



Magyar
Űrkutatási
Iroda

UN/USA International Meeting on
the Use and Applications of GNSS

13-17 December 2004,
Vienna, Austria

Results of the EURISY Conference on GNSS

Dr. Előd Both
Hungarian Space Office

Overview

- ▶ **Results of the GNSS Conference**
- ▶ **Progress of GNSS activities in Hungary**

Part of a series

- ▶ 2003 (19-20 May), Warsaw: Galileo for an Enlarged Europe
- ▶ 2004 (27-28 May), Budapest: 2nd Galileo Conference for an Enlarged Europe
- ▶ 2005 (25-26 October), Prague: Public Private Partnership and Galileo (to be organised by EURISY and Czech Space Office)

Organisers



Budapest, Hungary
27-28 May 2004

2nd GALILEO Conference for an Enlarged Europe

- ▶ EURISY Association (www.eurisy.asso.fr)
- ▶ Hungarian Space Office
- ▶ Galileo Joint Undertaking
- ▶ European Space Agency
- ▶ Ministry of Informatics and Telecommunication, Hungary

Participants

- ▶ 141 participants
- ▶ over 30 countries
- ▶ research, applications, industry etc.
- ▶ Timing of the conference: just immediately after the EU enlargement
- ▶ Goal: involving new EU member states into Galileo activities

Background

- ▶ Technical:
- ▶ Galileo - as a major European Initiative
- ▶ EGNOS - as a precursor SBAS system
- ▶ Political:
- ▶ EU Enlargement
- ▶ Role of PPP

Aims

- ▶ Present the state and the art of Galileo and EGNOS
- ▶ discuss the applications of Galileo and highlight the opportunities offered by EGNOS
- ▶ related research and development activities
- ▶ benefits in the frame of the EU enlargement
- ▶ encourage active participation from the new EU member states
- ▶ benefits of the system, once it is operational
- ▶ possible partnerships

Synergy

- ▶ Organised in synergy with the ERTICO congress and exhibition
- ▶ ERTICO: on intelligent transport, as a major user of GNSS
- ▶ held on the same week in Budapest

Programme

- ▶ Opening
- ▶ Plenary (different aspects of Galileo)
- ▶ Galileo Research and Development: 2nd Galileo call in the EU 6th R+D Framework programme
- ▶ National presentations
- ▶ Transport applications
- ▶ Non-transport applications and technology development
- ▶ Market development

National presentations

- ▶ Forum for the „new ten”
- ▶ Presentations by 5 of 10:
 - Czech Republic
 - Hungary
 - Latvia
 - Poland
 - Romania

Results

- ▶ Distribution of information especially towards the new ten of EU
- ▶ Exchange of views
- ▶ Creating partnerships
- ▶ Worth to continue!



Progress of GNSS Activities in Hungary

- ▶ **Origins**
- ▶ **Awareness increase**
- ▶ **Progress in coordination**
- ▶ **Follow-up tasks of our EU membership**
- ▶ **Progress in preparation for EUPOS**

Origins

Triggering factors of increased activity in the field:

- ▶ Direct consequence of the participation at the Second UN/USA Regional Workshop on GNSS in Vienna, November 2001
- ▶ EUPOS initiative (see other presentations)
- ▶ Demands of the users

Awareness increase



Textbook

- ▶ **Published in the 1st half of 2004**
- ▶ **Authors: a group of outstanding experts of theory and applications**
- ▶ **The first comprehensive textbook in Hungarian language on the GNSS**

Bimonthly magazine

- ▶ **Private venture**
- ▶ **For professional and hobby users**
- ▶ **News on**
 - **equipment**
 - **application**
 - **sports, recreation, hobby**

GPS MAGAZIN

II. évfolyam, 5. szám
2003. október–november
Ára: 586 Ft
www.gpsmagazin.hu

MADOP
Digitális Ortofotó

LBS ALKALMAZÁSOK
Mobiltelefonos helymeghatározás

KIÁLLÍTÁSOK
INTERGEO 2003; OTK, Szolnok

GPS-SZEL BARANGOLVA
Hippokratész szigetén

Új szereplő:
Mio 339
Digi-Walker

Geodéziai
újdonság:
gyors
és hatékony

**Helymeghatározás
kötött pályán**

Siemens-Desiro:
alapszereltség a GPS

Progress in coordination



A recommendation of a feasibility study:

