



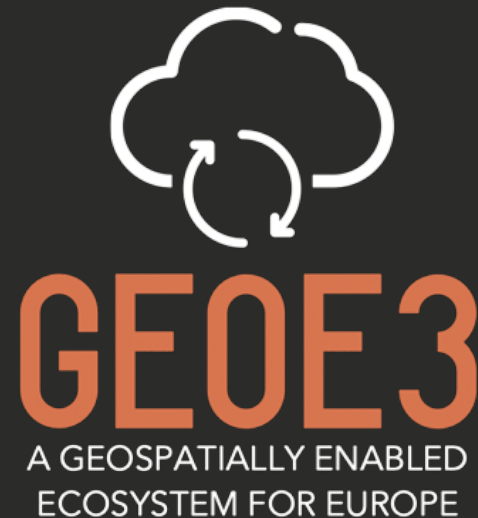
Co-financed by the Connecting Europe  
Facility of the European Union

# **GEOE3 - IMPROVING THE ACCESS, INTEROPERABILITY, AND HARMONIZATION OF DATA BASED ON NATIONAL PLATFORMS**

INSPIRE CONFERENCE 2021

SESSION: ARCHITECTURES, INFRASTRUCTURES AND TECHNOLOGICAL ENABLERS FOR ENVIRONMENTAL DATA SHARING

JARI REINI - NATIONAL LAND SURVEY OF FINLAND 2021/10/26



- • Part of Connecting Europe Facility –program
- • Budget 2.6 million euro, funding 1.9 million euro
- • Partners 12
  - • National Land Survey of Finland (Co-ordinator)
  - • Finnish Meteorological Institute
  - • Statistics Finland
  - • Spatineo (Finland)
  - • Norwegian Mapping Authority
  - • Cadastre, Land Registry and Mapping Agency
  - • Open Geospatial Consortium Europe
  - • CENTRO NACIONAL DE INFORMACIÓN GEOGRÁFICA Spain
  - • Estonian Land Board
  - • Information Technology Center of the Ministry of the Environment Estonia
  - • Aveni Intelligent Communication Norway
  - • DIRECCION GENERAL DEL CATASTRO Spain
- • Started October 2020, 3 years

# WHY WE NEED LOCATION DATA IN EUROPEAN DATA SPACES

- Common data spaces include; green deal, mobility, health, financial, energy, agriculture, public admin and skills
- Location connects different data and makes it understandable
- Digital twins means not only 3D data but also various dashboards combining huge data volumes
- Everything happens somewhere so location-based user interfaces are natural



Example Solar Energy Potential  
In Helsinki combining meteorological data with building data and digital surface model (GeoE3 demonstration platform)

# HOW GEOE3 MAY HELP (OBJECTIVES)

Better access and interoperability of Geospatial data /other data

- Usability of metadata information – e.g. dashboards
- Integration with other data (e.g. statistics, weather data)
- Accessibility through European Data Portal (DCAT.AP)

