DATR towards e-Land Administration in Hungary

Gyula IVÁN-Gábor SZABÓ-Zoltán WENINGER-Piroska Zalaba
Institute of Geodesy, Cartography and Remote Sensing, Budapest, HUNGARY
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Republic of Hungary

- Area: 93 000 sqkm
- Population: 10 million
- Economy: (GDP based)
  - Services (62%)
  - Industry (27%)
  - Agriculture (5%)
- Cadastre & Land Registry:
  - No. Of Parcels: 7.6 million
  - No. Of Properties: 10 million
The Unified Hungarian Land Registry

- In Unified Land Registry Cadastral Mapping and Registration of Lands (Properties) belongs to the same organization: Land Office Network
- Unified Hungarian Land Registry has been operating since 1972
- Unified Hungarian Land Registry is a Title Registry, all registered rights are guaranteed by the State

Structure of LA in Hungary

Department of Lands and Geoinformation at Ministry of Agriculture and Rural Development
Overall supervision of LA Sector

19 County Land Offices + Land Office of the Capital
- County level supervision of District Land Offices
- Second level authority in LA cases
- Planning and coordination

District Land Offices (121)
- Daily updating of unified Land Registry
- Cadastral mapping
- Land valuation, land protection, land use
- Data service
- First level authority in LA cases

FÖMI
- R+D activities
- Support of Land Offices
- Operation of TAKARNET
- Topographic mapping
- Remote Sensing activities
- State Boundary Survey
- Quality Management
- Cosmic Geodesy

National Cadastral Program
- Huge cadastral mapping projects
Present IT Infrastructure of LA

TAKARNET Network

Participants:
- Users
  - Internet
  - GSM
- GNSS services
- Land Registry Services
- County Land Offices
- District Land Offices
  - Unified Land Registry Database

Institute of Geodesy
- Satellite Geodetic Observatory

TAKARNET Network

Institute of Geodesy, Cartography & Remote Sensing, Budapest, HUNGARY
Land Registry Services

- Copy of Land Record & Cadastral Map
  - Searching based on Lot number or Address
  - E-authentic Land Records
- Billing information
- Property change monitoring
  - Automated service on e-mail or sms
- All these services are available only for registered and authorized users (lawyers, banks, surveyors, tax office etc.)
- Authorization is licensed by the Ministry

Operating of Services
Digital Land Office Concept

- Long-term (5-8 years) strategic concept for implementing a full e-Land Administration in Hungary
- Main goals:
  - Improve land registry services via Internet for wide-range of users
  - Rationalization of resource requirements of operation

Elements of Digital Land Office Concept

1. Size-up, Analysis, Proposal, Decision, System Design
2. Central, Non-stop Land Registry Services
3. Client Gate I. (Access)
4. Central Transaction System
5. Economic Statistical Service
6. Electronic Document Handling
7. Client Gate II. (On-line case handling)
8. On-line connection with other public administration systems
### TAKARNET24 project

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### Budapest, Capitol of Hungary

![Budapest, Capitol of Hungary](image)
Changes in Transactions

Core of TAKARNET24-DATR

- DATR is an object-oriented integrated information system for the unified registry (both cadastral maps and legal part)
- DATR has developed by FÖMI en bloc (both professional and informatic side)
- DATR has open APIs for customization of the system
- DATR has interfaces for ORACLE and MySQL RDBMSs
- Customization of the system is very easy to any legal and technical environment
- International version of the system will be published
- DATR data model acts as a country profile for ISO LADM
Important products of the project

- Unified codes countrywide, central registration and maintenance of codes
- Countrywide Map browser based on orthophotos and cadastral maps
- Connection to Client Gate (operated by the Government)
- Connection to Central on-line Payment System
- Property Change monitoring
- Data warehouse functions:
  - Data mining
  - Statistics

eEurope2002 - Impact and Priorities

- Four stage framework for public services:
  1. Posting of information on-line (TAKARNET info)
  2. One-way interaction (digital application sheet dl.)
  3. Two-way interaction (dig. Application sheet download and upload)
  4. Full on-line transaction including delivery and payment (downloadable copies, payment, property monitoring)

- TAKARNET24 project satisfies all stages of framework
Conclusions

- Digital Land Office concept has defines the further development directions of Land Registry Services in Hungary
- Implementation of the first three steps are going on
- Economic crisis strongly influence the execution of ideas
- TAKARNET24 project will be finished in time, September 2010
- DATR development has shown that the cooperation of land professionals and IT specialists results the best solutions

Thank you for your attention

ivan.gyula@fomi.hu
szabo.gabor@fomi.hu
weninger.zoltan@fomi.hu
piroska.zalaba@fvm.gov.hu