

## Land Administration Domain Model (LADM, ISO 19152)

18/03/17

Peter van Oosterom, based on joint work with: Chrit Lemmen, Harry Uitermark, and many others

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



## Motivation LADM Reasons to apply LADM

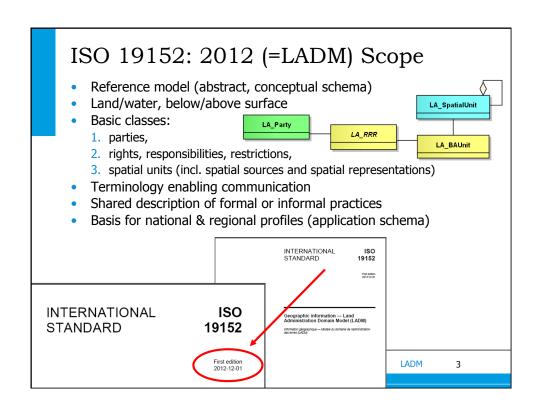


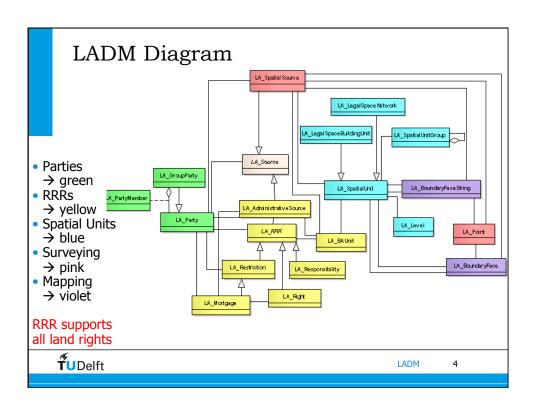
- LADM collective experience of experts from many countries (FIG)
- LADM is based on consensus and adopted by ISO (and CEN)
- LADM allows meaningful data exchange: 1. within country, SDI-setting (other types of data), 2. between countries/states (same type)
- LADM covers complete land administration spectrum: survey, cadastral maps, rights, restrictions, responsibilities, mortgages, persons, etc.
- LADM focuses on information, not on process/organization aspect
- LADM is modular (packages) and extensible → country profiles
- LADM allows integrated 2D and 3D representation of spatial units
- LADM supports both formal and informal RRRs
- LADM links essential land information data to source documents, both spatial (survey) and legal (title, deed)

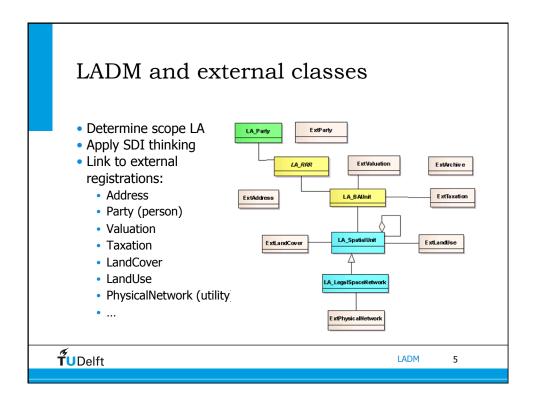
LADM compliance will seldom be main reason for new system in country

→ every system needs upgrades: consider becoming LADM compliant!

**TU**Delft LADM 2







## FIG LADM Governance Group



- 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
- Members: ISO 19152 editors, Worldbank, UN Habitat, FAO, FIG comm 3+7, FIG Young surveyors, ...
- 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



## Acknowledgements The 19152 project team Mr. Antony Cooper, chair Mr. Christiaan Lemmen, editor Mr. Paul Egesborg, ISO/TC211-WG 7 Mr. Tomohiko Hatori, Japan Mr. Danilo Antonio, UN-HABITAT Mr. Taiklin Kim, Korea Mr. Christian Lord, Canada

- - Mr. Christian Lord, Canada Mrs. Julie Binder Maitra, USA
- Mrs. Julie Binder Maitra, USA
  Mrs. Tarja Myllymäki, Finland
  Mr. Desper Paasch, Sweden
  Mr. Wim Devos, EC-JRC
  Mr. Harry Ultermark, FIG
  Mrs. Frédérique Williams, France
  Mr. Shawn Silkensen, ISO/TC211-HMMG
  Mr. Marcus Seiffert, Germany
  Iain Greenway for submission proposal to ISO on behalf of FIG
  FIG Council 2007 2010, under President Stig Enemark and the FIG Council 2011 2014, under President CheeHai Teo and FIG's director Markku Villikka (Finland) for continuous support Bjørnhild Sæeterøy for advice feeling to be at home in ISO/TC211
  John Herring and Serena Coetzee for support within ISO/TC211

- John Herring and Serena Coetzee for support within ISO/TC211
  Rod Thompson contributed in development of 2D-3D aspects
  Clarissa Augustinus and Jaap Zevenbergen with STDM
  Many, many others contributed by developing country profiles, performing reviews, participation in discussions and so on

→ Thank you very much!!!!!



LADM