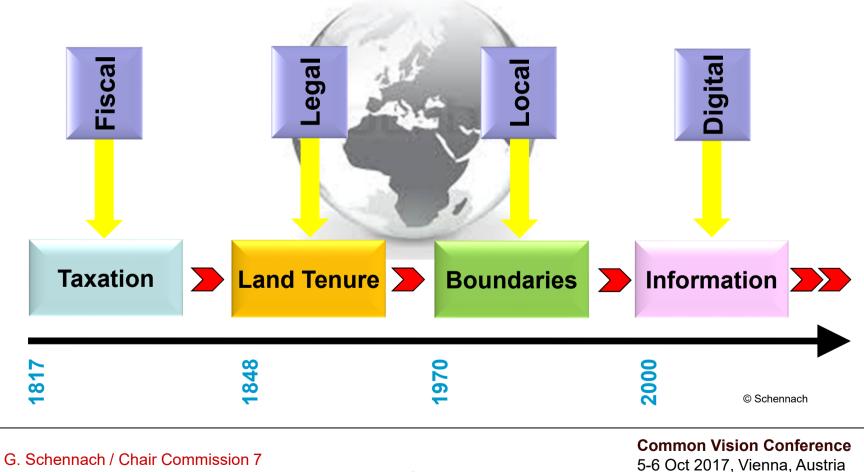
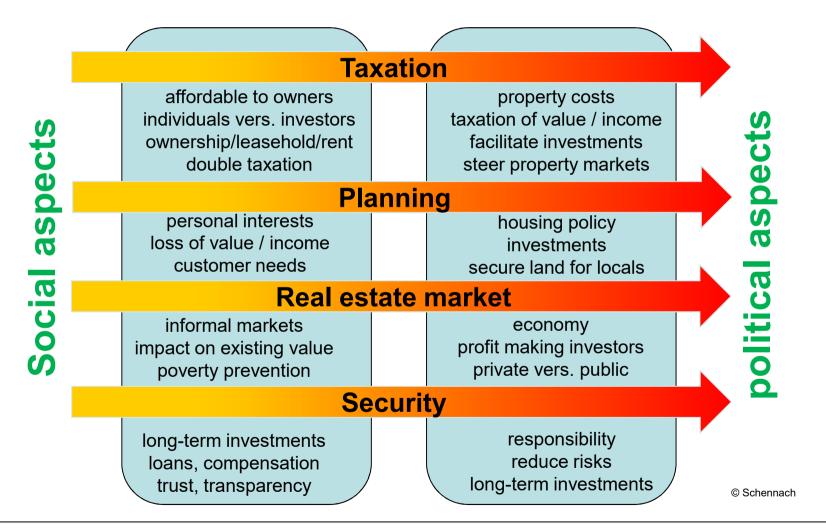
Cadastre 4.0 -Integrating the community for global security on land tenure

Gerda Schennach, Austria Chair of FIG Commission 7

200 years of innovation

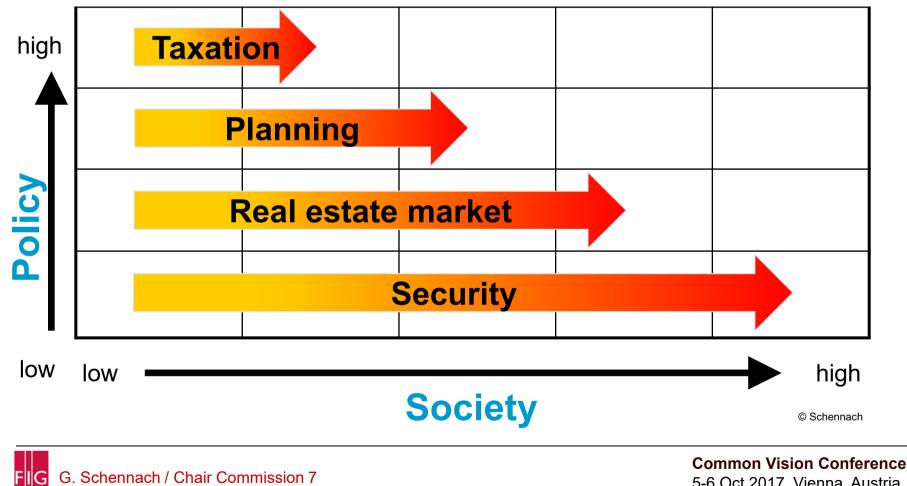




Common Vision Conference

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Global relevance



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Cadastre 4.0

Integrating the community for global security on land tenure

What about technology?

