



Joint Meeting of Action Team on GNSS and GNSS Experts of UN/USA Regional Workshops and International Meeting 2001-2002

8-12 December 2003, Vienna, Austria

Development of a national GNSS policy and institutional support in Hungary

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- Origins
- Awareness increase
- Info for decision makers
- Public administration process
- Planned institutional background
- **Technical plans**
- Conclusions

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

- Textbooks
- Bimonthly magazine
- Public lecture
- Website

Textbooks

- Being prepared
- **Both to be published in the 1st half of 2004**
- Authors: a group of outstanding experts of theory and applications
- Goals:
 - Book A.: the first comprehensive textbook in Hungarian language on the GNSS (a few hundred copies)
 - Book B.: mainly for everyday users, without too much mathematics (a bit less than 10,000 copies)

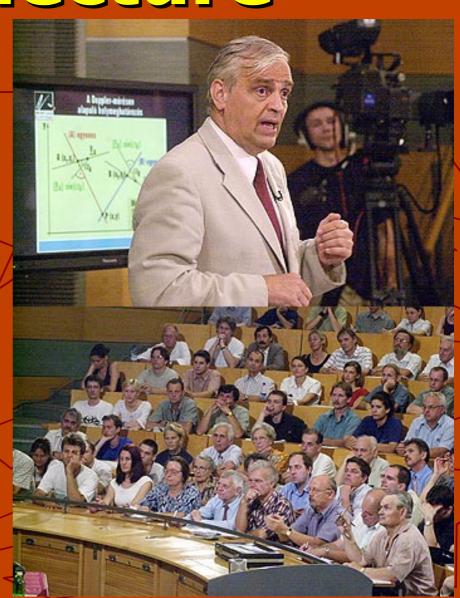
Bimonthly magazine

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



Public lecture

- Element of a long series on sciences
- Supported by the Academy of Sciences
- Sponsored by a telecom Co.
- Broadcasted by 3 tv channels
- High social impact



Website



- Private venture
- News, informations from all over the world, for professional and non-professional users
 - Geoinformatics, geodesy, precision farming, marine applications etc.

Public administration process

- Goal: more effective use of available service (e.g. higher accuracy)
- **Inputs, vision**
- Role of existing institutions
- **Creation of new institutions**
- Regular exchange of information

Key players **Public Experts** administration **Consultative** body **Exchange of Decision** information New, specialized **Existing** institution institution **Articulation Service** of demand **Users**

Info for decision makers (1)

- Expert and administration level consultations on the use of GNSS
- Organisers: Min. of Transport (later Min. of Informatics), HSO
- Participants: from several ministries
- Conclusion: Feasibility study is necessary

Expert level activity

- In the meantime: expert level participation in
 - UNISPACE III GNSS Action Team
 - EUPOS expert group
- Participation at the December 2002 UN/USA GNSS Workshop
- Important outcome: EUPOS is among the UN Workshop recommendations!

Info for decision makers (2)

- Jan. 2002: report on UN/USA Workshop an GNSS issues to the Hungarian Space Board
- Aug. 2002: proposal to the minister of informatics on EUPOS
- Aug. 2003: report to the minister on the outcome of the Feasibility study
- end 2003: preparation of establishing a coordinating body (see later)



