



Advances in Modern Land Administration – Cadastral 2014 in the Year 2006

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Commission 7 Working Group 7.3 on Modern Land Administration

- **Terms of reference**
 - identify the impact of advanced technology on land administration systems
 - focus on electronic conveyancing and electronic submission of documents
 - electronic signatures
 - focus on internet as a distribution channel
 - focus on standards (ISO as applied to 'cadastrals')
 - develop recommendations
 - identify best practices
 - organise 1 symposium on use of advanced technology



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IT Renewal Strategies

- **Current situation**
 - **Cadastral software systems for maps and records outdated**
 - Development from the 70s and 80s
 - No standards
 - No E-Government
 - Problems with hardware
 - Problems with software



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Step by Step Approach

- **Complex, time consuming, cost-intensive**
- **Road map**
- **Smooth process**
- **Example The Netherlands**
 - **Start 1996**
 - **Final strategy 2002**



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Big Bang Approach

- **Long introductory period**
- **Extensive test phase**
- **No parallel data capture**
- **Faster and less costly ??**
- **Risks during the implementation phase**
- **Training of staff**



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Experiences so far

- **Finland**
 - **Some years of planning**
 - **Implementation 1998**
 - **Productivity + 30 %**
- **Germany**
 - **Development of the system completed**
 - **Implementation phase started**
 - **Improvement of workflow**



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Situation in Germany

- Database for textual information ALB development from 70s
- Digital mapping system from 80s
- Development from the Cadastral authorities
- Documentation at least not very good
- Maintenance becomes difficult



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IT Renewal Strategies

- Need for Renewal
 - Technical aspects on hard- and software
 - Customers require internet access
- Standards are developed
- Germany will introduce



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E-Land Administration

- Internet service from the cadastral authorities
 - Part of larger E-Government programs
 - Part of SDI activities
- Standards (OGC and ISO)
- Interoperability of
 - Data
 - Software
 - Information



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Activities in Germany

- Deutschland-Online
 - Activities on all levels of administration coordinated by the Conference of State Secretaries appointed by the Federal Ministry of the Interior
- GDI-DE coordinates activities in the states
- Cadastre is a basic element of GDI-DE and the EU INSPIRE initiative



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E-Land Administration and SDI

- INSPIRE directive will be implemented in 2007
 - Cadastral parcels and property identifiers are important part of the system
- Additional data in cadastral maps and records are required
- Geodata online available
 - Pricing
 - Ownership of data
 - Guarantee of correctness



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Cadastre 2014 in 2006

- Cadastre 2014 is still up to date
- Some statements can only be realised through the implementation of SDI projects
- Standards become very important
- New statement: „Cadastre 2014 will be highly standardized!“



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