Land Administration Domain Modell Workshop
Finland

Country Profile

Mr. Markku Markkula
March 16, 2017 Delft
National Land Survey of Finland
Statistics of Finland

- 5.4 million inhabitants
- 15.8 inhabitants per km²
  (40.5 per square mile)
- 2.7 million real estate units
- 2.6 million building and dwellings
- 0.6 million enterprises and corporations
- 3.7 million vehicles
ISO/LADM shortly

- ISO work (19152) where the objective is to provide an international standard for the information used in the land administration domain.
- Tries to provide a terminology for land administration, to provide a basis for the development of systems and to enable communication by using a jointly shared vocabulary.
- Conceptual schema which consists of object which models parties, basic administrative units and spatial units and rights, responsibilities and restrictions.
- Party data, address data, valuation data, land use data, archive data and taxation data are outside the scope.
Backgrounds of Finnish cadastre shortly

- In Finland all cadastral information - both map and attribute data - are registered in one integral object-oriented database (started 1998, renewed 2005) managed by the National Land Survey.
- The main objects in the cadastre include basic property units and right-of-use units with the geometry related to them. Basic property unit is the basic unit of registration and it can consist of none, one or many parcels.
- Since the beginning of 2010 the National Land Survey has been responsible for registering titles and mortgages.
  - To summarize: LADM supports the idea of administrative units with unique identifiers. It does not directly support legally registered relationships between different types of administrative units but favours geometry overlay.
Two right-of-use units:
A well for taking water for household consumption and a water pipe.
Private road registered as one right-of-use unit with three sub-units

Right holder: Road maintenance association

Sub-unit 1

Sub-unit 2

Sub-unit 3
To summarize: LADM supports the idea of administrative units with unique identifiers. It does not directly support legally registered relationships between different types of administrative units but favours geometry overlay.

- Right – of – Use – units are important for Finnish Cadastral System (Property – to – Property – rights)
- Person (party) – to – Property Rights are not mainly included in Cadaster
Future Cadastre 2035

- Accurate, Coordinate-based, Digitized
- Ubiquitous; incl. all easements, right of ways etc.
- Integrated
- 3–5 dimensioned
- Crowdsourcing, Internet of Things (IoT) – Smart Cities
- Building Information Modelling BIM, Laser Scanning
- Utility Mapping – digital underground visualisations
- Open Access – balanced with individual privacy

(source: Lesley Arnold WB 2016 Washington D.C.)
Thank you!

www.nls.fi