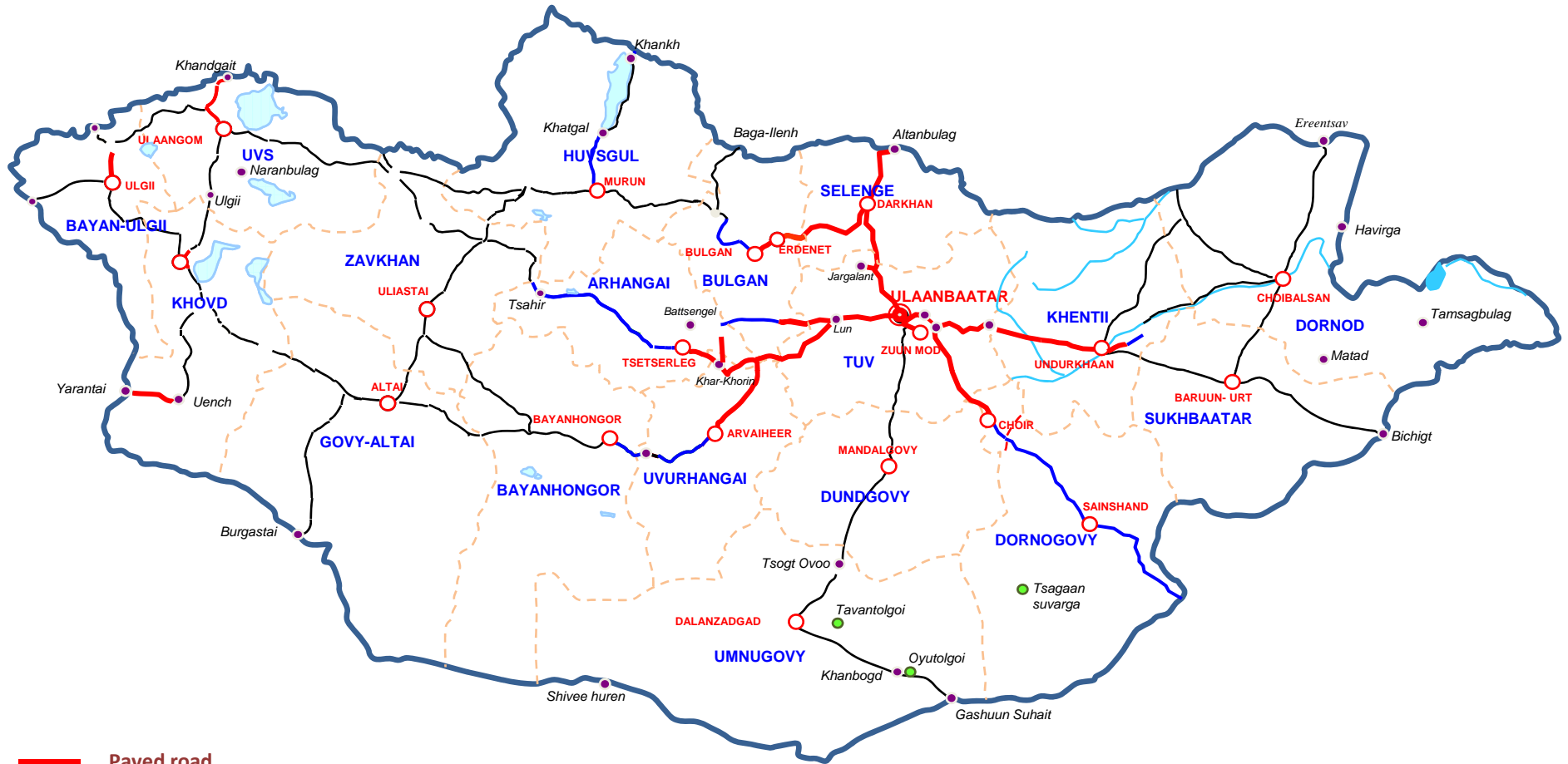
# TRANSPORT MANAGEMENT STRUCTURE



# PRESENT TRANSPORT NETWORK



# ROAD NETWORK – CURRENT SITUATION

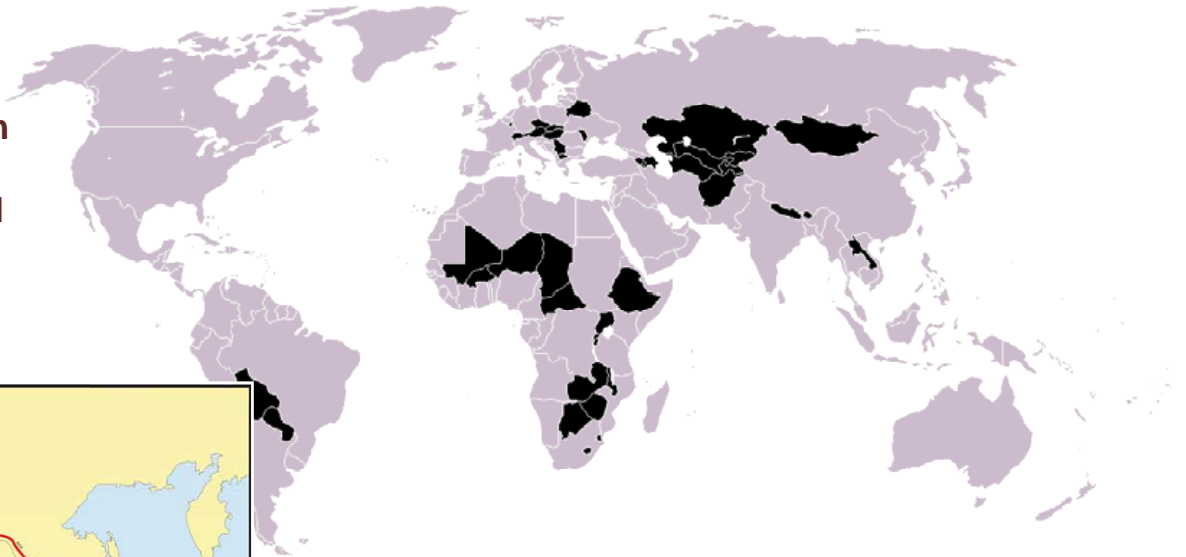


- Paved road
- Under construction
- Earth road

Administrati on level	Paved road		Unpaved road			Total
	Concrete	Asphalt	Gravel	Improved earth	Earth road	Total
STATE	38.87	2 081.8	1 440.7	1 403.0	6 254.5	11 218.9
LOCAL	54.8	421.8	521.24	499.0	36 534.4	38 031.2
TOTAL	93.67	2 503.6	1 961.9	1 902.0	42 788.9	49 250.0

# Construction of Altanbulag-Ulaanbaatar-Zamiin-Uud 990.4km highway

- Mongolia is one of the 44 landlocked countries in the World
- Bounded by two large neighbors – the PRC and the Russian Federation – makes road transportation links significant in terms of domestic and international trade.



