Semantically enriching and reconstructing the cadastral map of the Netherlands – an LADM approach

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- Land registration
- Survey department
Workflow

Notary → ‘Aanwijs’ / Designation → Survey → Mapping

Survey documents → Cadastral Map
The Dutch cadastral map
The cadastral map improvement program

Motivation:
• The cadastral map have to be more than just a visualization
• Better understanding and use of the cadastral map

Goals:
• Quality description and metadata of each boundary
• Geometrical correct location of a boundary
The cadastral map improvement program

Cadastral *information* map with additional metadata

Cadastral *reconstruction* map integrated with survey
Terrestrial registration

Survey Document → Boundary → Parcel → Point → Cadastral Map

Survey Document → Boundary → Parcel → Point → Cadastral Map
Requirements

A direct connection between objects and survey documents.
Requirements

Boundaries should be considered as own entities.
Requirements

Points should be considered as own entities.
Requirements

The data model should incorporate a history model.
Requirements

All survey methods should be incorporated in the data model.
Requirements

All document formats should be incorporated in the data model
Requirements

The data model should facilitate quality descriptions per object
Thank you for your attention!

Hvala na pozornosti!