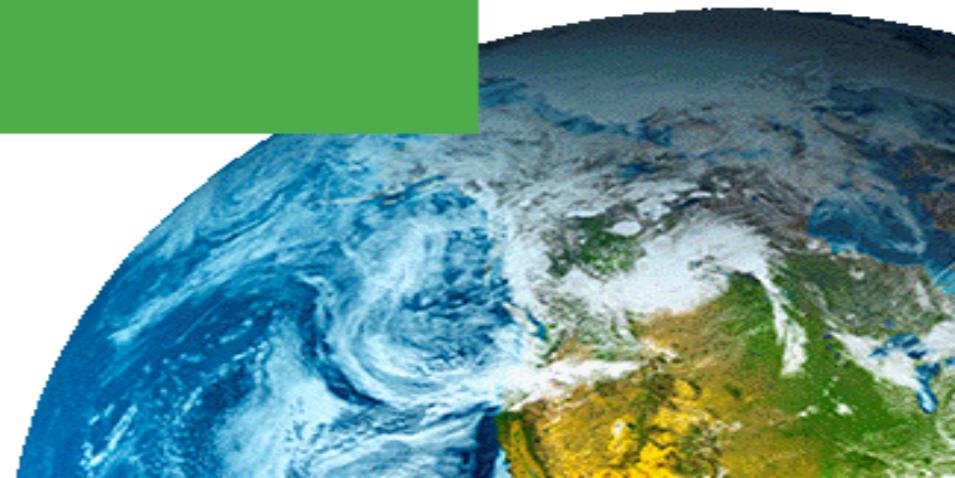




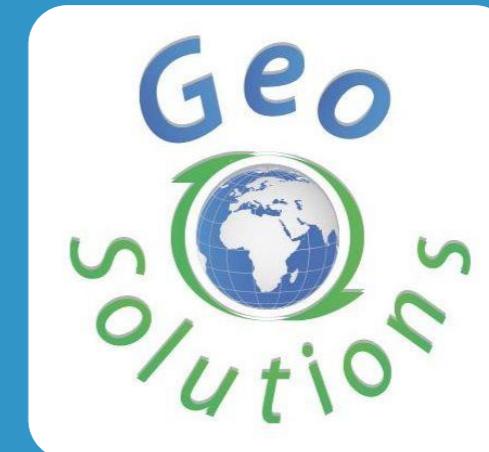
MapStore

Modern mashups with OL, Leaflet and React

Ing. Mauro Bartolomeoli
Dott. Lorenzo Natali
GeoSolutions



- Founded in Italy in late 2006
- Expertise
 - Image Processing, GeoSpatial Data Fusion
 - Java, Java Enterprise, C++, Python
 - JPEG2000, JPIP, Advanced 2D visualization
- Supporting/Developing FOSS4G projects
 - GeoServer, MapStore
 - GeoNetwork, GeoNode, Ckan
- Clients
 - Public Agencies
 - Private Companies
- <http://www.geo-solutions.it>





Contents



- What is MapStore?
- What does MapStore Do?
- Who is using MapStore?
- Where is MapStore going?

What is MapStore?



What is MapStore2?



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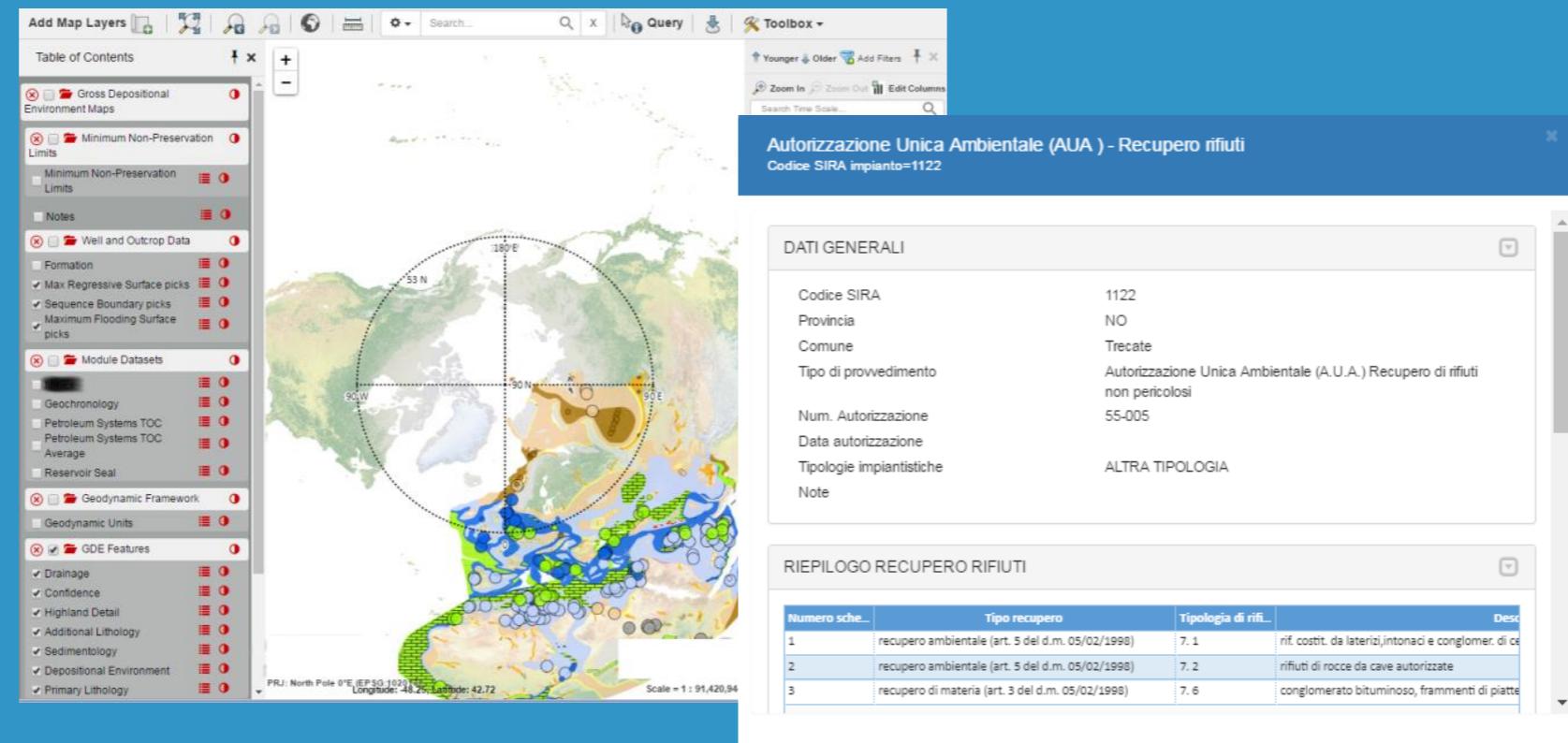
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MapStore

<https://mapstore.geo-solutions.it/mapstore/>

What is MapStore?

It's a Framework



You can build many different applications
with its plugins (and by developing your own)



It's a Framework

So you need to be a developer to use it this way
...and need some basic knowledge

ES2015

ReactJS

Redux

RxJS

Less / CSS

...or ask «someone» to build the application for you

*If you are familiar with all of this technologies
you can also send us your resume!*



What is MapStore?



It is also a Product

The screenshot displays the MapStore application interface. At the top, there is a navigation bar with the city coat of arms of Genova, links for 'Featured' and 'Contents', a search bar, and a user profile icon. Below the navigation bar, the 'Featured' section shows four map thumbnails: 'Livello 3 del Piano Urbanistico Comunale - P...', 'Interventi LLPP da luglio 2017 - Mappa degli interventi sul territorio', 'EMERGENZA MORANDI', and 'Protezione Civile per il cittadino'. The main area is titled 'Results 4 of 4' and shows a large map of Genoa with a red dashed polygon highlighting a specific area. To the left of the map, there is a 'Contents' sidebar with a 'Maps (30)' section containing thumbnails for 'Anagrafe', 'Geologia', and 'Protezione Civile'. A detailed layer control panel is overlaid on the map, showing various layers like 'Default', 'CIVICI SOGGETTI A...', 'STRADE INTERDET.', 'ord. 04 - 02 - 2019 Z...', 'TOPONOMASTICA', 'ELEMENTO STRAD.', 'ABITANTI PER CIVIC...', 'CIVICI', and 'ATTIVITA COMMERC...'. A legend at the bottom right defines symbols for 'ZONA ROSSA (ordinanza del 04/02/2019)', 'STRADE INTERDETTE', 'STRADE CON RESTRIZIONI', and 'CIVICI SOGGETTI A SGOMBERO'. The map also includes a scale bar (200 m) and a 'Privacy' link.

Use it as is or slightly modifying the look&feel

It is also a Product

So you DON'T need to be a developer to use it this way

...just edit some configuration

...and basic css

...using the documentation (*we are improving this*)

...and ask on the mailing list when in doubt

Functionalities



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Basic GeoPortal Stuff



The screenshot displays the MapManager GeoPortal interface. At the top, there's a navigation bar with icons for globe, featured, contents, and user profile. A search bar is located above the main content area. Below the search bar, there are two buttons: one with a bar chart icon and another with a plus sign icon. The main content area is divided into sections: 'Featured' and 'Contents'. The 'Featured' section shows four map thumbnails: 'Historical Maps of Florence', 'OSM from Maps @ GeoSolutions', 'Global Sentinel 2 Cloudless', and 'EUMETSAT Sample data'. Each thumbnail has a 'View' button, a 'Edit' button, and a 'Star' icon. Below these thumbnails is a 'Show more...' button. The 'Contents' section has tabs for 'Maps (94)' and 'Dashboards (5)'. Under the 'Maps' tab, there are eight map thumbnails arranged in two rows of four. The top row includes 'Global Sentinel 2 Cloudless', 'Vector with date and time fields', 'LaMMA Current Temperature Southern Europe', and 'OWS14 Daraa Map'. The bottom row includes 'view fixed', 'Treviso', 'test_cc_style', and 'test geoscopio'. Each map thumbnail has its own set of 'View', 'Edit', and 'Star' buttons.

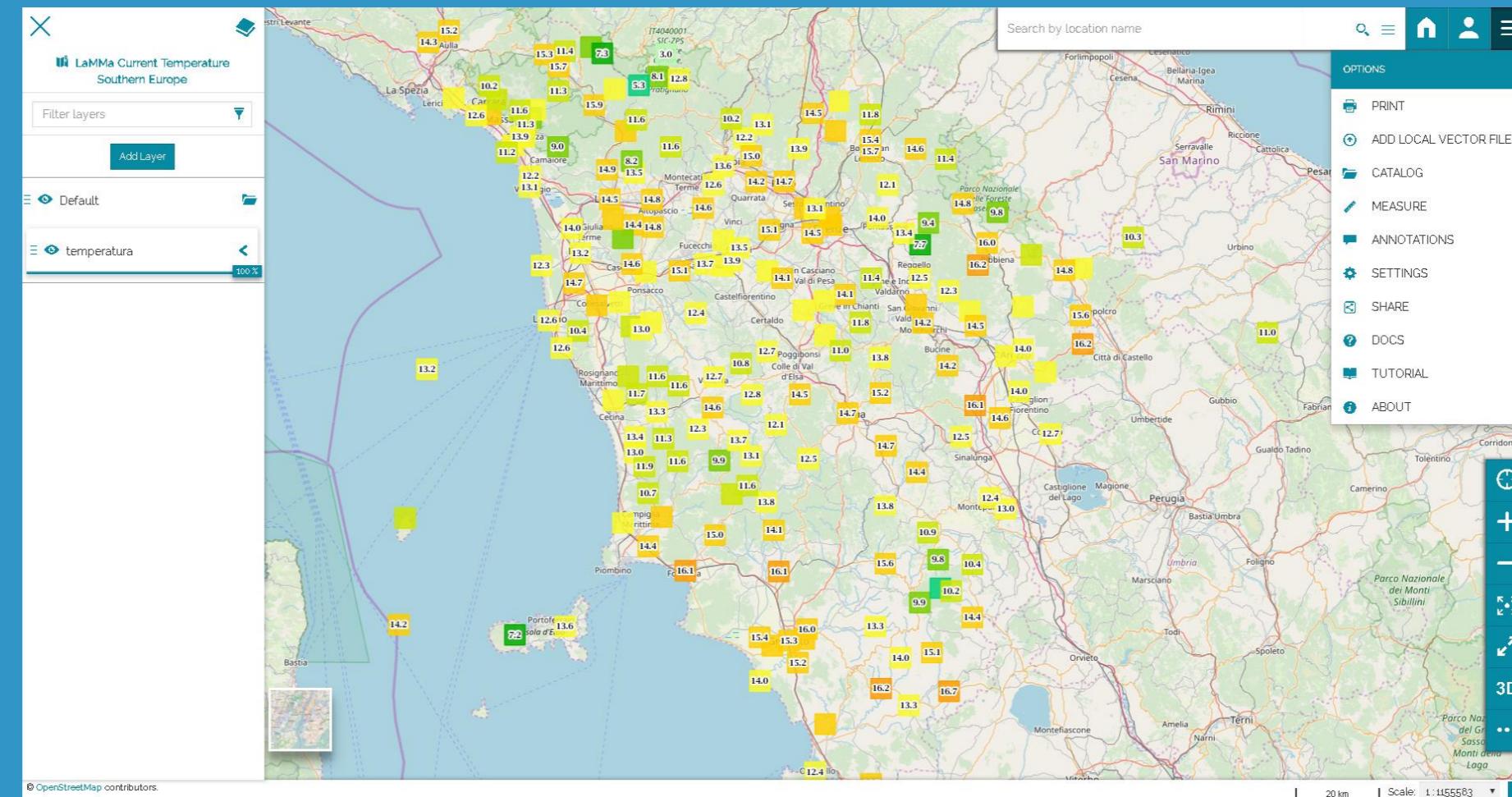
MapManager

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Basic GeoPortal Stuff



MapViewer

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Basic GeoPortal Stuff



The screenshot shows a Geoportal interface with a search bar at the top. Below it, there's a 'Featured' section with links to 'Historical Maps of Florence' and 'OSM from Maps @ GeoSolutions'. A red arrow points from the 'Create Map' button on the left to a map viewer on the right. The map viewer displays a map of Europe and North Africa. Another red arrow points from the map viewer to a 'Catalog' window titled 'Load Layers'. The catalog lists several services: 'A sample ArcGrid file', 'North America sample Imagery', 'mosaic', and 'GRAY_HR_SR_OB_DR'. Each service has a 'Preview Not Available' message and a '+ Add To Map' button.

The screenshot shows a 'Save Map' dialog box. It includes fields for 'Thumbnail', 'Name' (set to 'Map Name'), and 'Description'. A red arrow points from the 'Save' button in the dialog to a 'MapStore' interface below.

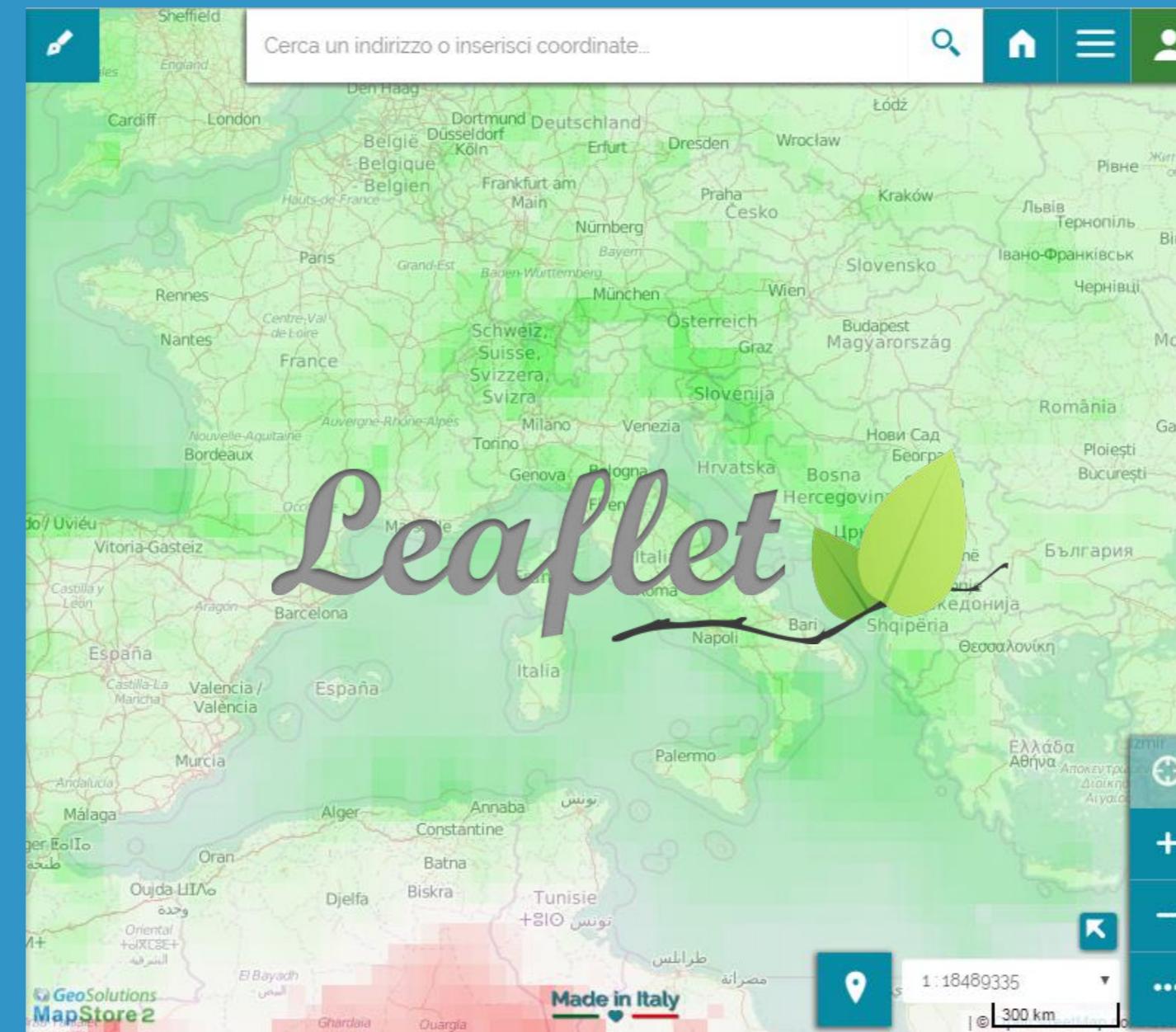
The screenshot shows a 'MapStore' interface with a 'Edit Map Properties' dialog box. The dialog box contains fields for 'Thumbnail', 'Name' (set to 'test'), and 'Description' (set to 'test.map'). Under 'Permissions Groups', there is a section for 'Test STA' and 'Test ST'. A red box highlights the 'Select a group...' dropdown menu, and a red arrow points from this box to a 'Set Permissions' button at the bottom of the dialog.

The screenshot shows a 'Share it' dialog box over a map of Tasmania. The dialog box has tabs for 'Link', 'Social', and 'Embedded'. It shows a QR code and a 'View direct link' button. A red arrow points from the 'Share it' dialog to the main map area.

Multiple Mapping Engines

GeoSolutions

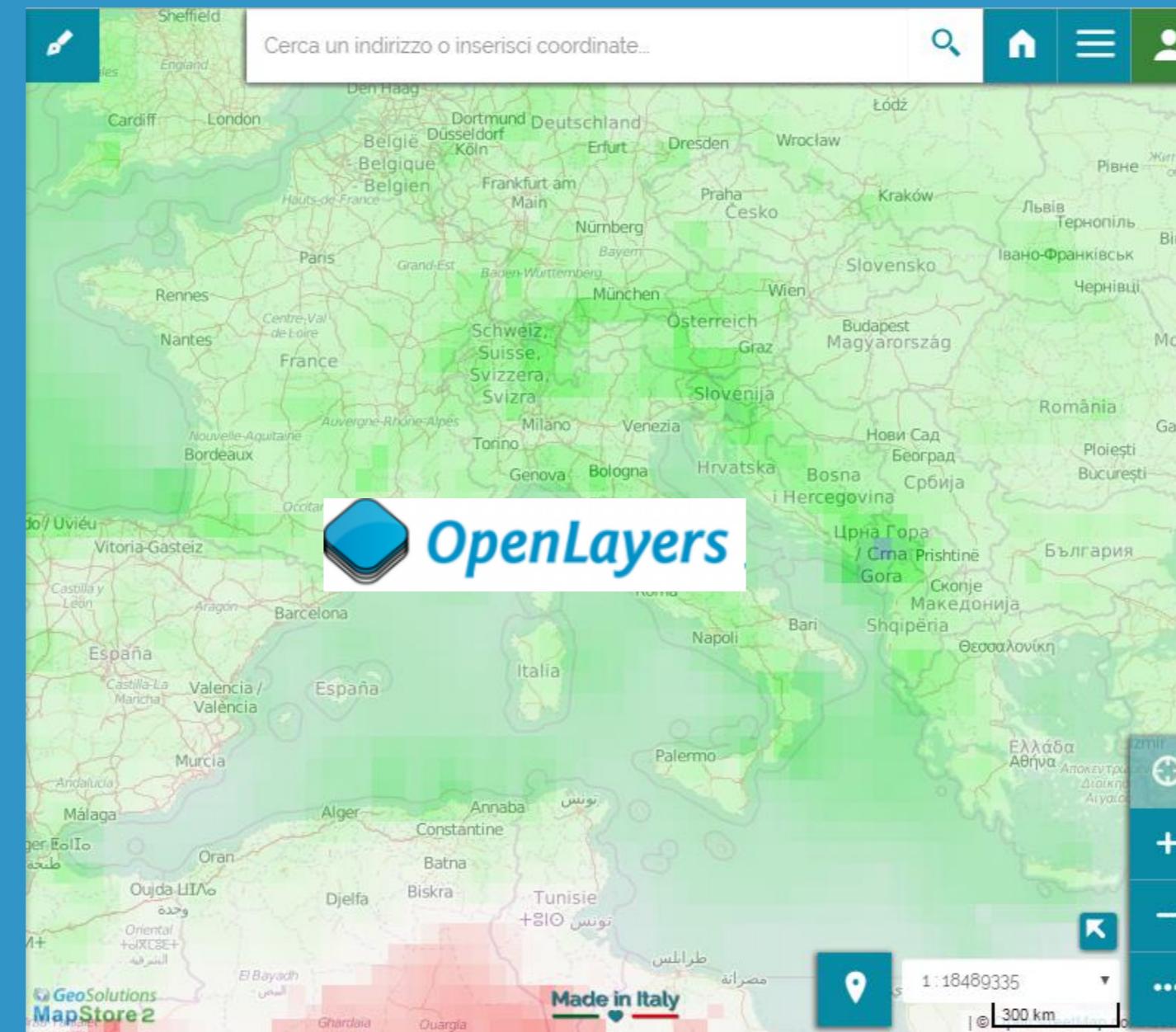
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Multiple Mapping Engines