- Government of Mongolia signed on April, 2004 in The Intergovernmental Agreement on the Asian Highway Network

Asian Highway routes in Mongolia:

AH-3	-	1 041km
AH-4	-	725km
AH-32	-	2 520km
<b>TOTAL</b>		<b>4 286km</b>

# **ÀÍ-3 ROUTE CAREC-4b**

**ALTANBULAG-ULAANBAATAR-  
ZAMYN-UUD  
/990 km/**



# ALTANBULAG-ULAANBAATAR-ZAMIIN-UUD

## Export-Import





## ALTANBULAG-ULAANBAATAR-ZAMIIN-UUD

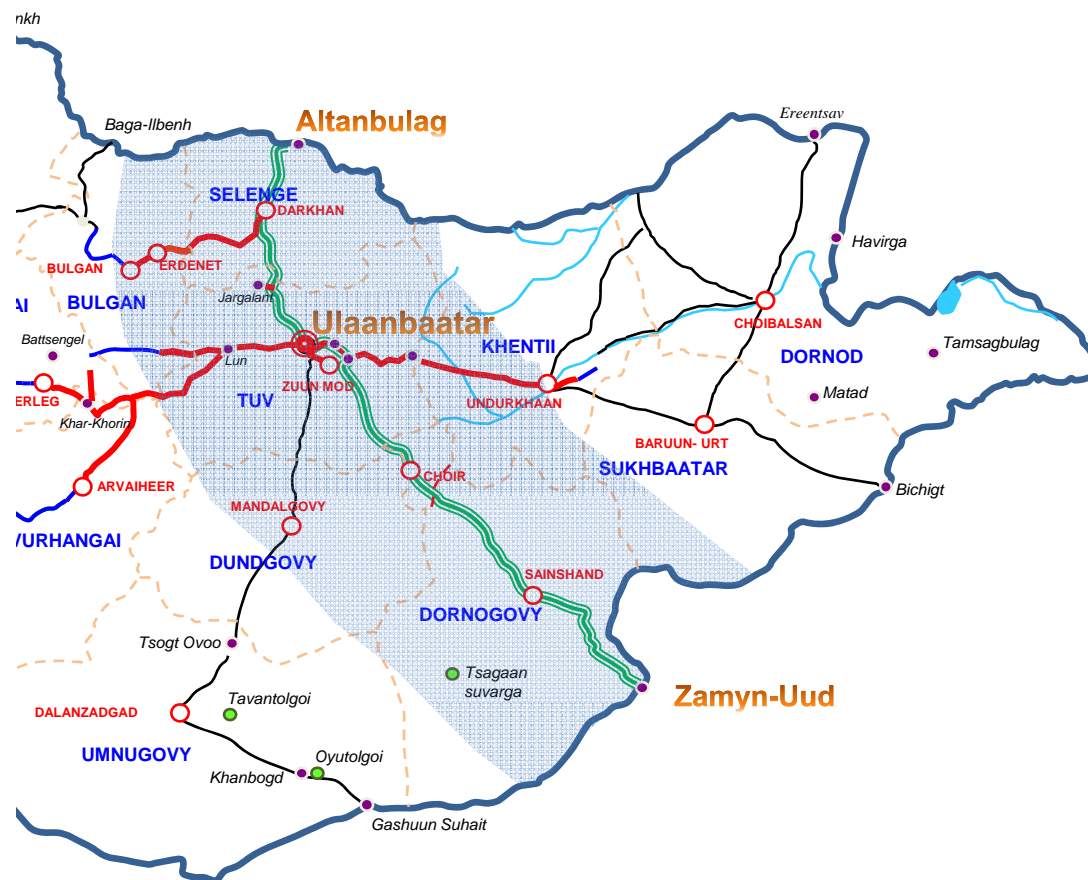
990.4KM

Population: 1.7mln 65%

Sities: Ulaanbaatar, Darkhan,  
Erdenet, Sainshand,  
Sukhbaatar

Aimags: Tuv, Dornogovi, Dundgovi,  
Khentii, Bulgan, Selenge,  
Darkhan-Uul

Borders: Altanbulag, Zamiin-Uud



## ALTANBULAG-ULAANBAATAR-ZAMIIN-UUD Existing Road Condition

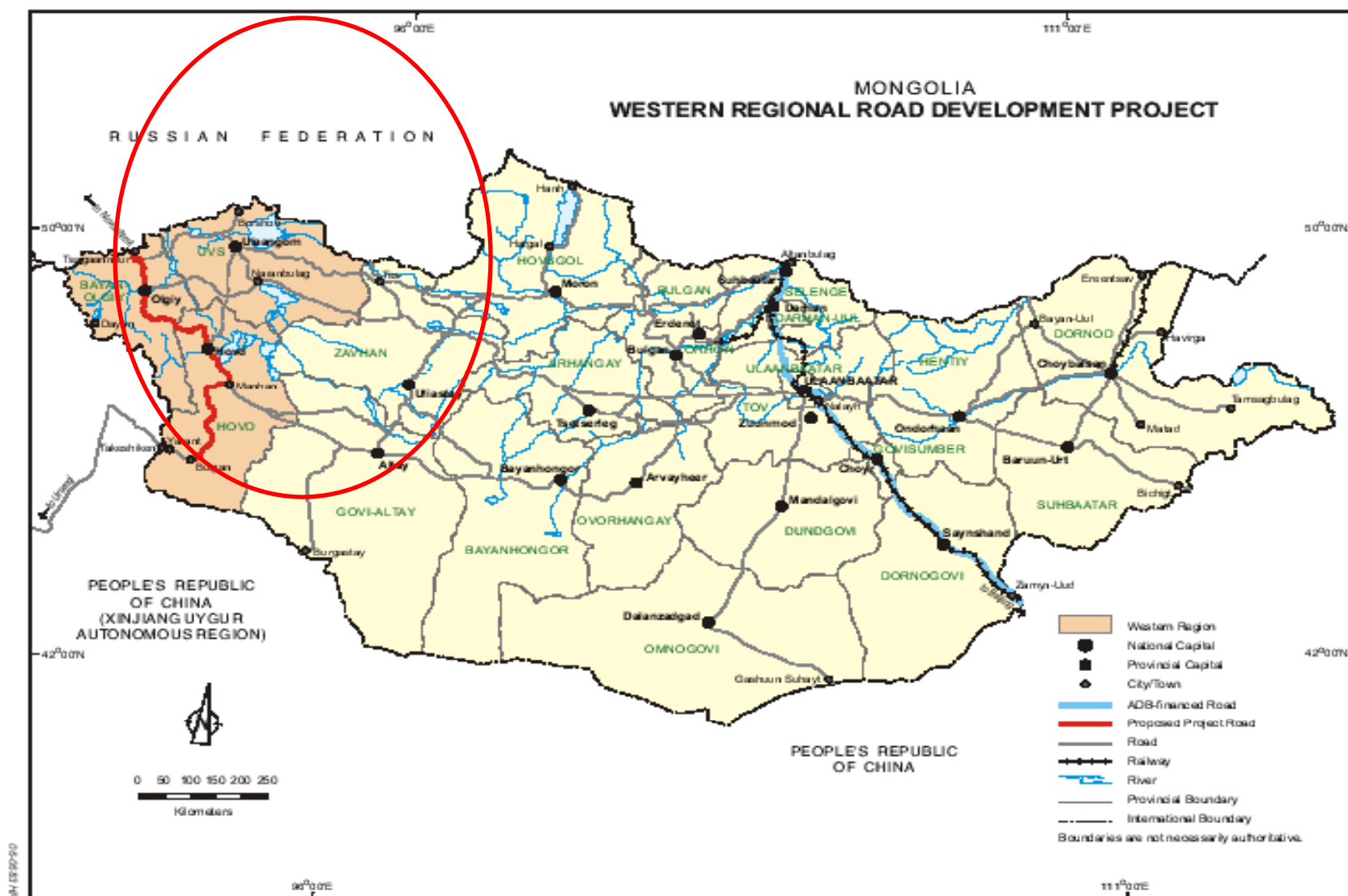
- Total 542km paved road with Class III
  - Rehabilitation of **Altanbulag-Darkhan-Ulaanbaatar** Road ROAD DEVELOPMENT PROJECT (1997-2000), ADB loan
  - Construction of **Nalaikh-Choir** 200km road SECOND ROAD DEVELOPMENT PROJECT (2001-2005), ADB Loan
- Ongoing 432km road Construction with Class III
  - Construction of **Choir-Sainshand-Zamiin-Uud** 432km road REGIONAL ROAD DEVELOPMENT PROJECT, Loan of ADB and Exim bank of Korea. (2005-2010)
- **Zamiin-Uud Regional Logistic Project**



