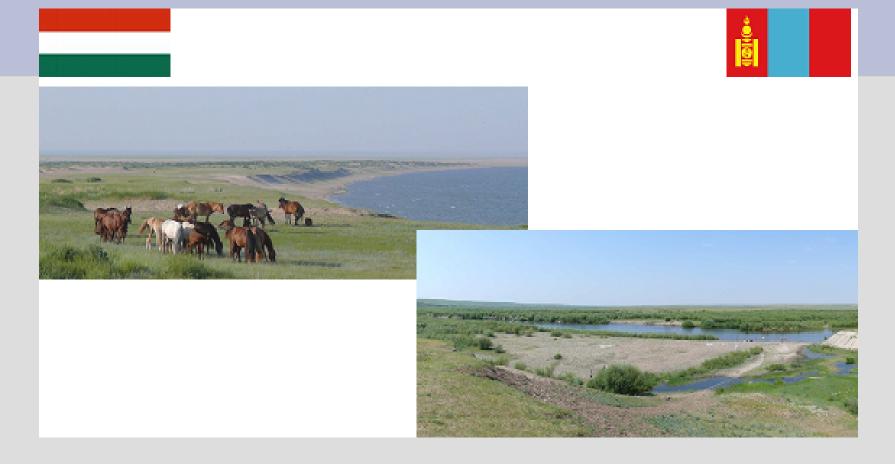
### Hungarian-Mongolian Cooperation in the Kherlen River Basin



Kálmán Papp EURO-INBO Bucharest 13-14 November 2014

### **Previous Bilateral Cooperation**

By Hungarian government aids (loans and grants) the following activities were executed:

1957-1970 Water exploration, drilling of wells for pastures and animal husbandry 1967-1973 Geophysical water exploration 1969-1980 Exporting of smaller irrigation plants 1976-1981 Planning and constructing the Kherlen-Bayaan-Ulaan (1300ha) and Upper-Choibalsan (2000 ha) Irrigation

Systems

1971-1990 Water Management Master Planning (National and Regional Plans)

# National Water Management Master Plan of Mongolia

1971. Agreement on the Expedition and Planning Activities, Preparation of Atlas

1971-72. Preparation of topics and methodology

1972-73. Collection of data and expeditions

1974-75. Preparation of the National Water Management Master Plan of

Mongolia

#### **Cooperating partners:**

Hungary: National Water Authority (OVH),

Water Resources Management Center (VIKÖZ)

Water Consulting Co. (VIZITERV)

Mongolia: Ministry of Water (Usny Aj Ahuyn Yaam)

Water Management Institute (Usny Khalguy Tösöl)

#### **Content of Master Plan**

- I. Natural Geographycal Conditions
- II. Uses and Protection of Water Resources
- II. Long Term Development of the Mongolian Water Management
- IV. Atlas of Master Plan