**An interministerial forum would be
necessary for**

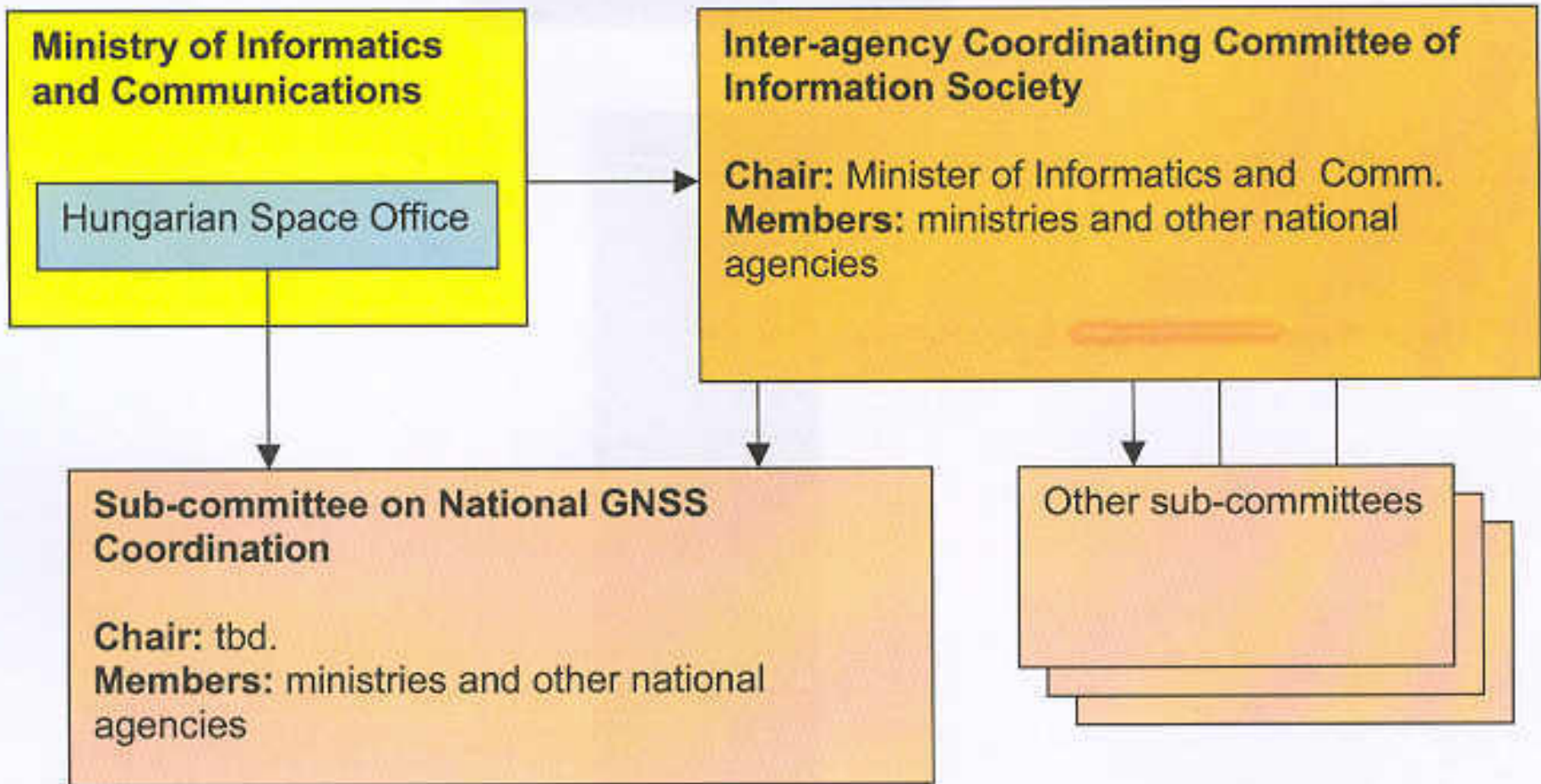
- **coordination,**
- **strategy making,**
- **planning**

**with the participation of all
interested partners**

Partners

- ▶ **Min. of Informatics: existing since 2002 (Information Society Strategy)**
- ▶ **Hungarian Space Office**
- ▶ **Inter-agency Coord. Committee on Information Society (existing, under the chairmanship of the Minister of Informatics)**
- ▶ **Subcommittee on GNSS Coordination (created in May 2004, chaired by prof. István Fejes)**

Coordinating body



Courtesy prof. I. Fejes

Members of the Subcommittee

▶ Administrative level

- **Ministries (Informatics, Agriculture, Economy and Transport, Defense, Interior, etc.**
- **Gov. Offices (HSO)**

▶ Professional level: representatives of

- **industry (users)**
- **experts**
- **EUPOS Candidate Service center**

Follow-up tasks of our EU membership



EU 6th R+D Framework Programme

- ▶ **Representation in Programme Committee (HSO)**
- ▶ **Distribution of information**
- ▶ **Encouraging potential partners**
- ▶ **Priorities of the FP6:**
 - **GMES**
 - **Galileo**
 - **Satcom**