GeoSolutions

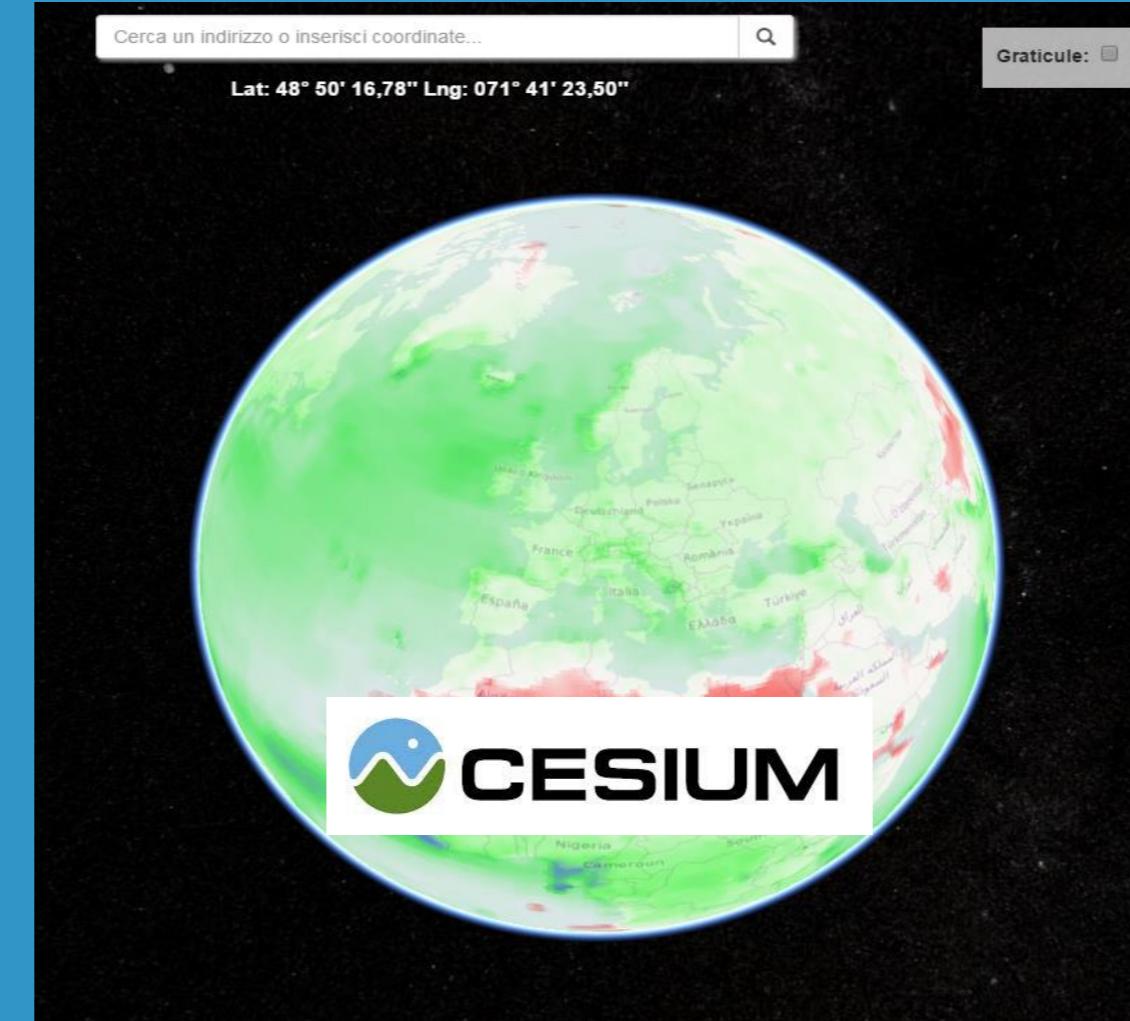
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Multiple Mapping Engines

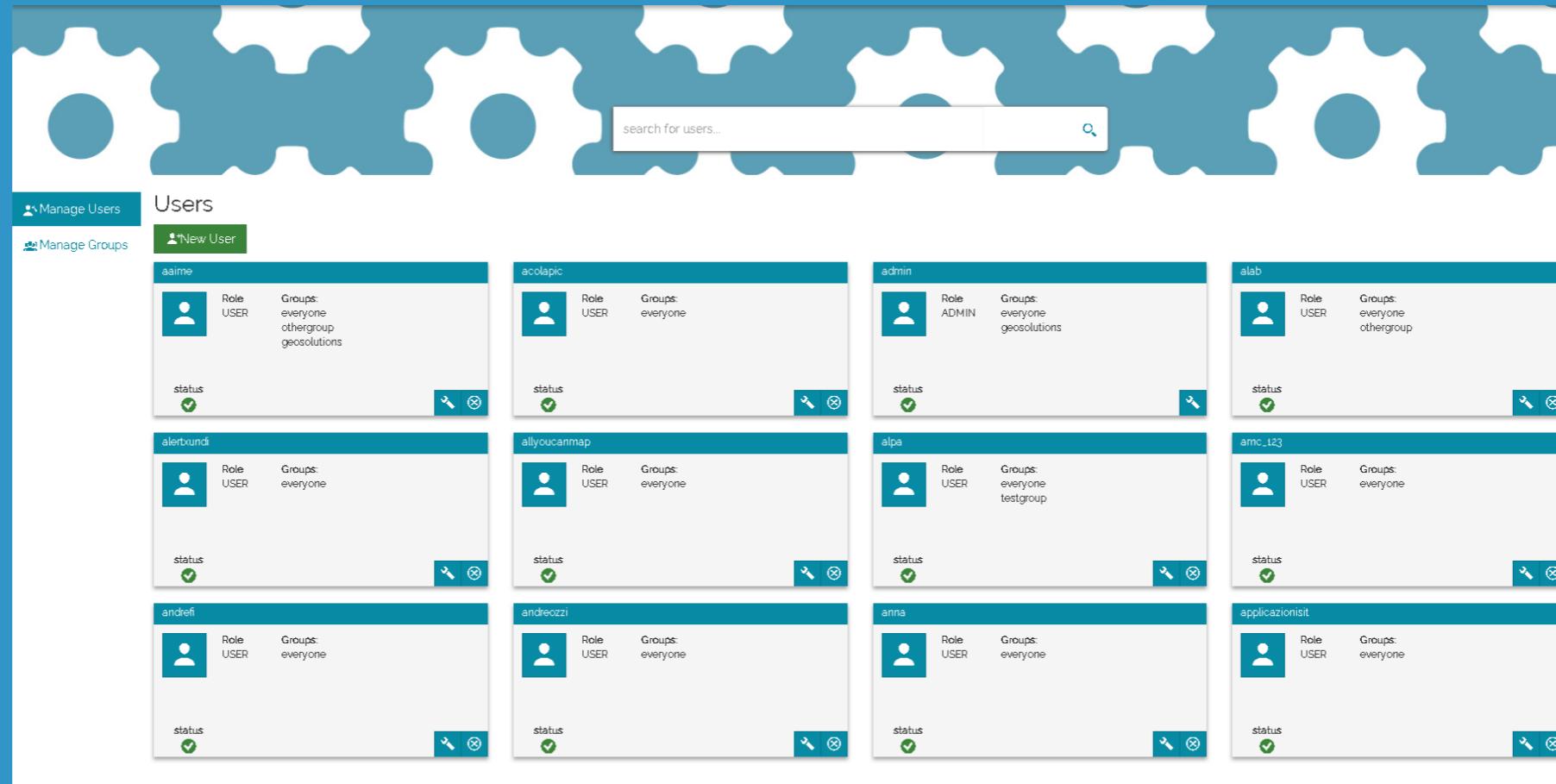
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Basic GeoPortal Stuff

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User	Role	Groups	Status	Action
aaime	USER	everyone othergroup geosolutions	status	edit
acolapic	USER	everyone	status	edit
admin	ADMIN	everyone geosolutions	status	edit
alab	USER	everyone othergroup	status	edit
alertkundi	USER	everyone	status	edit
allyoucanmap	USER	everyone	status	edit
alpa	USER	everyone testgroup	status	edit
amc_123	USER	everyone	status	edit
andrefi	USER	everyone	status	edit
androzzi	USER	everyone	status	edit
anna	USER	everyone	status	edit
applicazionosit	USER	everyone	status	edit

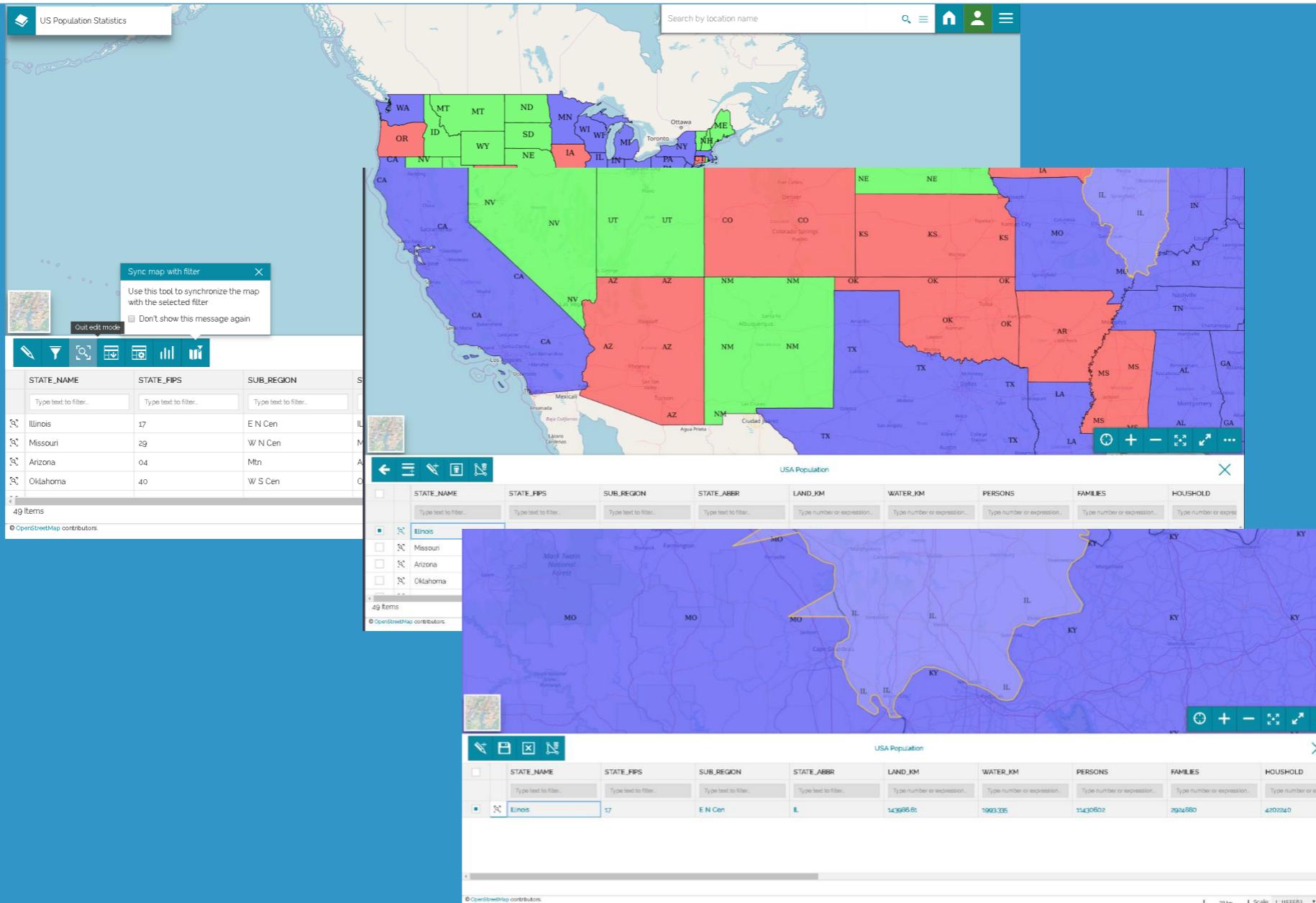
UserManager
GroupManager

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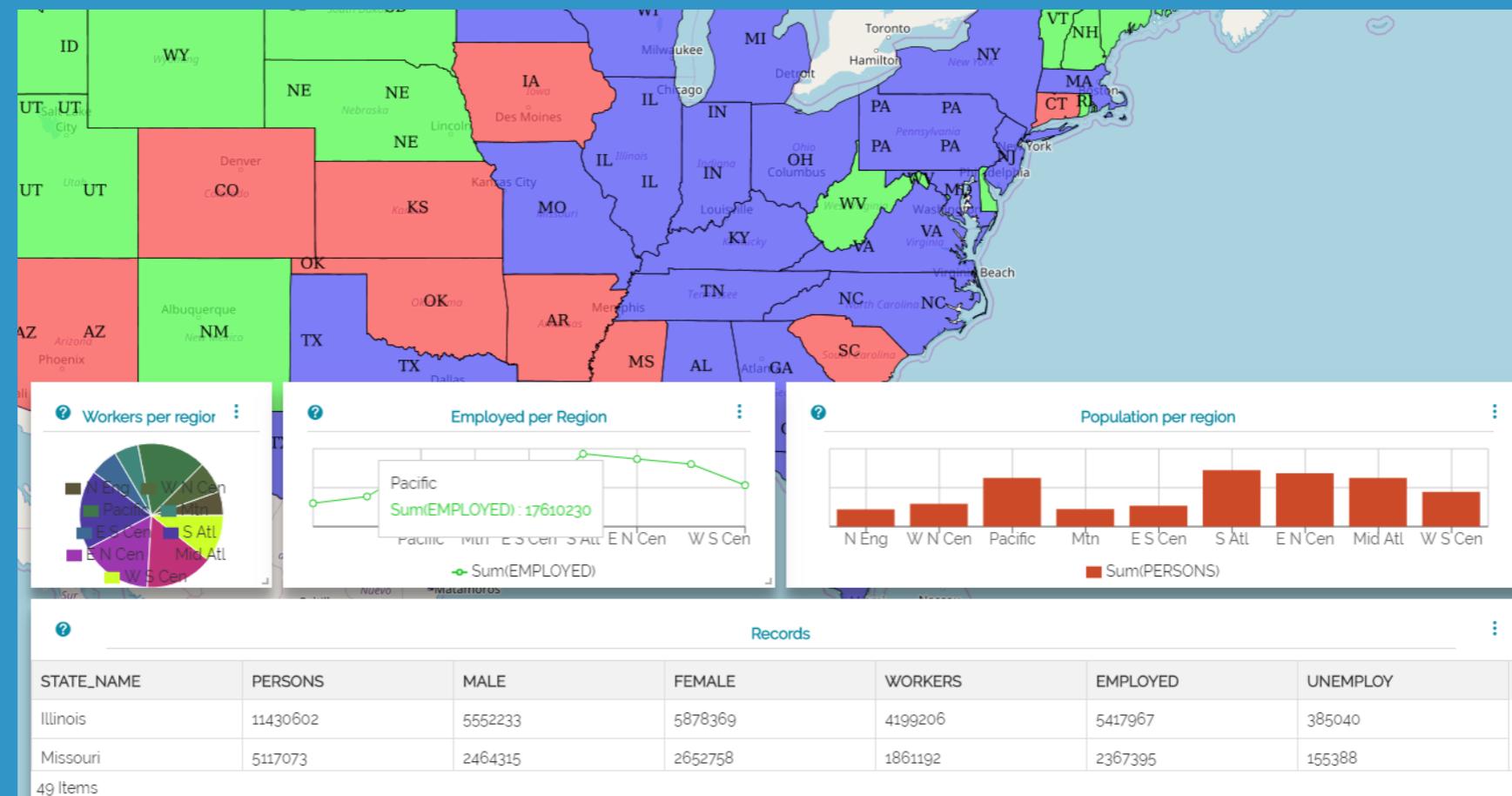
Access and Edit Vector Data



Charts and Widgets

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Dashboards



U.S. States dashboard

Sample dashboard to show all widgets and connection. It contains:

- Sample chart widget
- Sample counter widget
- Map and Legend widget
- Table widget
- Text widget (this one)

All the widget are connected to browse data only in the map viewport.

Population per region

Population

246.881.454

Map of united states

Legend

USA Population

- < 2M
- 2-4M
- > 4M

OpenStreetMap contributors

STATE_NAME	SUB_REGION	PERSONS	MALE	FEMALE
Illinois	E N Cen	11430602	5552233	5878359
Missouri	W N Cen	5117073	2464315	2652758
Arizona	Mtn	3665228	1810691	1854537
Oklahoma	W S Cen	314585	1530819	1614766
North Carolina	S Att	6628629	3211286	3414343
Tennessee	E S Cen	482998	236184	2503774
Texas	W S Cen	17122020	8433340.00000001	8686674
New Mexico	Mtn	1379559	67780	70189
Alabama	E S Cen	4049587	1936162	2104425

49 Elementi

Unesco Poi

UNESCO is an Organization for Peace and works to give a human face to globalization. Its actions contribute to the achievement of the Sustainable Development Goals defined in Agenda 2030, adopted by the UN General Assembly in 2015.

Items visible in map

186

OpenStreetMap contributors

cod_unesco	sito	seriale	cod_compon	componente	tipo_area
IT_549 rev	Il Palazzo Reale del X ^o	0		Acquedotto	sito
IT_823	Residenze Sabaude	1	823-005	Villa della Regina	sito
IT/VA_91bis	Centro storico di Rom	1	091-009(b)	Palazzi detti dei Propri	sito
IT/VA_91bis	Centro storico di Rom	1	091-009(a)	Palazzi detti dei Propri	sito
IT/VA_91bis	Centro storico di Rom	1	091-010	Palazzo Pio	sito
IT/VA_91bis	Centro storico di Rom	1	091-007	Palazzo delle Convert	sito
IT/VA_91bis	Centro storico di Rom	1	091-006	Palazzo di Propogand	sito
IT/VA_91bis	Centro storico di Rom	1	091-004(a)	Palazzo di San Callistr	sito
IT/VA_91bis	Centro storico di Rom	1	091-004(b)	Edifici su via Sant'Egic	sito
IT/VA_91bis	Centro storico di Rom	1	091-013	Basilica di San Paolo I	sito
IT/VA_91bis	Centro storico di Rom	1	091-002(b)	Complesso della Sanl	sito
IT/VA_91bis	Centro storico di Rom	1	091-003	Complesso di Santa M	sito
IT_823	Residenze Sabaude	1	823-002	Palazzo Madama, Tori	sito
IT_1237rev	Le Dolomiti	1	1237rev_001	Pelmo-Croda da Lago	sito
IT/VA_91bis	Centro storico di Rom	1	091-005	Palazzo della Cancell	sito

186 Elementi

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MapAnnotations



The screenshot displays a map of Europe with several annotations. Annotations include:

- My Title**: A green location pin with a speech bubble containing placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullamcorper accumsan. Praesent posuere, libero ut lobortis mattis nulla, vel lacinia augue arcu a nisi. Vestibulum placerat".
- Other**: An orange location pin with a speech bubble containing "b".
- a**: A blue location pin with a speech bubble containing "c".
- f**: A blue location pin with a speech bubble containing "g".
- h**: A blue location pin with a speech bubble containing "i".

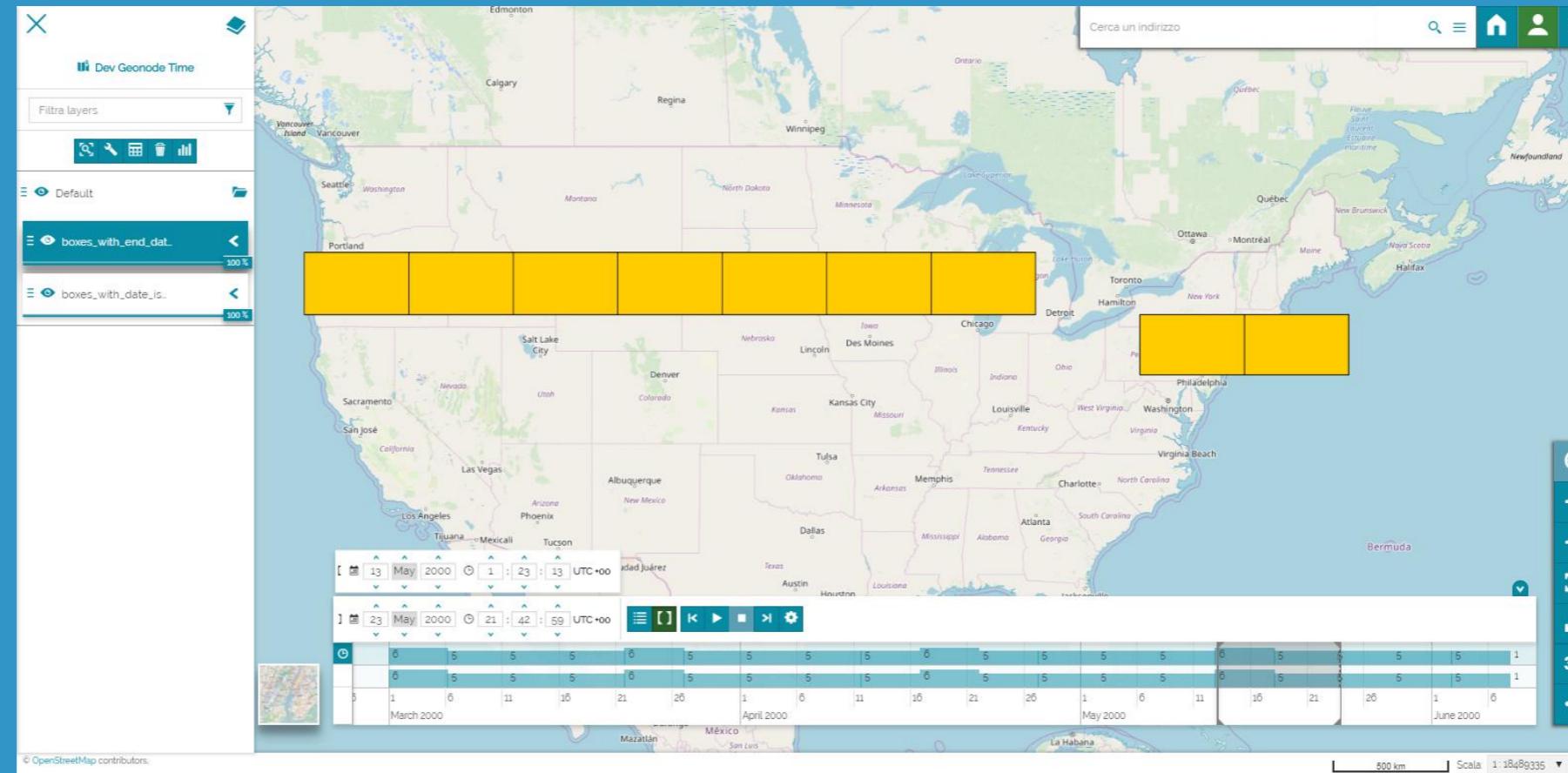
The sidebar includes a "+ New" button, a "Filter annotations..." input field, and zoom controls (+, -, ×).

