Geo-Data Infrastructure for Land Management in Austria

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Content of Presentation

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- Land Administration in Austria
- SDI for Land Management in Austria
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  - In Specific Areas Existing Data Sets
  - Austrian Contributions for European SDI
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Austria

Austria: Statistics

- Area: 83,000 km²
- 8.2 Mio inhabitants
- GNI: $ 24,000
- GDP: 65% services; 33% industry; 2% forestry and agriculture

Forests (43%)
- High-mountainous regions (10%)
Agricultural land (32%)
- Others (2%)
- Settlements (5%)
- Wasteland (7%)

Public Land Administration

Land Administration Units

- Federal State (1)
- Federal Provinces (9)
- Municipalities (2359)
- Cadastral Units (7845)
- Parcels (appr. 11 Mio)

Authorities and Responsibilities

- Land Cadastre
- Land Register
- Specification of Land Taxes
- Spatial Planning
- Nature Protection
- Levy of land taxes

Countrywide Available Data Sets: Cadastre

Cadastre: Parcel-based and up-to-date information system, containing physical information about the parcel (geometric description of parcels, coordinates boundary points, size, land use, taxation value etc.)

- 1817 Grundsteuerrapport: Establishment of a countrywide cadastre ("Land Taxation Cadastre")
- 1968 Vermessungsgesetz: Enables Mutation of data sets of the "Land Taxation Cadastre" to data sets of higher quality ("Boundary Cadastre")
- 2003: Completion of digitalisation of the Austrian Cadastral Map (DKM)
Countrywide Available Data Sets

Land Register

- Up-to-date and ownership-based register, containing all the information about the interests of lands and buildings (ownership, rights, restrictions, responsibilities, mortgages etc.)

  - Properties of Austrian Cadastre and Land Register:
    - Public
    - Legally Binding (registered ownership rights guaranteed by the state authorities)
  - 1985: Combination of Cadastre and Land Register to a common data set

Real Estate Data Base

Examples: Web - Access to Geoinformation in Austria

Examples: Digital Cadastral Map

Countrywide Available Data Sets

Aerial Photographs and Topographic Maps

- Aerial Photographs
  - Countrywide available since c.a. 1950
  - Photo scales: ~1:30,000 (old); ~1:15,000 (new)
  - Film specification: Black/White (old); Colour Infrared and Colour (new)

- Topographic Maps and Data:
  - Scales: 1:50,000; 1:200,000; 1:500,000
  - Analogue and Digital (raster format, some layers also in vector format available)
  - Digital Elevation Model (raster size up to 25m)
Examples: Austrian MAP

Available Data Sets on a regional or local level:
Zoning Plan
- Outlines assignment or allocation of a specific parcel
- Zoning Plan has a regulation and a development function
- In the responsibility of municipalities

Available Data Sets on a regional or local level:
Danger Area Plan
- Outlines Areas with specific risk of natural disasters (only available in endangered regions)
- Degree of risk indicated in different colour

Austrian Contributions for European SDI
- EuroGEOGRAPHICS
  Objective of EuroGEOGRAPHICS: Implementation of a European-wide topographic map in the scale of 1:1,000,000 to help the public and the private sector to develop good governance
- EULIS: European Land Information Service
  Objective of EULIS: Online and always up-to-date Europe-wide Information System on property rights across European boundaries
- NATURA 2000
- CORINE Land Cover Project
- EuroRoads
- etc.

Principles of Austrian GD-Policy (excerpt)
- The implementation and the management of a geo-data (geo-information) infrastructure is a public duty.
- The access of public available geodata is to guarantee in a defined quality.
- Responsibilities and competences for the implementation, the maintenance, and the provision of geodata must be clearly defined.
- The use of geoinformation and the access to geodata should be facilitated in a simple manner. Modern technologies for data access via Internet are to provide (e.g. eGovernment).
Conclusions

- Austria has a long tradition in capturing, maintaining and delivering of Spatial Data Infrastructure.
- Austria is a country with a high developed SDI.
- In Austria SDI lies in the responsibility of different levels of land administration.
- Many data sets of Austrian SDI are available on Internet.
- Austria is working on a countrywide Geodata Policy.
- The Federal Office of Metrology and Surveying is the authority to coordinate SDI on a national level.

What remains to be said . . .

... Thank You for Your Attention.

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