Documents were prepared in Russian Language

### Regional Water Management Master Plans

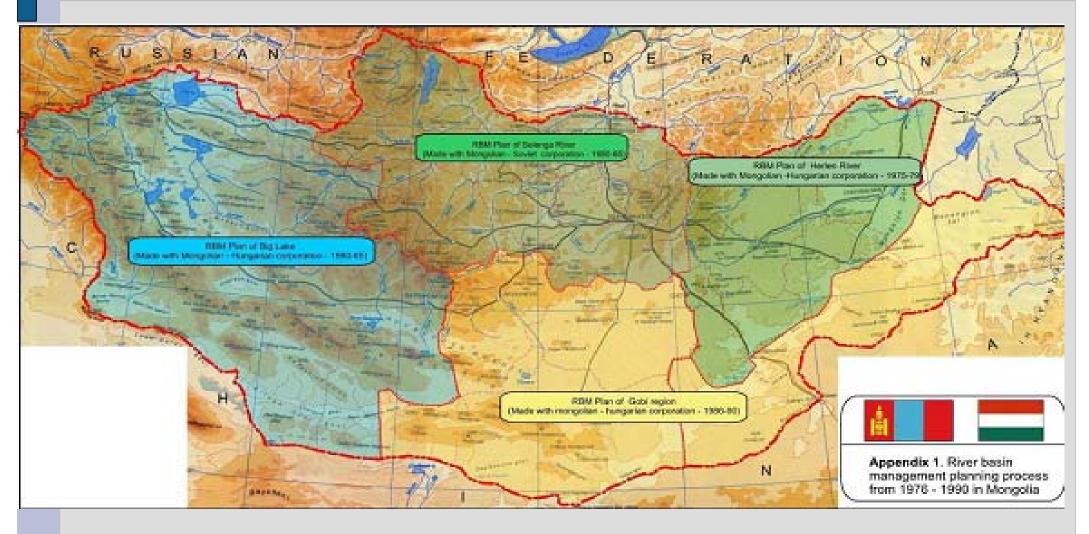
1975-1979. Kherlen River Basin

1980-1985. Basin of Great Lakes

1985-1987. Undrained Basins of Baydrag, Tuyn, Taats and Ongiyn Rivers

For the Selenge River Basin the Master Plan was prepared by Lengiprovodhoz (SU) based on the National Master Plan

# River basin management planning process in Mongolia



#### БНМАУ-ЫН УСНЫ АН АХУЙН ЯАМ МИНИСТЕРСТВО ВОДНОГО ХОЗЯЙСТВА МНР

УСНЫ ХАЙГУУЛ ТӨСӨЛ, ЭРДЭМ ШИННИЛГЭЭНИЙ ИНСТИТУТ
ПРОЕНТНО-ИЗЫСНАТЕЛЬСНИЙ И НАУЧНО-ИССЛЕДОВАТЕЛЬСНИЙ ИНСТИТУТ

#### ХЭРЛЭН ГОЛЫН САВ НУТГИЙН УСНЫ НӨӨЦИЙГ НЭГДМЭЛЭЭР АШИГЛАХ, ХАМГААЛАХ

ATMAC

## КОМПЛЕКСНОГО ИСПОЛЬЗОВАНИЯ И ОХРАНЫ ВОДНЫХ РЕСУРСОВ РЕГИОНА Р. ХЭРЛЭН

БНМАУ-ЫН БАРИЛГА-АРХИТЕНТУР, ТЕХНИН ХЯНАЛТЫН УЛСЫН ХОРООНЫ ХАРЪЯА УЛСЫН ГЕОДЕЗИ, ЗУРАГ ЗҮЙН ГАЗАР

ГОСУДАРСТВЕННОЕ УПРАВЛЕНИЕ ГЕОДЕЗИИ И НАРТОГРАФИИ ПРИ ГОСУДАРСТВЕННОМ НОМИТЕТЕ СТРОИТЕЛЬСТВА, АРХИТЕНТУРЫ И ТЕХНИЧЕСНОГО НОНТРОЛЯ МНР

# High Level Decoration for the Hungarian Cartographer



### The Cooperation Came to a Standstill between 1990 and 2007



- What could I do?
- Think as if I were in the Gandan Monastery
- Revolving a prayer mill for the renewing of contacts

