



Introducing SCENT Citizen Observatory datasets

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What is SCENT about ?



Gaming platforms & low-cost sensors



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



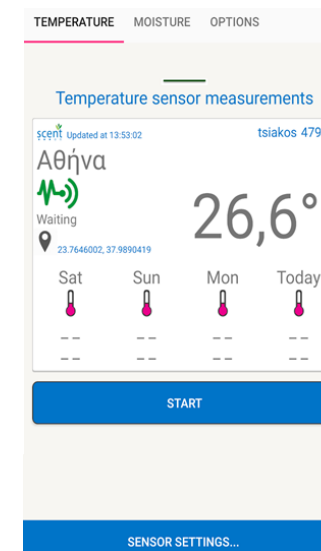
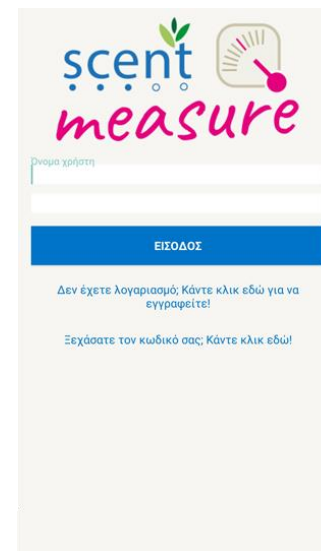
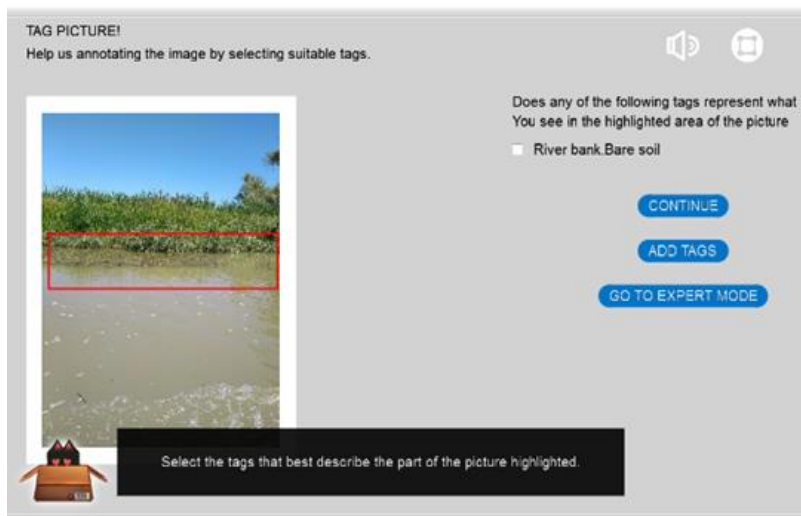
A mobile application for citizens, which uses portable sensors to measure air temperature and soil moisture



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



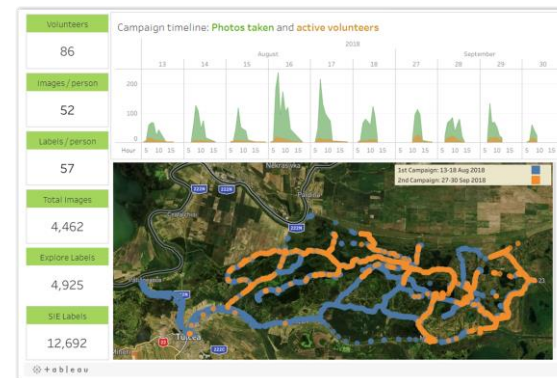
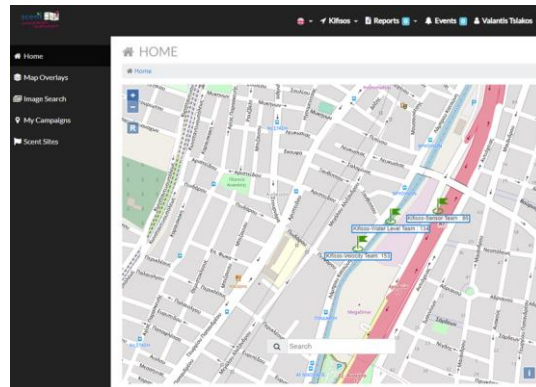
Connects all applications and services in the Scent Toolbox linking the data gathered by citizens through the front-end applications to all other toolbox components



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



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



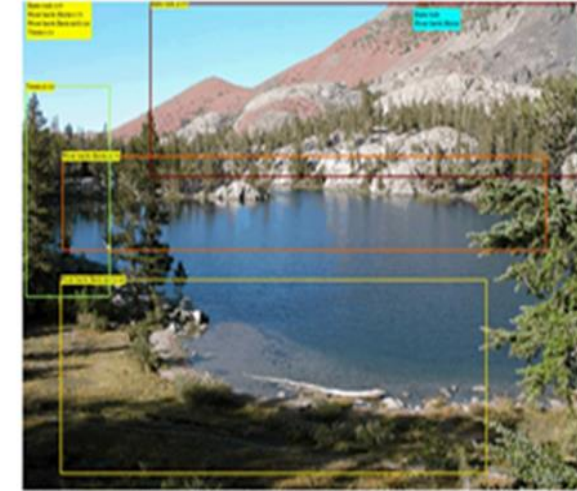
Data analysis, LC/LU mapping & flood modelling



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



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About & Status

[About GeoServer](#)

Data

[Layer Preview](#)

Demos


Layer Preview

List of all layers configured in GeoServer and provides previews in various formats for each.

