

# **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

### **DATR, IT system for Unified Land Registry**



- DATR is an object-oriented integrated information system for the unified registry (both cadastral maps and legal part)
- DATR is working at 120 District Land Offices (except the Capitol, Budapest)
- 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

## **Central Unified Land Registry Database**

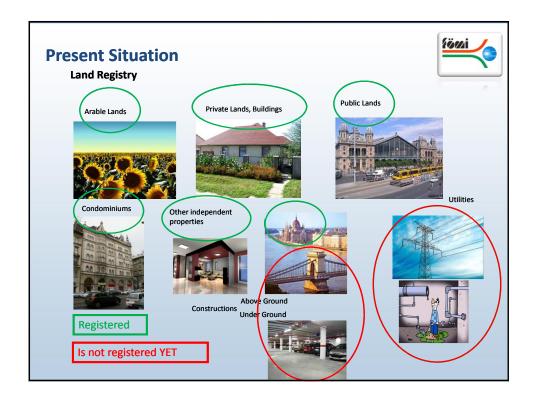


- Including:
  - Cadastral Parcels, and subparcels
  - Land use
  - Buildings
  - Land Values (for cultivated lands)
  - Administrative Units and Subunits (built-up and rural areas)
  - Land records (descriptive data, ownership, mortgages, easements, usufructs, restrictions)
  - Land user data

### **Legal Framework on Land Registry**



- Two main Acts influence deeply Land Registry:
  - o Act on Surveying and Mapping Activities from 1996
  - o Act on Land Registry from 1997
- · Reasons for change:
  - O Both Acts deal with the circumstances 15 years before, during this period of time a lot of changes has happened, mainly on technical fields
  - o No maps are exiting anymore, databases received their functions
  - o There is a great need for a real 3D Cadastre
  - o New databases, datatypes came to the front
  - o New technologies (e.g. remote sensing) has a great influence in determination of LR feature at present and in the future
  - o International regulations (e.g. INSPIRE directive) deeply affect Hungarian Land Registry Activities
  - o Land Administration should inspire land and mortgage market more effectively









 Unified Hungarian Land Registry is a Title Registry, therefore all cadastral boundaries are fixed boundaries, derived from a strict demarcation procedure



 New proposal allows the usage photogrammetric materials (e.g orthohpotos, stereophotogrammetric measurements) for demarcation procedure in the office



#### 10mi From Maps to Databases No maps are existing anymore, long live Databases (see Cadastre 2014!) In Hungary all map data are available in RDBMS format, therefore no regulation is needed for traditional maps Because of Unified Land Registry there is an overlap between Map and Land Registry Database All Map Databases, which act in an Public Administration Procedure, must have a copy at Land Registry Authority State Map Databases Record Database State Remote Sensing Terrestrial Photogrammetry Cadastral Map Aerial Photogrammetry Satellite Images State Topographic Databases

#### **Conclusions**



**Unified Land Registry** 

**Database** 

- Hungarian Unified Land Registry is a good system for managing a modern Land Administration
- FÖMI has an important role in development both professional and informatic side of the system
- FÖMI's development, DATR, showed that a welloperating Land Adminsitration IT system can be developed with inner-sources
- New, proposed development in legal environment, follows to a more effective and economy-friendly Land Administration