Dynamic harmonisation of geospatial data based on use cases and new APIs

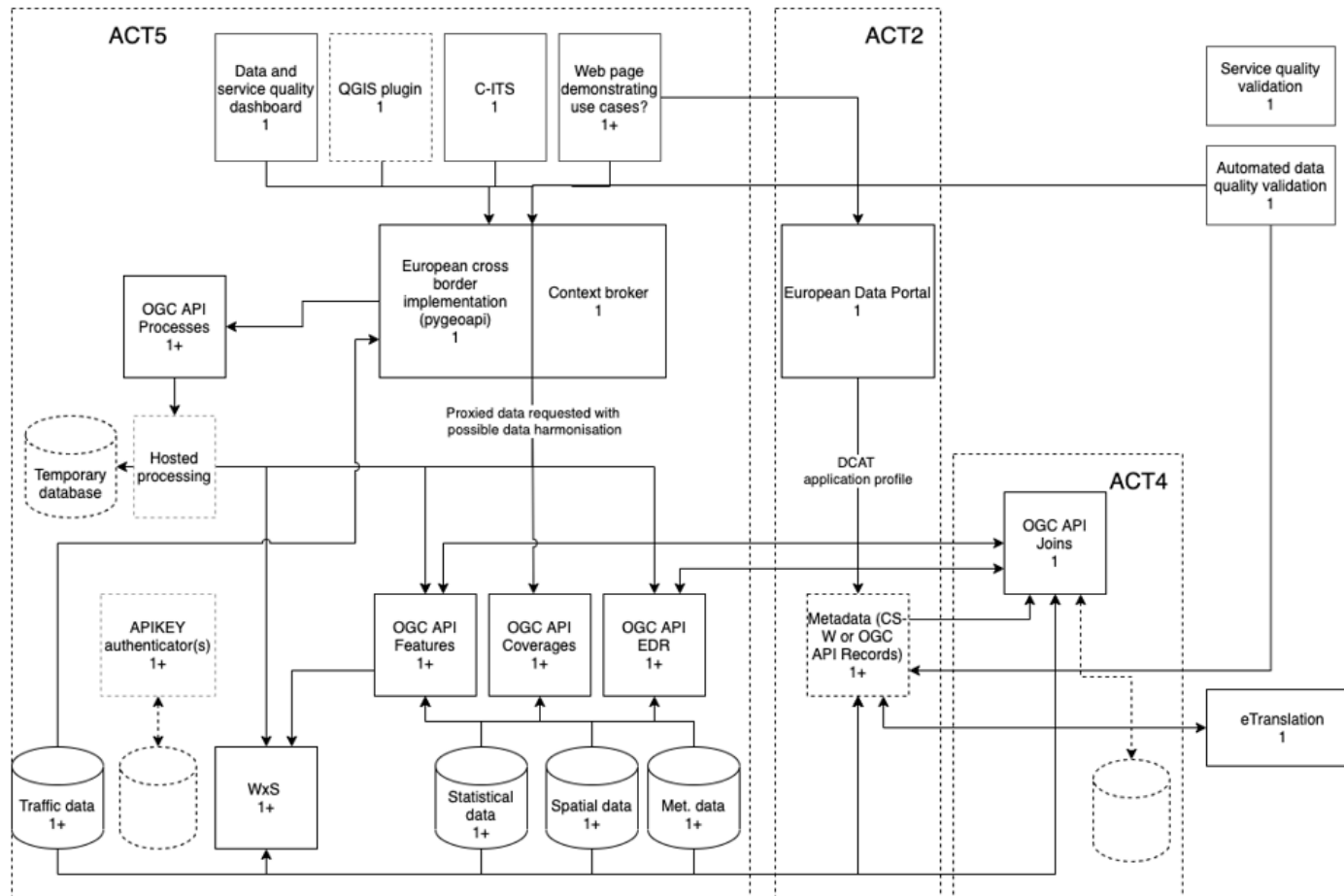
- Example Cloud Platform which will demonstrate use cases and then used for national platform implementations through different APIs and tools

Build an ecosystem based on national platforms

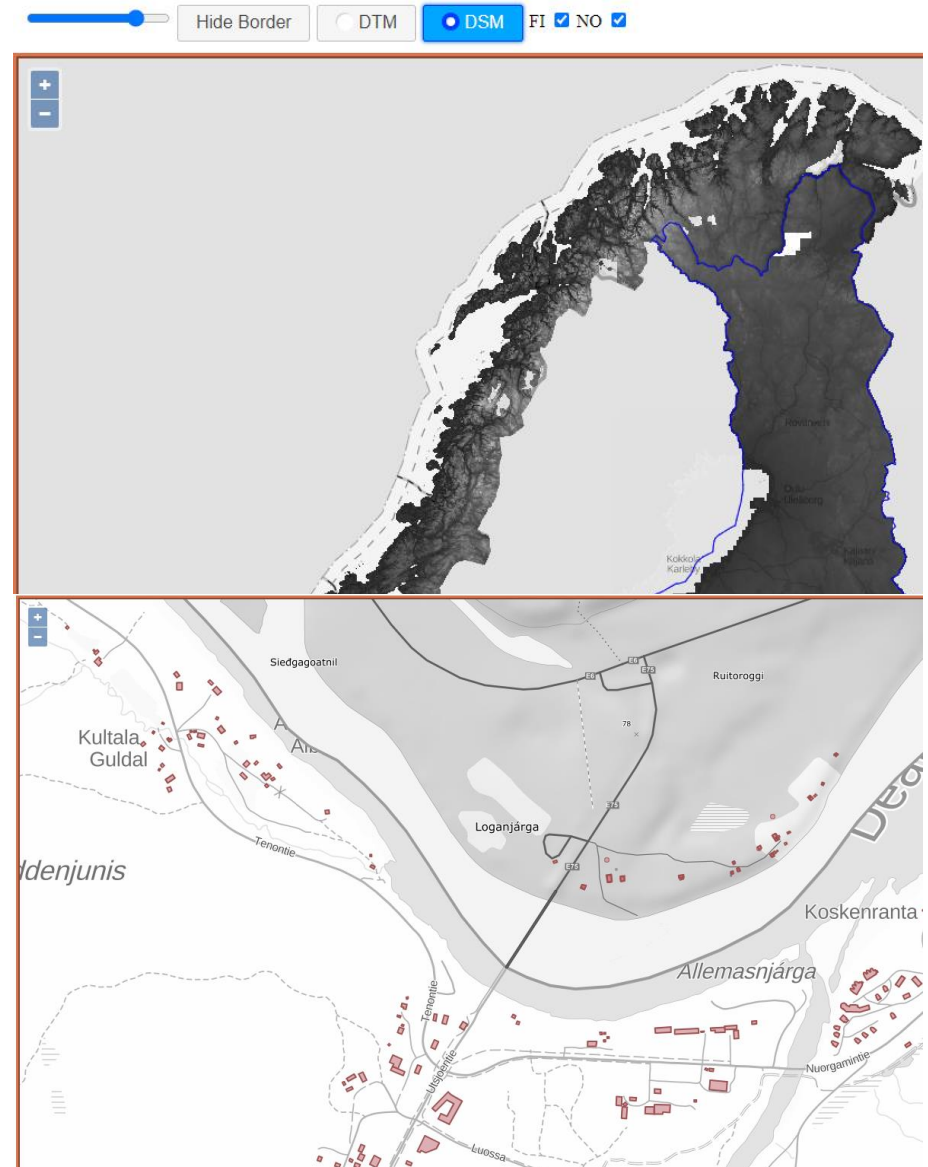
- eLearning videos
- Innovation events
- Benefits