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Time Slider

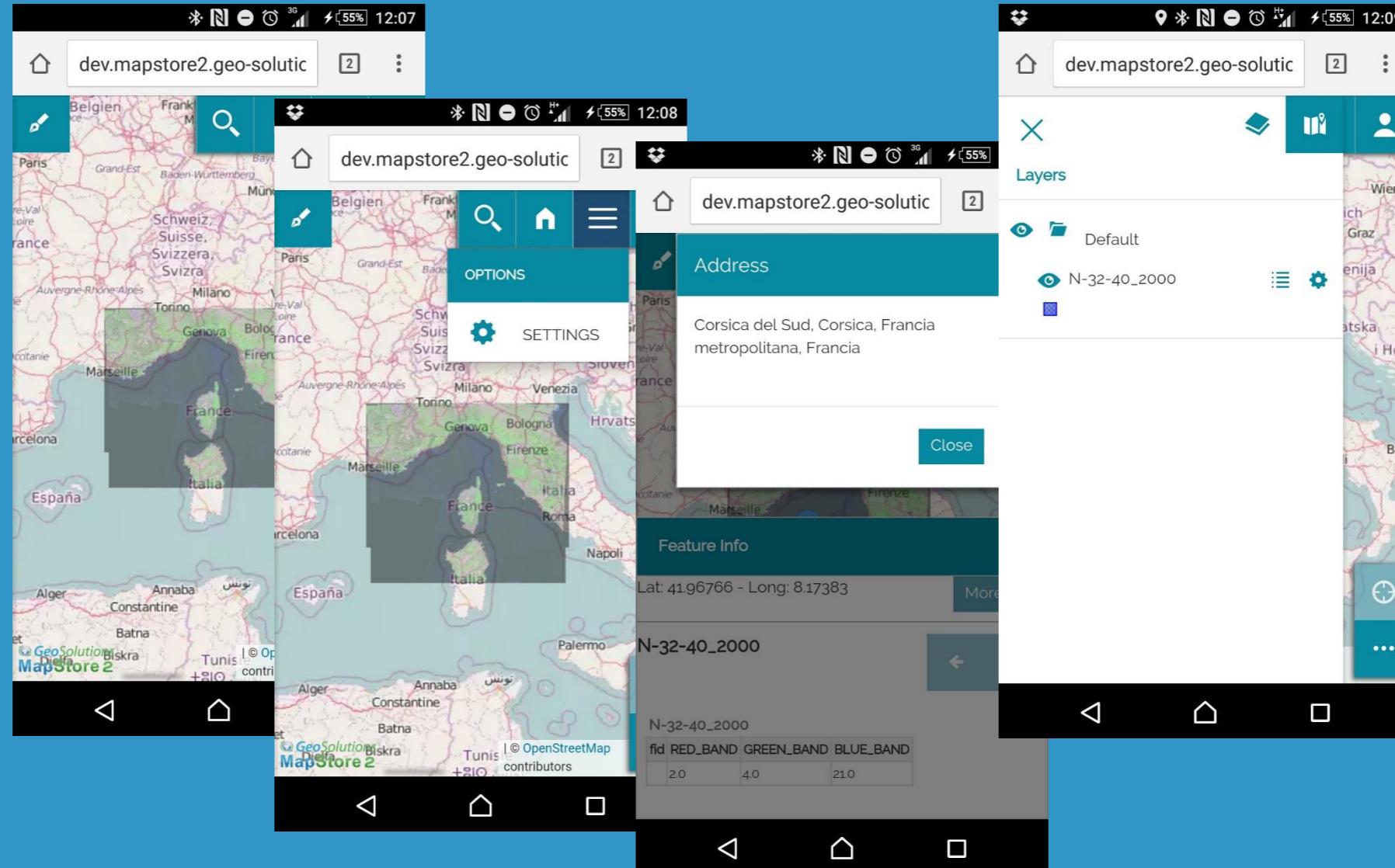


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Mobile Ready





User Guide



<https://mapstore.readthedocs.io/en/latest/>

The screenshot shows the MapStore User Guide page. The top navigation bar includes links for Home, User Guide (which is active), Developer Guide, Framework API, JavaScript API, Plugins, and Downloads. The sidebar on the left contains a 'User Guide' section with links to Home Page Overview, Managing Users and Groups (Overview, Managing Users, Managing Groups, Managing User Rights on Maps), Exploring Maps (Overview, Table of Contents, Managing Layer Settings, Attribute Table, Creating Widgets, Menu Bar, Printing a Map, Adding Local Vector Files, Managing Remote Services from the Catalog, Saving a Map, Performing Measurements, Adding Annotations, Sharing a Map, Side Bar). The main content area features an 'Overview' section with text about cartography and a map viewer interface, followed by a 'Table of contents' section listing MapStore WebGIS Portal Interface. A large map of Europe is displayed in the center.

Downstream Products



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Neftex WebMapper



CSI Piemonte SIRA

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SP SISTEMA CONOSCENZE AMBIENTALI

X

[SEARCH RESULTS LIST](#)

[Back to search](#)

Risultati - 7859

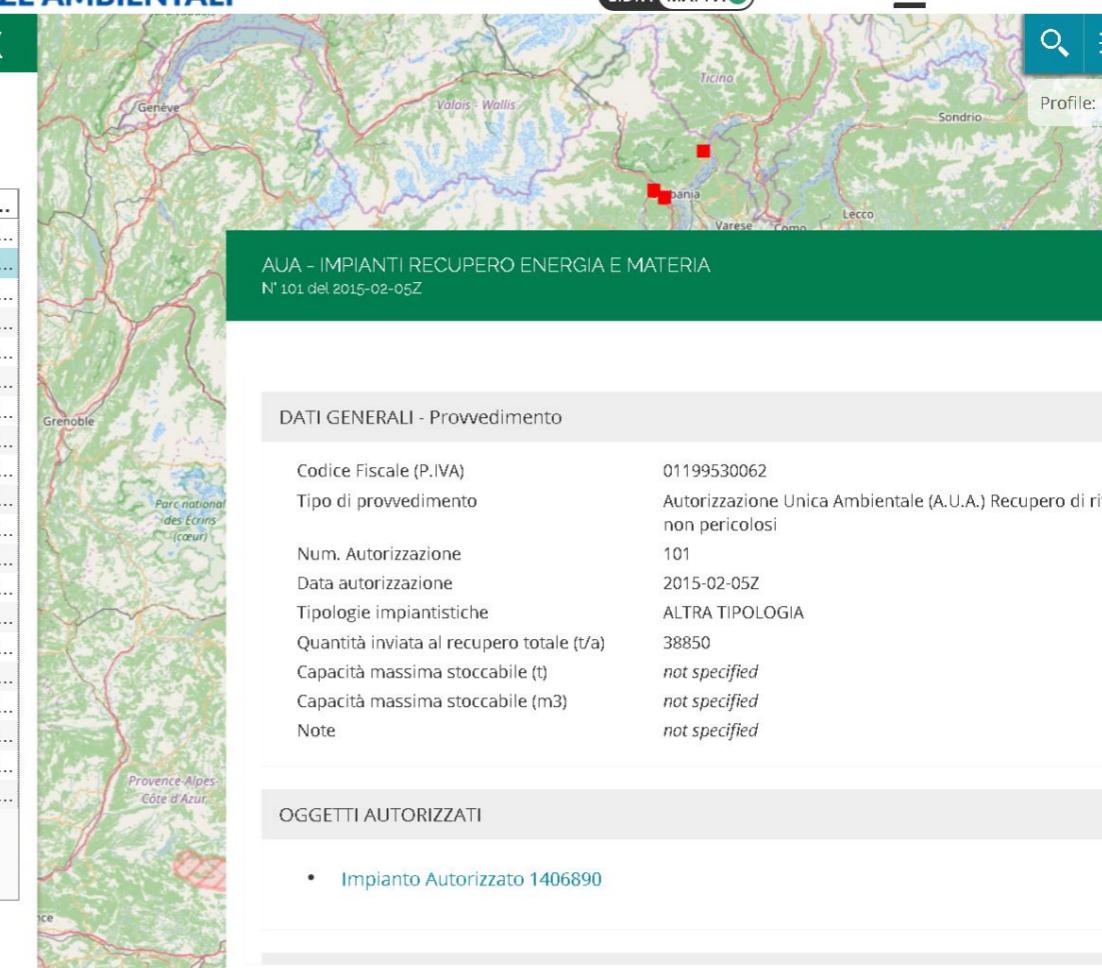
	Codice SIRA	Codice fiscale ...	Comune	Autorizzazioni ...
	1406944	00109880500	Novi Ligure	Recupero di rifiut...
	1406890	01199530062	Frassineto Po	Recupero di rifiut...
	1407023	00435070065	Silvano d'Orba	Recupero di rifiut...
	1407038	00865120067	Ticineto	Recupero di rifiut...
	1407042	00932510043	Tortona	Recupero di rifiut...
	1408478	01545840066	Borghetto di Bor...	Recupero di rifiut...
	1407057	03383830100	Tortona	Recupero di rifiut...
	1407082	02291260061	Valenza	Recupero di rifiut...
	1429320	02321940062	ALESSANDRIA	Recupero di rifiut...
	1407078	01278020068	Valenza	Recupero di rifiut...
	141994	00109880500	Novi Ligure	Recupero di rifiut...
	1406810	01980160012	Carbonara Scrivia	Recupero di rifiut...
	1422199	02122770064	Sezzadio	Recupero di rifiut...
	141940	01199530062	Frassineto Po	Recupero di rifiut...
	142073	00435070065	Silvano d'Orba	Recupero di rifiut...
	1428316	01416470068	Occimiano	Recupero di rifiut...
	1406954	01435600067	Ovada	Recupero di rifiut...
	1422191	02118260062	Predosa	Recupero di rifiut...
	1421525	00170660062	Casal Cermelli	Recupero di rifiut...
	1428708	01230410068	Valenza	Recupero di rifiut...

1 to 20 of more | < < Page 1 of more > >|

[Export](#) [Tool Panel](#) [Select All](#)

LISTA MAPPA 1

[MAPPA](#)



AUA - IMPIANTI RECUPERO ENERGIA E MATERIA
N° 101 del 2015-02-05Z

DATI GENERALI - Provvedimento

Codice Fiscale (P.IVA)	01199530062
Tipo di provvedimento	Autorizzazione Unica Ambientale (A.U.A.) Recupero di rifiuti non pericolosi
Num. Autorizzazione	101
Data autorizzazione	2015-02-05Z
Tipologie impiantistiche	ALTRA TIPOLOGIA
Quantità inviata al recupero totale (t/a)	38850
Capacità massima stoccare (t)	not specified
Capacità massima stoccare (m3)	not specified
Note	not specified

OGGETTI AUTORIZZATI

- Impianto Autorizzato 1406890

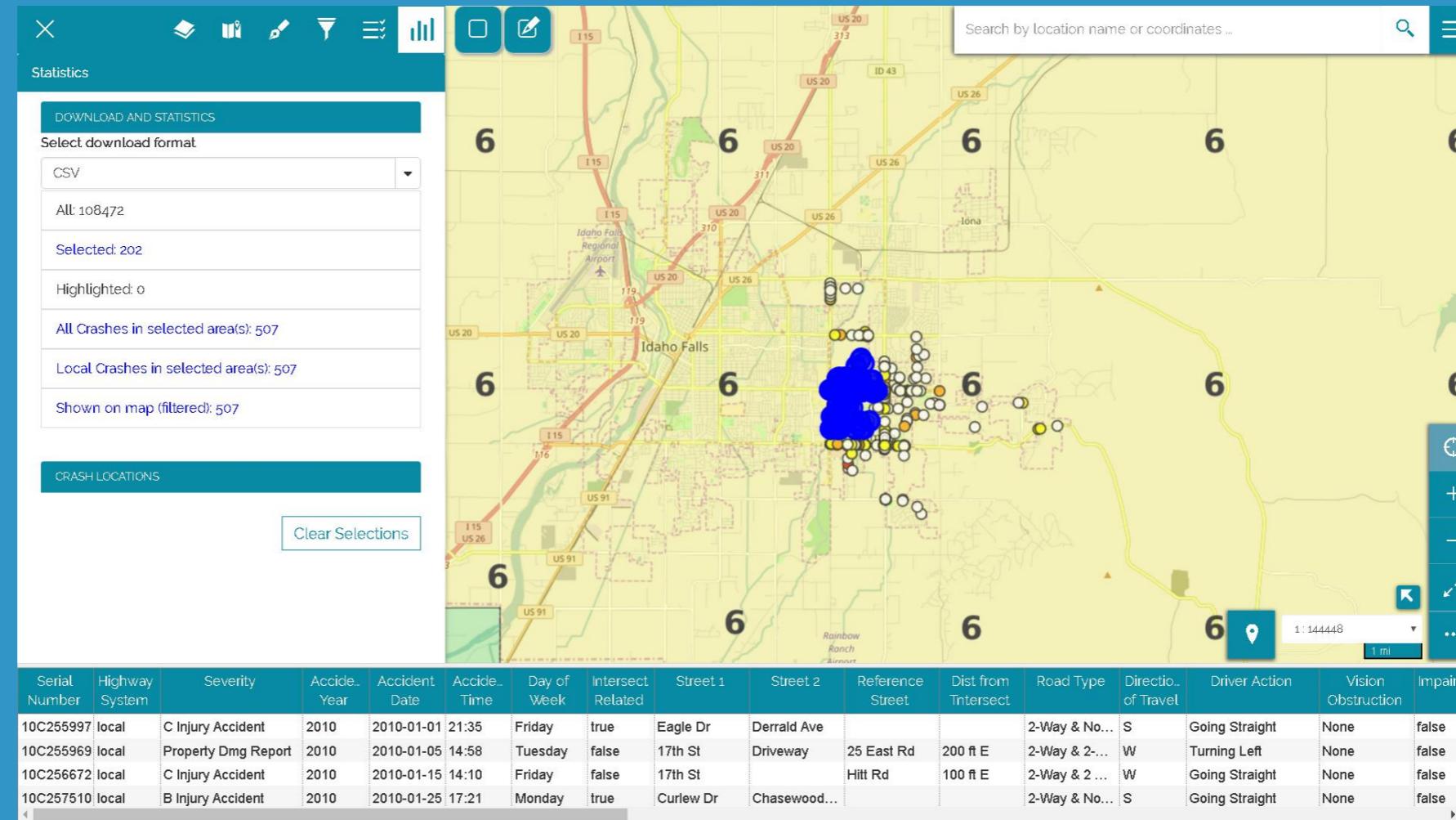


Idaho Local Highway Technical Assistance Council



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NPA Terrain Explorer

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The screenshot displays the NPA Terrain Explorer interface, showing a search bar at the top with the placeholder "search for projects...". Below the search bar are several project thumbnails:

- Empty Project**: Create a new project.
- Seep Explorer**: Shows a world map with various geological features.
- Sample: SeepExplorer 2**: Sample project for seep explorer 2, showing a map with red and green areas.
- Sample: Land Classification**: Sample land classification project, showing a map with different land types.
- Sample: DEM**: Sample DEM project, showing a terrain model.
- RSF5**: RSF5 project, showing a world map.

On the left side, there are two collapsed sections: **Correct Raster Processing** and **Alternative**. The main workspace is titled "Import Data" and contains a large blue area with the text "drop here files to add it to this session". Below this is a "target workspace: terrain".

The bottom section is titled "Import Sessions / Session 4 / Package 0" and contains three tabs: "Import Package", "Original File", and "Target Store".

- Import Package** tab shows "Status: COMPLETE" and "Update Mode: CREATE".
- Original File** tab shows "File Name: RSF-5 - DEM.tif" and "Format: GeoTIFF".
- Target Store** tab shows "Store Type: GectIFF" and "Store Name: RSF-5 - DEM1".

Below these tabs is a "Layer" panel with fields for "name" (RSF-5 - DEM1), "title" (RSF-5 - DEM), and "description" (Generated from GeoTIFF). An "Update" button is located at the bottom right of this panel.

The final panel at the bottom is titled "Trasformations Chain" and lists two items:

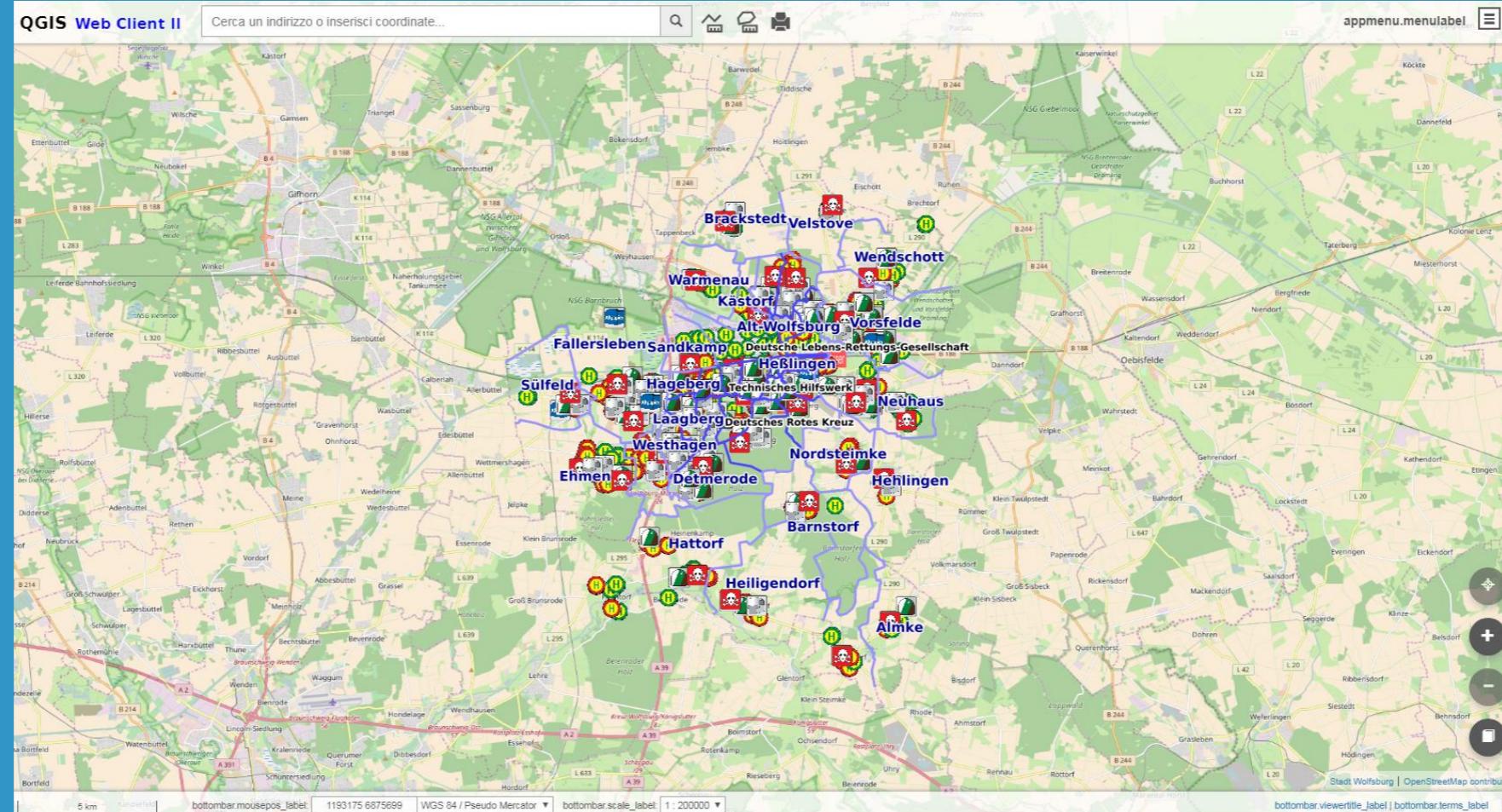
- # 0 GdalWarpTransform
- # 1 GdalAddoTransform

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SourcePole QWC2

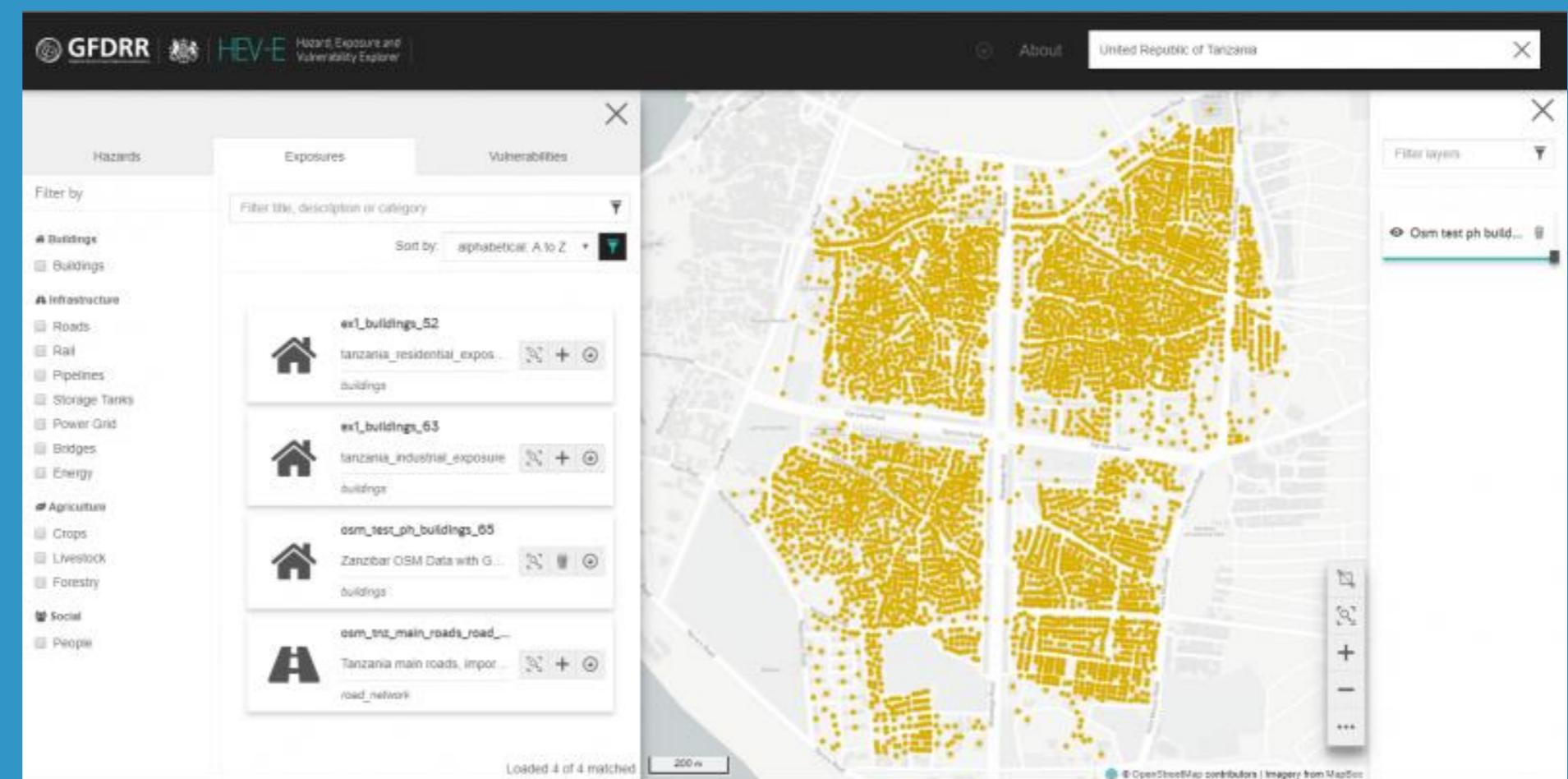


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World Bank - HEV-E



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EU - DECAT



The screenshot displays the EU-DECAT Decision Support System (DSS) interface. It features two main map views and an annotation panel.

