Introducing SCENT Citizen Observatory datasets

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What is SCENT about ?

Gaming platforms & low-cost sensors

scent explore

An augmented reality application for citizens, which supports the collection and annotation of images/videos of land-use/cover

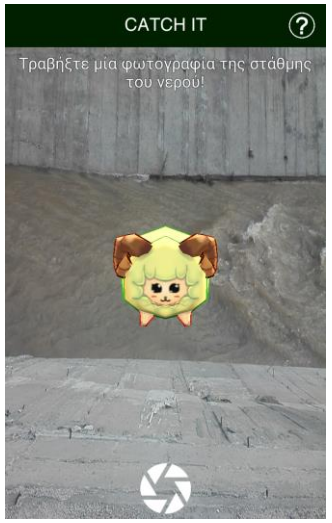
scent measure

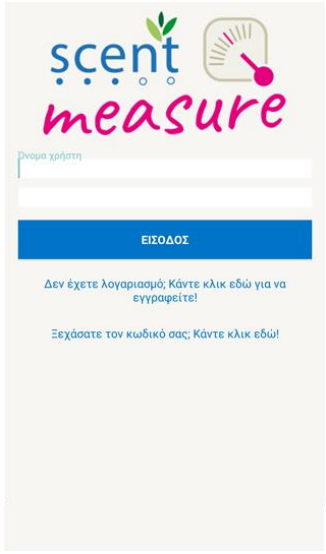
A mobile application for citizens, which uses portable sensors to measure air temperature and soil moisture

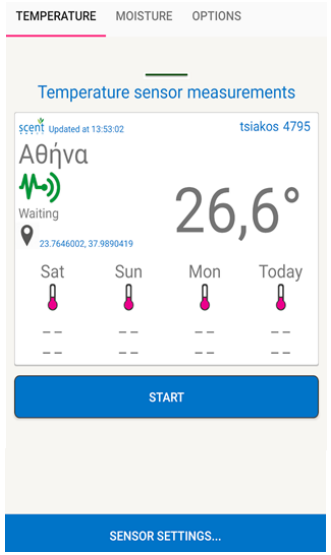
scent collaborate

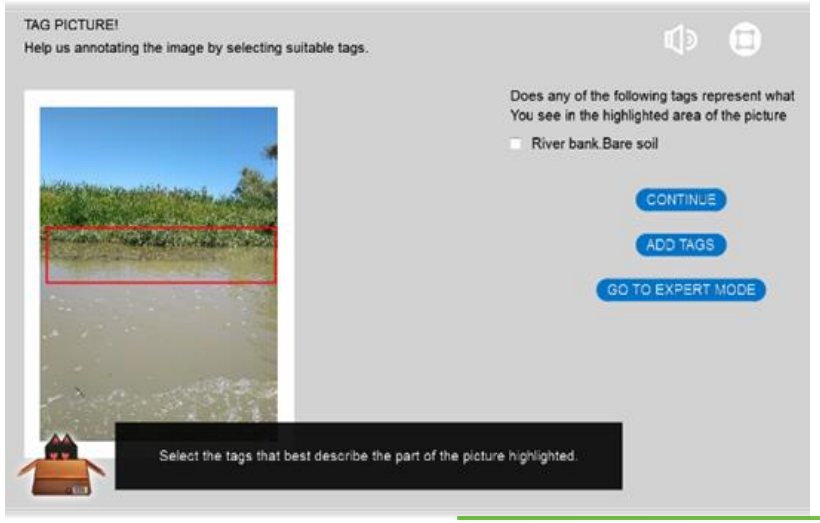
A crowdsourcing platform allowing users to train the Scent automated tools to identify natural features e.g. rivers, trees, pastures etc.