An interministerial forum would be necessary for

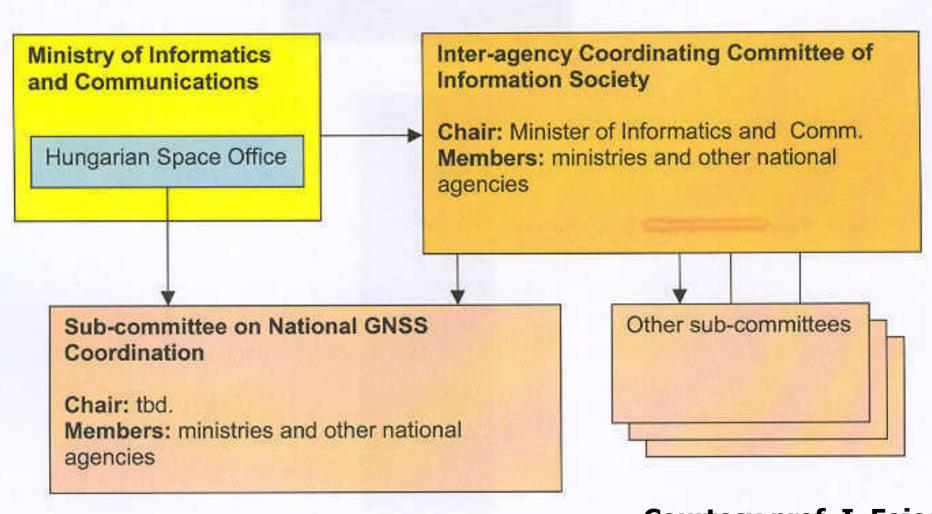
- coordination,
- strategy making,
- planning

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 (planned, to be created in early 2004)

Coordinating body



Courtesy prof. I. Fejes

Planned members of the Subcommittee

Administrative level

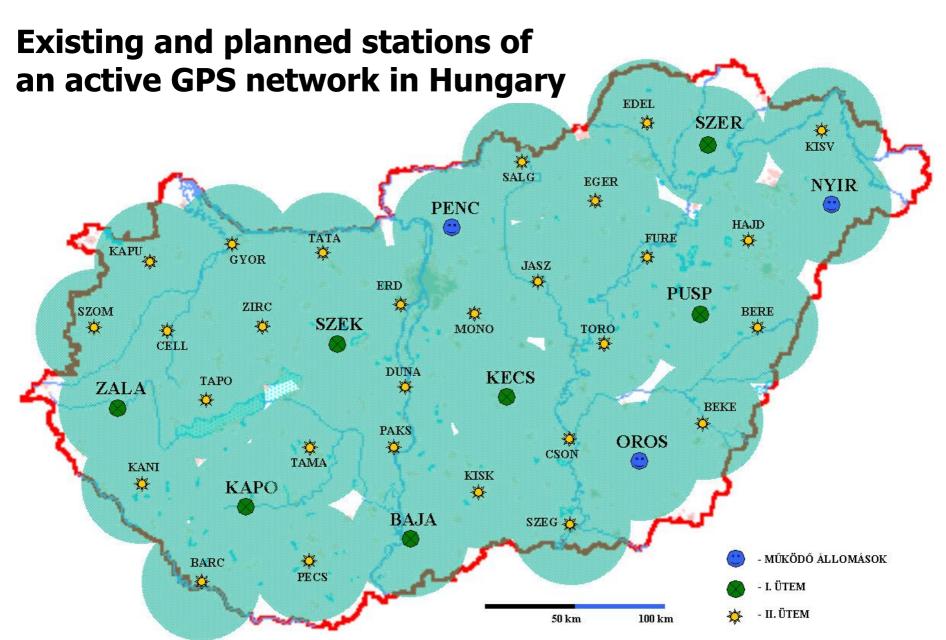
- Ministries (Informatics, Agriculture, Economy and Transport, Defense, Interior, etc.
- Gov. Offices (HSO)
- Professional level: representatives of
 - industry (users)
 - experts
 - Service center (if established)
 - Info centre(s)

A recommendation of the feasibility study:



