

International Trends in Land Administration

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Table of Content

- > Trends
- How to answer

Sustainable Development (1/2)

- "Our common Future" (Brundtland, 1987):
 - SD as the 'development that meets the needs of the present without compromising the ability of future generations to meet their own needs'
 - > protecting the natural environment
 - > improving the social situation for the poor
 - > combating poverty
- UN-Rio Conference on Environment and Development, 1992:
 - world faces two major challenges: protecting the environment and alleviating poverty
 - Rio Declaration on Environment: Agenda 21 action program for SD
 - tripple bottom line: economic, social, environmental

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Sustainable Development (2/2)

- · World Summit on Social Development in Copenhagen, 1995, and World Women's Conference in Beijing, 1995:
 - the importance of giving equal access to land and security of tenure for underrepresented groups (women, indigenous people, vulnerable groups)
- UN-Conference on Human Settlements (Habitat II), 1996:
 - challenge of fast-growing cities in developing countries to be mastered through proper planning, land management and security of tenure
- World Food Summit in Rome, 1996:
 - underlined the importance of good management of land in providing food for the growing world population



Good Governance

Global Campaign on Urban Governance (UN-Habitat, 2002)

- Sustainability in all dimensions of urban development
- Subsidiarity of authority and resources to the closest appropriate level
- Equity of access to decision-making processes and the basic necessities of urban life
- Efficiency in the delivery of public services and in promoting local economic development
- Transparency and accountability of decision-makers and all stakeholders
- Civic engagement and citizenship: empowerment and active participation of citizens in decision-making processes
- Security of individuals and their living environment

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Civic Participation Evolving Relationship State-Citizen (from Magel, 2002) Establishment Subjects Model Citizen as a Municipality Citizens "Father State" subject Model Citizen as a Provider Clients "State as an Municipality client entrepreneur" Model Citizen as a Municipal 'Activating State" partner Council Municipality as an Citizens, organism in perspective of an active civic society. Municipal Administration swisstopo | Modern Trends in Land Administration | FIG-Seminar on e-Land Administration, | 6 Innsbruck, Austria, 2-4June 2004

E-Government

The 4 not-so-easy steps to e-government (The Economist, 2000)

- 1st stage
 - to post information about themselves
 - one-way communication
- · 2nd stage
 - two-way communication, allowing citizens to provide new information about themselves, e.g. adress changes
- 3rd stage
 - formal, quantifiable exchange of value to take place
 - e.g. renewing licenses, paying a fine, enrolling for educational course, filling out tax returns, claims for benefit
 - so far mainly on local or state level rather than central government level
- 4th stage
 - portal that integrates complete range of government services
 - based on needs and functions, not on department or agency

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Cadastre 2014 Vision Statements

- Cadastre of the future will show the complete legal situation of the land, including public rights and restrictions!
 - CADASTRE 2014
- Separation between maps and registers will be abolished!
- Cadastral mapping will be dead! Long live modeling!
- Paper and pencil-cadastre will be gone!
- · Cadastre 2014 will be highly privatised! Public and private sectors are working closely together!
- · Cadastre 2014 will be cost recovering!

Summary of Trends

- Sustainable Development
- Good Governance
- Civic Participation
- E-Government
- C2014 Vision Statements



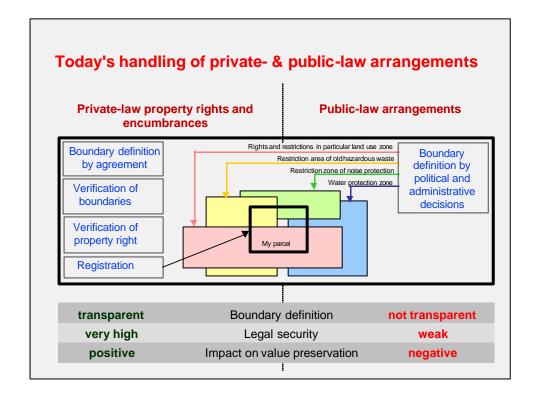
How to answer?

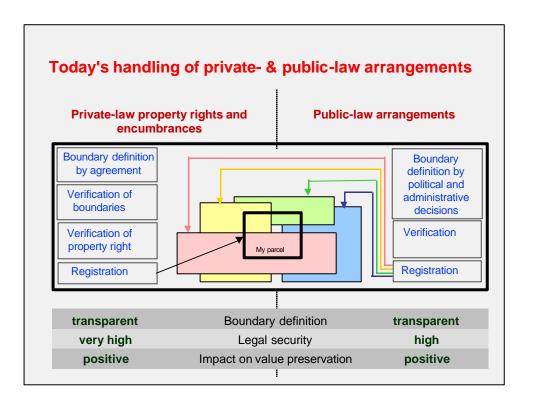
- · by establishing and achieving complete and comprehensive cadastral system
- by adopting a policy of data integration and sharing
- by the consequent use of system independent standards and data modeling
- by adopting two new definitions:
 - land objects
 - principle of legal independence

Answer 1: Complete and comprehensive cadastral system

- · complete coverage (information systems, not isolated cadastral patchwork)
- comprehensive coverage
 - one unique cadastralsystem, not several parallel systems (private-public, urban-rural, forest, etc.)
 - comprehensive content (all land related legalissues, private rights as well as public restrictions/responsibilities)

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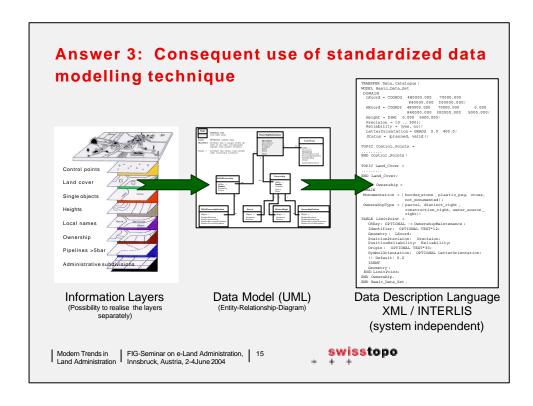
Answer 2: Data integration and sharing

- issue nowadays is about information systems, which are supposed to provide service to users
- avoidance of double data acquisition (acquire once - use many times)
- cost efficiency
- transparency
- easy access



LDBS queries (LMV, 1998).

