Contents

• National Geospatial Platform
• Framework for linked data infrastructure for spatial data and any other data
• RDF database
• Smart semantic search necessary
National Geospatial Platform - programme

API – services

Linked data services

Semantic search

INSPIRE services

Service bus channels: administration, enterprises, citizens

Geospatial platform

Distributed data sources

National agencies, Municipalities, Counties, Private sector & other

INSPIRE data providers

Environmental reporting (EU)

Core location data

-NTDB; National Topographic db

-Address, place name, land use, INSPIRE (some), aerial imagery, point cloud data

Common specifications

-Data models (INSPIRE compliant); Processes; Quality Services:

-Transformation

-data update

-ID management

Common services

Linked data

Geocoding

Transformation

Data update

Download

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Framework for linked data infrastructure

- National ontology concept hierarchy integrates spatial and non-spatial data (SKOS)
  - INSPIRE object types included in “spatial data ontology”-part
- NTDB spatial object URIs as placeholders for real world URIs (for the present)
- NTDB generates and submits URIs to the spatial objects in other system for updates or reuse
- Place names: RDF service
  - To develop a service platform to provide applications for tagging different assets and further RDF-linking
- URI-pattern: http://{domain}/{type}/{datasetId}/{localId}/{versionId}
RDF database

http://paikkatiedot.fi/so/12345/FIN6789

Links to frequently consumed external data sources created through their SPARQL endpoints. RDF data synchronized with the source data through standard SPARQL endpoint on Apache Jena Fuseki server (own script).
Smart semantic search

Queries in search engines are directed to landing page of SDI search & platform
More information

www.nls.fi

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