Gaming platforms & low-cost sensors









- ✓ 1210+ active registered users of Scent Collaborate platform;
- ✓ SCENT Explore and Measure: 3000+ downloads, with 705 active users;
- ✓ 17500+ annotations

Crowdsourcing & interoperability

scent crowdsourcing platform

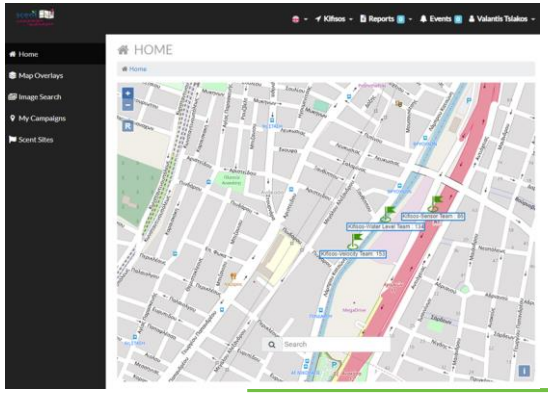
Connects all applications and services in the Scent Toolbox linking the data gathered by citizens through the front-end applications to all other toolbox components

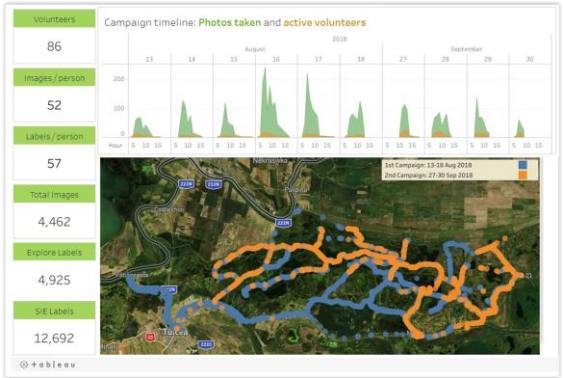
scent harmonisation platform

A web-based platform enabling the management, storage and provision of citizen-generated data and added-value information produced by the Scent tools, and translates them to standardized resources

scent campaign manager

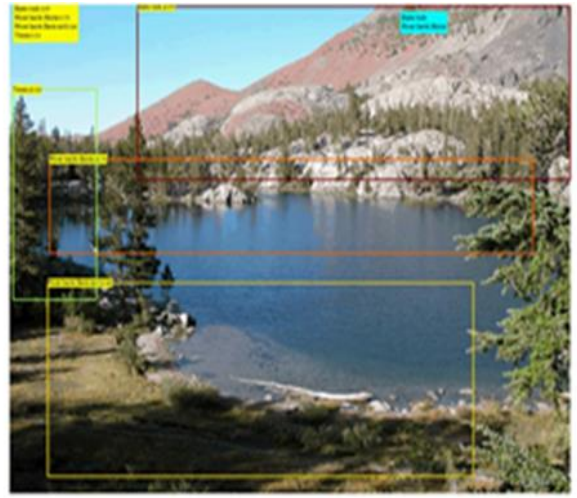
A web-based application allowing public administrators, policy makers and others to create and manage citizen science campaigns.





Data analysis, LC/LU mapping & flood modelling

Utilises machine learning to classify and annotate images from citizens and open platforms



Detects water level indicators and supports the automatic extraction of water level data from images and water velocity from videos

Utilises machine learning to automatically detect and annotate segments on satellite and aerial imagery with land-use/cover elements that affect flood risk and flood pattern determination e.g. river banks, forests etc.

Computational representations of water dynamics in the pilot areas, built using ground observations and remote sensing data, and enhanced with crowdsourced data

SCENT citizen-science campaigns – Danube Delta

- ✓ Rural / remote environment
- ✓Training session in beginning of each campaign
- ✓On-board data collection
- ✓Duration: 3-7 days
- ✓15-20 people per route, 8-10 volunteer per boat