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Benefits for using standardized data modeling techniques

- · data and information exchange across different systems without information loss
- · basis for system-independent tendering process (product- rather than method-oriented)
- basis for flexible, efficient and comprehensive information
- · quality checking and assurance
- · long-time archiving

Answer 4: Adopt two new definitions

Definition of "Land Objects"

Land Parcel

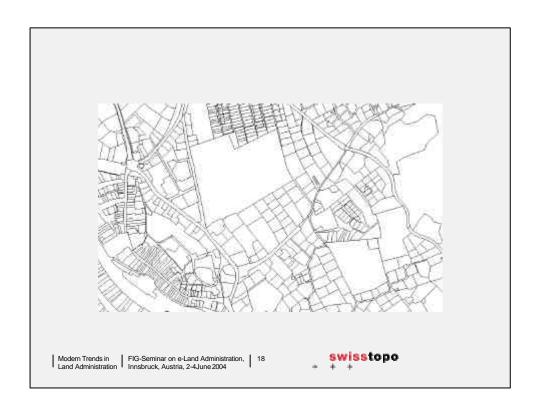
A land parcel is a piece of land with defined boundaries, on which a property right of an individual or legal person applies.

Land Object

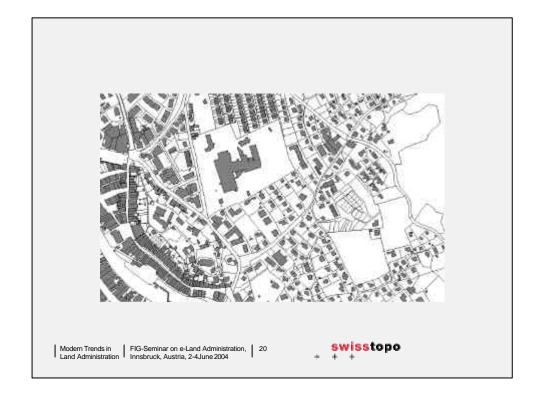
A land object is a piece of land in which homogenous conditions exist within its boundaries.

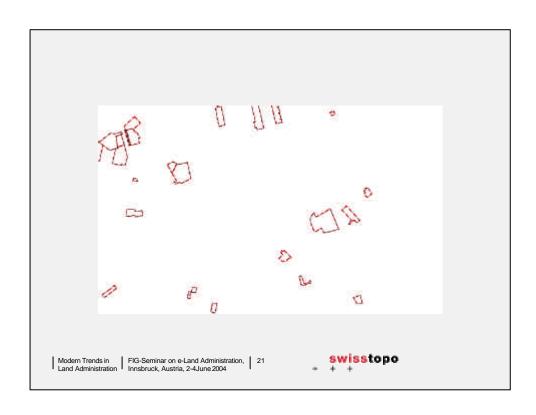
A legal land object is described by the legal content of a right or restriction and the boundaries which demarcate where the right or restriction applies.

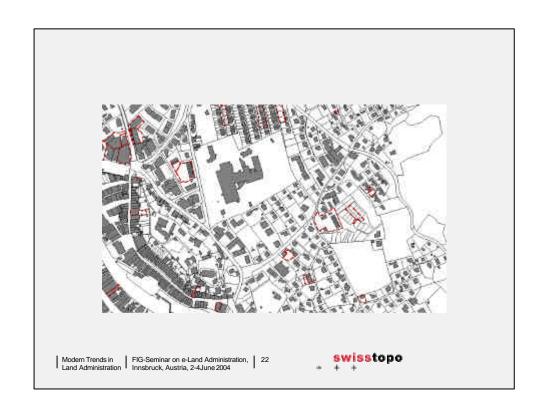
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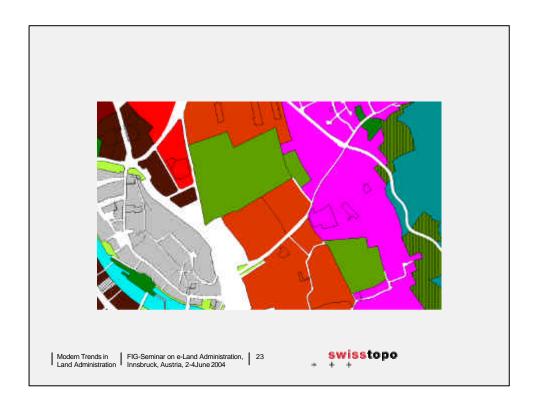










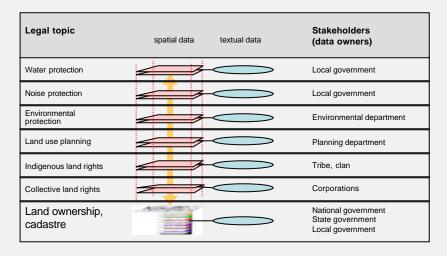




Answer 4: Adopt two new definitions

Principle of "Legal Independence"

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