

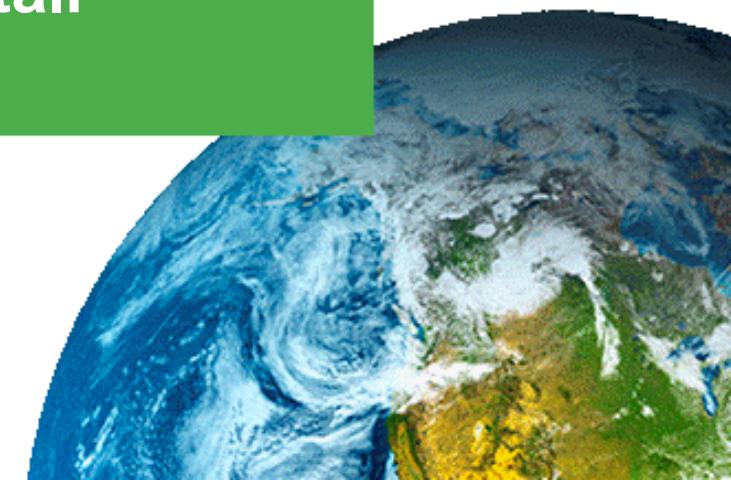


# MapStore 2

*Modern mashups with OL3, Leaflet and React*

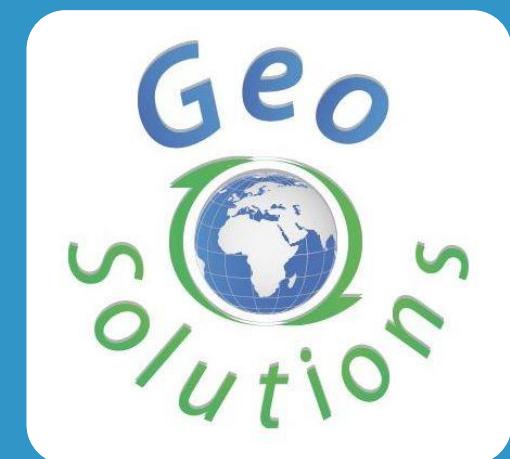


Ing. Mauro Bartolomeoli  
Ing. Nuno Oliveira  
Dott. Lorenzo Natali  
**GeoSolutions**



# 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 MapStore2?
- Mapping with MapStore2
- Building a WebGIS
- Bells and whistles (Demo time!)
- The future (our RoadMap)



## What is MapStore2?



# What is MapStore2?



# MapStore2

<https://mapstore2.geo-solutions.it/mapstore/>

# What is MapStore2?



# It's a Framework



## Use it in a Lego-like way





# What is MapStore2?



# It's a Framework

The screenshot illustrates the MapStore2 framework. On the left, a map of the world shows geological features like formations, flooding surfaces, and drainage systems. A specific area in Northern Europe is highlighted with a dashed circle. The right side displays a detailed application window for an environmental permit (Autorizzazione Unica Ambientale - AUA) for waste recovery (Recupero rifiuti). The window includes sections for General Data (DATI GENERALI) and a summary of waste recovery (RIEPILOGO RECUPERO RIFIUTI), which lists three items:

Numero sche...	Tipo recupero	Tipologia di rifi...	Desc...
1	recupero ambientale (art. 5 del d.m. 05/02/1998)	7.1	rifi. costit. da laterizi, intonaci e conglomerati di ce...
2	recupero ambientale (art. 5 del d.m. 05/02/1998)	7.2	rifiuti di rocce da cave autorizzate
3	recupero di materia (art. 3 del d.m. 05/02/1998)	7.6	conglomerato bituminoso, frammenti di piatti