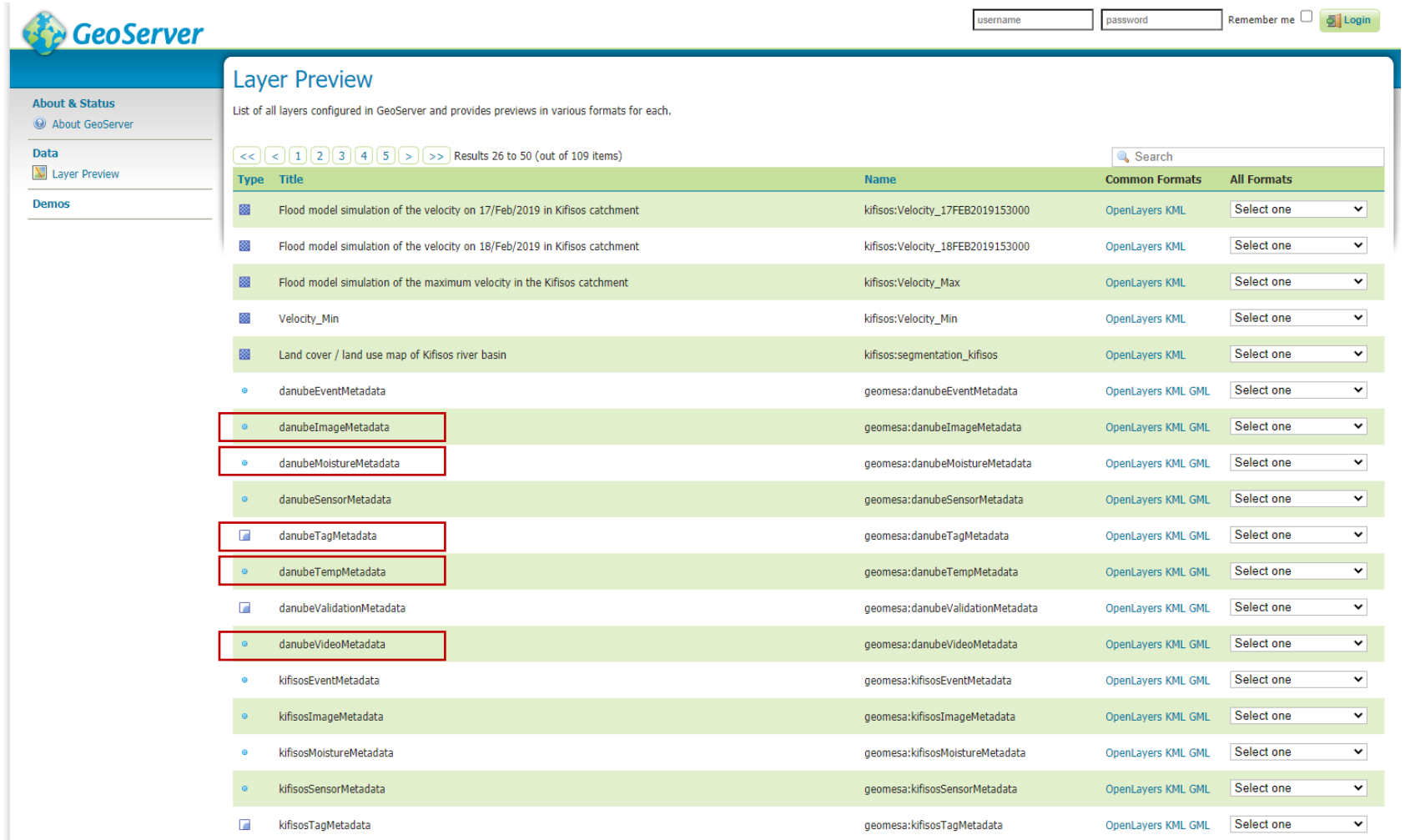
SCENT citizen-science campaigns – Kifisos

✓ Urban & rural environment
✓Training session in the beginning of each campaign day
✓Duration: 2-4 days
✓20-25 volunteers per route

