

INSPIRE implementation: Example of DLM250

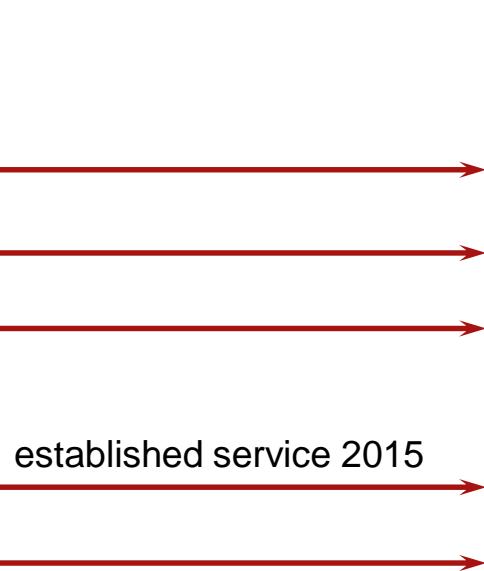
Federal Agency for Cartography and Geodesy (BKG)

Agenda

- Source data
- Transformation process
- Service
- Result

Source data

- German AAA DLM250
 - Digital Landscape Model
 - Scale: 1:250 000
 - Schema: AAA Model



INSPIRE Themes Annex I

Addresses



Cadastral parcels



Geographical grid systems



Hydrography



Transport networks



Administrative units



Coordinate reference systems



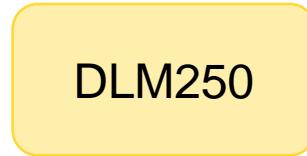
Geographical names



Protected sites



Transformation process



FME +
manual work

Well
established
process



ERM/EBM

new



German part of
European Topographic dataset
1:250 000



INSPIRE
and ELF



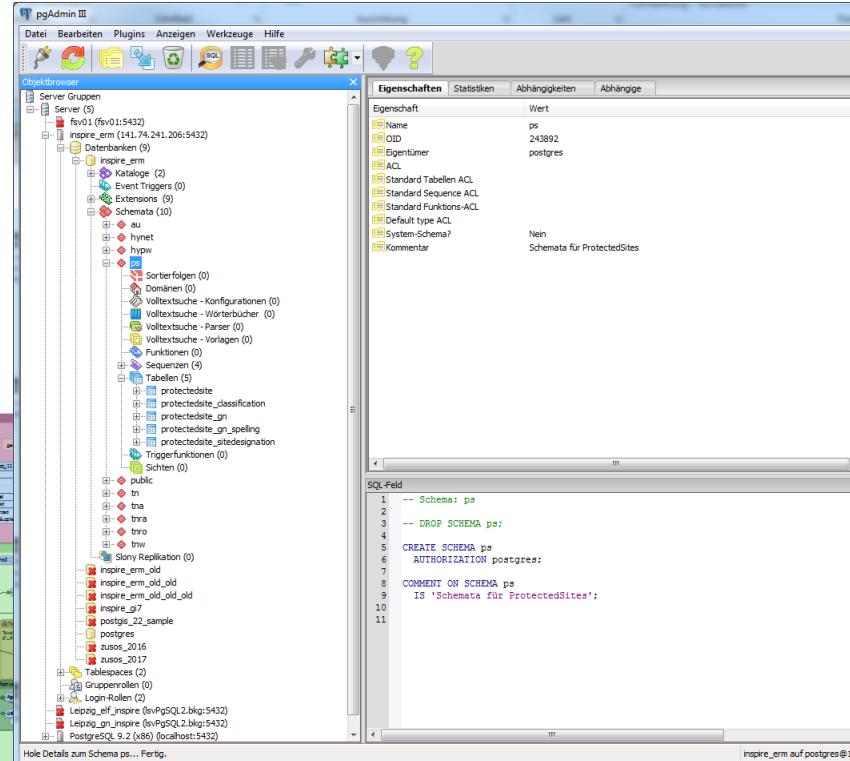
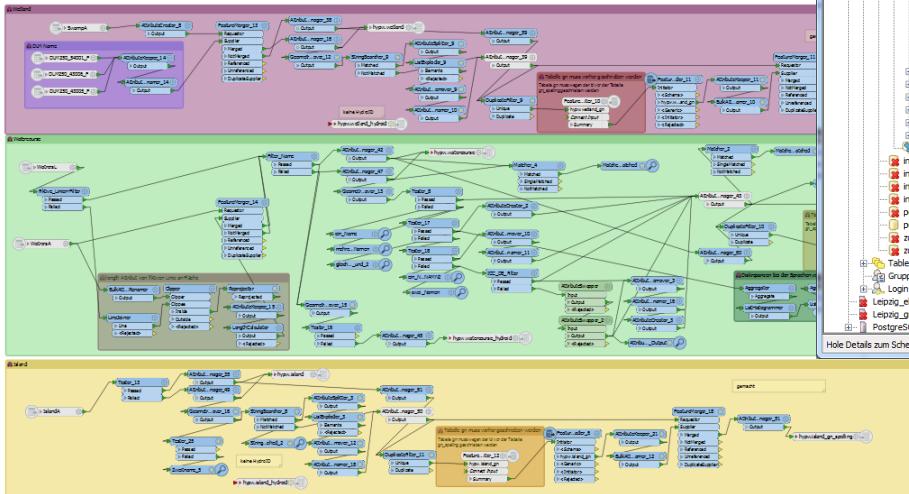
Transformation process