Left Map View: Shows a detailed map of a coastal area in Italy, specifically around the Accademia Navale di Livorno. The map includes street names like Via Beppe Orlando, Via Caviglioglio, and Viale Nazario Sauro. A red shaded area indicates a "High water level" alert for a "flood" event. An annotation window lists several emergency contacts and resources:

- Special protection areas of Cyprus Paphos forest
- Village Kynoussa might be in Danger Population:71
- Police Close road to protect civilians
- Technical School - Shelter Analytically: 10 Men
- Department of Forests - Ground Forces
- Department of Forests - REQUEST FORCES
- Department of forest - Ground Forces
- Police - Ground Forces one police vehicle with two police officers

Right Map View: Shows a broader map of the Mediterranean coast, likely Cyprus, with various regions and towns labeled. An annotation window provides details about an international assistance mission:

- International assistance - Aerial means

Annotation Panel: Located at the bottom right, it contains a "Feature Info" section showing coordinates (Lat: 35.06267 - Long: 32.52451), a "More Info" button, and a "Description" section listing:

- 5 Italian planes
- 1 Greek plane
- 1 Greek Helicopter

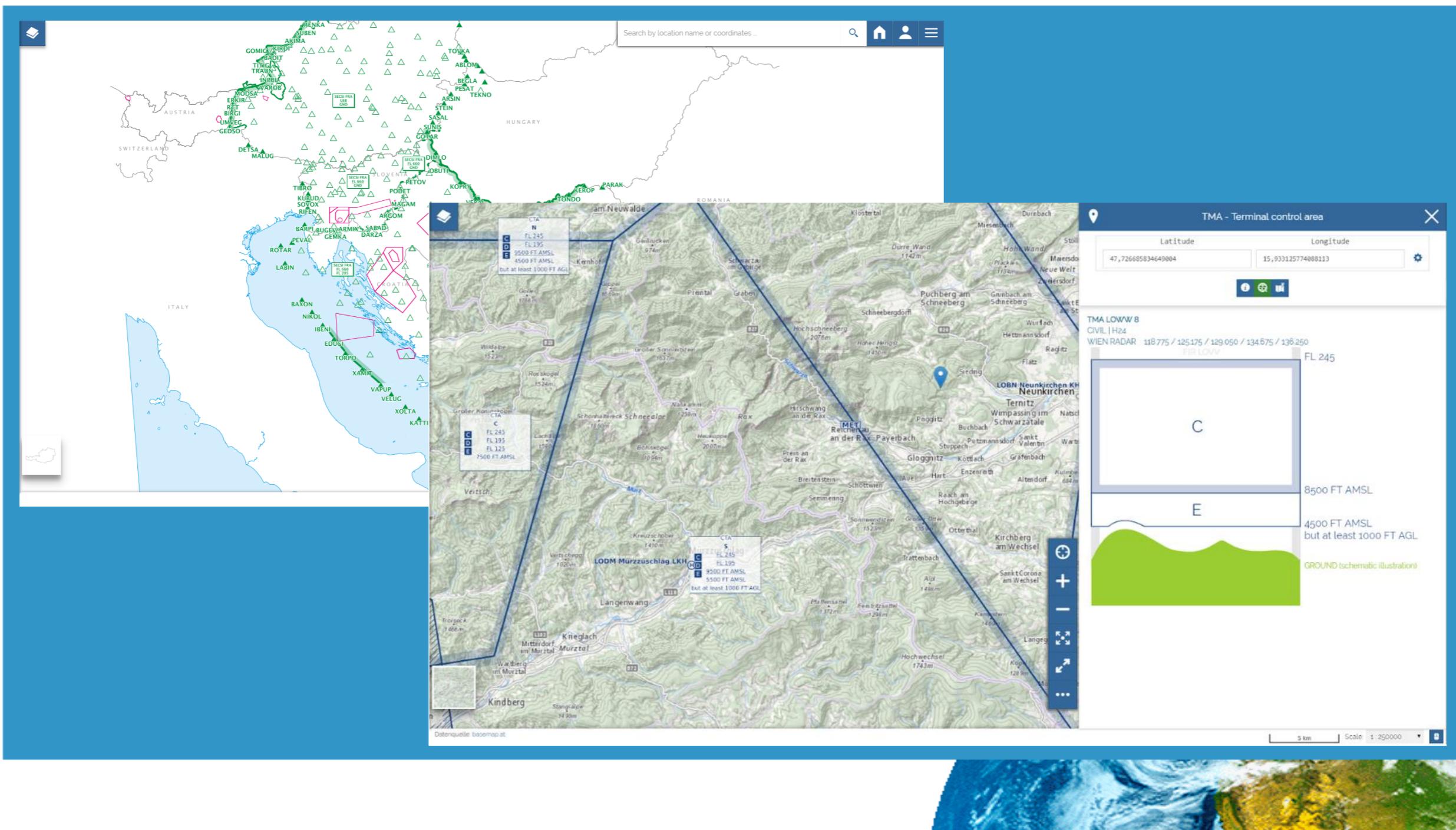
Bottom Status Bar: Includes copyright information (Copyright © 2017 DECATASTROPHIZE All rights reserved.), a timestamp (To: 2018-03-20 12:10:12 AM), a scale (1:144448), and a distance (3 km).



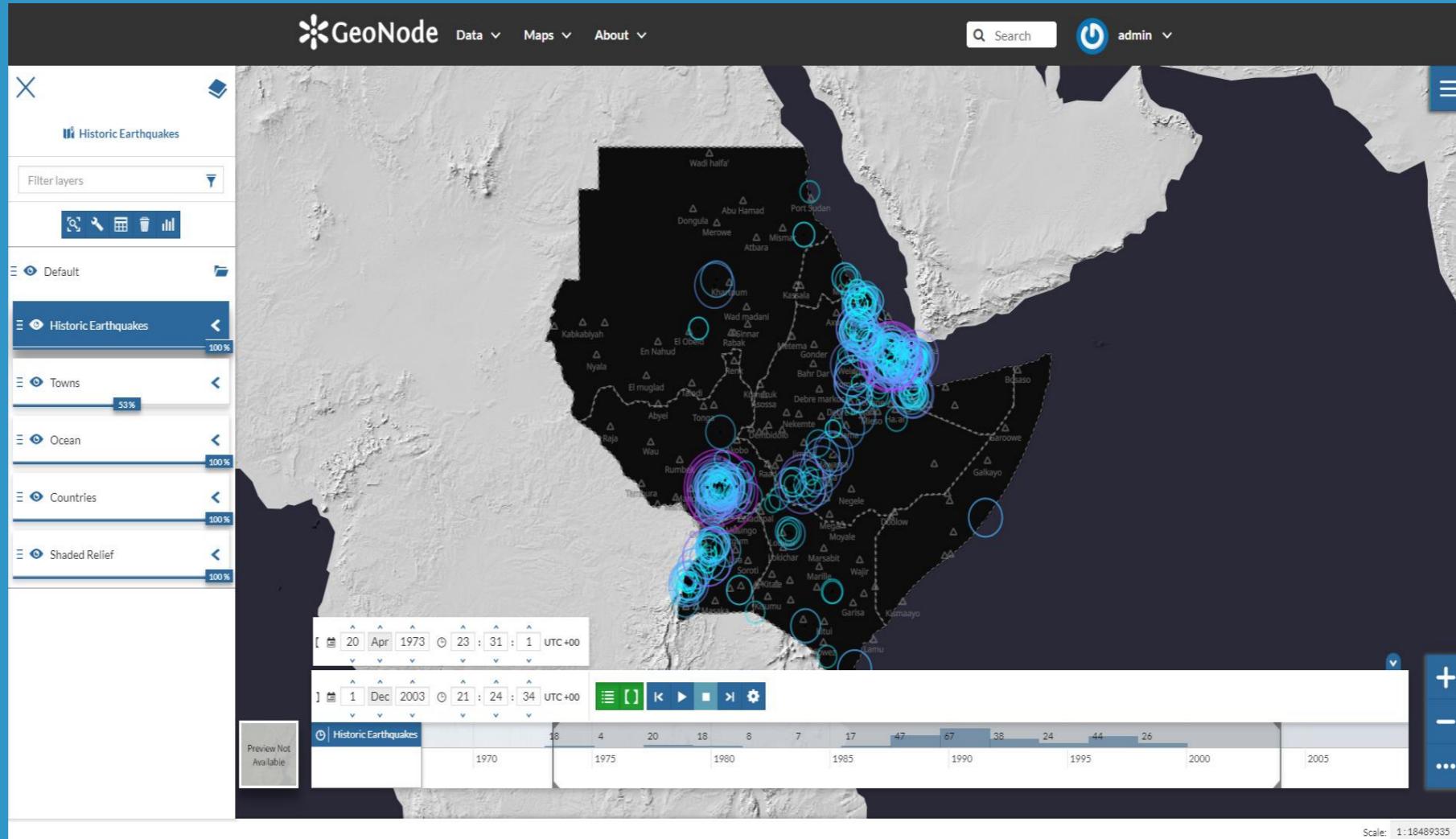
AustroControl SDI



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GeoSolutions



City of Bolzano

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The screenshot displays the 'Servizio Informativo territoriale della città di Bolzano'. It features a map of the Alpine region around Bolzano, Italy, with numerous red and yellow numbered dots indicating specific locations or events. A sidebar on the left allows users to filter by date (Periodo), day of the week (Giorno della settimana), and type of injury (Tipo di infortunio). The main interface includes a search bar and a legend for the numbered dots. To the right, there is a larger, detailed view of the city of Bolzano itself, showing its urban layout, roads, and surrounding green spaces.

City of Brussels

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The screenshot displays a map of the Brussels-Capital Region, Belgium. The map includes several layers:

- Brussels Planning and Heritage**: Includes Regional town planning regulation (RT), Publicity (Green areas, Protected or listed groups, Publicity), Shop signs, Accessibility, Monuments and landscapes (Legal status and Register, Heritage, Detailed heritage, Legal Inventory of Sites and Leop, Protection areas, UNESCO protection areas), Archeological heritage, Architectural heritage, Natural heritage, Wikimedia pictures archive, Town planning, Urban regeneration (Neighbourhood regeneration agree, Area with increased development of), Brussels Economy and Employment, Brussels Environment, Brussels Mobility, housing.brussels, perspective.brussels, European structural funds, and Map backgrounds.
- Search Function**: A search bar at the top right allows users to search by location name or coordinates.
- StreetView Overlay**: A modal window titled "StreetView" shows a photograph of a person standing in a hallway, identified as the "Geology conservatory of the Royal Belgian Institute of N...". The photo is from Google Street View.
- Scale and Tools**: A scale bar indicates 2 km, and a zoom control is available. Other tools include a compass rose, a magnifying glass, and a pencil for editing.
- Attribution**: The bottom left corner of the map area states "Indicative map - Done by BruGISTeam".

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City of Genova



Comune di Genova In Evidenza Contenuti

In Evidenza

Protezione Civile per il cittadino
Visualizzazione di alcuni strati informativi facenti parte del Piano Comunale di Emergenza

Livello 3 del Piano Urbanistico C.
Tematismi del Piano Urbanistico Comunale facenti parte del livello 3 - Locale di Municipio

Interventi LLPP da luglio 2017
Mappa degli interventi sul territorio

EMERGENZA MORANDI

Elementi 4 di 4

Contenuti

Mappe (38) Dashboards (4)

Mappe

Geologia
Elementi geologici del territorio

Cerca un indirizzo o inserisci coordinate...

Mappe satellitari showing the area around the Morandi bridge collapse site. A red dashed line highlights a zone of restricted roads (Zona Rossa). Red dots indicate citizens subject to evacuation (CIVICI SOGGETTI A SGOMBERO). The map includes labels for streets like VIA GIORGIO PERASCA, VIA CAMPI, VIA DE VITTORIAS, and VIA DEL CAMPOSSO.

Legenda

- ZONA ROSSA (ordinanza del 04/02/2019)
- STRADE INTERDETTE
- STRADE CON RESTRIZIONI
- CIVICI SOGGETTI A SGOMBERO

Elaborazione: Direzione Sistemi Informativi - Ufficio ICD

200 m

Privacy

3D

City of Florence

The screenshot displays the "Risorse Dati e Sistema Informativo Territoriale" (Territorial Data Resources and Information System) for the City of Florence. The interface includes a search bar, a user profile icon, and a map view. The map shows a dense urban area with red and white patterns, likely indicating different administrative or mobility zones. A legend on the left lists various data layers such as Administrative Limits, Mobility, Civil Protection, Archaeology, and UNESCO. On the right, a detailed view of a park and surrounding streets is shown with green areas and labeled roads like Viale Fratelli Rosseli and Lungarno Amerigo Vespucci.

GeoNode Integration - Layer & Map Preview

Layer and Map previews provide navigation tools and give access to advanced functionalities

The screenshot displays the GeoNode interface for a layer titled "ne_10m_admin_0_sovereignty". On the left, there is a world map with various countries colored in different shades of red, green, and yellow. A legend on the right side of the map indicates these colors represent different administrative levels or sovereignty status. Below the map, the "Info" tab is selected, showing detailed metadata about the layer:

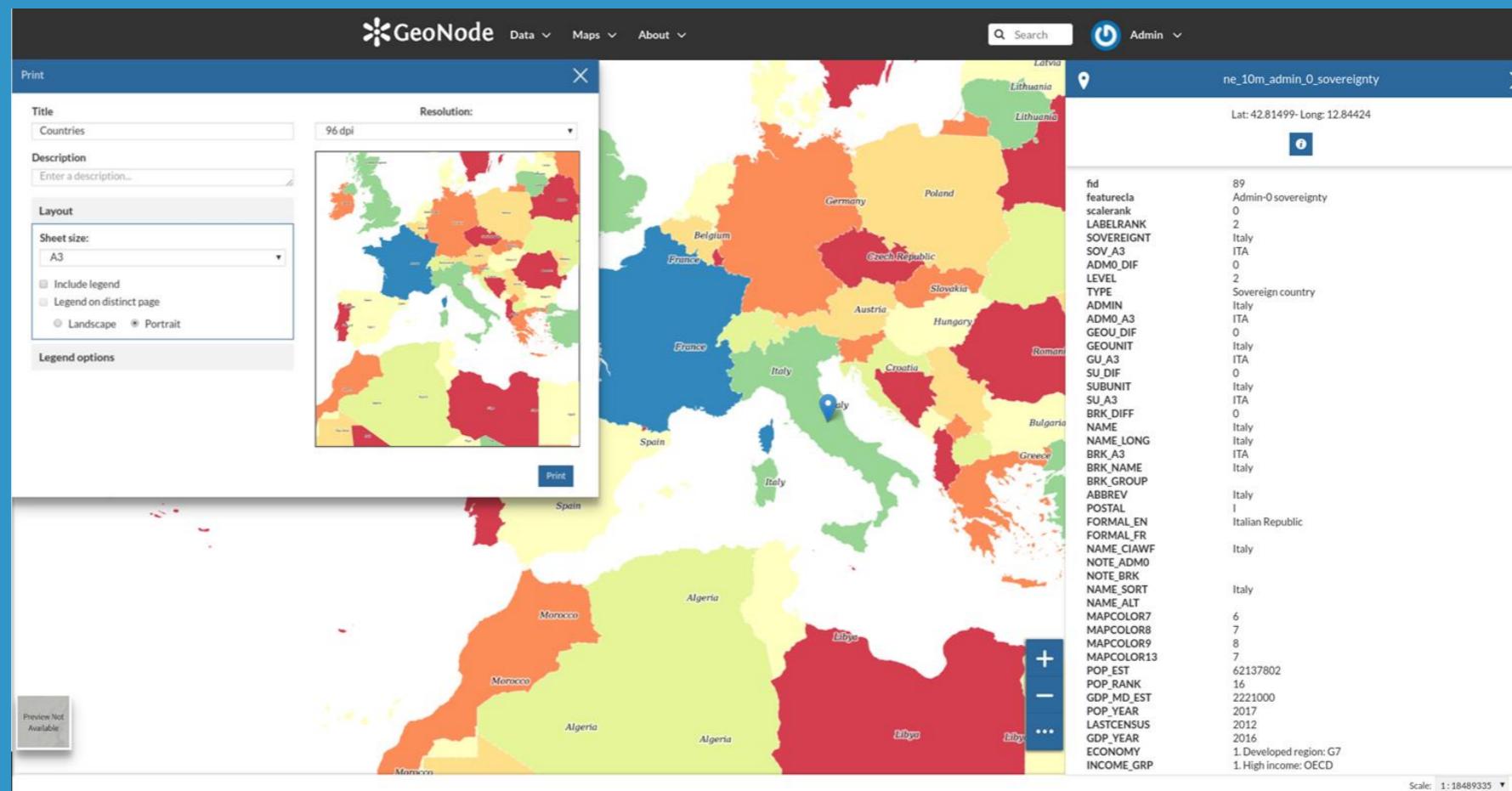
Title	ne_10m_admin_0_sovereignty
License	Not Specified
Abstract	No abstract provided
Publication Date	May 27, 2019, 9:23 a.m.
Type	Vector Data
Keywords	features, ne_10m_admin_0_sovereignty
Regions	Global
Owner	admin

Below the metadata, there are links for "More info", "Layer WMS GetCapabilities document", and "Layer Details". To the right of the map, there is a sidebar with several buttons and sections:

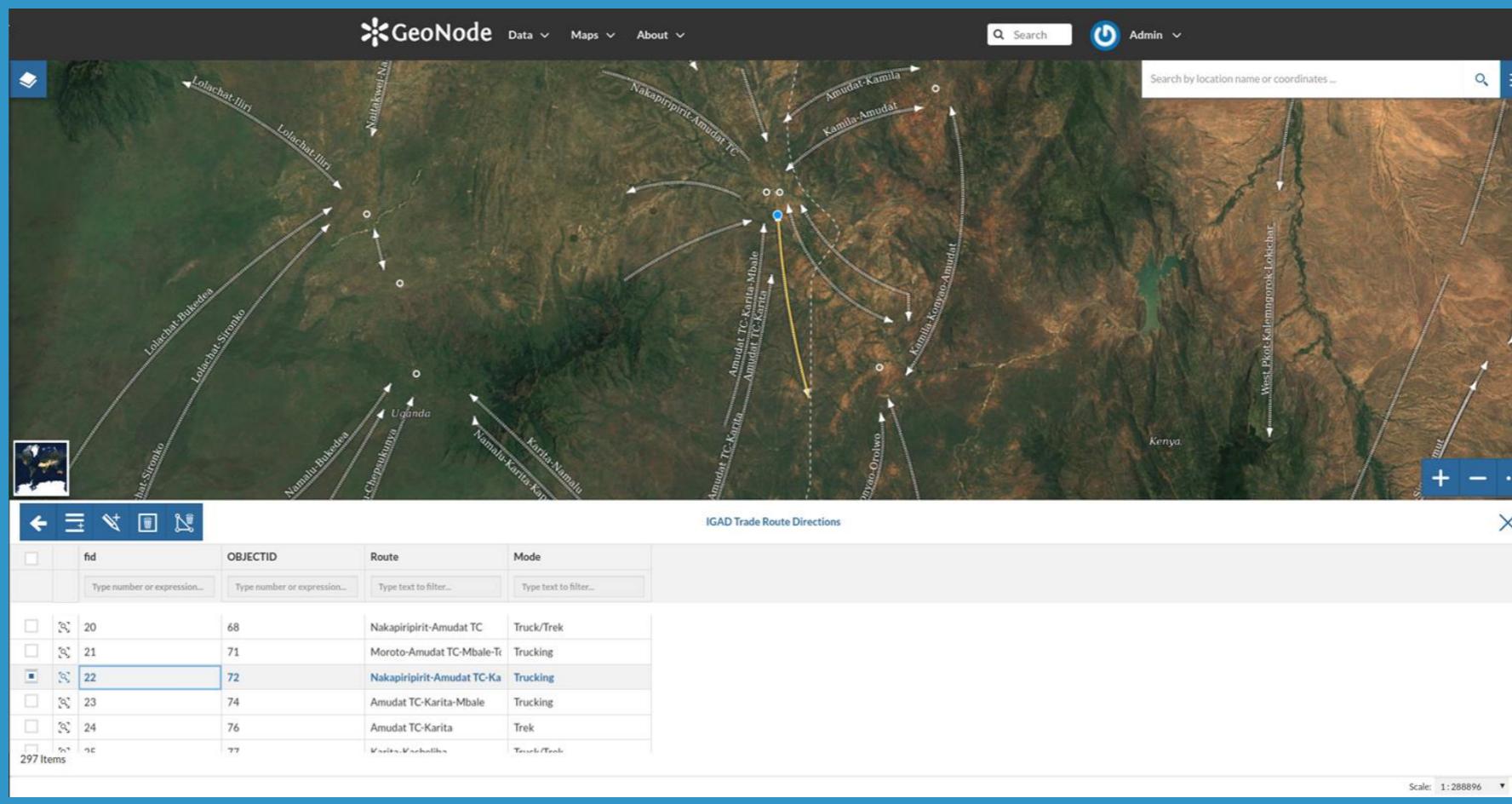
- OPTIONS** button (with sub-options: Download Layer, Metadata Detail, Editing Tools, View Layer, Download Metadata, Legend)
- Print** button
- Download Layer**
- Metadata Detail**
- Editing Tools**
- View Layer**
- Download Metadata**
- Legend**
- Maps using this layer**: This layer is not currently used in any maps.
- Create a map using this layer**: Click the button below to generate a new map based on this layer.
Create a Map button
- Add the layer to an existing map**:
Select "Meteorite" from the dropdown and click "Add to Map".
Add to Map button
- Styles**: The following styles are associated with this layer. Choose a style to view it in the preview map.
 - A red polygon style
 - Country

GeoNode Integration - Info and Print

Get information from layers and print the previewed map inside the Map Viewer of **MapStore**