- internet of things / VGI / sensors e.a.
- everyone produces and publishes everything
- data are accessible for everyone and become a public (community) good
- > data reflect visible world \neq legal status
- smart procedures for selective processing of big data
- smart systems automatic acquisition of data and information
- work is no longer bound to location of land
- users (land owners) equal partners in systems
- users (land owners) may be big players in systems

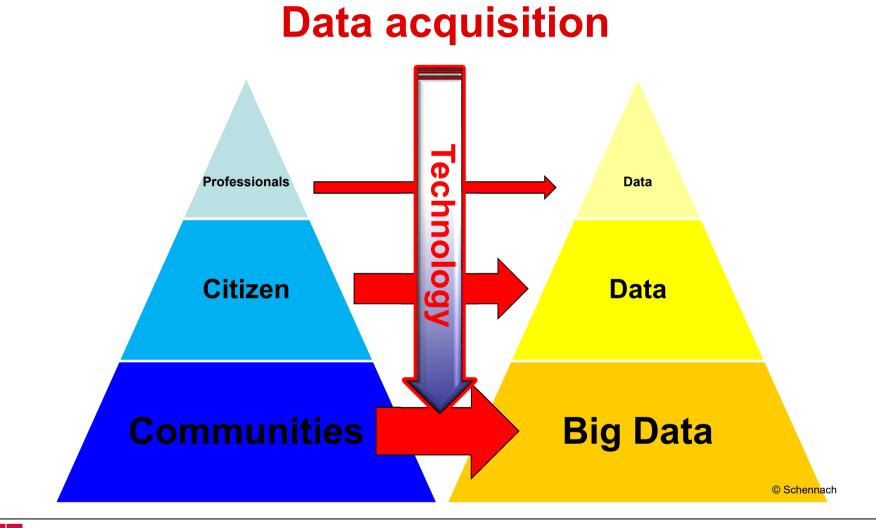


FIG G. Schennach / Chair Commission 7

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New business models

- communities produce substitutes
- society is user and producer
- > open government data vers. open data
- ownership of data (citizen, third party, community data...) and structures (hosts, clouds.....)
- financing / self-financing / cost-benefit models
- shift of power from public authorities to communities/citizen
- distributed responsibility models
- public authorities take role as facilitator and moderator
- users equal partners in systems
- change of paradigm for professionals

Cadastre 4.0

Integrating the community for global security on land tenure

The changing paradigm

Cadastre for Society gets created by Society

- technology is available and cheap
- new type user society growing
- > land owners get **active** information providers
- citizen as passive data providers

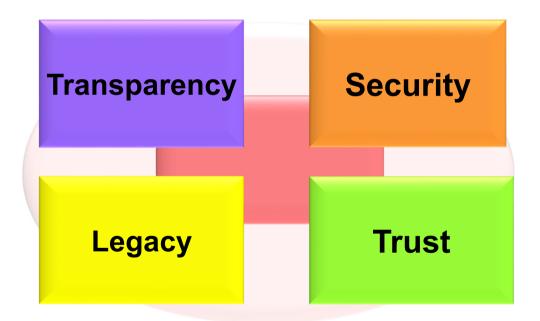
Stakeholders become Decisionmakers

- user profiles changing communities
- > community creates their own "regulations,,
- standards set by communities

Citizen become Shareholders

- > communities are **core part** of the (formal) processes
- > citizen are **owner** of information
- self-monitoring systems secure fit-for-purpose quality

The 4 basic principles of cadastre



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Cadastre 4.0

- services on demand by users provide legacy (cultural variety)
- flexible processes defined in moment of request
- self optimising processes increase security for users
- datasets know at their creation where they will be integrated
- system finds data which is needed/appropriate from relevant data sources and creates product/service
- transparent to users <-> citizen <-> land owners
- infrastructures and potential of systems for big data mgt.
- decentralised steering on demand (authentity)
- users and stakeholders intervene directly into the processes
- self-monitoring systems create trust (blockchain))

Cadastre 4.0

Cadastre 4.0 is a system based on fully automatically processing within a network surrounding of people and devices embedded in technological intelligence

The aim is to get to a self-operating structure built upon intelligent devices and procedures and data collections where the demand is defining the process instead of building upon defined and fixed processes.