- Preliminary work to derive INSPIRE from ERM
 - ELF project <http://www.elfproject.eu/>
 - Objective:
 - European Location Framework (ELF) to provide up-to-date, authoritative, interoperable, harmonized cross-border, reference geo-information for use by the European public and private sectors
 - Practical implementation of INSPIRE compliant geo-information
 - Technical work performed
 - UML schema
 - SQL queries out of GoPublisher from Snowflake
 - Mapping Tables (generated from INSPIRE schema)



Transformation process

- Implementation with FME
 - Source: ERM v10.1+ EBM v11
 - Destination: PostGIS database with INSPIRE and ELF schema
 - Themes: TN, HY, AU, PS, GN

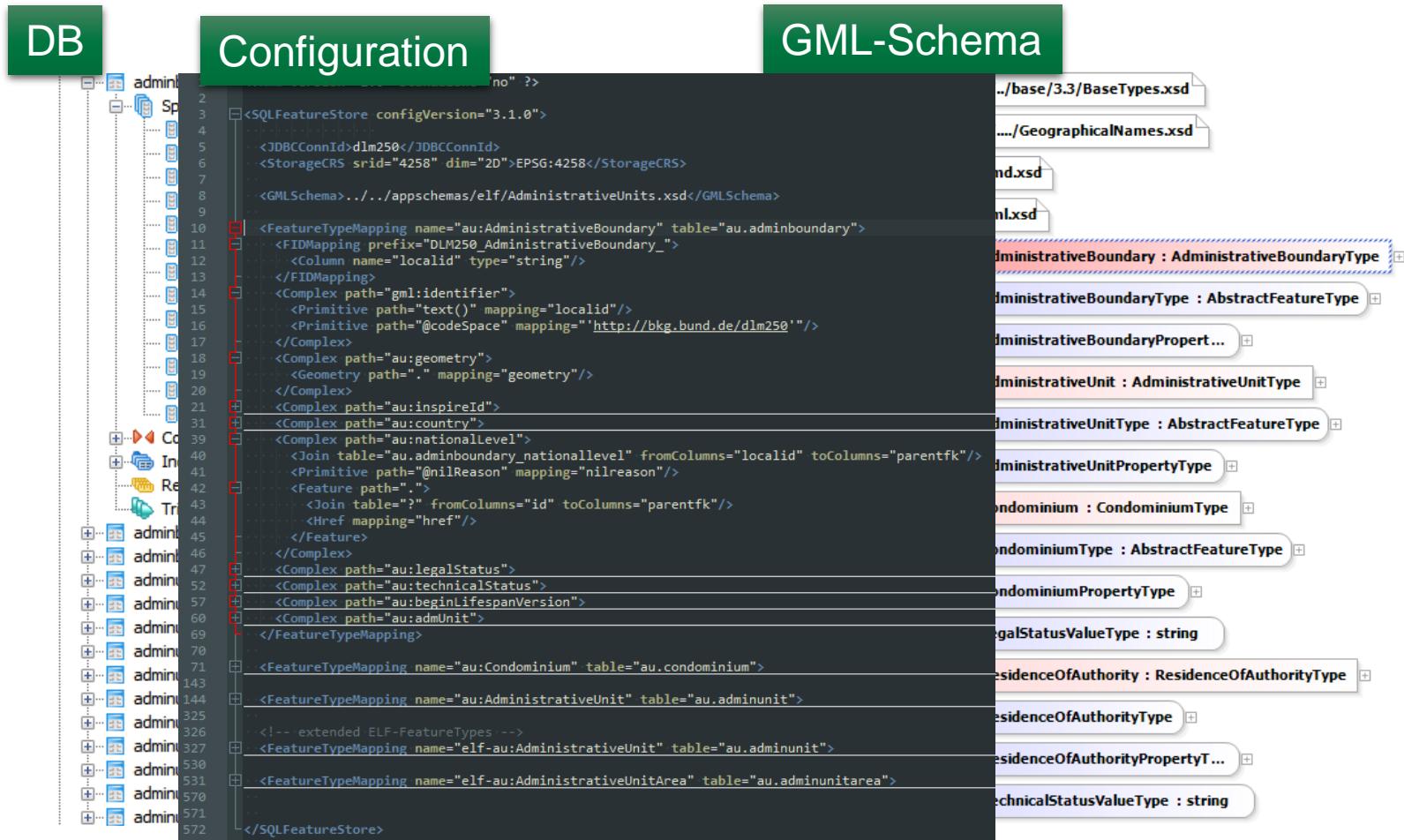


Service

- BKG-INSPIRE Services based on deegree
- What is deegree?
 - Open source software for spatial data infrastructures and the geospatial web