Galileo Subcommittee

- ▶ **Tasks derived from our EU membership**
- ▶ **Interministerial public administration process, official Hungarian position in Galileo related matters**
- ▶ **Under the auspices of the Ministry of Informatics and Telecommunications**
- ▶ **Subcommittee members: representatives of all interested ministries (chairman: Dr. Előd Both, HSO)**
- ▶ **Activity: restricted to public administration tasks (no technical)!**

Progress in preparation for EUPOS



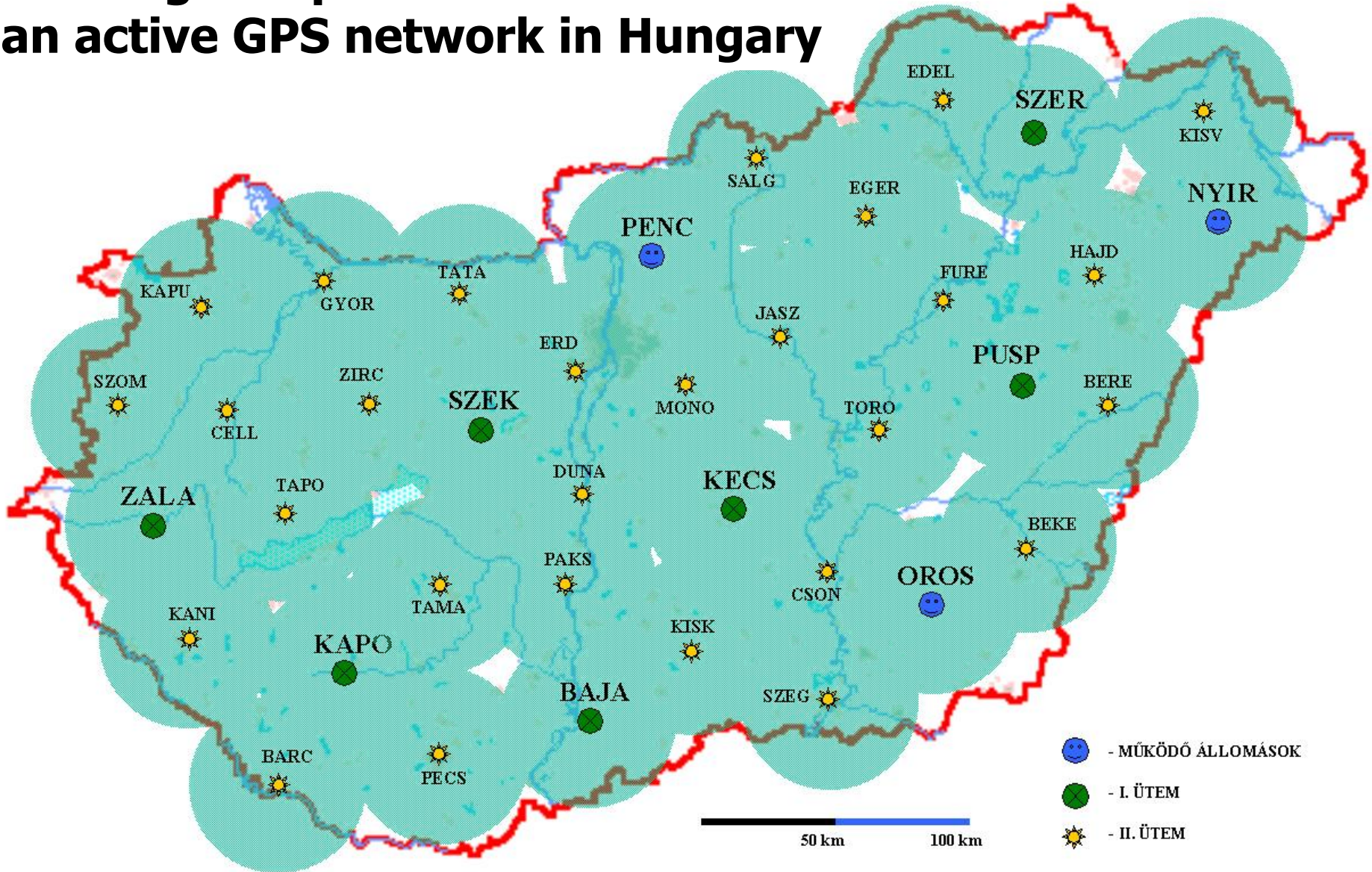
A recommendation of the feasibility study:



