



E-Land Administration 2015 - Vision or Reality ?

Dr.-Ing. Winfried Hawerk
Germany

Standards

- International standards are a key element in SDI-projects
 - ISO
 - OGC
 - FIG Cadastral domain model
- interoperability of data
- online access OpenGIS web services



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INSPIRE

- EC Legal framework developed from EC officials and experts in member states
- implementation from 2006 onwards
 - different types of geographical information resulting in a ESDI
 - availability of data for Community policy-making
 - starting with environmental policy



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INSPIRE

- INSPIRE geo-portal is Europe's Internet access point for spatial data and services
- prototype version

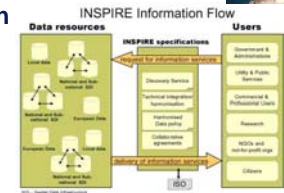


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Developments in LA sector

- IT renewal strategy in Europe
 - migration into new technical environment
 - technical reasons
 - politically and customer driven aspects
- information access via internet
- e-land administration + e-commerce = e-government



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Role of cadastral data in Europe

- Cadastral data guarantee
 - confidence
 - accuracy
 - actuality
- Cadastre plays no significant role in ESDI initiatives
 - Quality of data
 - Standards



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GALILEO

- Launched 2003 by EU and ESA
- civil navigation system
- 30 satellites
- operational 2008
- better cost efficiency for surveying operations



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Spatial Data Infrastructure Germany

- INSPIRE initiative on European level
- German Geodata Infrastructure
 - Federal level GDI-DE
 - Several initiatives on state level
- Data of surveying authorities are basic elements of GDI
 - AFIS®- ALKIS®- ATKIS®-data
 - International Standards
 - GeoPortal.Bund



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GDI-DE

- Federal Government and state surveying authorities are working on GDI-DE
 - meet user requirements
 - Overcoming inconsistent licensing and pricing policy
 - Co-ordination of activities
 - Co-ordination of data quality and availability



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IMAGI

- IMAGI improves coordination on federal level
- GeoMIS.Bund metadata system
- GeoPortal.Bund will be the main entrance for GDI-DE
- node for INSPIRE geoportal
- politically driven
- collaboration of public and private sector



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e-government

- lack of coordination
- different activities on state and local level
- federal structure
- Political support
- Deutschland online



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ALKIS

- Object based conceptual data model for cadastre
- guaranteed content and quality of data throughout entire Republic
- international standards
- front ends use internet browser technology
- cadastre fit for e-government and GDI-DE starting 2005



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SAPOS

- Public service for real time and post-processing differential GPS applications
- 250 permanent reference stations allow RTK for cadastral purposes <math>< \pm 3 \text{ cm}</math>
- Data Access via Internet



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ETRS89 in cadastre

- Historically grown > 150 reference systems in Germany still in operation
- ETRS89 and UTM will be implemented in cadastre
- tensions can be identified and will be compensated
- no control-points necessary



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Workflow

- new workflow for cadastral procedures
 - ALKIS
 - digital archives
 - ETRS89
- e-process to field and back to office and to the customers
- digital processing and data transfer between private and public sector



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Future tasks

- IT renewal strategy goes hand in hand with organisational renewal process
- public private partnership
- introduction of ALKIS standard
- introduction of ETRS89
- data quality improvement



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Cadastre 2015

- Obstacles due to federal structures will be solved by cooperation on all levels
- Germany will be able to become a developed country on the sector of e-government



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Cadastre 2015

- Germany will be back on the scene
- by starting slow and compensating this handicap with a strong finish
- not running for gold but a good position



FIG WW 2004 Athens





FIG WW 2004 Athens