North sk

Novosibirsk

'Astana

Almaty

Urumqi

Dunhuange

400

Beijing

Lanzhou

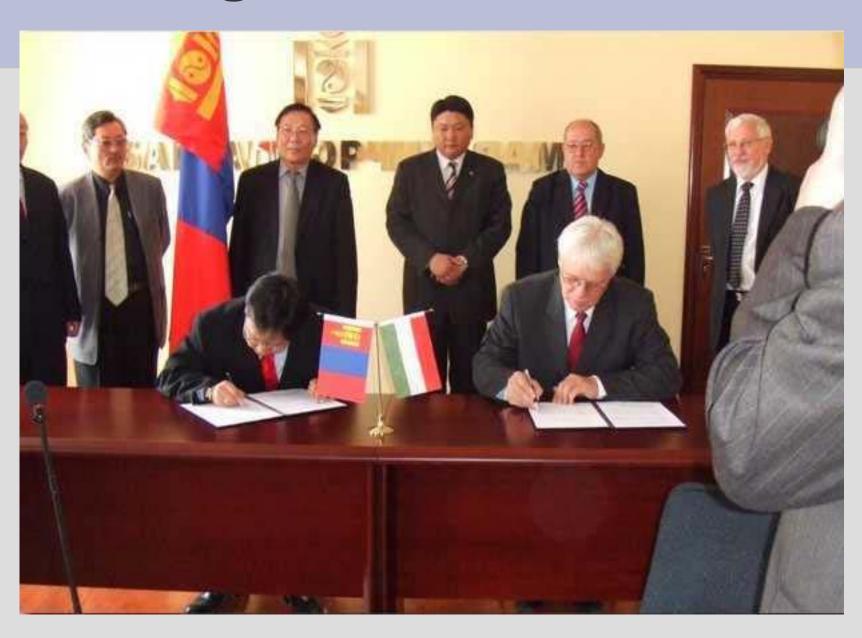
Irkutsk

Ulan Bator

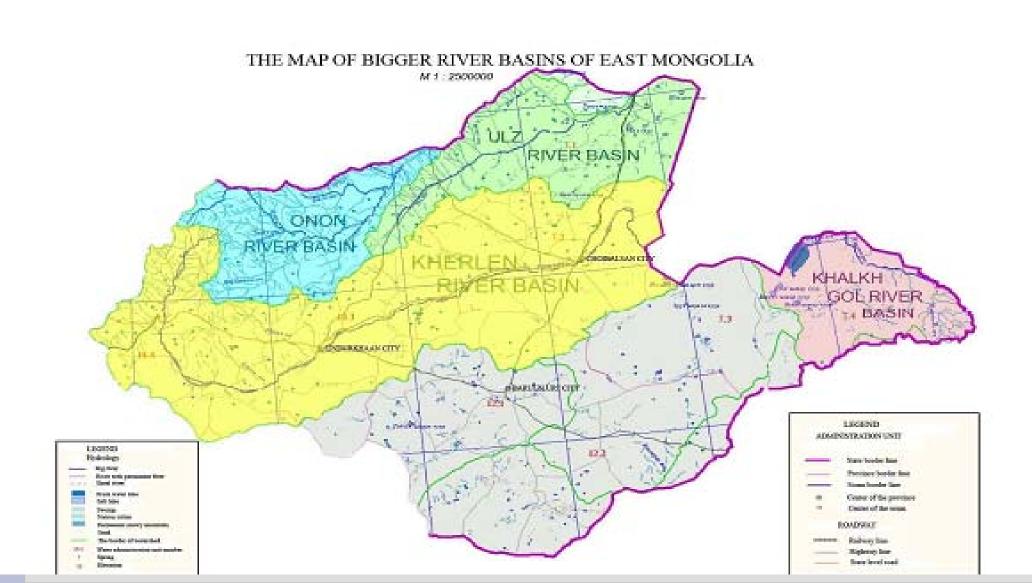


CHINGGIS KHAAN INTERNATIONAL AIRPORT Velcome to

# Renewing the Cooperation Agreement in 2008



### First Proposal for Updating of River Basin Plans in East Mongolia



# Preparatory project for East Mongolia 2009-2011.

Grant Proposal for the East Mongolian Rivers which belong to the Pacific Basin (Kherlen, Khalkh gol, Onon gol and Uldz gol)

**Partners:** 

Mongolian Side:

**Water Authority** 

**Institute of Geoecology** 

**Hungarian Side:** 

National Directorate for Water and Environment VIZITERV Environ Ltd.