# **AH-4 ROUTE CAREC-4a**

**ULAANBAISHINT-ULGII-KHOVD-  
YARANT**  
/749 km/

## ÁI-4 route

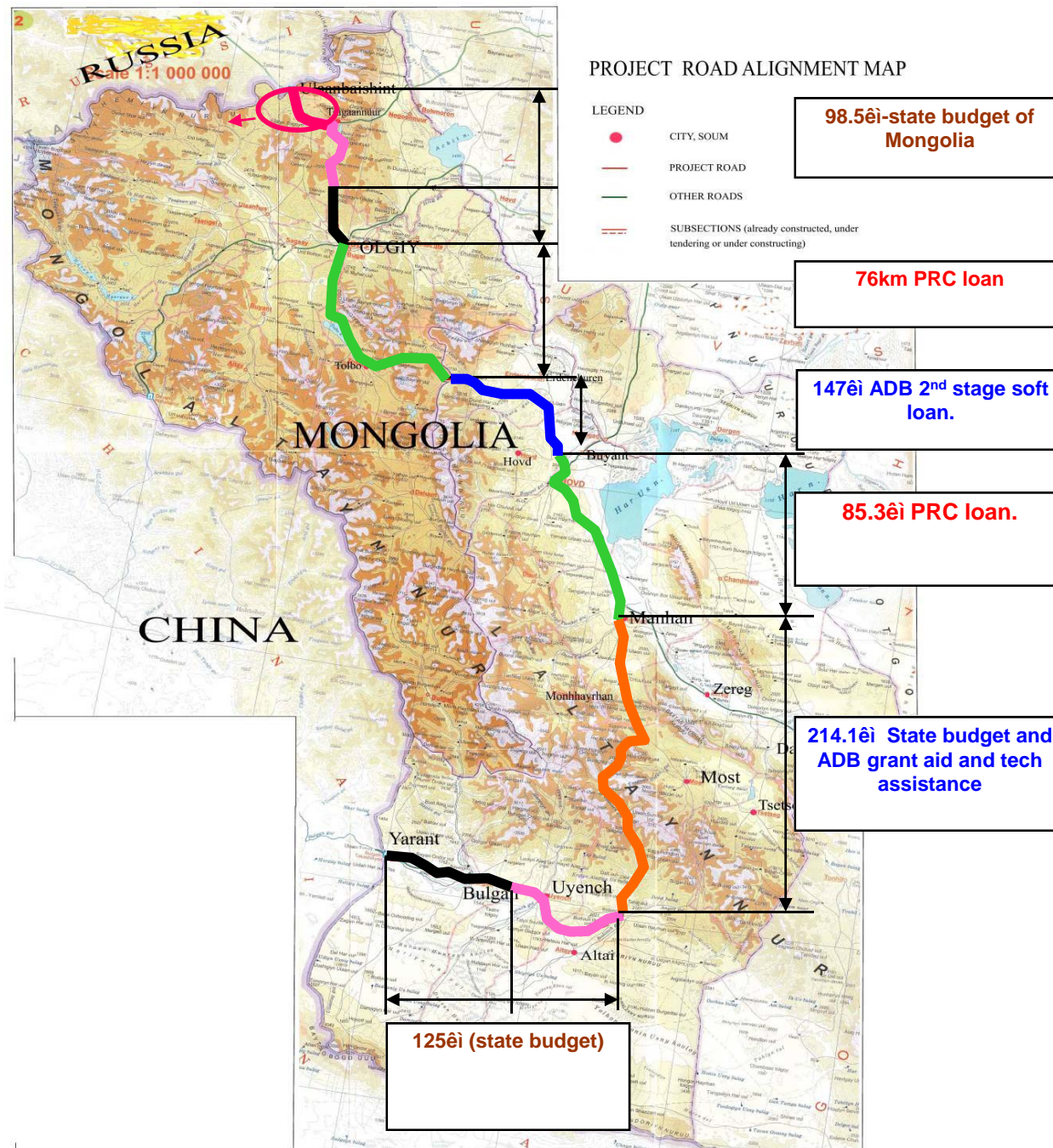


## PLANNED PACKAGES OF THE PROJECT BY THE FEASIBILITY STUDY

Pack	Destination	Length (KM)	Financial resource	Amount
1	Yarant Bodonch khavzal (valley)	125.0 KM	State budget (65% has been constructed and 60% is on going construction)	
2	Bodonch khavzal – Baga ulaan davaa (pass)	110.8 KM	ADB grant aid (65%), State budget (35%)	
3	Baga ulaan davaa –Mankhan	103.3 KM	ADB grant aid (65%), State budget (35%)	
4	<i>Mankhan-Khovd</i>	<i>85.3 KM</i>	<i>Loan of PRC,</i>	
5	<i>Khovd-Khashaatiin davaa</i>	<i>147.9 KM</i>	No decision of financial resource yet but in planning to be involved on 2 <sup>nd</sup> stage soft loan of ADB	
6	<i>Khashaatiin davaa-Ulgii</i>	<i>76.0 KM</i>	<i>Loan of PRC,</i>	
7	Ulgii-Ulaanbaashint /Tsagaannuur/	95.8 KM	State budget (has been constructed 30%: 40% has been reflected on state budget and is going to start in 2009)	



## Á-4 route



**Financial quotation  
of project packages**

## Current road construction profile

Routes	dis	Total length	Constructed (up to 2009)	On going road construction	Planned (2010-2012)	Left over
Àí-3 (CAREC-4b)	êì	990	559	369.2	61.8	
Àí-4 (CAREC-4a)	êì	749	95	100	554	
Àí-32	êì	2520	495	425.7	360	1239.3
<b>Total</b>	<b>êì</b>	<b>4259</b>	<b>1149</b>	<b>894.9</b>	<b>975.8</b>	<b>1239.3</b>

## Current condition

- GOM and ADB agreement of 37.6 mln Grant aid from special development fund has been done on 18 April, 2008 for the Western region road development.
- Geukdong Engineering Co., Ltd has been developing 307,2ê road's detailed engineering design from Bodonch khavzal to center of Khovd aimag
- 205 km Road design from Khovd-Khashaatiin davaa-Ulgii is being developed by the financing of Mongolian development fund