# GEOE3 ARCHITECTURE

- Architecture aims to a modular structure relying on OGC API family of services
- Data exposed from numerous distributed services
- Integration platform -> the client is provided with a single point of access



- Integration platform
- Tools to be deployed in national platforms
- Services (based on modern Web API's)
  - OGC API Features
  - OGC API Coverages
  - OGC API Records
  - OGC API Processes
  - OGC API Joins
- “Cloud-ready”





Home



GeoE3 Buildings DTM DSM

## GeoE3 OAPIF Buildings

Experimental service for cross-border provision of buildings

geospatial ecosystem cross-border building

Terms of service  
License

<https://creativecommons.org/licenses/by/4.0/>  
CC-BY 4.0 license



Contact

## Collections

View the collections in this service

## API Definition

Documentation

OpenAPI Document

## Conformance

View the conformance classes of this service

Home / Collections

## Collections in this service

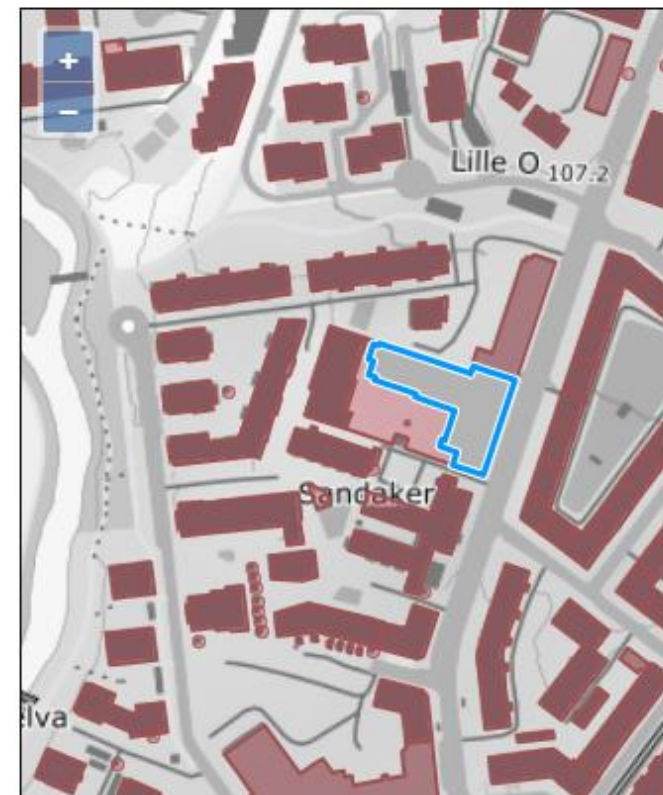
Name	Type	Description
Finland	Feature	Buildings from NLSFI
Norway	Feature	Buildings from Kartverket
Spain	Feature	Buildings from Spanish Cadastre



Home / Collections / Norway / Items / Buildings

## Norway

Zoom in to see the items in this collection.





**MORE INFORMATION AT [GEOE3.EU](https://geoe3.eu)**