### Pictures from a Study Tour









# Preparatory project for Kherlen RBM Plan 2013-2014.

Reorganisation of water management in Mongolia and in Hungary caused some delay in preparatory activities Mongolian Side asked to focus on Kherlen Basin 2013. HU Foreign Ministry provided support for the project

2014. February Discussions in Budapest

2014. May High level HU delegation in UB

2014. June HU Expert delegation in Mongolia

With study tour to Kherlen River

#### Some facts about the Kherlen River



Second river in Mongolia

Length: 1254 km

Basin Area: 92000 km<sup>2</sup>

Basin in Mongolia: 83890

km<sup>2</sup>

Av. discharge: 21-22 m³/sec

**Sources: Khentii Mountains** 

**Drains to the Dalay Nuur** 

(Lake Hulun) in China

**Tributaries:** 

Mörön gol

Tsenhervn gol

### **Project Partners**

#### **Hungarian Side:**

National Water Directorate (OVF)
National Institute for Environment (NEKI)
VIZITERV ENVIRON Ltd.

#### **Mongolian Side:**

Institute of Geoecology Kherlen River Basin Directorate

# HU Expert Delegation Activities 12 June-1July 2014.

#### Discussions and data collection in UB

- Ministry of Environment and Green Economy
- Institute of Geoecology
- Institute of Meteorology and Hydrology
- WWF Mongolia
- Environment Information Center
- Educational Center for Water Resources and Nature Conservancy
- Research Institute of Animal Husbandry

### Opening discussion at Geoecological Institute Ulaanbaatar – 13. June 2014.



# Field Trip to Kherlen River Basin

#### Important places of field trip:

Möngönmorit: First Water Measuring Station

Baganuur: Kherlen Basin Directorate, Coal Mine

Water Measuring Station

Öndörkhan: Khentii Province Environment Dir.

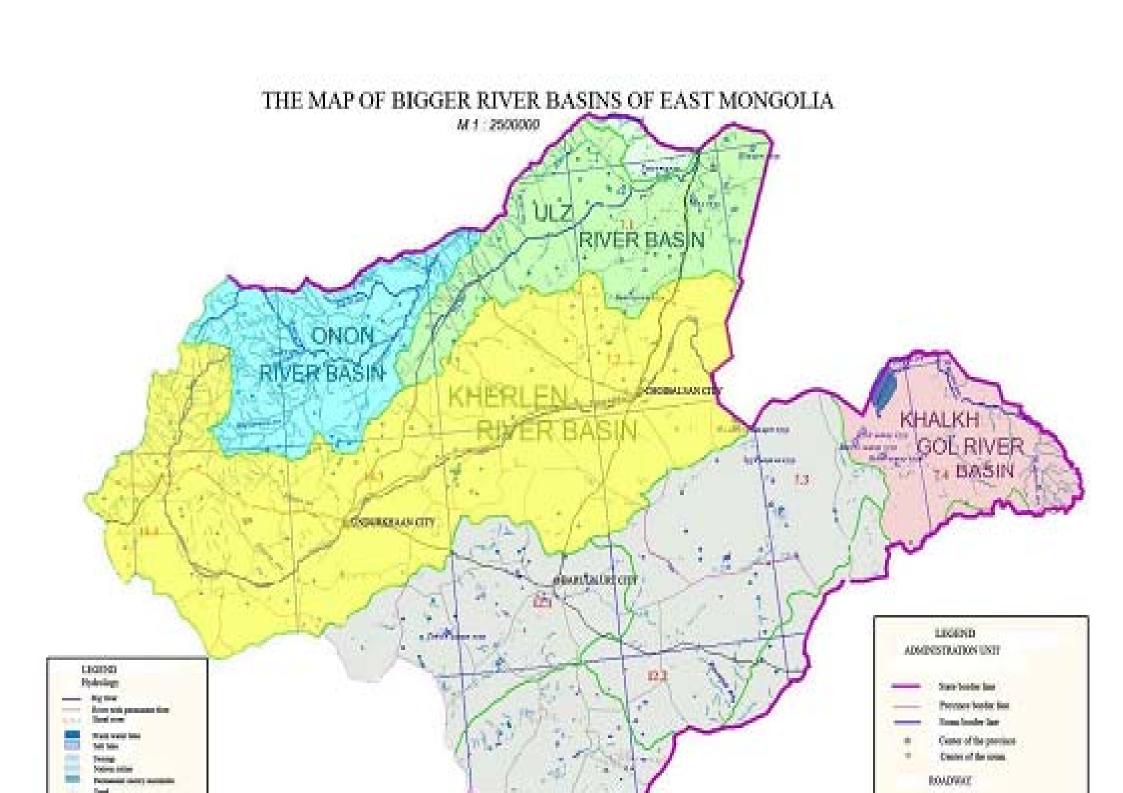
Khentii Province Public Works Co.