- Decision has been made by State Ikh Khural that \$50 mln is going to be quoted from 300 mln PRC soft laon on the road financing from Mankhan soum to Khovd and from Ulgii toward Khashaatiin davaa
- Negotiation has been done between GOM and ADB that 65% of 216,3 ê road construction financing from Bodonch khavzal to Mankhan soum will have quoted by ADB and 35% GOM (1.7 billion tugric has reflected in state budget 2009) respectively.
- Bidding of supervising consulting service has been going in process on the 307,2ê road construction from Bodonch khavzal to center of Khovd.

# Current problems

- Failure to carry out the contract duties from contractors
- Delay due to bidding procedure
- Delay due to having the permission concerning with the labor force



# EXISTING RAILWAY ROUTE





# Railway sector

- Road, transport policy department of MRTT
- “Railway Authority”- Government agency
- Mongolian Railway /MTZ/-State railway shareholding company
- Ulaanbaatar Railway/UB Railway/- Mongolian-Russian joint venture
- Railway private companies

# Criteria to be determined in railway network construction

State policy on railway transport sector was adopted by the Parliament of Mongolia on 24<sup>th</sup> June, 2010.

Main criteria taken for railway network construction:

- The increase of economy, development, population settlement, urban planning, environment protection
- Specific feature of infrastructure of the region
- Location of mineral resources, procedure of utilizing them
- Necessity to increase transit transportation within the region
- Possibility to cooperate with trade, tourism, transportation and mineral sector
- Geographical location

# ILLUSTRATION OF THE RAILWAY INFRASTRUCTURE DEVELOPMENT OF MONGOLIA<sup>(1)</sup>

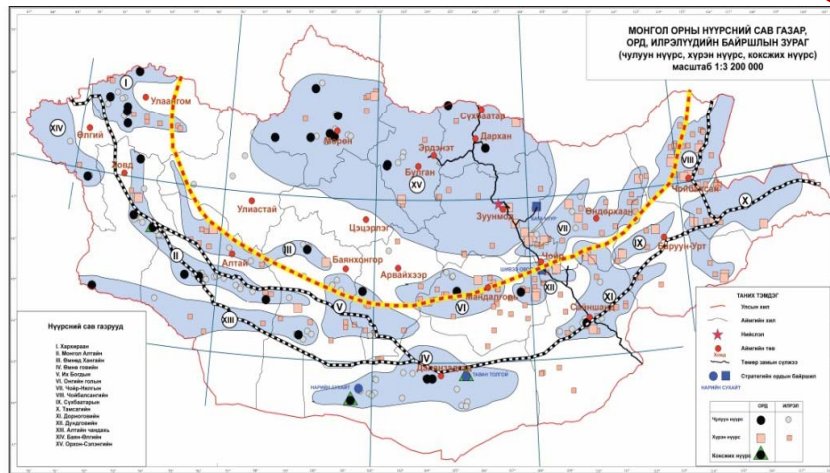


1) Ministry of Road, Transportation, Construction and Urban Development of Mongolia, Railway Policy for Mongolia, April 2010