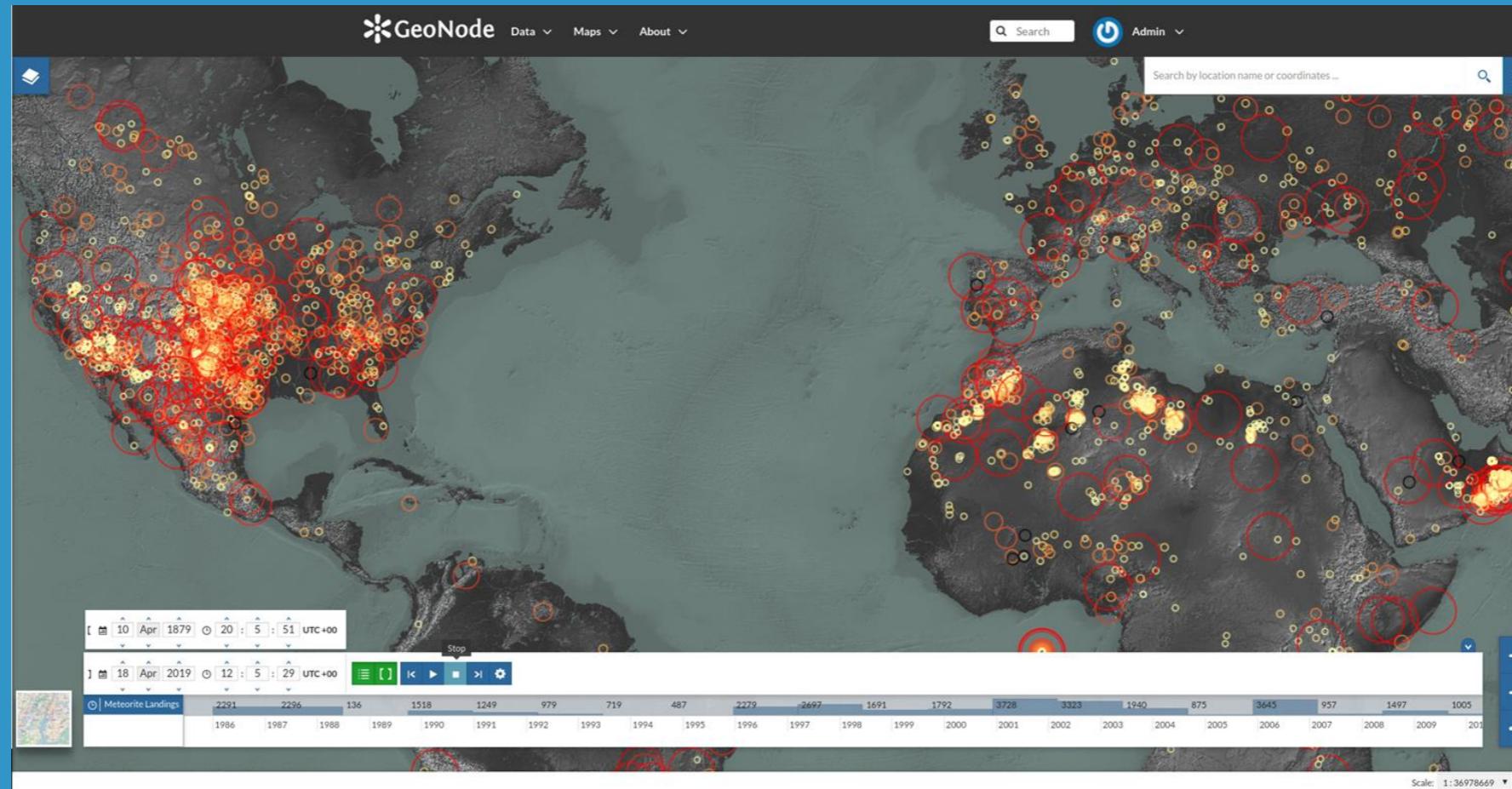


Attribute table give to users the access of each feature of a layer and provides a set of tools to edit, filter, query and draw data



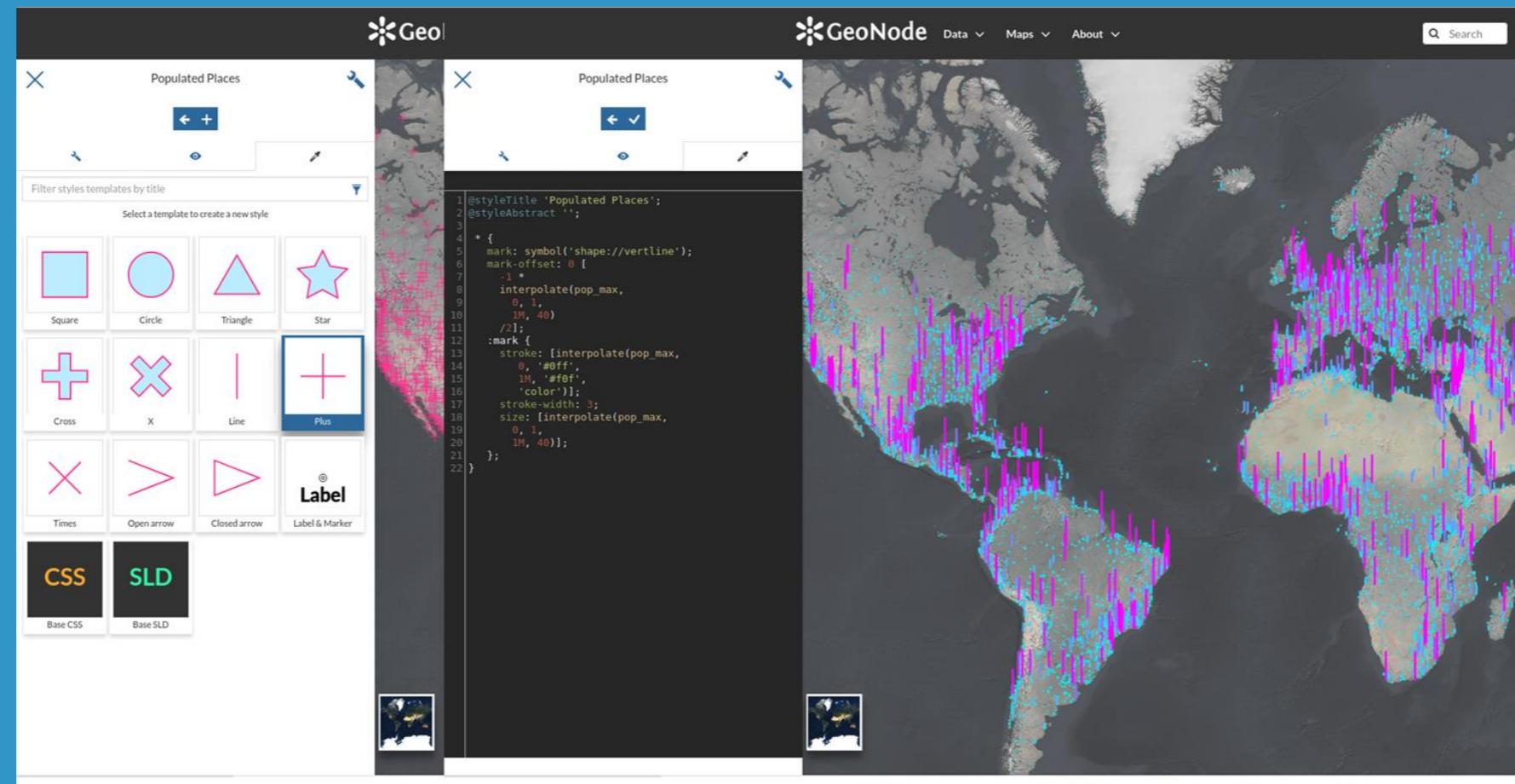
GeoNode Integration - Time Slider

Navigate in the time dimension with the **Time Slider**

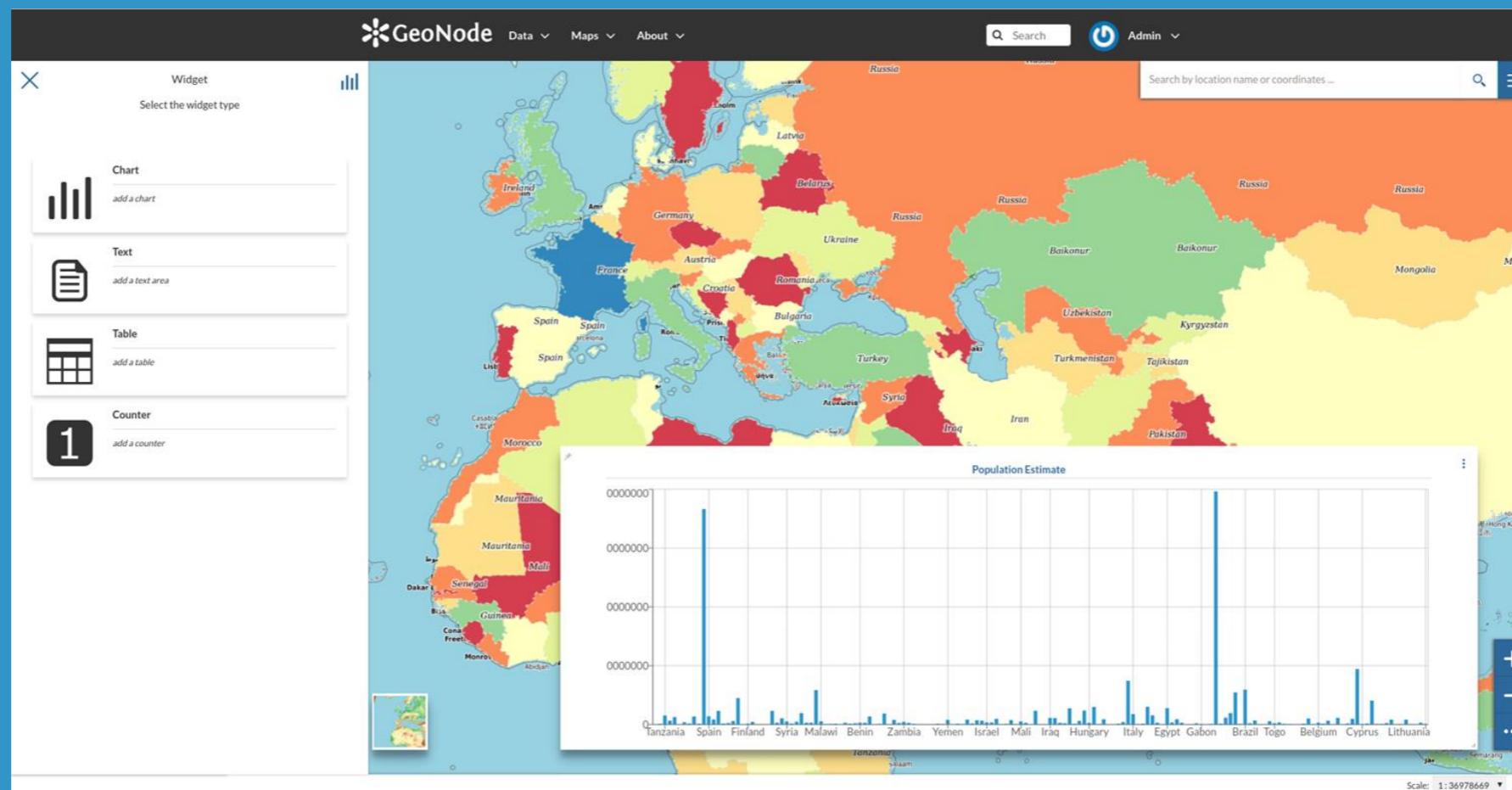


GeoNode Integration - Style Editor

Select, edit and create styles in SLD or GeoCSS



GeoNode Integration - Charts and Widgets



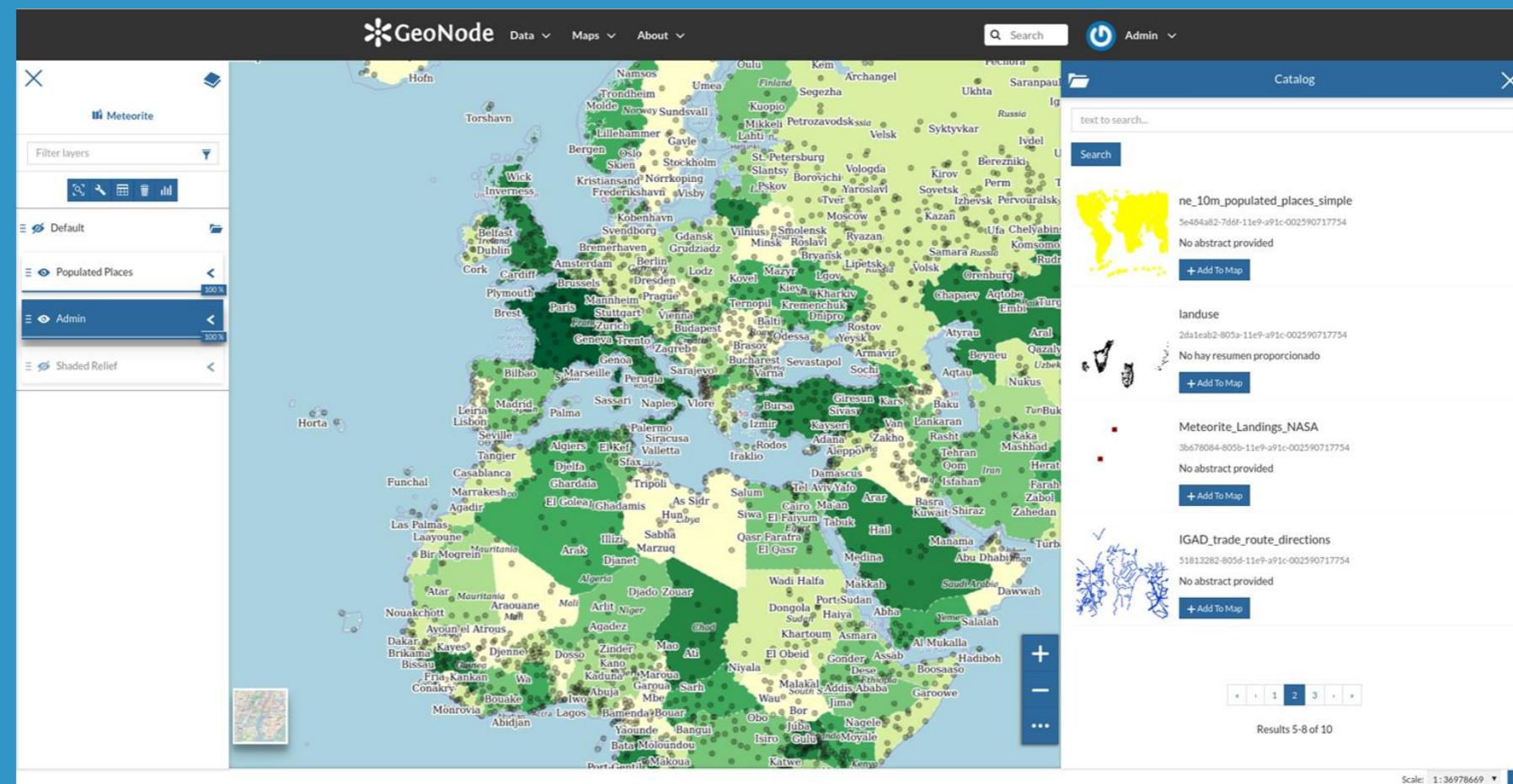
GeoNode Integration - Map Viewer

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Create and edit maps inside the Map Viewer.
Add new layers with the Catalog tool

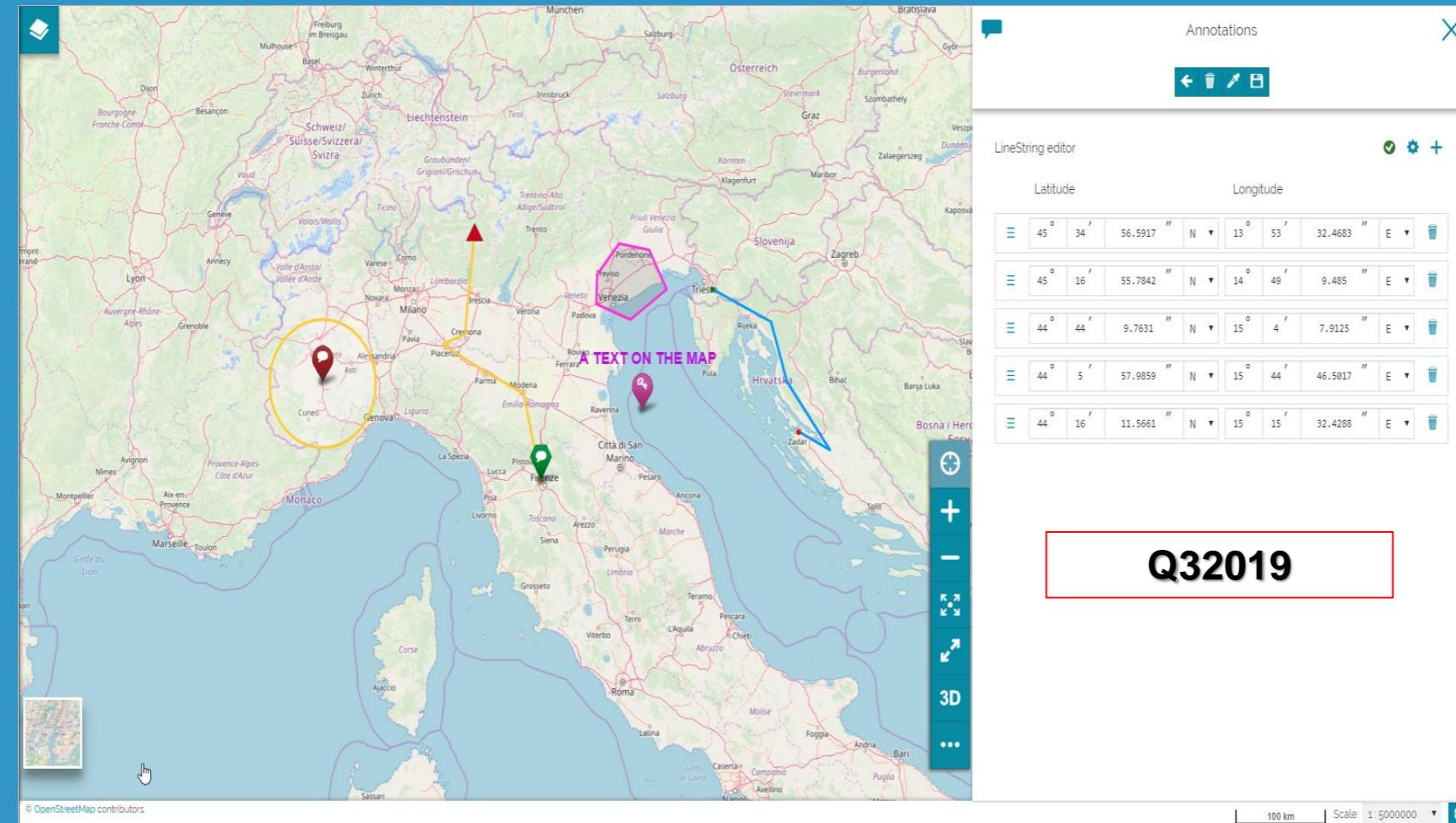




Roadmap



Improved Annotations



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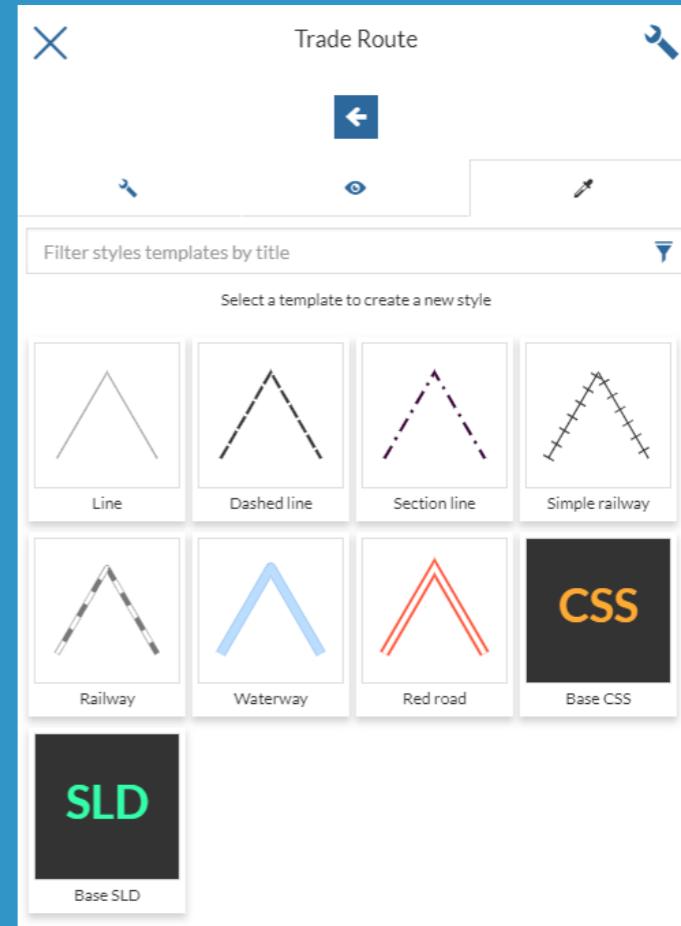
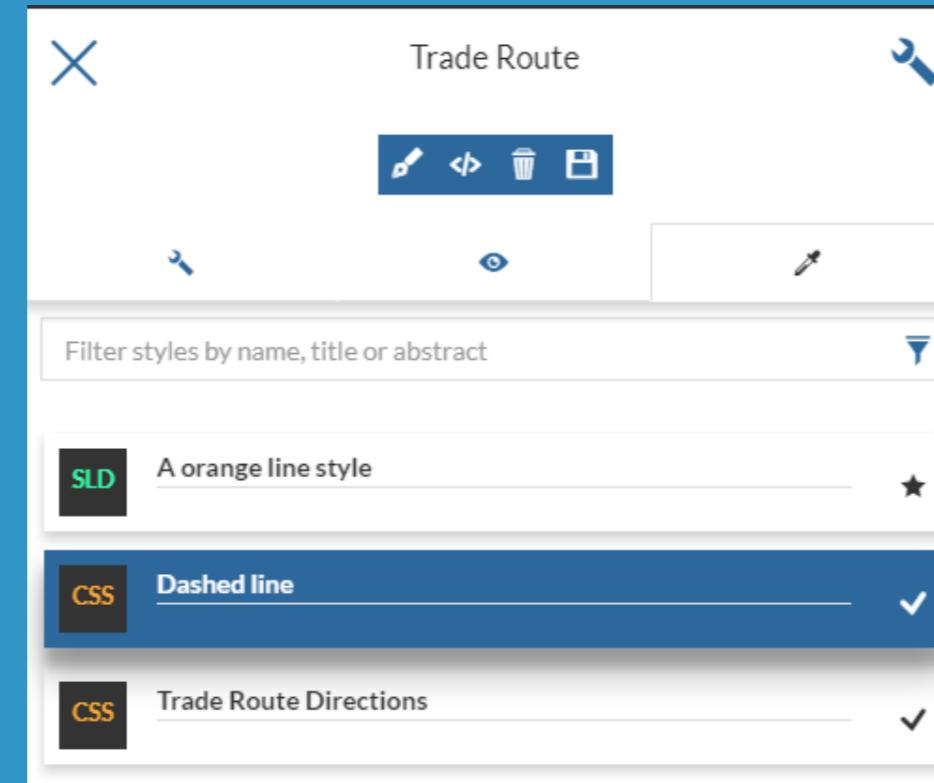
Advanced Styler

The figure displays a map of a trade route network in Kachin State, Myanmar. The map shows various towns represented by purple rectangles and green squares, with dashed arrows indicating the direction of trade routes between them. A red line highlights a specific route. The legend on the left provides styling information for the routes based on distance from the source town:

- Dashed line:** Stroke width 2, stroke-dasharray: 1 2, mark-geometry: [startPoint(the_geom)], [endPoint(the_geom)], mark: symbol('shape://carrow'), symbol('shape://carrow'), mark-rotation: [startAngle(the_geom) + 180], [endAngle(the_geom)]; fill: #333;
- Route:** label: [Route], label-follow-line: true, label-offset: 8, font-family: 'Noto Sans', font-size: 8, font-fill: [recode(Mode, 'Trucking', '#7b3294', 'Truck/Trek', '#008837')]

A preview window at the bottom left shows the map with the styled routes.