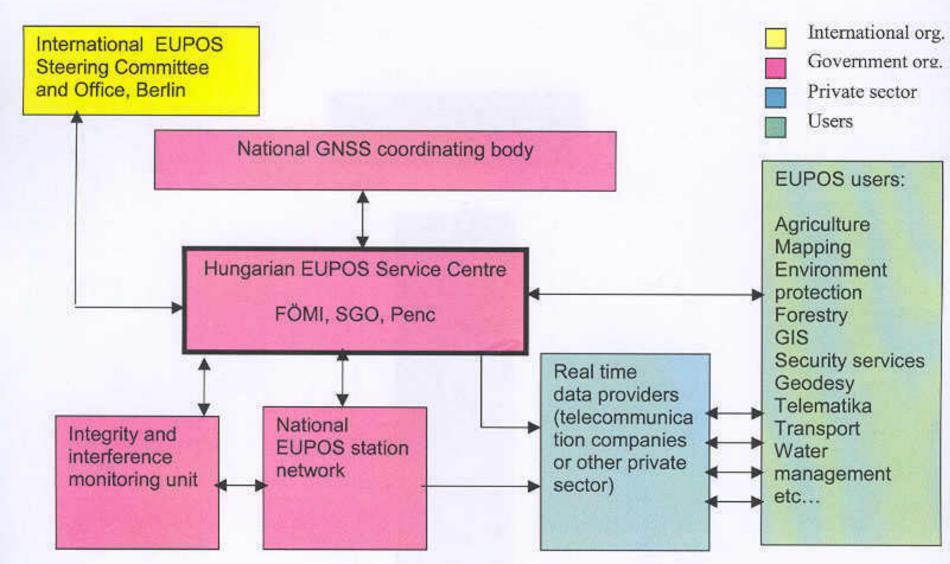
Introducing EUPOS in Hungary would be advantageous

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



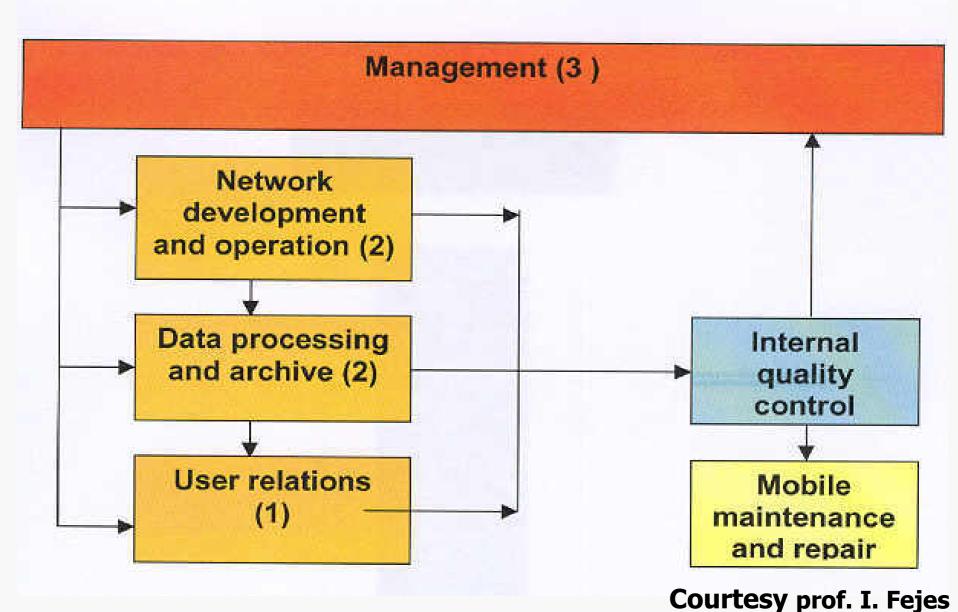
Courtesy TTTC Ltd.

The Hungarian EUPOS organisational structure



Courtesy prof. I. Fejes

Structure of the Service Centre



Funding

- Internal sources state budget, perhaps from different ministries
- Public private partnership
- External sources possible EU support

Conclusions (1)

Role of UN:

- GNSS conferences have a positive, triggering influence
- Recommendation by UN GA could be also beneficial

BUT:

- Technical harmonisation is not at UN level
- Definition of tasks, implementation is national responsibility

Conclusions (2)

Role of national public administration:

- Realize the importance of GNSS
- Promote the wide use of the available services
- Let the market expand
- Define the tasks beyond the scope of the private sector and users
 - If necessary, create an additional infrastructure, for the benefit of all local users, i.e. the people