<< < 1 2 3 4 5 > >> Results 26 to 50 (out of 109 items)

Type	Title	Name	Common Formats	All Formats
	Flood model simulation of the velocity on 17/Feb/2019 in Kifisos catchment	kifisos:Velocity_17FEB2019153000	OpenLayers KML	Select one
	Flood model simulation of the velocity on 18/Feb/2019 in Kifisos catchment	kifisos:Velocity_18FEB2019153000	OpenLayers KML	Select one
	Flood model simulation of the maximum velocity in the Kifisos catchment	kifisos:Velocity_Max	OpenLayers KML	Select one
	Velocity_Min	kifisos:Velocity_Min	OpenLayers KML	Select one
	Land cover / land use map of Kifisos river basin	kifisos:segmentation_kifisos	OpenLayers KML	Select one
	danubeEventMetadata	geomesa:danubeEventMetadata	OpenLayers KML GML	Select one
	danubeImageMetadata	geomesa:danubeImageMetadata	OpenLayers KML GML	Select one
	danubeMoistureMetadata	geomesa:danubeMoistureMetadata	OpenLayers KML GML	Select one
	danubeSensorMetadata	geomesa:danubeSensorMetadata	OpenLayers KML GML	Select one
	danubeTagMetadata	geomesa:danubeTagMetadata	OpenLayers KML GML	Select one
	danubeTempMetadata	geomesa:danubeTempMetadata	OpenLayers KML GML	Select one
	danubeValidationMetadata	geomesa:danubeValidationMetadata	OpenLayers KML GML	Select one
	danubeVideoMetadata	geomesa:danubeVideoMetadata	OpenLayers KML GML	Select one
	kifisosEventMetadata	geomesa:kifisosEventMetadata	OpenLayers KML GML	Select one
	kifisosImageMetadata	geomesa:kifisosImageMetadata	OpenLayers KML GML	Select one
	kifisosMoistureMetadata	geomesa:kifisosMoistureMetadata	OpenLayers KML GML	Select one
	kifisosSensorMetadata	geomesa:kifisosSensorMetadata	OpenLayers KML GML	Select one
	kifisosTagMetadata	geomesa:kifisosTagMetadata	OpenLayers KML GML	Select one