Advanced Styler



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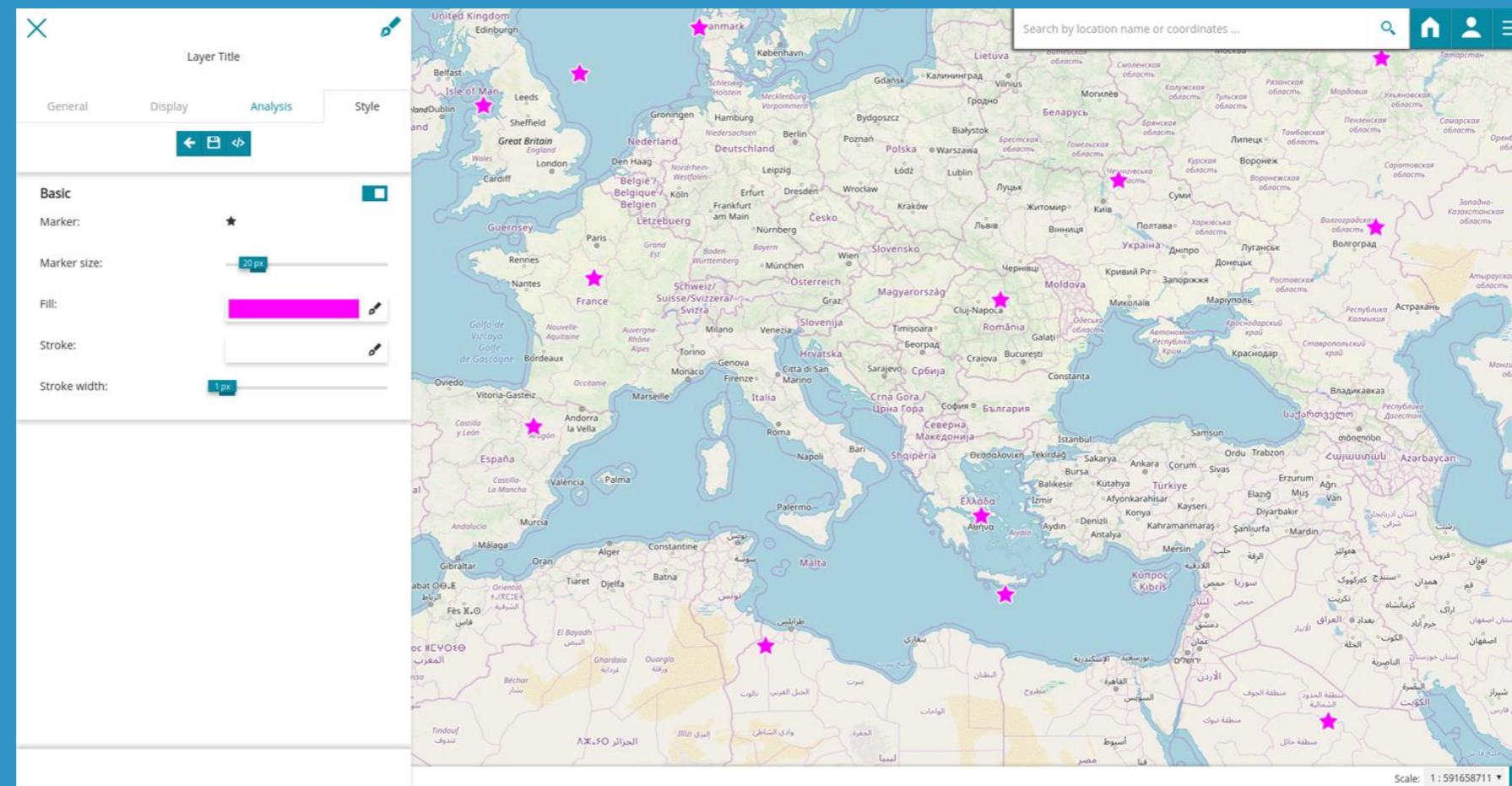
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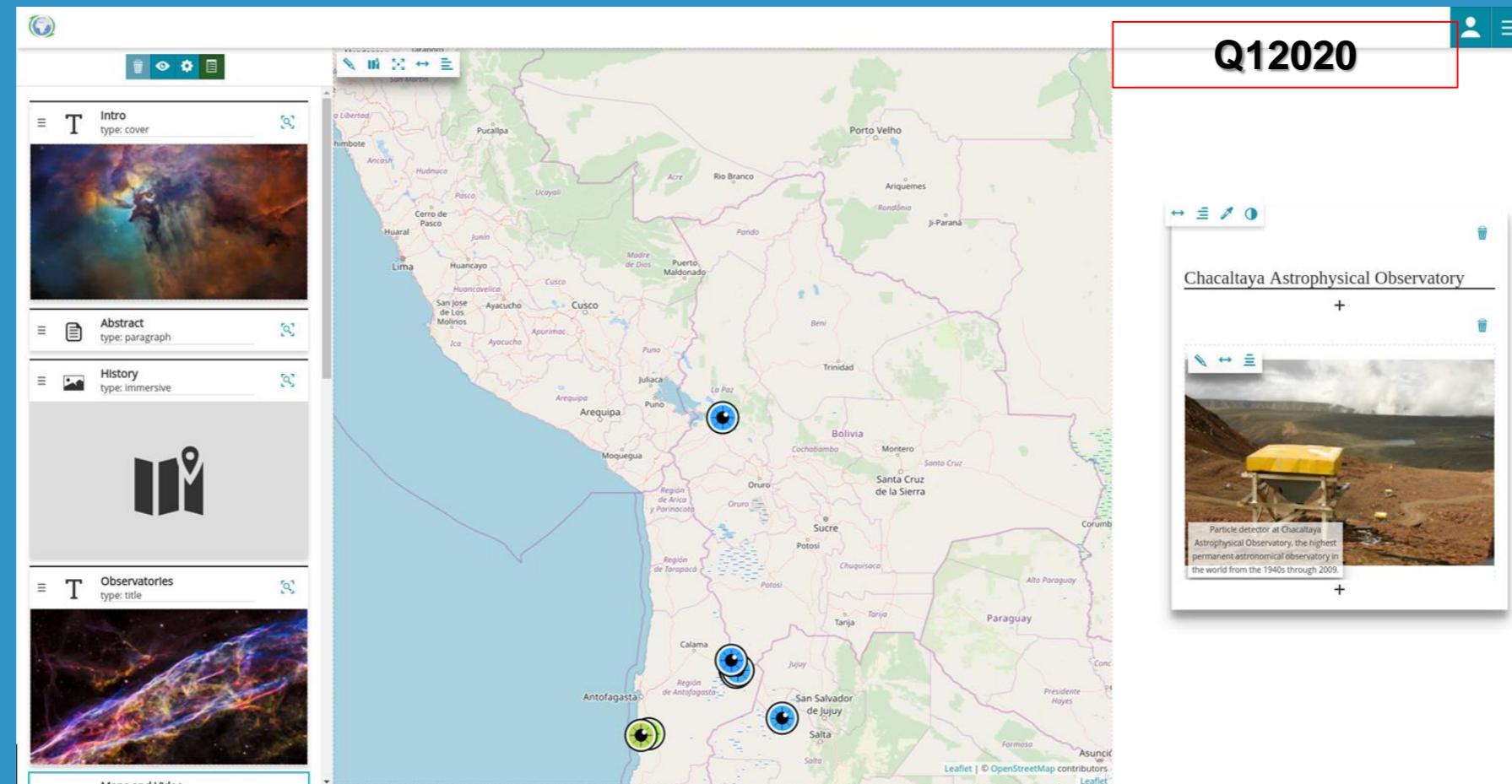
The Future



Advanced Styler



GeoStory (like storymaps but better 😊)



- Dashboards in GeoNode
- Vector Tiles
- Improved Dashboards
- Filtered Layers
- Extend documentation
- MapStore as a service
- More plugins
- More... what? Tell us your opinion!

- MapStore documentation

<https://mapstore.readthedocs.io/en/latest/>

- Developing in MapStore

<https://docs.google.com/presentation/d/13eCrCdOBiorICPM1MTfsPP8QV9xMsFS2bRREb4QHCJ0/edit?usp=sharingMore>

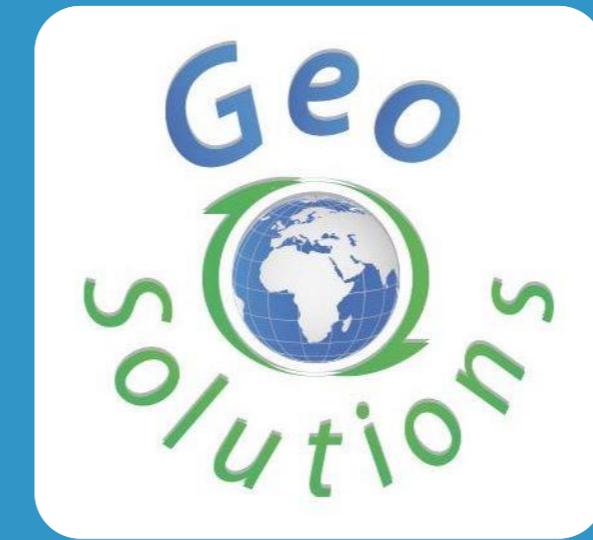
- Introduction to RxJS and redux-observable

<https://docs.google.com/presentation/d/1Ts-yZGc12VMr9oG8xMqwptUmMjdsKI2uZh4Mr5shYhA/edit?usp=sharing>

That's all folks!

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Questions?

info@geo-solutions.it

Mapping with MapStore

MapStore is mapping agnostic

```
<Map mapType="leaflet">
  <Layer type="wms" options={{
    url: "http://demo.geo-solutions.it/geoserver",
    name: "weather_data"
  }}/>
  <Layer type="osm"/>
</Map>
```

Thanks ReactJS!



Mapping with MapStore

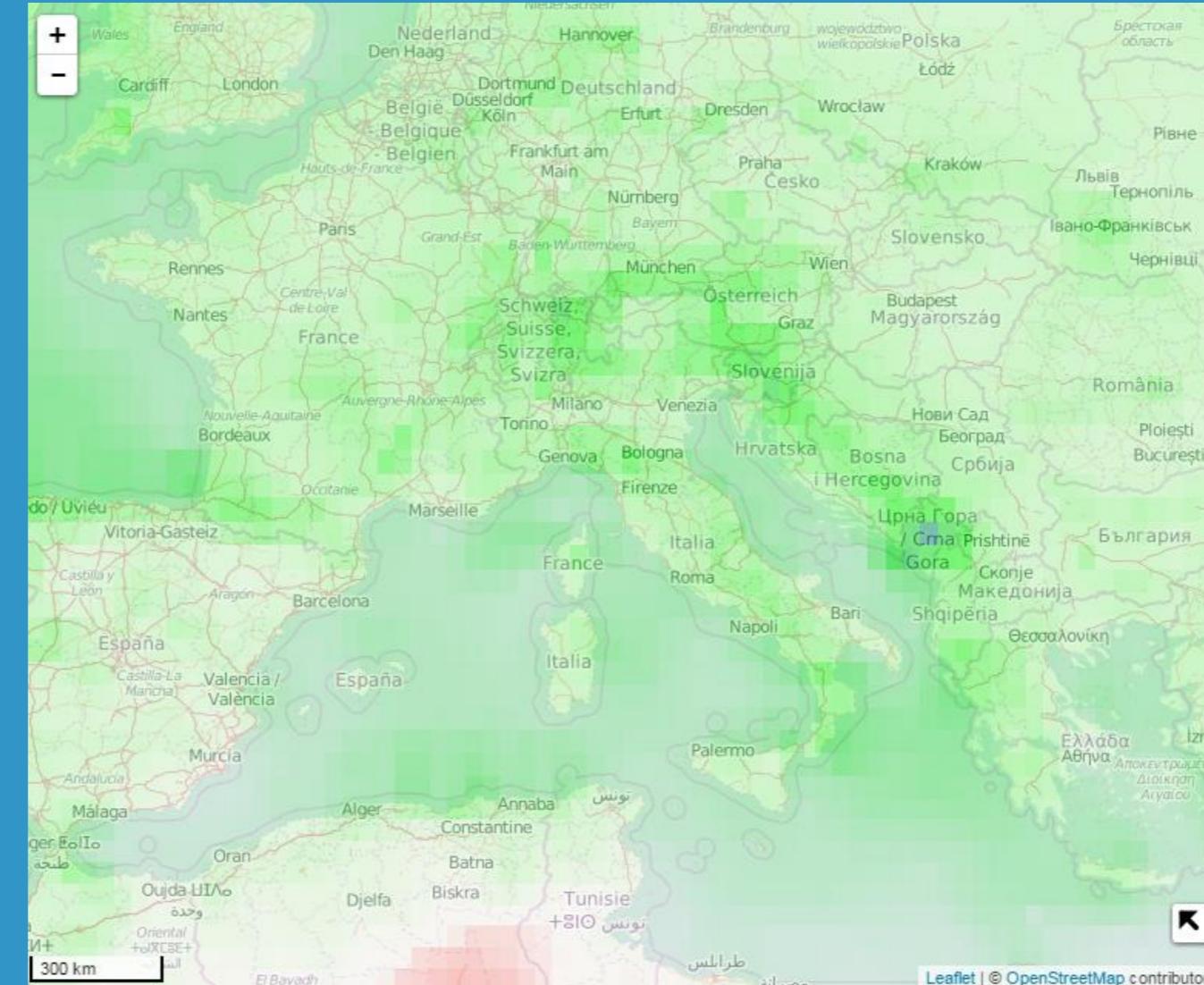
MapStore is mapping agnostic

```
<Map mapType="openlayers">
  <Layer type="wms" options={{
    url: "http://demo.geo-solutions.it/geoserver",
    name: "weather_data"
  }}/>
  <Layer type="osm"/>
</Map>
```

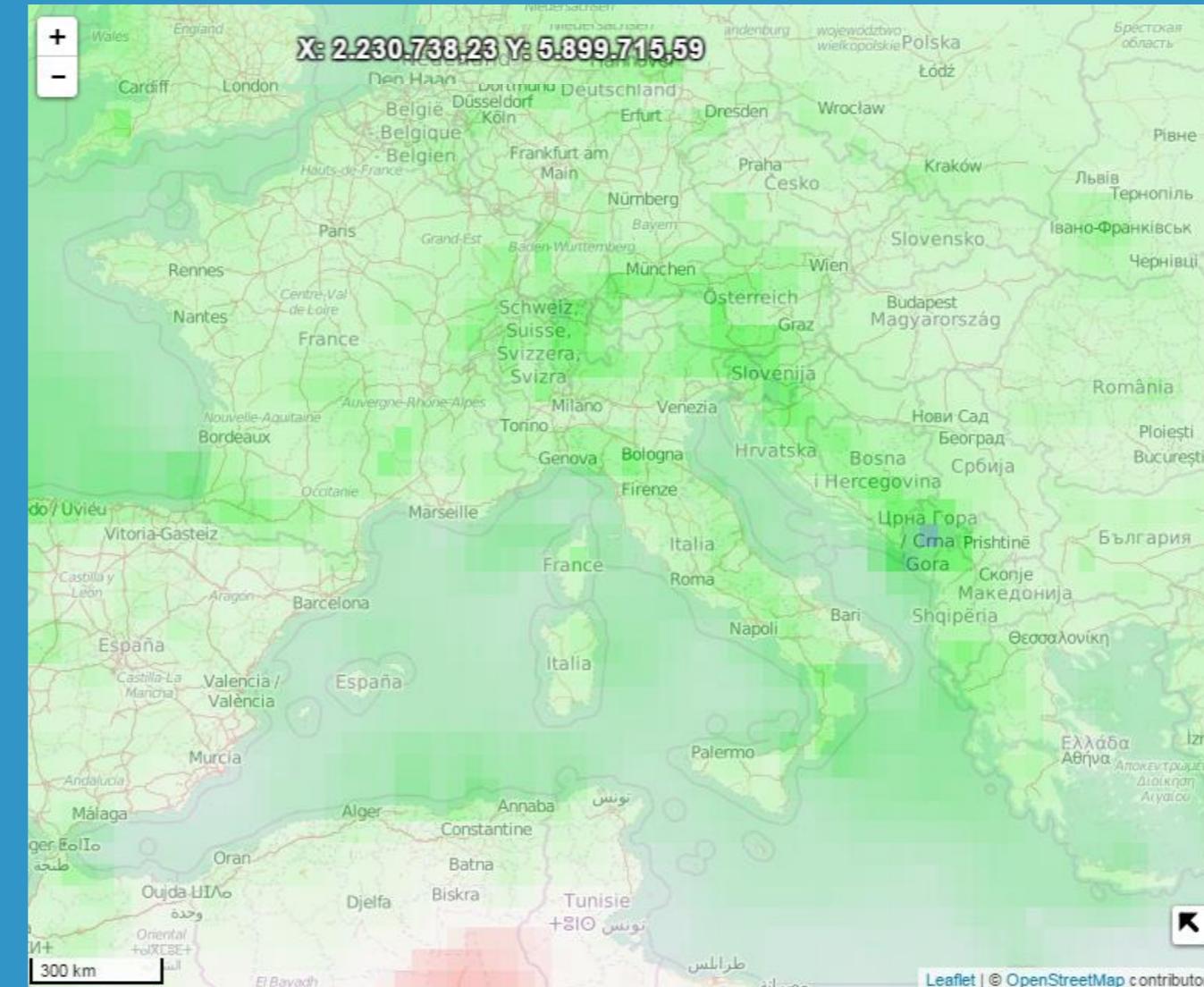
Thanks ReactJS!