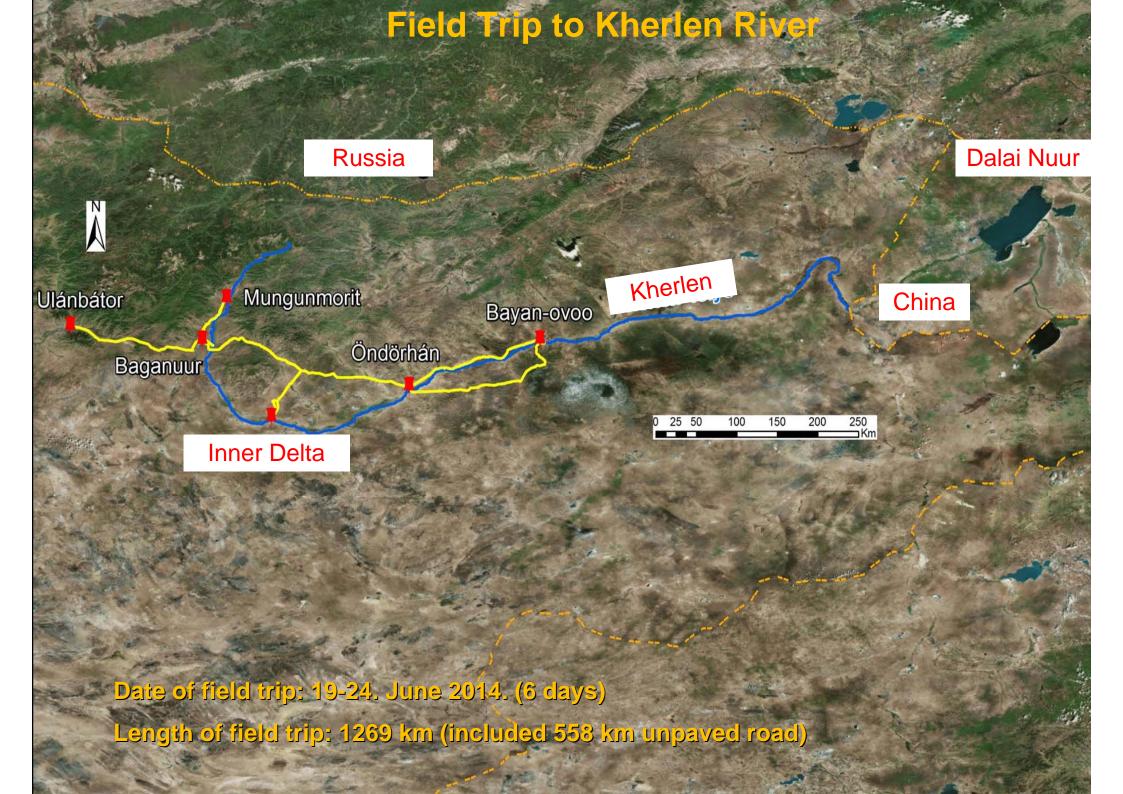
Water Measuring Station

Delgerkhan: Avarga Toshon Salt Lake

Bayaan Ovoo: Khar Yamaat Nature Reserve

Mörön gol, Tsenheryn gol





#### At the Kherlen River Basin Directorate



Kherlen at Möngönmorit



### Kherlen at Baganuur



### At the Tsenheryn gol



### **Avarga Toshon Salt Lake**



### Kherlen Inner Delta Region



# Water Quality Measurment at Öndörkhan



### Kherlen near Bayan Ovoo



# Thank You for Kind Attention! Mulţu Mesc!