You can build many different applications with it



# What is MapStore2?



# It's a Framework

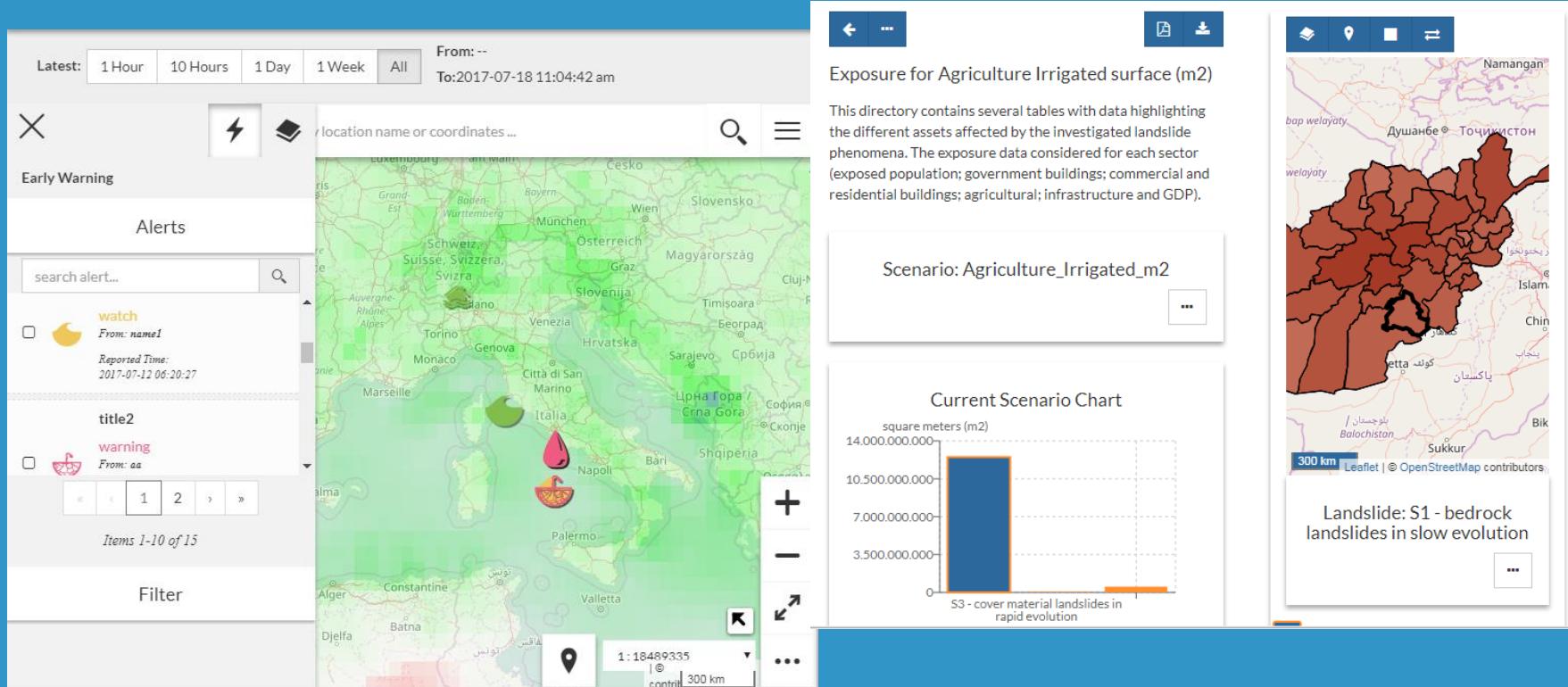
The screenshot displays two main panels. On the left, a map shows numerous accident locations marked with colored circles (yellow, orange, red) and numbers (e.g., 3, 8). A legend below the map defines symbols for Property Damage (local), Injury (local), and Fatality (local) at both the local and state levels. To the right, a menu interface is shown with sections for 'Livelli' (Levels), 'Sfondo' (Background), and 'Impostazioni' (Settings). The 'Sfondo' section contains circular icons for various map providers: Open Street Map, Google HYBRID, MapQuest OSM, and Bing AerialWithLabels. The background map shows a detailed view of the Tuscany region in Italy, with cities like Florence, Pistoia, and Prato labeled.