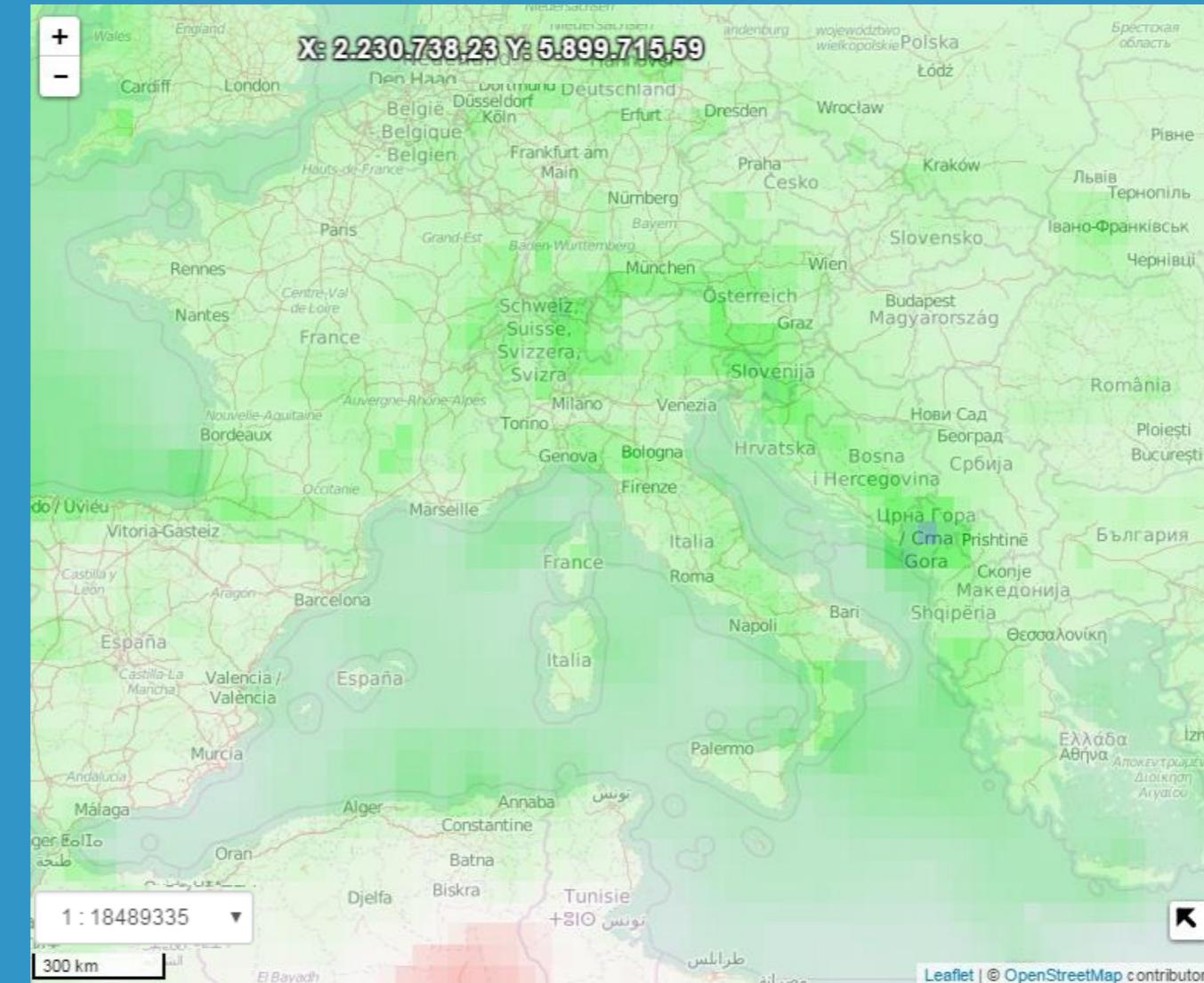
MapStore is pluggable



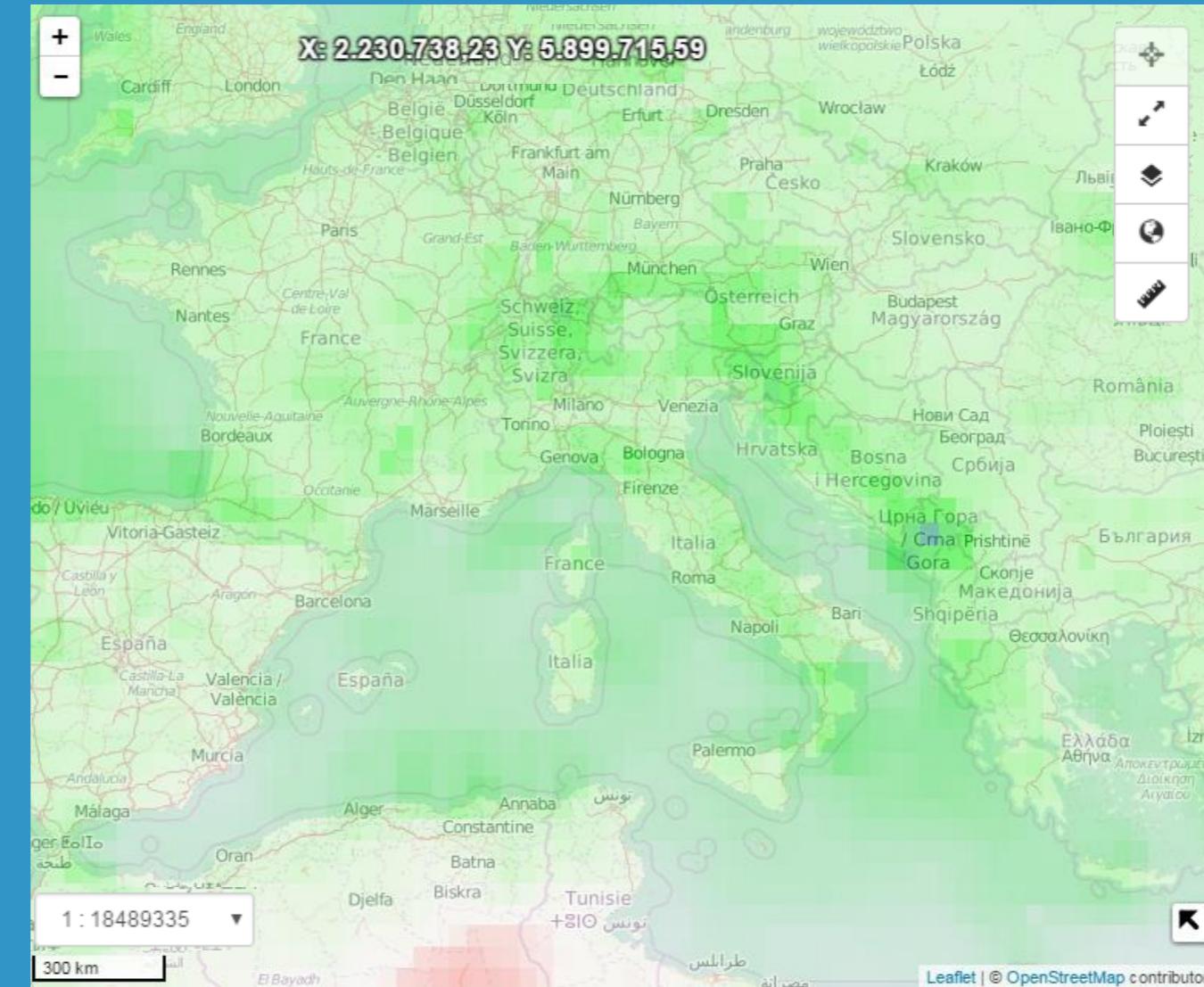
MapStore is pluggable



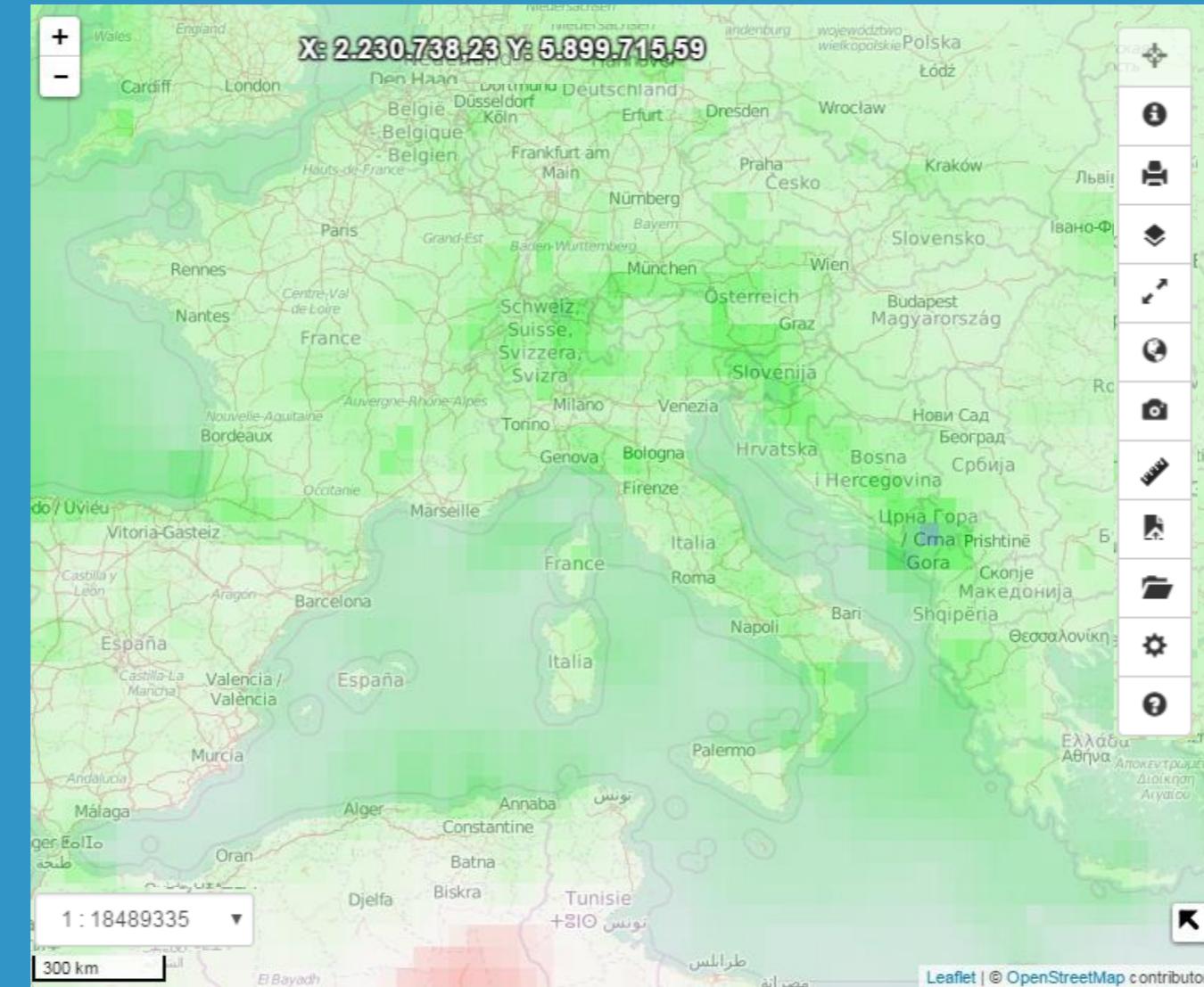
MapStore is pluggable



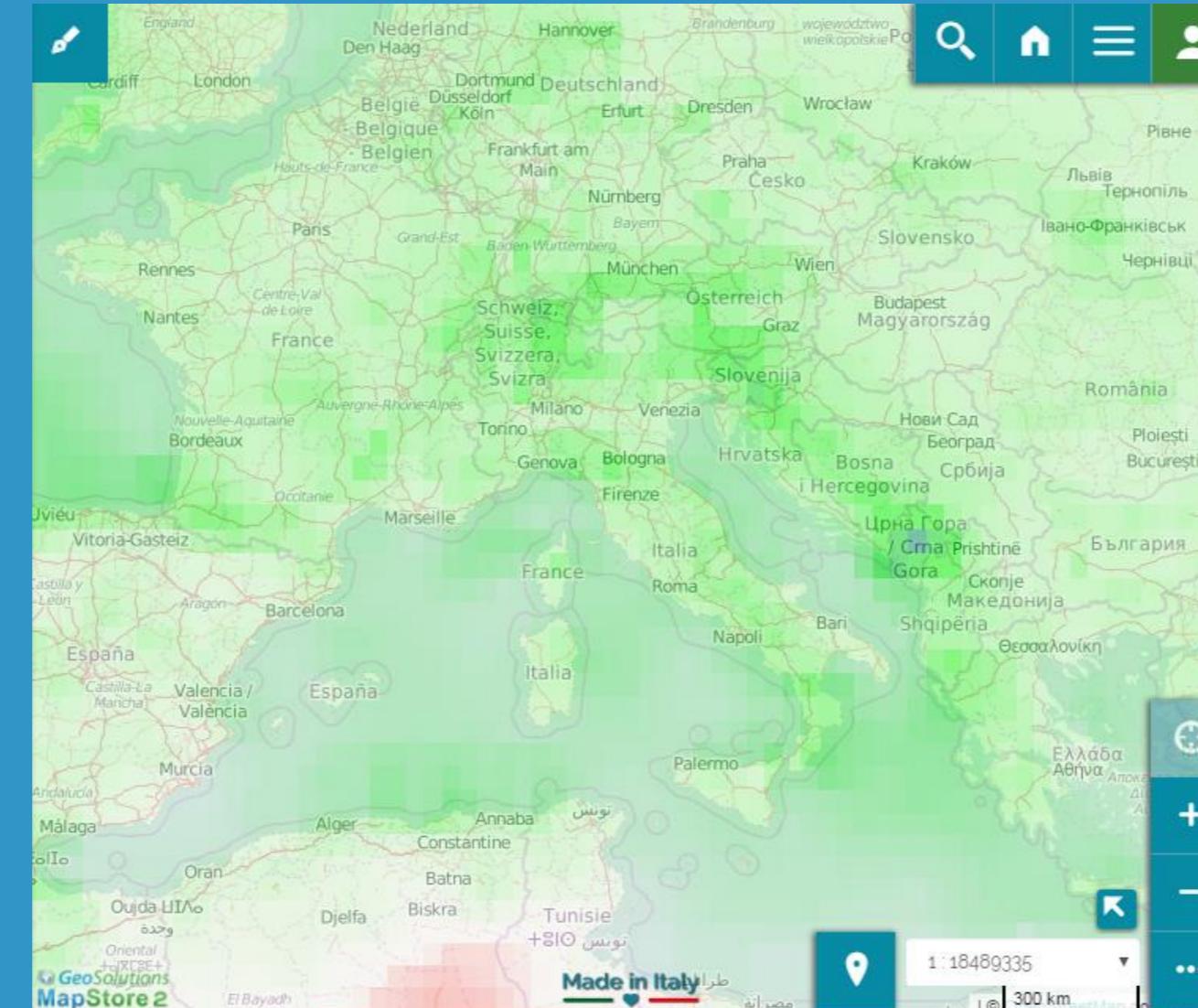
MapStore is pluggable



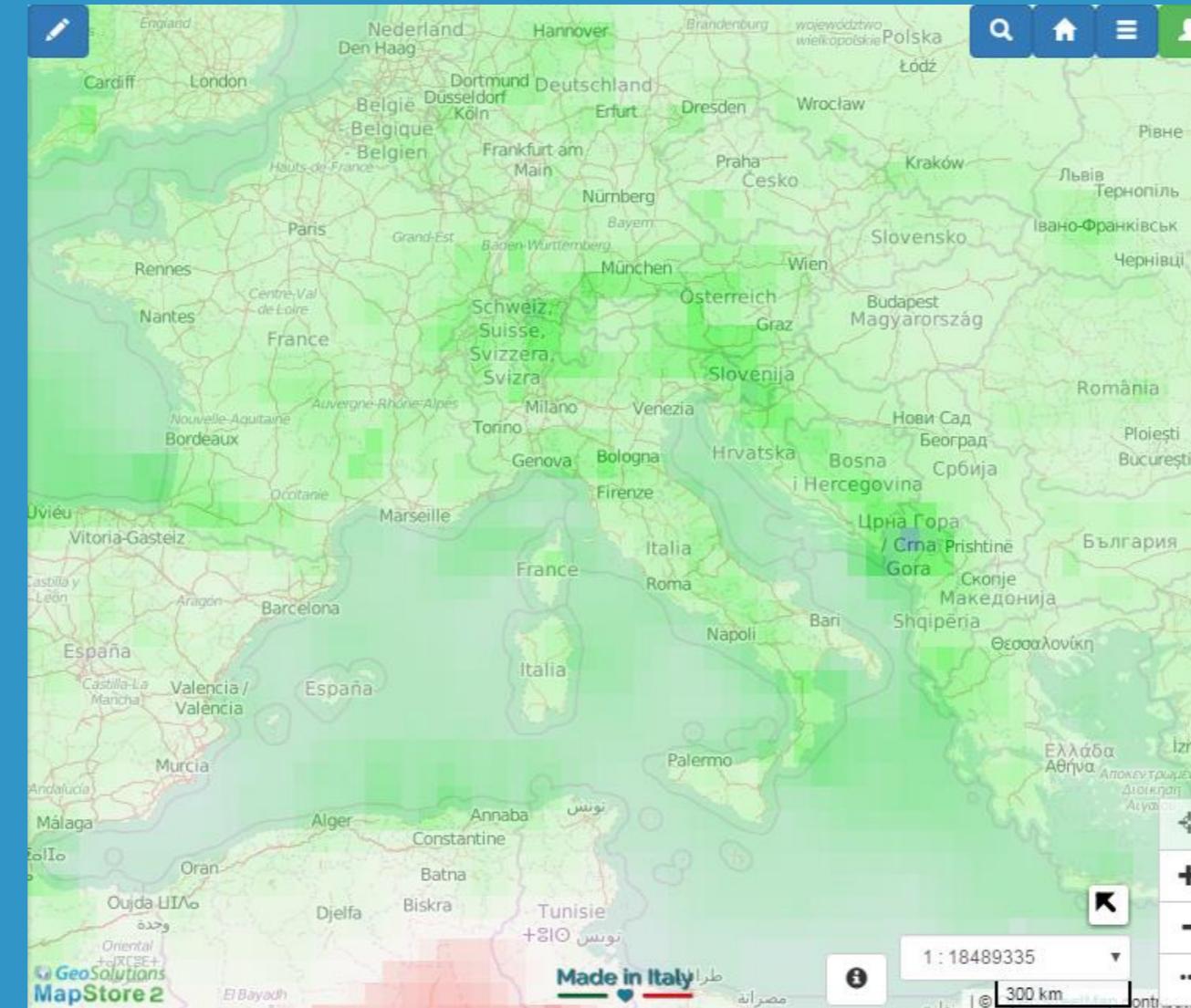
MapStore is pluggable

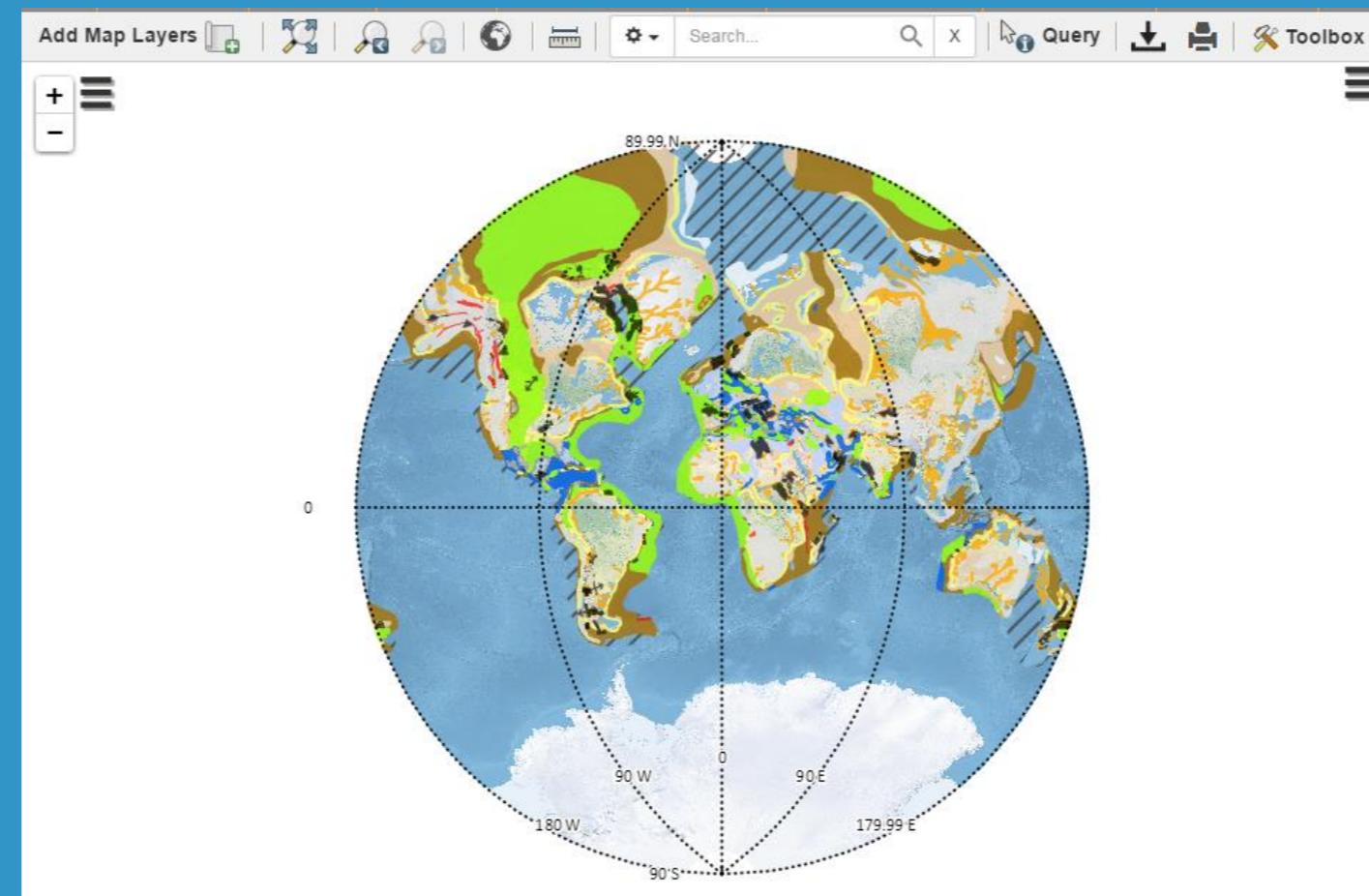


MapStore is customizable



MapStore is customizable





MapStore is customizable

The screenshot displays a WebGIS interface with two main panels. The left panel shows a map of the Alpine region and Northern Italy, with numerous red dots indicating specific locations. A search bar at the top left says "Search by location name or coordinates ...". Below the map is a "SEARCH RESULTS LIST" modal window titled "Risultati - 30". It contains a table with columns: Codice SIRA, Codice fiscale (P.IVA), Comune, and Autorizzazioni ambi. The first few rows of data are:

Codice SIRA	Codice fiscale (P.IVA)	Comune	Autorizzazioni ambi
1582	02291260061	Valenza	Recupero di rifiuti n
23820	02321940062	ALESSANDRIA	Recupero di rifiuti n
2988	01006630337	Cassano Spinola	Recupero di rifiuti n
1578	01278020068	Valenza	Recupero di rifiuti n
1444	00109880500	Novi Ligure	Recupero di rifiuti n
1310	01980160012	Carbonara Scrivia	Recupero di rifiuti n
16699	02122770064	Sezzadio	Recupero di rifiuti n
1390	01199530062	Frassinetto Po	Recupero di rifiuti n

At the bottom of the search results list are buttons for "Export", "Tool Panel", and "Select All". The right panel shows a map of Italy with a search interface titled "FIND IN THE DATASET". It specifies a dataset "AUA - IMPIANTI DI RECUPERO ENERGIA E MATERIA". The "ATTRIBUTE FILTER" section contains two conditions: "Provincia = ALESSANDRIA" and "Provincia = ASTI". The "SPATIAL FILTER" section includes "Selection Method: Select" and "Operazione Geometrica: INTERSECTS". A "Search" button is at the bottom right of the filter panel.