 - Implements geospatial webservice specifications of the OGC and the INSPIRE Network Services
- Why deegree?
 - Implements WFS standards (INSPIRE download services)
 - Designed for rich data models
 - Flexible mapping of GML application schemas to database models
 - Fits in BKG infrastructure

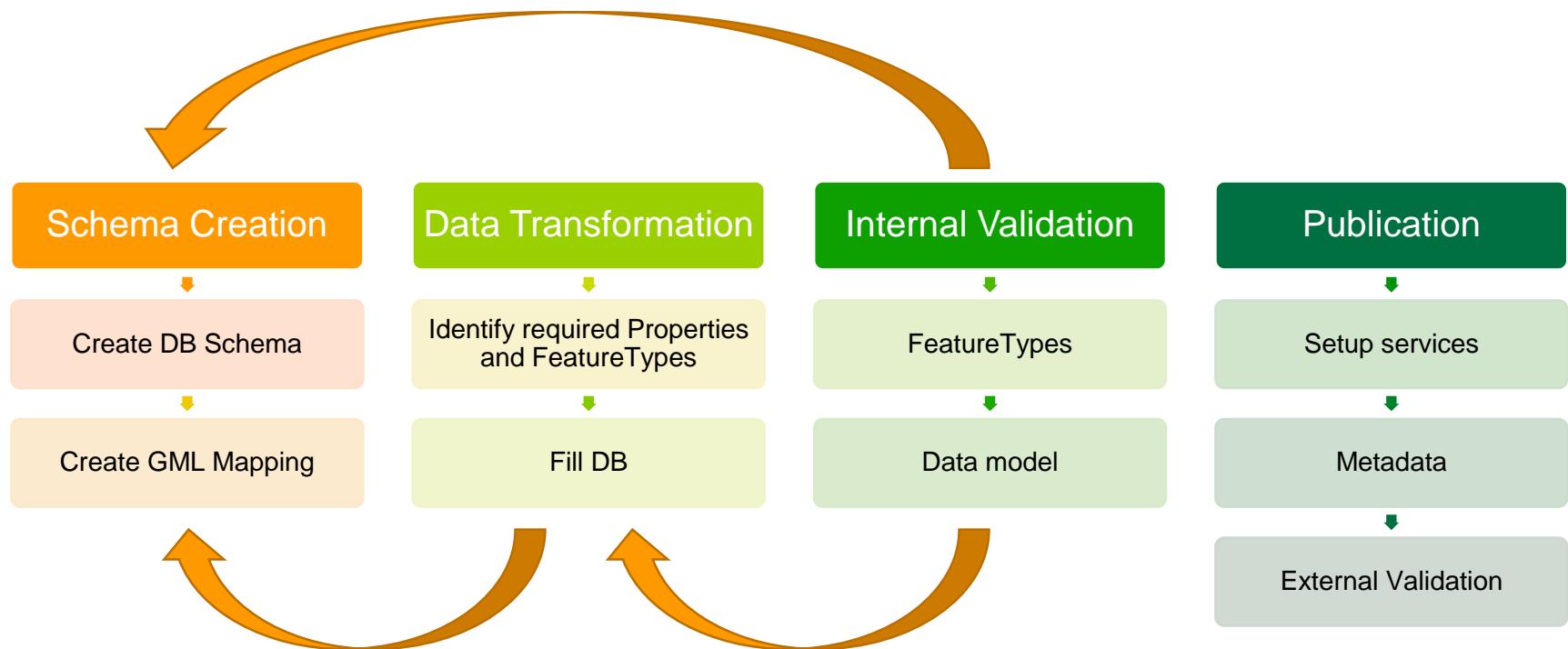
Service

Mapping configuration



Service

Implementation process



Result

- Data transformation for Annex I in DLM250 complete
- **WFS DLM250 online**
http://sg.geodatenzentrum.de/wfs_dlm250_inspire?SERVICE=WFS&REQUEST=GetCapabilities
- Finalized metadata records
- Next steps and open issues
 - External validation
 - Validate and optimize performance
 - Transformation and services for other products and Annex themes

Thank you for your kind attention!

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