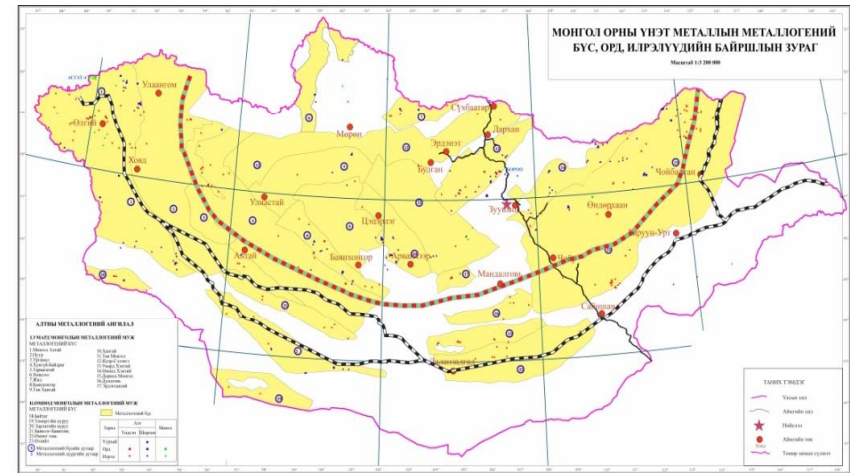


# Consideration of railway infrastructure planning towards the mineral deposits of Mongolia<sup>(1)</sup>

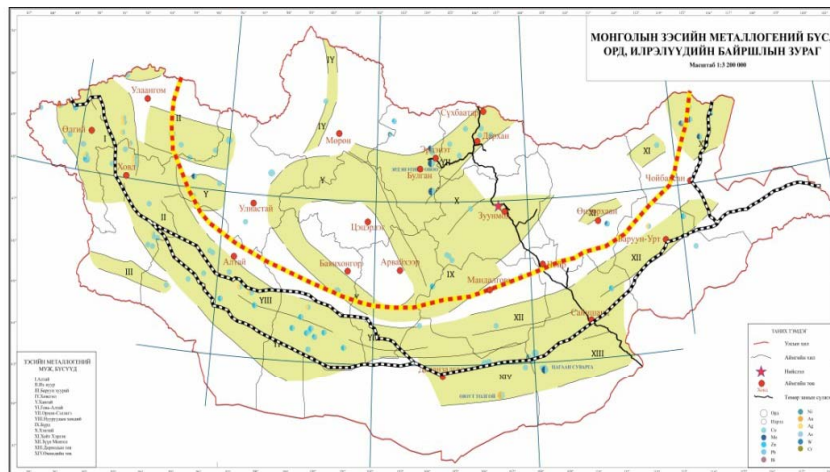
Coal Deposits



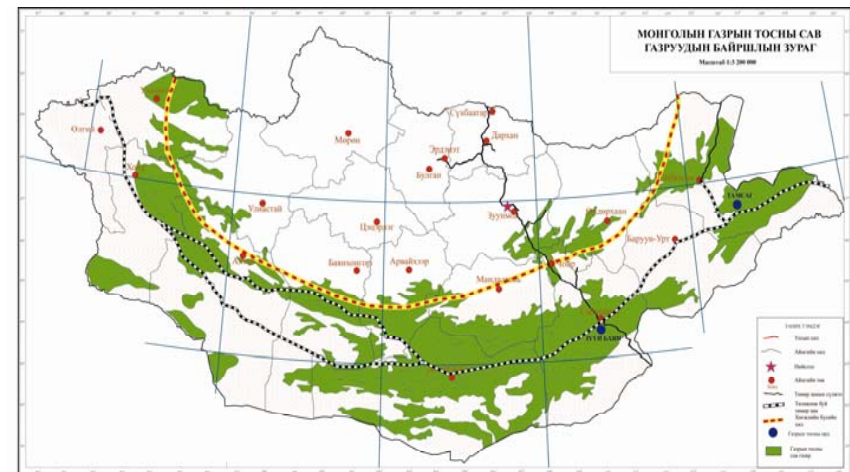
Precious Metals Deposits



Copper Deposits



Oil Deposits



1) The minerals study prepared by Mr. Odkhuu, D., a Member of Parliament, lead group of geologists from Geosan LLC, Mongolia.

# **“Railway rolling stock fleet expansion” project**

Project aim: Expansion of railway transport capacity,  
improvement of rolling stock fleet

Works to done within the project:

- Purchase of locomotives for freight transportation
- Purchase of 245 freight wagons
- Purchase of shunting locomotive, reach stacker and crane

