



Czech Republic LADM country profile

Karel Janečka¹, Petr Souček²

¹ University of West Bohemia, Pilsen, Czech Republic

² Czech Office for Surveying, Mapping and Cadastre, Prague, Czech Republic

Motivation for LADM country profile

- **Building of the Czech National Spatial Data Infrastructure**
 - Considering the adoption of the ISO 19152 (LADM) standard in various government initiatives -> **there is a need for LADM knowledge**
- **Feedback** received during presentations and interviews
 - e.g. Czech Union of Surveyors and Cartographers (a member of FIG)
-> **there is a need for 3D cadastre**
- **Discussion** between members of the National Mirror Committee 122 Geographic information/Geomatics
 - Czech version of ISO 19152 exists since October 2013
 - -> **there is a need for the country profile based on LADM**

LADM based country profile - Aims

1. To have a LADM based country profile reflecting the current cadastral registration **with possible extension to 3D in a standardized way.**
2. To determine a compatibility between LADM and Czech cadastral data model.

Design of the Czech profile based on LADM

0) Physical model is not known (to public)

- 1) Reverse engineering: Physical model -> Logical model -> Conceptual model
- 2) Mapping of Czech tables (classes) on LADM classes where possible
- 3) Inheritance from LADM classes

Conformity testing

- ISO 19152 Annex A - Abstract Test Suite
- Table A.1 gives an overview per package to check for LADM compliancy.
- Possible ways to document the positive results:
 - 1) Show inheritance structure between the LADM and the tested model (elements), or
 - 2) Show mapping of elements between the LADM and the tested model.
- **The Czech profile is conformant with LADM at level 2**

Thank you for your attention!



kjanecka@kgm.zcu.cz