Serial Number	Highway System	Severity	Accident Year	Accident Date	Accident Time	Day of Week	Intersect Related	Street 1	Street 2	Reference Street	Dist from Intersect
10C259553	local	Property Dmg Report	2010	2010-02-05	15:19	Friday	true	Cloverdale Rd		Goldenrod A...	24 ft N
10C264438	local	Property Dmg Report	2010	2010-04-26	15:10	Monday		Cloverdale Rd		Goldenrod A...	50 ft S
11C291872	local	Property Dmg Report	2011	2011-04-13	17:25	Wednesday	true	Combes Par...	Creswell Way	Goldenrod A...	75 ft N
11C291877	local	Property Dmg Report	2011	2011-04-13	17:45	Wednesday		Cloverdale Rd		Goldenrod A...	75 ft N

## And some more

# What is MapStore2?

# It's a Framework



The screenshot displays the MapStore2 framework interface, which is a web-based platform for managing and visualizing geospatial data. It includes:

- A left sidebar for "Early Warning" alerts, showing a list of alerts with icons (watch, warning) and details like "From: name1" and "Reported Time: 2017-07-12 06:20:27".
- A central map view of Europe and North Africa, with green shaded regions indicating exposure for agriculture irrigated surfaces.
- A top navigation bar with search and download icons.
- A title card for "Exposure for Agriculture Irrigated surface (m<sup>2</sup>)" with a detailed description of the data.
- A scenario card for "Scenario: Agriculture\_Irrigated\_m2" with a bar chart titled "Current Scenario Chart" showing values in square meters (m<sup>2</sup>). The chart has two bars: one blue bar reaching approximately 11,500,000,000 m<sup>2</sup> labeled "S3 - cover material landslides in rapid evolution", and a much smaller orange bar labeled "S1 - bedrock landslides in slow evolution".
- A right sidebar showing a map of Central Asia and South Asia, specifically focusing on Tajikistan and surrounding regions, with a legend indicating landslide types and colors.