SCENT Harmonisation platform web server



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[2](#)
[3](#)
[4](#)
[5](#)
[>](#)
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	Velocity_Min	kifisos:Velocity_Min	OpenLayers KML	Select one
	Land cover / land use map of Kifisos river basin	kifisos:segmentation_kifisos	OpenLayers KML	<div> JPEG-PNG KML (compressed) KML (network link) KML (plain) OpenLayers PDF PNG PNG 8bit SVG Tiff Tiff 8-bits UTFGrid WFS CSV GML2 GML3.1 GML3.2 GeoJSON KML Shapefile </div>
	danubeEventMetadata	geomesa:danubeEventMetadata	OpenLayers KML GML	
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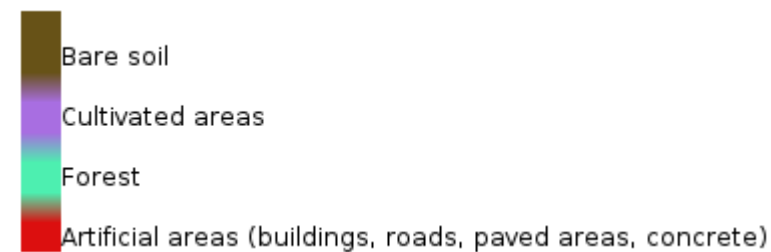
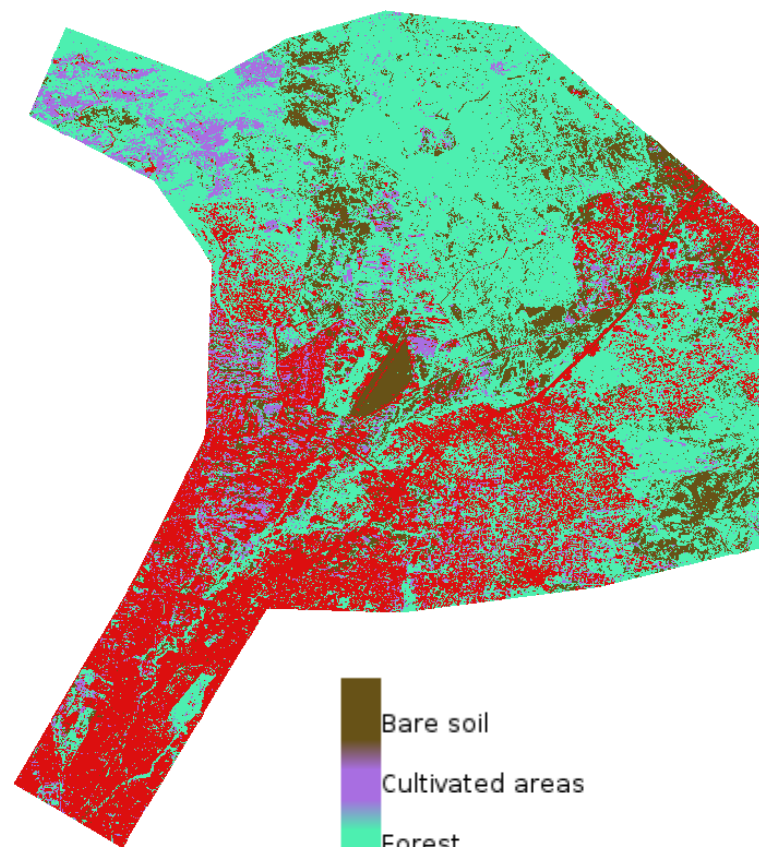
SCENT Harmonisation platform web server



```
147.102.5.93:8080/geoserver/geomesa/ows?service=WFS&version=1.0.0&request=GetFeature&typename=org.geomesa.scent.FeatureType


JSON Raw Data Headers
Save Copy Collapse All Expand All Filter JSON

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  "properties": {
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    "userId": 73,
    "crowdURI": "https://storage.googleapis.com/images_scent/d3viquTrigR8RDxahFdg.mp4",
    "status": "Annotated",
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```



Observe Open Data Challenge, Webinar, June 16th 2016

OGC Sensor Things API



scent Home

About Catalogue Chart Map Locations Things Observations Login

scent harmonisation platform

Scent Harmonisation Platform Visualisation Site

A client application tailored for the purposes of inspecting and visualising traditional in-situ and citizen-generated observations.

Images

Campaign Dashboard

Sensors Dashboard

- Sensors
- ✓ Datastreams
- Things
- Observed Properties
- Locations
- Historical Locations
- Observations
- Feature of Interest

About this page

The Visualisation site constitutes a custom innovative application that exposes the resources made available from the Scent Harmonisation Platform conformant with OGC SensorThings API standard and it consists of the following main characteristics:

- > User-friendly interfaces enabling both time-series analysis and spatial representation of SensorThings API resources as follows:
 - ✓ Time-series analysis of the observations filtered by the observed phenomenon and the sensor;
 - ✓ Metadata shown on map regarding latest values for all measurement aggregations, filtered by a given observed phenomenon;
 - ✓ Visualisation of the location path and the latest location of all the data providers;
 - ✓ Simultaneous visualisation of the observations in relation to time and space for a given Observed Phenomenon and a given Data Provider;
 - ✓ A sensor dashboard supporting low-level interaction with the Harmonisation Platform SensorThings driven schema.
- > An interactive campaign dashboard that enables the spatial visualisation and graphic representation of the images of Land Cover/ Land Use collected from the volunteers during the large-scale demonstrations of Scent project in Kifisos and Danube Delta pilot areas, accompanied from filtering capabilities.

```
▼ value:
  ▼ 0:
    name: "Things"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/Things"
  ▼ 1:
    name: "Locations"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/Locations"
  ▼ 2:
    name: "HistoricalLocations"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/HistoricalLocations"
  ▼ 3:
    name: "Datastreams"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/Datastreams"
  ▼ 4:
    name: "Sensors"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/Sensors"
  ▼ 5:
    name: "Observations"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/Observations"
  ▼ 6:
    name: "ObservedProperties"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/ObservedProperties"
  ▼ 7:
    name: "FeaturesOfInterest"
    ▼ url: "https://mariaisawsome.iccs.gr:8443/SensorThing/v1.0/FeaturesOfInterest"
```


WeObserve Marketplace



The screenshot displays the WeObserve Marketplace website. A modal window is open, titled "The datasets are available through:", listing three options: "SCENT Harmonisation platform web server (OGC WMS & WFS)", "GEOSS portal", and "SCENT Harmonisation platform client application (OGC Sensor Things API)". Below the list, it says "Watch the following explanatory video and learn more about the SCENT datasets!". The video player shows a landscape with mountains and water, with the text "We need to be looking at the Big Picture" and "Become the 'eyes' of policymakers by monitoring changes in the environment using your smartphone!". A "CLOSE" button is at the bottom of the modal.

Keywords

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HOME ABOUT NEWSROOM EVENTS COMMUNITIES KNOWLEDGE BASE MARKETPLACE

SCENT overview

SCENT Harmonisation platform web server (OGC WMS & WFS)

GEOSS portal

SCENT Harmonisation platform client application (OGC Sensor Things API)

Watch the following explanatory video and learn more about the SCENT datasets!

We need to be looking at the Big Picture

Become the 'eyes' of policymakers by monitoring changes in the environment using your smartphone!

CLOSE



THANK YOU!

Any Questions?

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