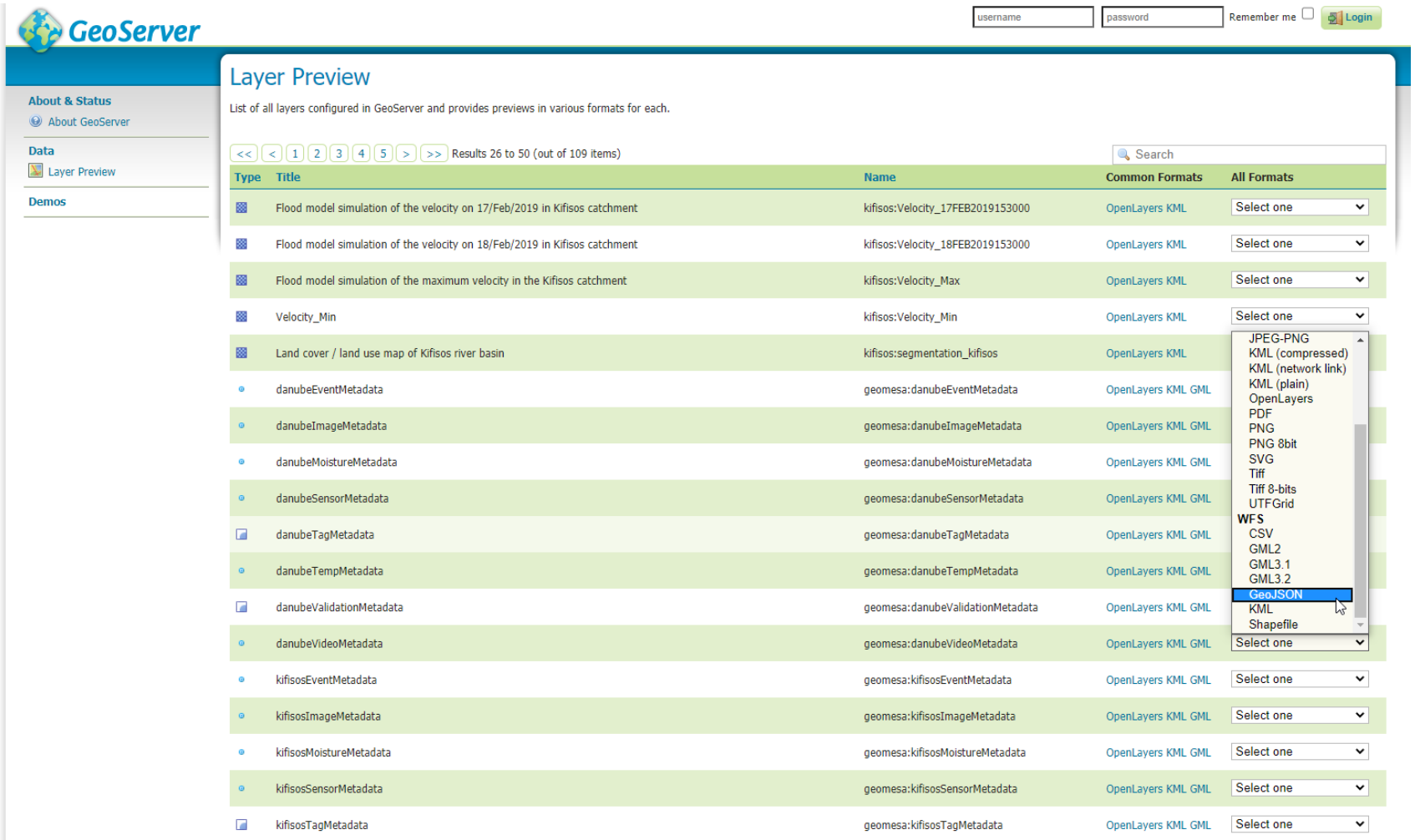
How to access the resources

- ✓ SCENT Harmonisation platform web server (OGC WMS & WFS)
  - ✓ http://147.102.5.93:8080/geoserver/web/wicket/bookmarkable/org.geoserver.web.demo.MapPreviewPage?0
- ✓ GEOSS Portal
  - ✓ https://www.geoportal.org/?f:sources=wfsscentID%2CwmsSCENTID
- ✓ SCENT Harmonisation platform client application (OGC Sensor Things API)
  - ✓ http://scent-harm.iccs.gr/