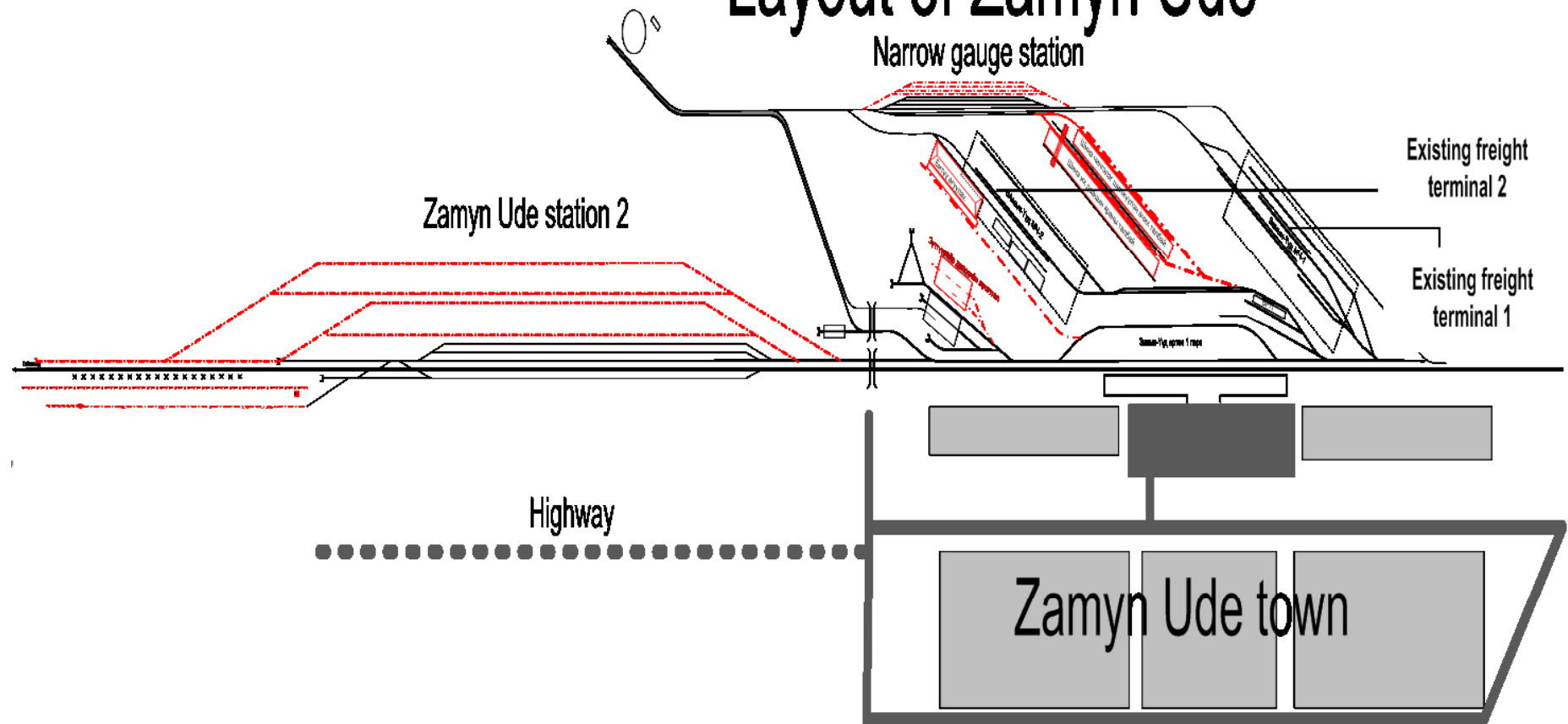


# Status of Investment and Technical Assistance Projects

## Trade Facilitation

- **MON TA 5: Regional Logistics Development (new to ongoing)**
  - ADB's PPTA work is finishing by September 2010.
  - ADB loan will be provided in 2011.

# Layout of Zamyn Ude



# Status of Investment and Technical Assistance Projects

## Trade Facilitation

- **MON TA 2: Ulaanbaatar Intermodal Logistics Park Feasibility Study**
  - This Project is listed for approval by ADB in 2011, according to the draft Country Partnership Strategy for Mongolia.
  - Project Preparatory Technical Assistance should start in 2011.

# Current Problems

- Present legislation acts are not fully meet the present railway sector requirements
- Needs for extension of railway network and increase the carrying and passing capacities of railway lines
- Restructuring process is going slowly

