

WG 7.4 Citizen Cadastre

Dr. Conrad TANG - Gyula IVÁN

FIG Commission 7 Annual Meeting

23-28 October 2016., Coimbra, Portugal



Institute of Geodesy Cartography and Remote Sensing, Hungary

Key issues

- Land owners' role, interest and trust in Cadastre, Land Administration
 - · Involvement of them into processes
 - Changing environment and societal needs
 - · Peformance of Land Administration
- · Land Tenure
 - · Requirements of Society and Culture
 - Changing forms of Land Tenure (e.g. Temporary Urban, Agricultural LT), WG7.1
 - Security
- · Data and Models
 - · Multi-dimensional, -temporal cadastre
 - · Access to data
 - · Land Administration Model Analysis
 - Standards
 - 3D Cadastre Issues



Institute of Geodesy Cartography and Remote Sensing

2

Role of Land Owners

- Tools for involvement of land owners into LA processes
- Crowdsourcing (WG 7.3)
- Increasing interest in Land Registration (e.g. mandatory registration of property transactions)
- E-Land Administration (fully eletronic document handling, digital certification)
- Measuring Performance of Land Administration (Dr. Conrad Tang scientific research)
- Societal needs (e.g. handling migration)
- Changing Environment (climate change, limited water resources etc.)



Institute of Geodesy Cartography and Remote Sensing

3

Land Tenure

- Changing Forms of Land Tenure (in accordance with 7.1)
 - Temporary
 - Agricultural
 - Others
- Changing Land Policy of Governments (e.g. State Land Management, Privatization of Lands)
- · Security of Tenure



Institute of Geodesy Cartography and Remote Sensing

4

Data and Models

- · Multi-dimensional, -temporal cadastre
 - Cadastre should response to all situation in the past, present and the future
- · Access to data
 - · Open Data Initiative ?
 - European Union's Public Sector Information re-use Directive?
 - · Payment or Free?
- Land Administration Model Analysis and Standards
 - LADM is not only a standard, but a very useful platform for LA Model Analysis and comparision
- · 3D Cadastre Issues
 - · Do we need 3D Cadastre?
 - · If yes (I hope so) how should it be established?



Institute of Geodesy Cartography and Remote Sensing

5

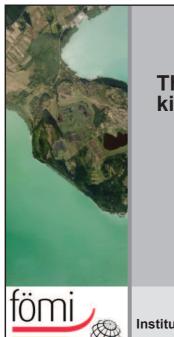
5th 3D Cadastre Workshop

- 18-20 October 2016, Athens, Greece
- 3D Cadastre operational experiences (analysis, LADM based, learn from each other, discover gaps)
- 3D Cadastre cost effective workflow for new / updated 3D parcels = 4D (part of whole chain:
 - from planning / design / permit in 3D, to registration / use in 3D)
- 3D Cadastre web-based dissemination (usability, man-machine interfaces, including mobile/AR)
- Legal aspects for 3D Cadastre, best legal practises in various legislation systems
- · Focus on large cities, including developing countries



Institute of Geodesy Cartography and Remote Sensing

6



Thank you very much for your kind attention

Institute of Geodesy Cartography and Remote Sensing