Interconnection between Cadastre and Land register

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Topics

• Basic principals of the Cadastre in AT
• Registration process
• Process between Cadastre and LR
• Ongoing developments in Cadastre
• Conclusions
Characteristics of the Austrian Cadastre

• 10.5 Mill cadastral parcels
• 3 Mill property units
• Cooperation Public and Private (licensed surveyors)
• “Real time” - maintenance
• High availability (24/7)
  • all data available in digital form
  • Data are public and accessible to everyone
  • Full record of any changes concerning parcels since 1883
Certification process in Cadastre

Owner

Electronic Entry Process
BEV-Web-Portal

Electronic timestamp

Validation process

Format (PDF/A-1b, text, ZIP)
Electronic Signature

user data, Check for attachments

Discussion with all owners
Field survey
Surveying document

Licensed surveyor

Login at BEV-Web-Portal

Cadastral Processing in Cadastral Office

Preview layer of DKM
"new situation"
Certification condition for registration in LR

Registration

Interconnection between Cadastre and Land Register
Cadastre Processing System

• central Cadastre management and maintaining tool for the cadastral offices
  • Virtual offices, fully digital process
  • Centralized applications and data
• all business cases of the 41 cadastral offices
• unique consecutive number for the business cases
• subdivision tables
Surveying document for subdivision
Pre-execution (Pre-view) Layer

- pre-execution of graphic data based on surveying document in a special layer of the Cadastral map
- Ensure the updating process of Cadastre
- Included Quality check
  - prevent inconsistencies
- Visualisation of future changes
Digital Cadastre archive

- connected with the Cadastre Journal
- contains all documents of each business case since 2012
  - Ongoing digitization of old surveying documents (2025)
- contains meta data of all documents
- interface to Ministry of Justice (land registry)
  - BEV-decision, subdivision plan, subdivision table,…
- interface to BEV- Web portal
Process Cadastre - Land register

- Via electronic request application
  - Mandatory for notaries, layers
  - Cadastral Offices
- One single and authentic reference document (subdivision document)
  - archived in the central registry of the BEV
- Update of the Cadastre immediately following the decision of the LR
  - no more waiting for analogue copies
- Enabled by the pre-execution layer
  - pre-execution of graphic data in the special layer of the Cadastral map
- “No” time lag between Cadastre + LR
Subdivision table

- Subdivision table as a core element of the process
- Provided by the cadastral Offices based on surveying document
- Produced by means of the pre-execution layer
- reference table for the updating process of the LR
  - Automatic production of the LR decision
- reference table for the updating process of the Cadastre
Accelerated Updating process

• Update of the Cadastre immediately following the decision of the LR
  • no more waiting for analogue copies

• Enabled by the pre-execution layer
  • pre-execution of graphic data in the special layer of the Cadastral map

• No time lag between Cadastre + LR
Ongoing developments in the Cadastre

• Scanning the cadastral archive
  • ca. 5 Mill surveying documents (from 1883-2012)

• Develop structured surveying document
  • Extract descriptive information from the pdf-document

• Homogenize the fixed points system
  • 250 000 fixed points in ETRS

• Prepare transformation of cadastre from MGI (national system, Gauß-Krüger) to UTM
Conclusions

• Glance to the study of the WPLA (“one or two organisations”):
• Austrian model as a Best Practice of organisational structure of Cadastre and LR
• Different model compared to others in Europe
  • Registration of the property at the Land register is based on legally fixed boundaries
  • Surveying process is at the beginning!
• Fully electronic process, no duplication of work and data, accelerated registration and “synchronized” Cadastre and Land register
Thank you!

Austrian cultural heritage

200 Years Cadastre

See you:
www.bev.gv.at