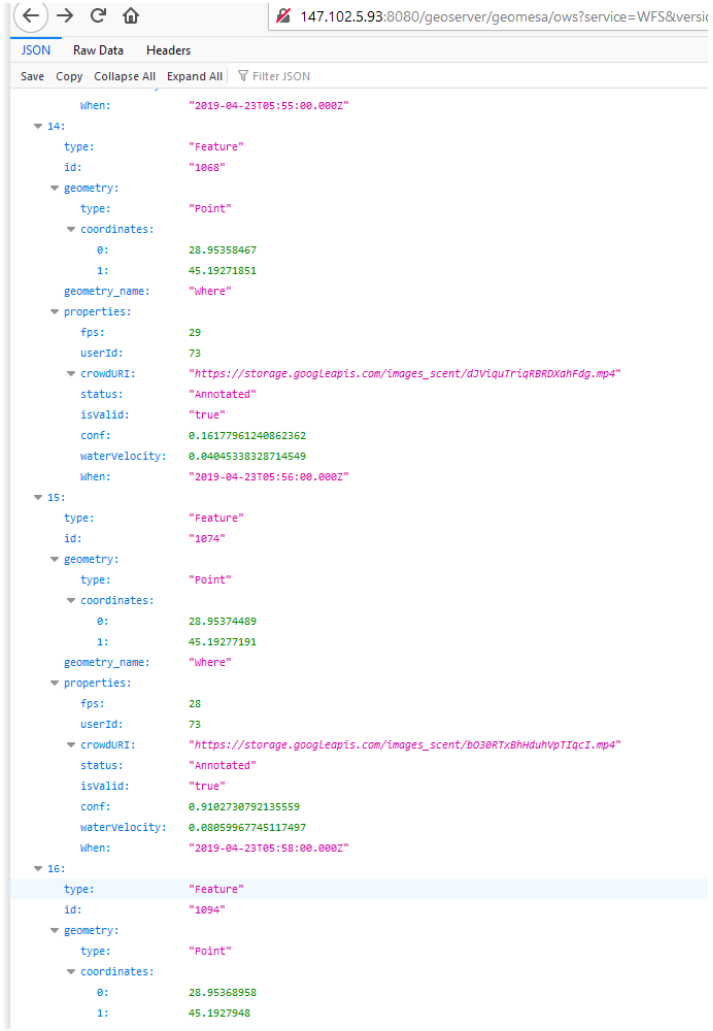
SCENT Harmonisation platform web server

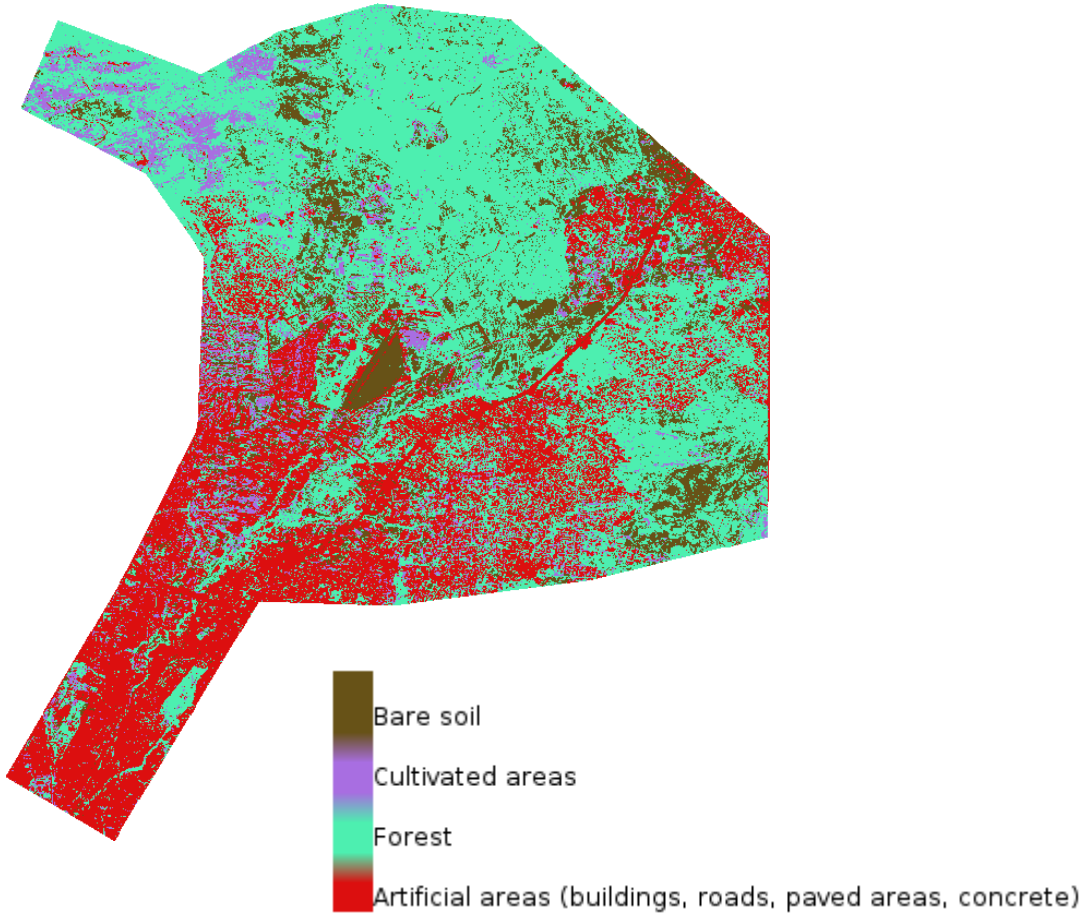


