

### Closing remarks

19/03/17

Peter van Oosterom

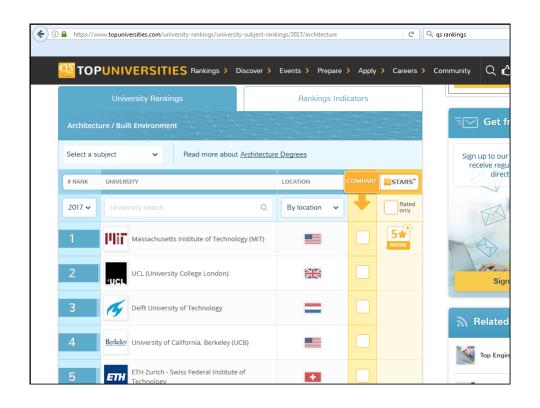
UN-GGIM Expert Group on Land Administration and Management Delft, 14-15 March 2017



#### Initial reflections

- It was a great honor host UN-GGIM: EG-LAM
- It were 2 though days
- Hard questions in the breakout groups,
   but very important to have the input for revision of LADM
- Remarkable:
  - Organizational /Institutional complexity (multiple ministries, gov levels)
  - Balance UN-SDG indicators land admin base data
  - · Implementations needed
- Next two days we have the 6<sup>th</sup> LADM workshop
- I learnt a lot, about UN, about LA in countries, about developments

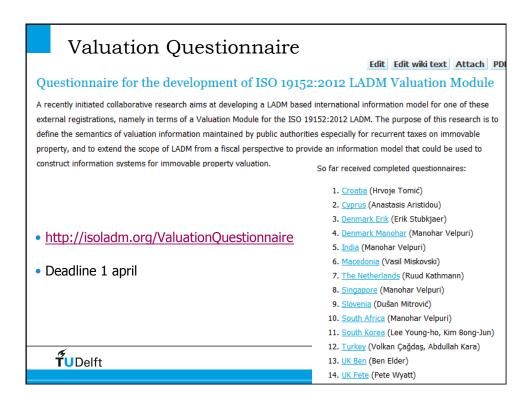
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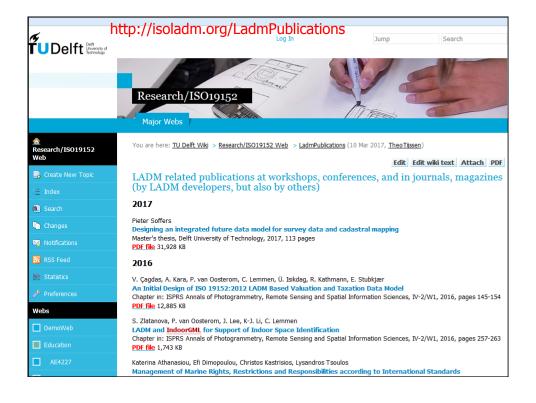


### LADM scope topics

- Conceptual model:
  - Further modelling LADM's rights, restrictions, responsibilities (RRRs)
  - · Fiscal/valuation extension module
  - LADM in support to Marine Cadastre
  - More explicit relations with Building Information Modelling (BIM)
  - Further modelling of LADM's survey and spatial representation
  - 3D/4D Cadastre
- Technical models (database schema, exchange formats): CityGML, IndoorGML, InfraLand (InfraGML), LandXML, and (Geo)BIM.
- Beyond models: Organization (best practices), Legal/financial aspects, OpenCadastre approach (crowd sourcing), Workflow modelling, Blockchain and ledger technologies







#### Agenda LADM workshop

- Day 1: 16 March 2017, Prepare revision of ISO 19152 (LADM)
  - Opening Session: Welcome, Introduction
  - Experiences with LADM (STDM), version 1
  - Possible Extensions Conceptual Model of LADM
  - · LADM, possible standardization beyond conceptual model?
- Day 2: 17 March 2017, Operational Standards in Land Admin
  - Technical models LA (database schema, exchange formats,...)
  - Best practices land administration implementation
  - Panel discussion, Coordination between ISO, OGC, FIG, IHO, ISPRS, UN GGIM, WB, UN Habitat GLTN and FAO
  - Closing session: White paper, Summary of Preliminary Decisions/ Proposals, Summary OGC



## Our MSc Students (2016-2017) at LADM workshop

- MSc Geomatics:
  - Eftychia Kalogianni: Refined LA\_Level Modelling (3D, Strata Titles, Archaeological Spaces,..)
  - Pieter Soffers: Standardized Workflow for Processing Survey
- MSc GIMA:
  - · Jennifer Oldfield:(Geo)BIM
  - Carline Amsing: Linking New Survey Data Acquisition Methods and Maintenance

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# LADM Governance Group? FIG → UN-GGIM: EG-LAM



- Conclusion from 5th LADM Workshop (Kuala Lumpur, sept'13): Governance structure is needed.
- Proposal: LADM Governance within FIG to be led by the OICRF the International Office of Cadastre and Land Records → UN
- Members (old): ISO 19152 editors, Worldbank, UN Habitat, FAO, FIG comm 3+7, FIG Young surveyors, ...
- Possible members (new): UN GGIM-LA, GLTN, OGC, RICS, IHO, ISPRS, WPLA, ISO TC307, GSDI, EC/JRC Ispra, JBGIS,...
- Activities of LADM governance group:
  - 1. maintenance of LADM in accordance to ISO requirements
  - 2. registry for various code lists (and web services for use)
  - 3. collect and disseminate best practices
  - 4. plan LADM related events (stand-alone or combined)
  - 5. check if system (model) is LADM conformant



LADM

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#### Venue

- TU Delft, Sports & Culture, Mekelweg 8-10 / Theaterzaal (Building 38, orange building on left hand side when entering terrain)
- The following buses travel between Delft Central Station and the Unit Sports & Culture: Bus 40 and Bus 69 (get off at bus stop "TU - Sport en Cultuur")

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