

# **DEVELOPMENT OF SPATIAL DATA INFRASTRUCTURE IN MONGOLIA AND IT'S APPLICATION TO THE 'MILLENNIUM ROAD' PROJECT**

*Assist. Prof. Purevbaatar CHIMGEE and Sandag URANBILEG, Mongolia*

**Key words:** Geographic Information System (GIS), Spatial Data Infrastructure, Thematic maps, Digital maps.

## **ABSTRACT**

Government of Mongolia has approved Master Plan for Medium Term Development of Mongolian Auto Road Network worked out in the framework of technical assistance of Asian Development Bank in 1994 and the measures are being taken to implement it with local and foreign investment.

Mongolia has 11,063.0km road which has great transportation significance. From it 1,317.6 km or 11.9% is paved road and 1,378.9 km or 12.5% is gravel covered and 75.6% is unpaved earth road. Mongolian Parliament and Ministry of Infrastructure considering the aims for formation of effective structure of settlements, promotion to economical development and improvement the living standard of people, worked out 'Millennium road' Project which envisaged the development of auto roads along the vertical and horizontal axis throughout of Mongolia.

New routes of the Millennium Road shall have considerable significance in development of international co-operation of Mongolia, to link Mongolia to Euro Asian main infrastructure network and to go out through it to the sea as well as to create the possibilities to link with Trans-Asian road. The Millennium road shall connect 245 settlements in 21 provinces. For working out this project it was used thematic maps, road network maps, land use maps, urban planning maps, large-scale topographic and digital maps of 245 settlements.

In connection with this project the State Administration of Geodesy and Cartography of Mongolia has started from this year to develop of spatial infrastructure database.

## **BIOGRAPHICAL NOTES**

Assist. Prof. Purevbaatar Chimgee has been Lecturer (1984-1999) for Geodesy and Engineering Surveying at the Mongolian Technical University (MTU) and since 1999 Head of Department of Geodesy at MTU. She is member of the Mongolian Association of Surveying and Association of Mining and representative of MTU in FIG.

---

TS4.3 Assist. Prof. Purevbaatar Chimgee and Sandag Uranbileg: Development of Spatial Data Infrastructure in Mongolia and Its Application to the "Millennium Road" Project 1

Sandag Uranbileg, MSc. has been Cartographer at Cartography Enterprise (1987-1996) and Inspector (1996-2001) of Surveying and Mapping Control at State Administration of Geodesy and Cartography (SAGAC) of Mongolia and since 2001 Head of GIS Department. She is member of the Mongolian Association of Surveying and delegate in FIG.

## **CONTACTS**

Chimgee Purevbaatar  
Head of Department of Geodesy  
Mongolian Technical University  
Main Campus of MTU, Room#1-227  
Ulaanbaatar  
MONGOLIA  
Tel. + 976 9911 8229  
Email: pchimgee@mail.mn  
Web site: <http://www.mtu.edu.mn>

Uranbileg Sandag  
Head of GIS Department  
State Administration of Geodesy and Cartography of Mongolia  
Ih Toyruu 15, UB- 210644  
Ulaanbaatar  
MONGOLIA  
Tel. + 976 9915 9715  
Email: [uranbileg\\_s@hotmail.com](mailto:uranbileg_s@hotmail.com)