SCENT Harmonisation platform web server

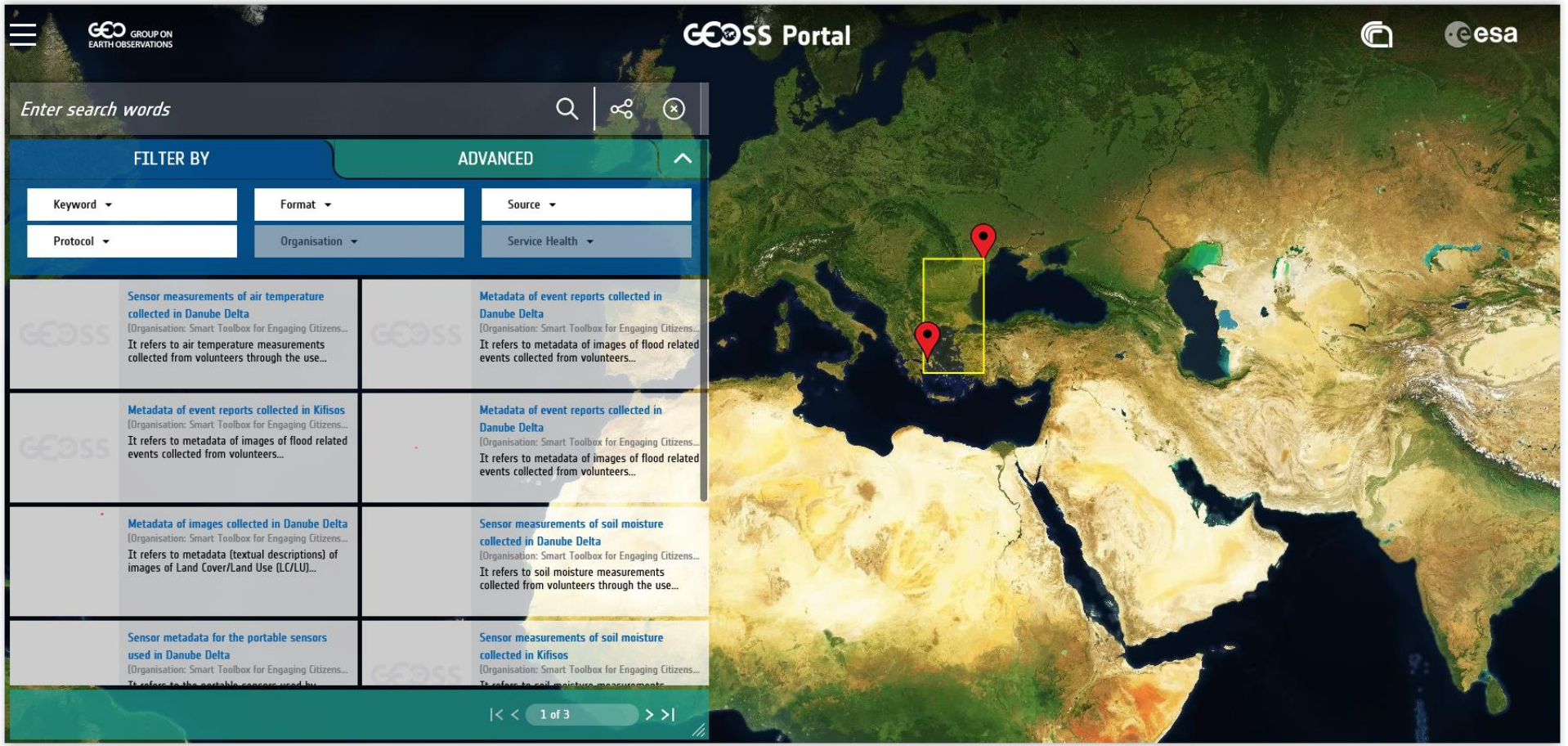


SCENT Harmonisation platform web server