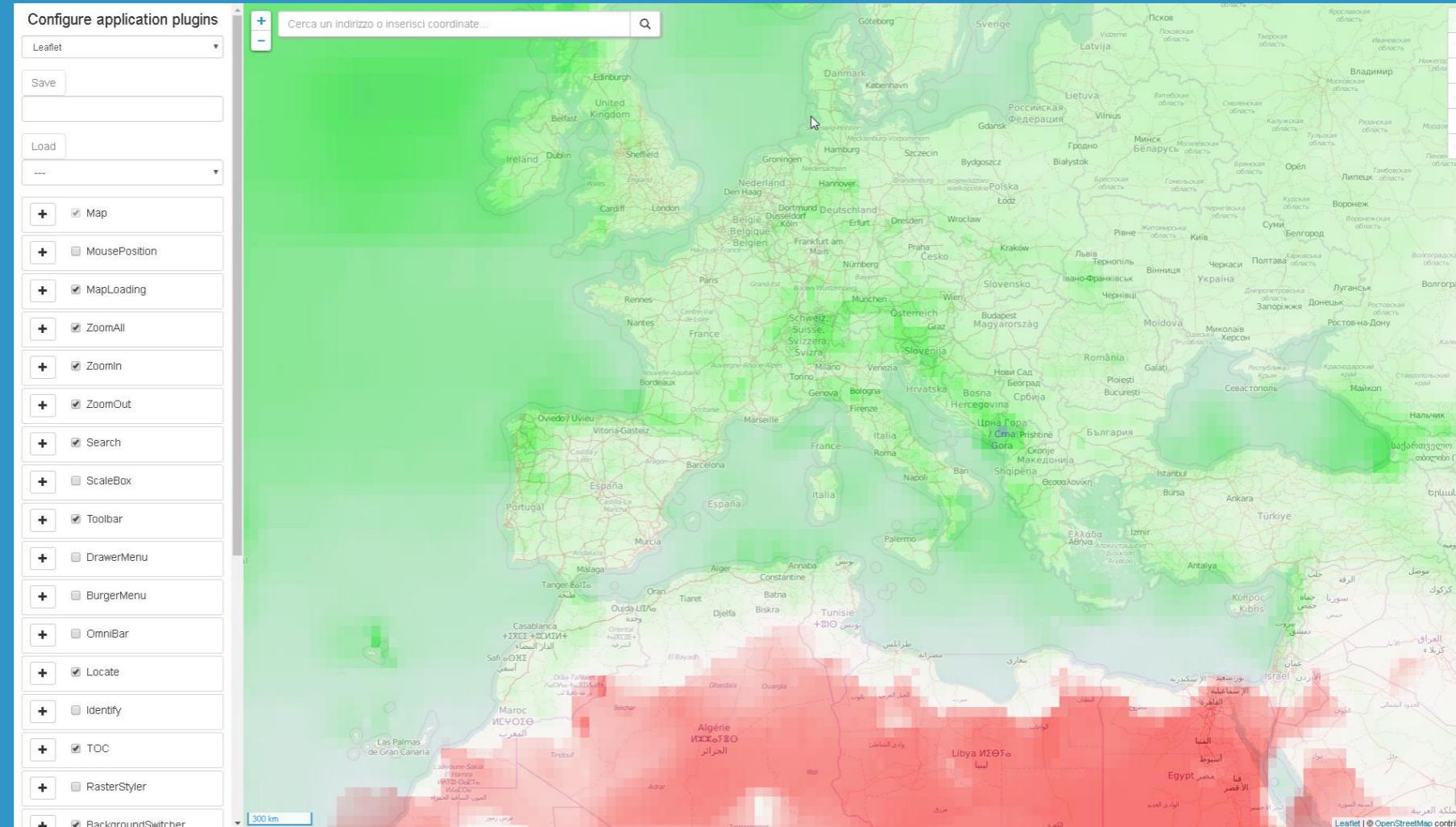
Building a WebGIS

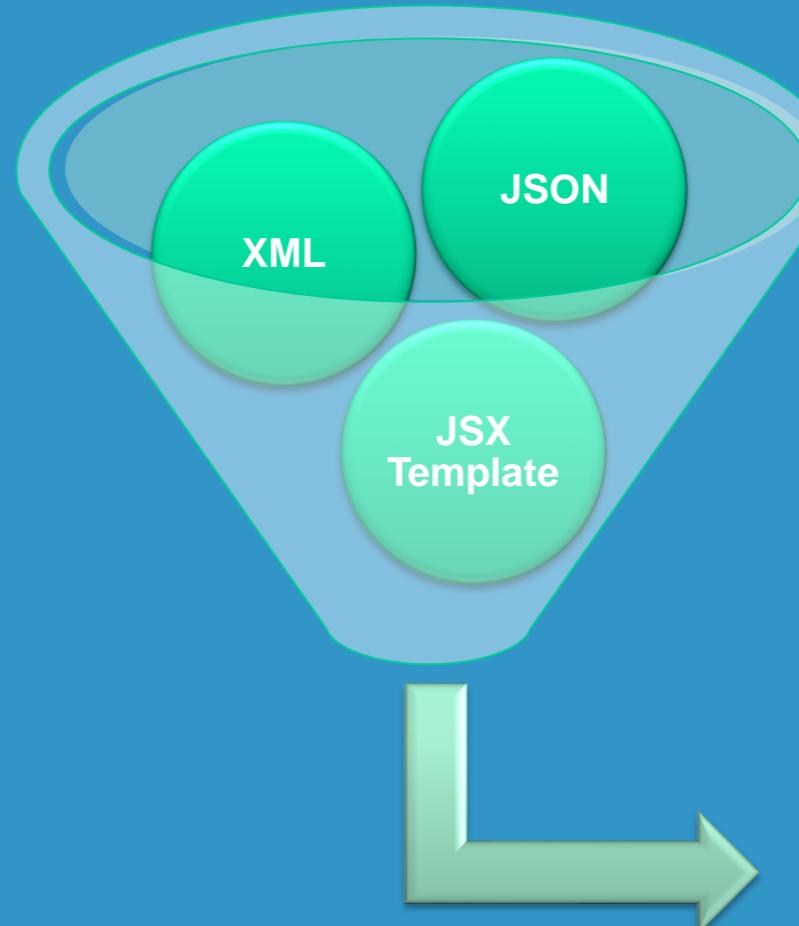
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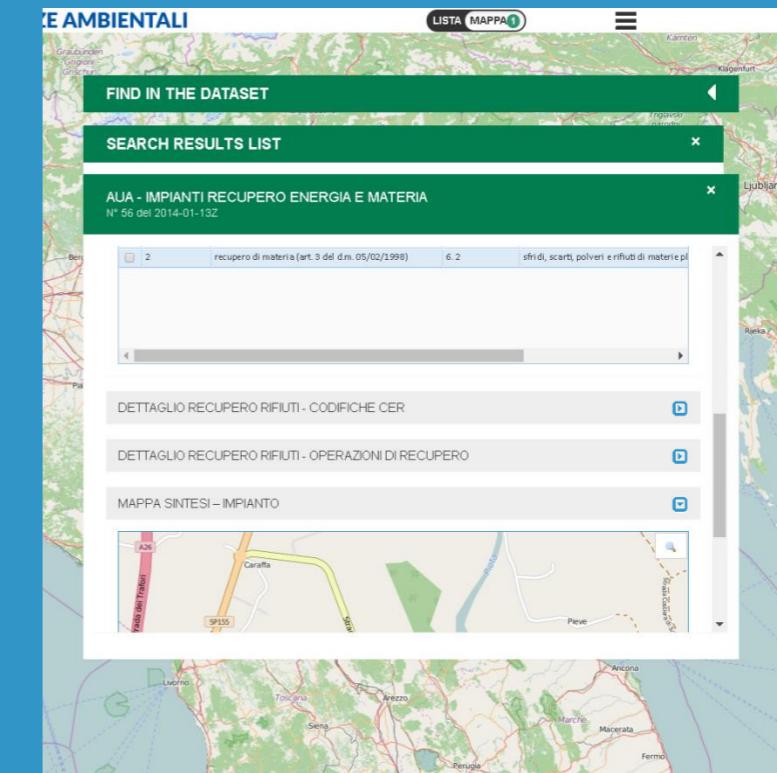


MapStore is customizable





MapStore is customizable





Building a WebGIS



The L&F has been done with care

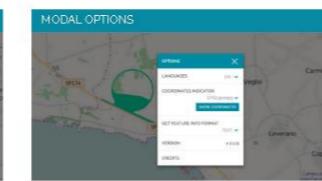
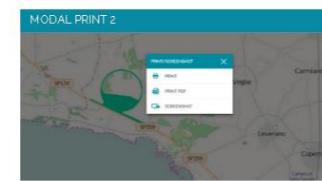
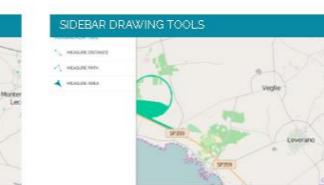
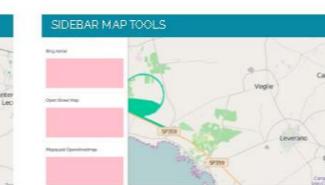
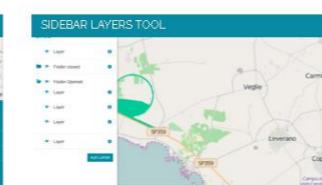
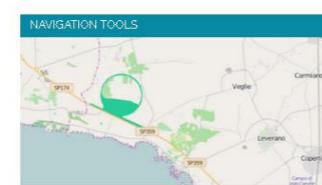
Check it live at <http://lf.mapstore2.geo-solutions.it/samples>



MapStore 2



Discover the new MapStore 2 by GeoSolutions. This is a first mockup designed by ChefStudio.it



RIGHT BUTTON

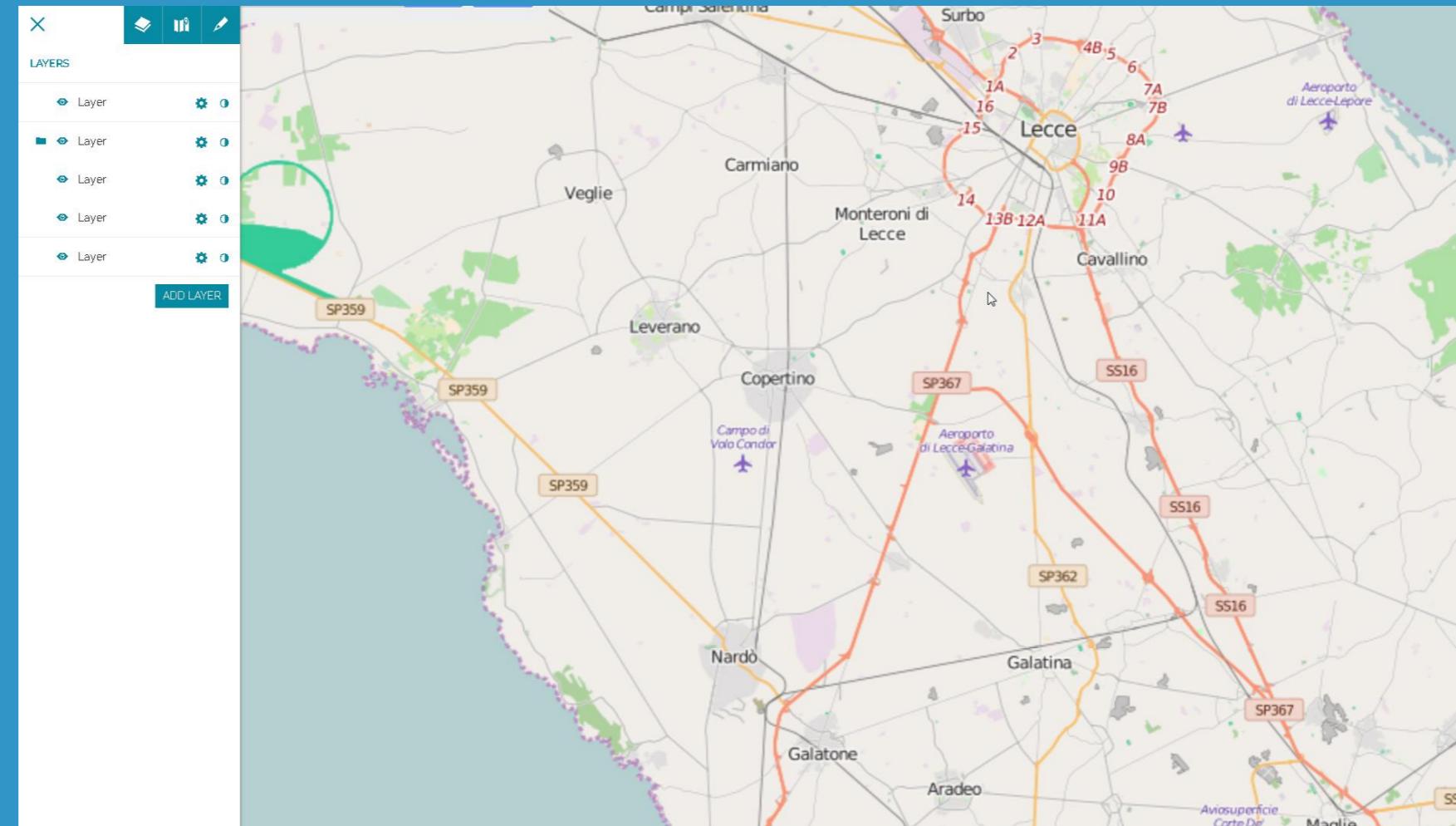
LAYER OPACITY

WELCOME PAGE

INFO TOOL

The L&F has been done with care

Check it live at <http://lf.mapstore2.geo-solutions.it/samples>



Building a WebGIS

The L&F has been done with care

Check it live at <http://lf.mapstore2.geo-solutions.it/samples>

The screenshot shows the GeoSolutions MapStore interface. At the top, there is a navigation bar with the GeoSolutions logo, a search bar labeled "Search user...", and buttons for "LOG IN", "ADD USER", and "MANAGE GROUPS". Below the navigation bar, there are two user profile cards for "Andrea Biagi". Each card displays the user's name, role ("Administrator"), group ("group A, group B, group C, group D, group E"), and status (green checkmark or red stop sign). The background of the page features a pattern of interlocking blue gears.

Andrea Biagi
Role: Administrator Group: group A, group B, group C, group D, group E
Status:

Andrea Biagi
Role: Administrator Group: group A, group B, group C, group D, group E
Status:

GeoSolutions | Via Poggio alle Viti, 1187 - 55054 Massarosa (Lucca) - Italy info@geo-solutions.it | Tel: +39 0584 962313 | Fax: +39 0584 1660272



Building a WebGIS

Easy map publishing

search for projects... 🔍

MapStore 2 has been developed to create, save and share in a simple and intuitive way maps and mashups created selecting contents coming from well-known sources like Google Maps and OpenStreetMap or from services provided by organizations using open protocols like OGC WMS, WFS, WMTS or TMS and so on.

Visit the [home page](#) for more details.

Select Map Viewer: Leaflet

New Map

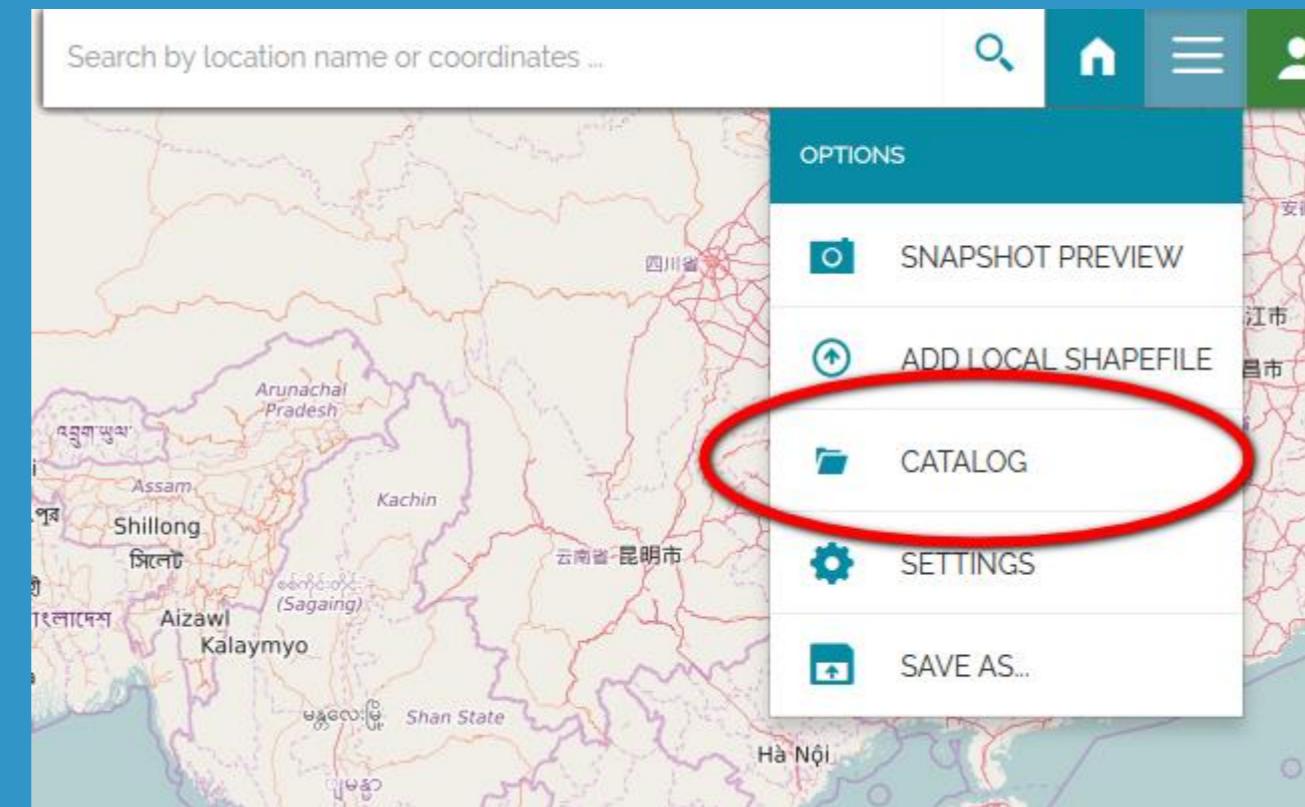
Historical Maps of Florence - MS2

MS2 GTOPO30

Unesco Italian Items MS2

MS2 Regione Toscana

Easy map publishing



Building a WebGIS

Easy map publishing

The screenshot displays a user interface for publishing maps. It features a grid of six preview thumbnails, each with a 'Preview Not Available' message. The first row contains two items: 'A sample ArcGrid file' and 'mosaic'. The second row contains two items: 'North America sample imagery' and 'g30'. The third row contains two items: 'N-32-40_2000' and 'GRAY_H'. Each item has a green 'Add To Map' button below it. At the bottom of the grid is a navigation bar with icons for back, forward, and search, followed by a page number indicator showing pages 1 through 5.

A sample ArcGrid file

+ Add To Map

mosaic

Preview Not Available

North America sample imagery

+ Add To Map

g30

Preview Not Available

N-32-40_2000

GRAY_H

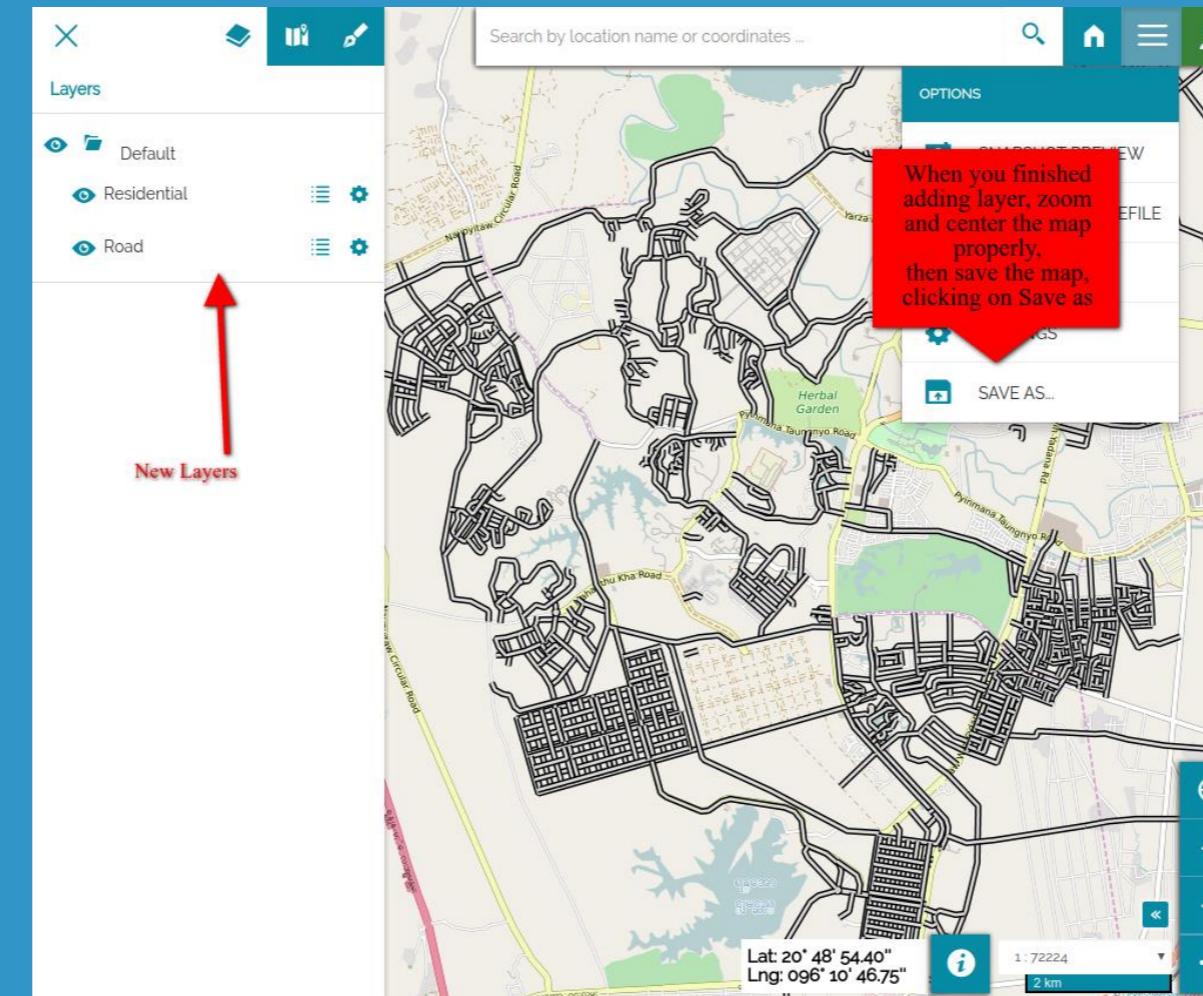
1 2 3 4 5 ... > >>

Building a WebGIS

GeoSolutions

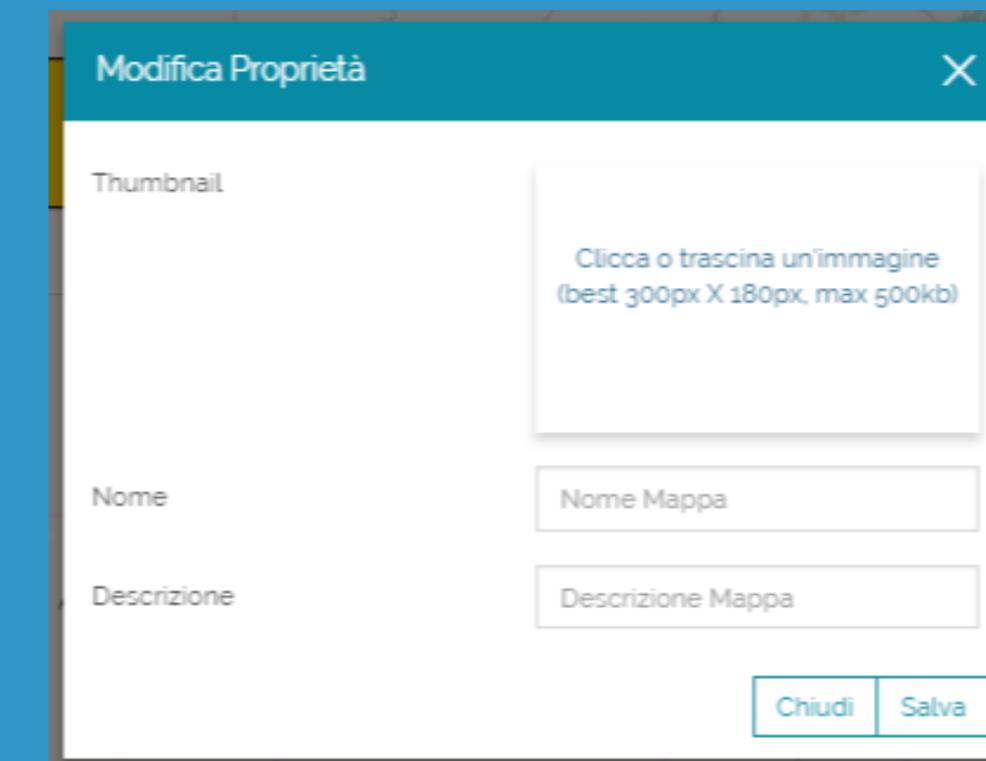
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Easy map publishing



Building a WebGIS

Easy map publishing



Building a WebGIS

Easy map publishing



Permissions

CompanyTest Can view X

Add a rule...

Select a group... Can view +

New rule is added

Click on save to apply changes

Save Close

- ReactJS
 - *Declarative Programming*
 - Components and Composition
 - Configuration and Styling
- Redux
 - *Predictable State*
 - Serializable State
- Redux-observable - RxJS
 - Reactive Workflows
 - Epics



React - A *declarative* library for managing views

Redux - A *declarative functional* library for managing state

Redux-observable - A *declarative functional reactive* library for managing side effects/orchestrating actions