# Civil Aviation

- Role in economic development

Air transport is key to tourism

Trade and commercial links

High-tech, leading edge to the economy

- Role in social development

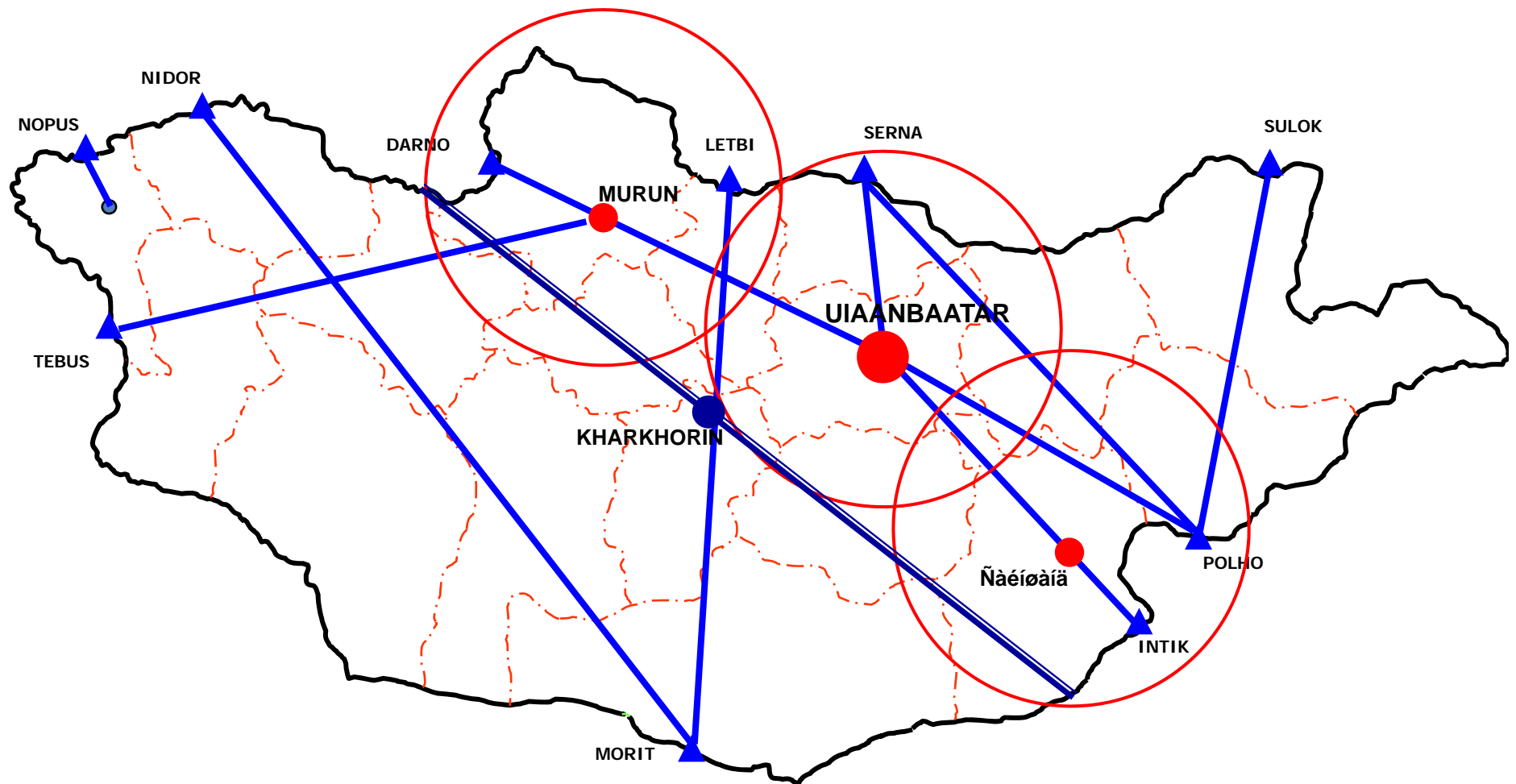
Access to essential services

Linking the remote areas/binding the nation



# CIVIL AVIATION

## EXPANDING AIR NAVIGATION SERVICES AND IMPROVE FLIGHT SAFETY OPERATIONS

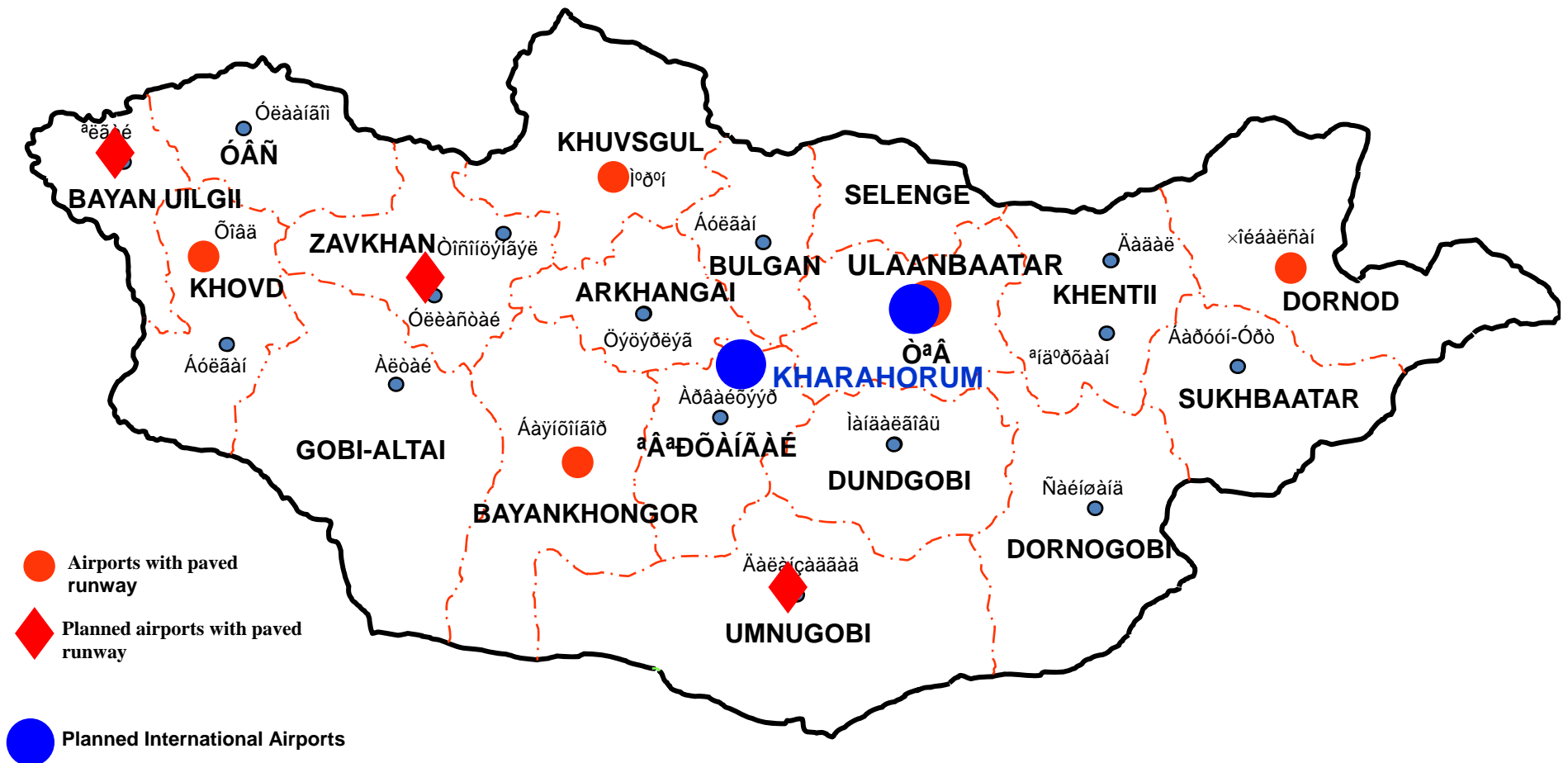


# Status of Investment and Technical Assistance Projects

## MON TA 1: Rehabilitation of Regional Airports

- The TA project was completed.
- The TA recommended the rehabilitation and construction of paved aerodromes in Altai, Zavkhan, Uvs and Olgiy airports, which amount to about \$40 million.
- The investment projects will be financed by the state budget and will be completed during 2010/2011.