**Introducing EUPOS in Hungary
would be advantageous**

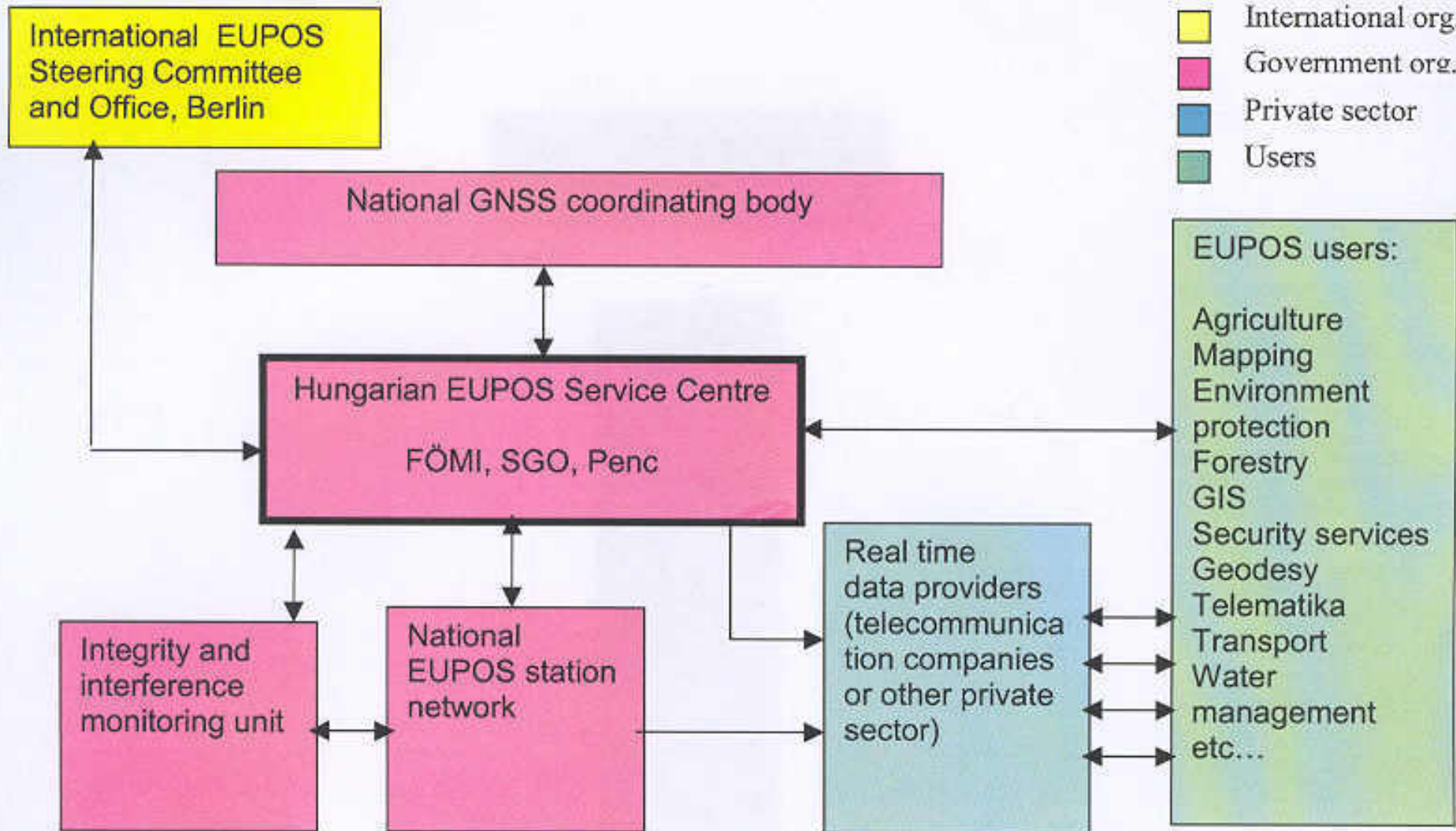
- **planning the network of stations**
- **establishing a service center
(on the basis and expertise
of an existing institution!)**

Existing and planned stations of an active GPS network in Hungary



Courtesy TTTC Ltd.

The Hungarian EUPOS organisational structure



Courtesy prof. I. Fejes

Further progress

- ▶ **Detailed system studies are being prepared**
- ▶ **Request to the Government in order to create EUPOS Hungary in 2006-07 (prepared, to be submitted in early 2005)**

Conclusions

Triggering factors:

- ▶ **UN GNSS conferences have a positive, triggering influence**
- ▶ **as an EU member state we share Galileo programme: new tasks**

Progress:

- ▶ **Successful EURISY Conference**
- ▶ **Good progress in administration**
- ▶ **Slight progress in technical respect (due to lack of financing)**