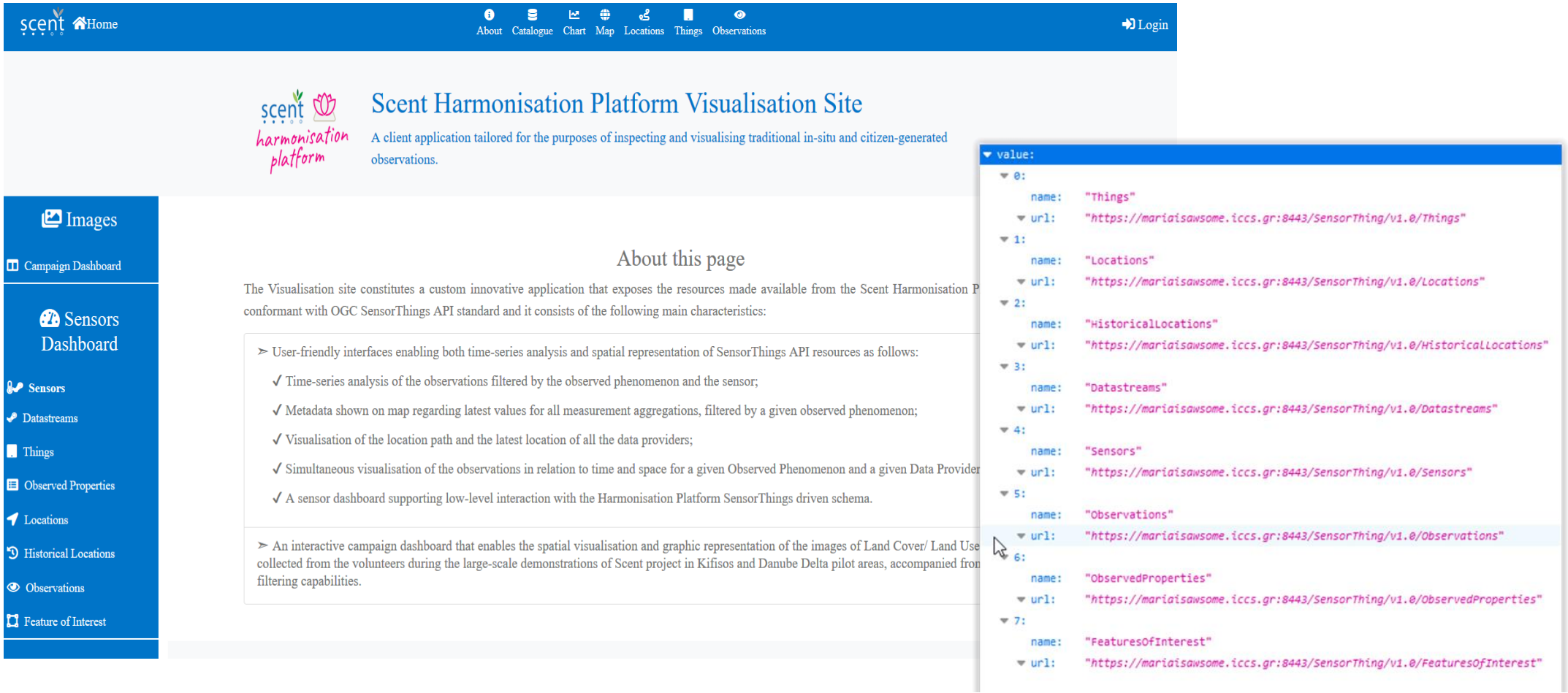




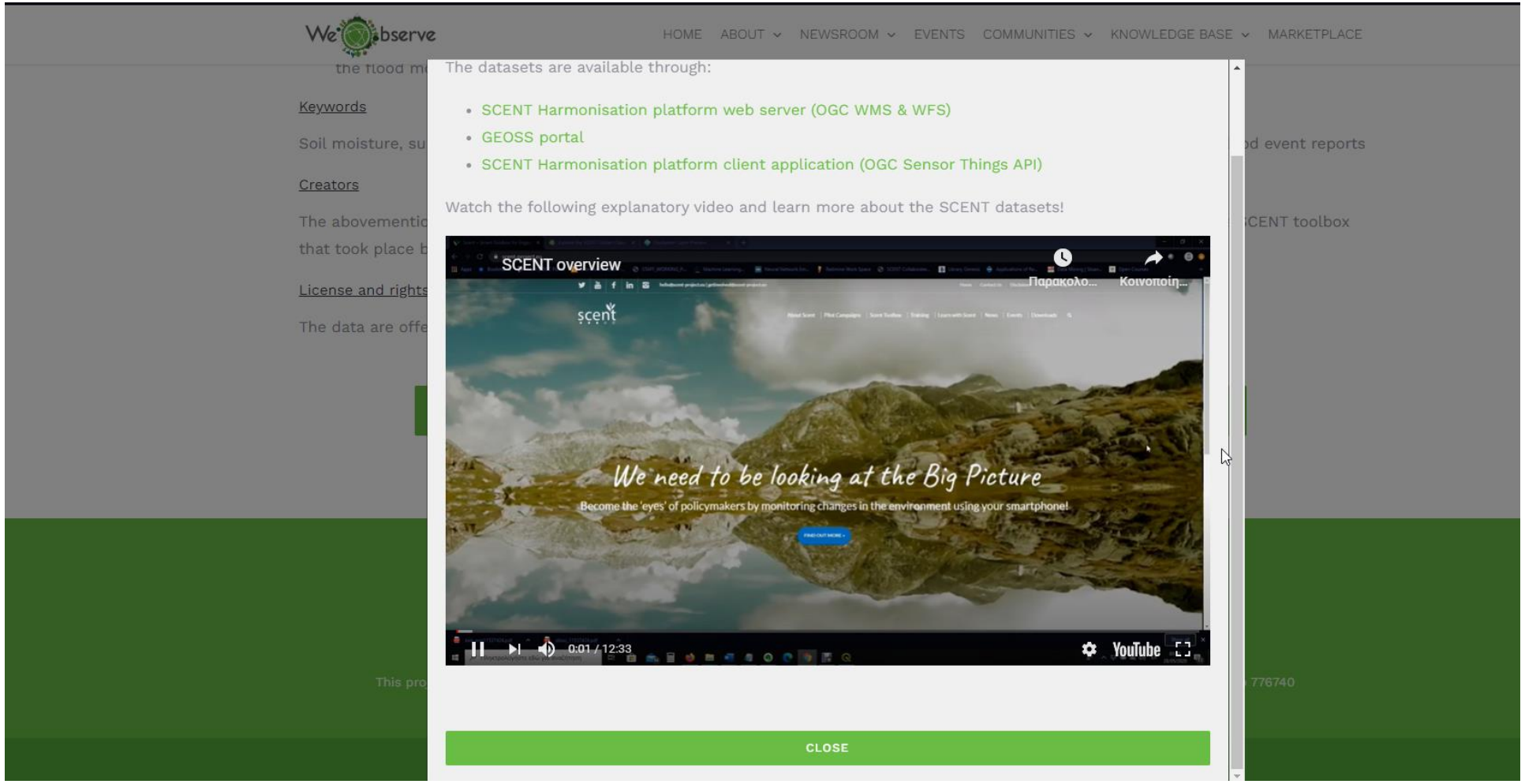
GEOSS Portal



OGC Sensor Things API



WeObserve Marketplace



THANK YOU!

Any Questions?

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