# Improvement of Airport Services and Flight Safety Operations



# Status of Investment and Technical Assistance Projects

## MON IP 4: Improvement of Olgiy and Hovd Airports

- The Government has allocated a total of MNT11.7 billion for the construction of a new paved runway at Olgiy airport
- The new paved runway at Olgiy airport will be operational in 2011.
- Financing for the construction of a new or upgrading existing passenger terminals at Hovd and Olgiy airports is yet to be determined.
- Financing for the upgrading of existing runway at Hovd airport is yet to be determined.

# Status of Investment and Technical Assistance Projects

## MON IP 5: New International Airport in Ulaanbaatar

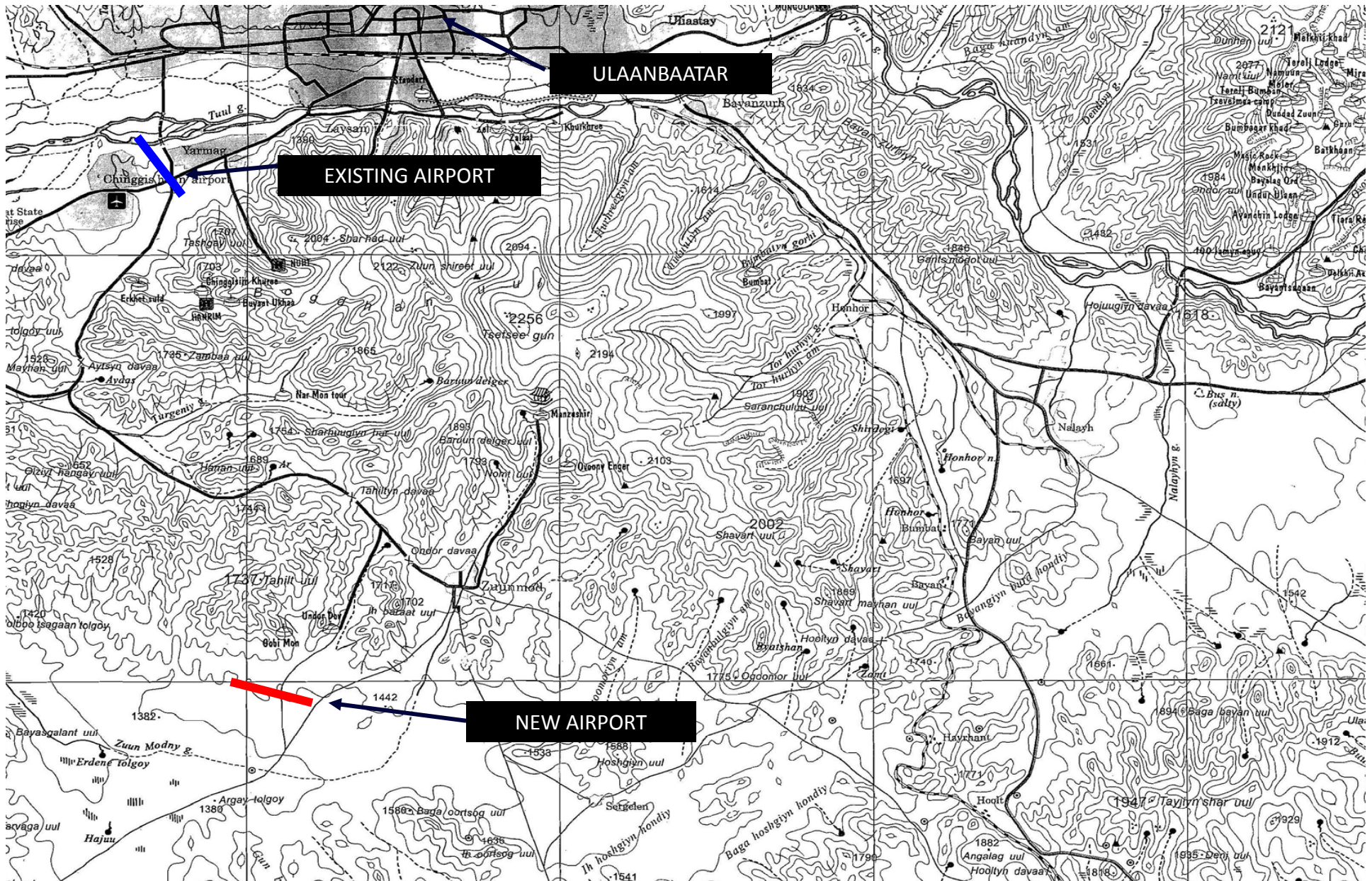
- Project is proceeding well.
- The Loan Agreement between the Government of Mongolia and Japan International Cooperation Agency (JICA) was signed in 2008.
- The selection of consultants for the implementation of the project is finished and contract signed on 18 June, 2009.
- Bidding for the selection of a civil works contractor is planned for 2011.
- Actual construction will start in 2012 and planned to be finished before 2016.

## New Ulaanbaatar International Airport

<b>Data</b>	<b>New Airport</b>	<b>Existing Airport</b>
<b>Passenger</b>	<b>1,6 mln</b>	<b>0,6 mln</b>
<b>Cargo</b>	<b>17 000 tonnes</b>	<b>2 400 tonnes</b>
<b>Aircraft Movement</b>	<b>18 000</b>	<b>8 000</b>
<b>Runway</b>	<b>3 600 x 45</b>	<b>3 100 x 45</b>
<b>Passenger Terminal</b>	<b>33 300 m2</b>	<b>16 050 m2</b>
<b>Passenger Loading Bridge</b>	<b>6</b>	<b>2</b>
<b>Cargo Terminal</b>	<b>2 400 m2</b>	<b>1 800 m2</b>
<b>Car Parking</b>	<b>30 800 m2 (880 cars)</b>	<b>11 900 m2 (160 cars)</b>



# Location of the NUBIA



# Construction of the Access Road to the New Ulaanbaatar International Airport





# Construction of the Access Road to the New Ulaanbaatar International Airport

- New project proposed by the Government.
- Target implementation is on 2011-2015.
- Total project cost is preliminarily estimated over \$50 million.

***Thank you for your attention***