## And many more



# What is MapStore2?



## 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 C.V.!



# What is MapStore2?



# It is also a Product



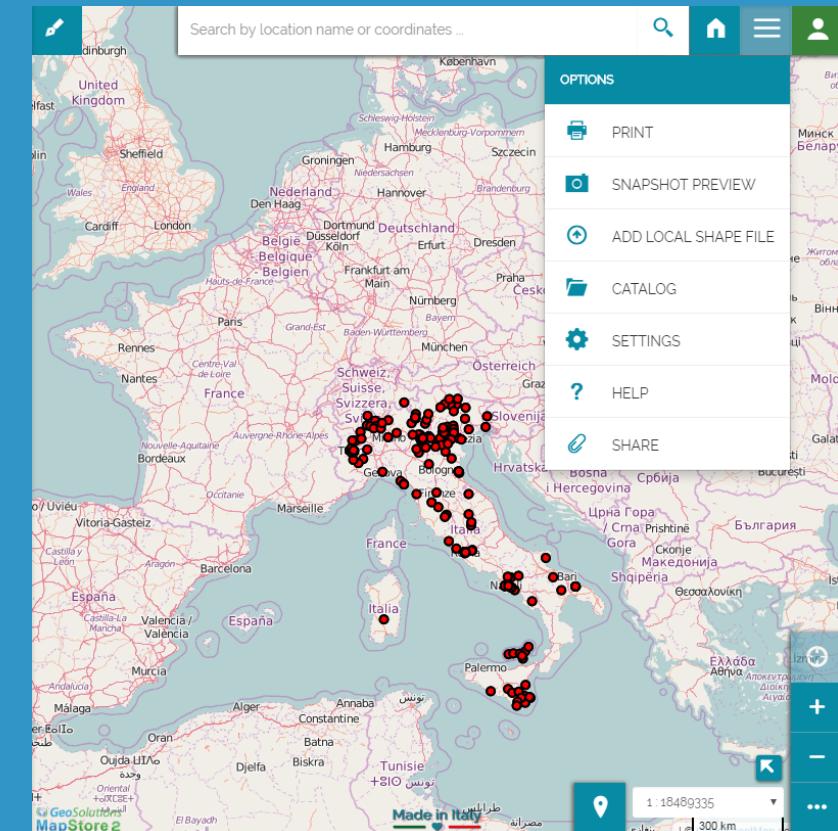
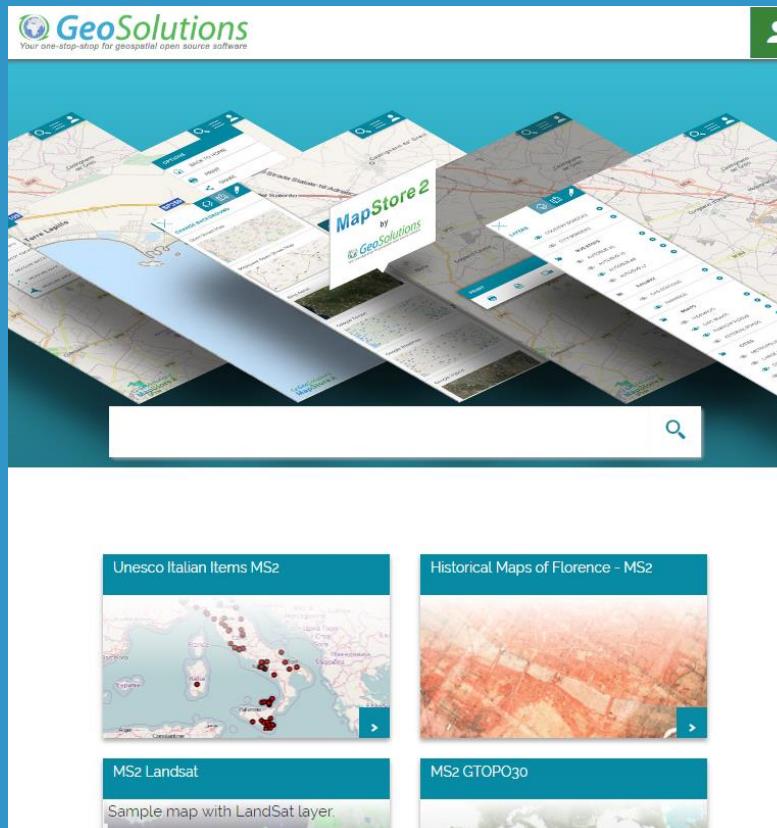
## Use it in an IKEA-like way



# What is MapStore2?



# It is also a Product



Use the available plugins to build your UI



# What is MapStore2?



# It is also a Product

The screenshot shows the MapStore2 interface. At the top, there's a navigation bar with the GeoSolutions logo, language icons (Italian, English, French, German, Spanish), and user profile. Below the navigation is a search bar with placeholder text "Cerca mappe..." and a magnifying glass icon. A large central area displays a 3D map viewer showing multiple maps from different sources like OpenStreetMap, Google Maps, and MapQuest. A callout box highlights "MapStore 2 by GeoSolutions". Below the viewer, a text block explains the purpose of MapStore2: "MapStore è sviluppato per creare, salvare e condividere in modo semplice ed intuitivo mappe e mashup creati selezionando contenuti da server come Google Maps, OpenStreetMap, MapQuest o da server specifici forniti dalla propria organizzazione o da terzi. Visita la [home page](#) per maggiori dettagli." There are dropdown menus for "Seleziona il visualizzatore di mappe" (Leaflet) and "Seleziona Tema" (wasabi). At the bottom, there are two preview cards: "Historical Maps of Florence" and "Tessuto Urbanizzato Bolzano".

The screenshot shows a detailed map view of a specific area in Florence, Italy. The map includes street names like Via Francesco Baracca, Via di Novoli, Lungarno dei Pippi, and Via Pisana. A large orange polygon covers a significant portion of the map, likely representing a specific urban fabric or land use area. On the right side, there's a vertical control panel with zoom (+/-), orientation (compass), and other map-related icons.

## Customize it a little bit

# What is MapStore2?

## 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 need to improve this)
- ...and ask on the mailing list when in doubt



## Mapping with MapStore2

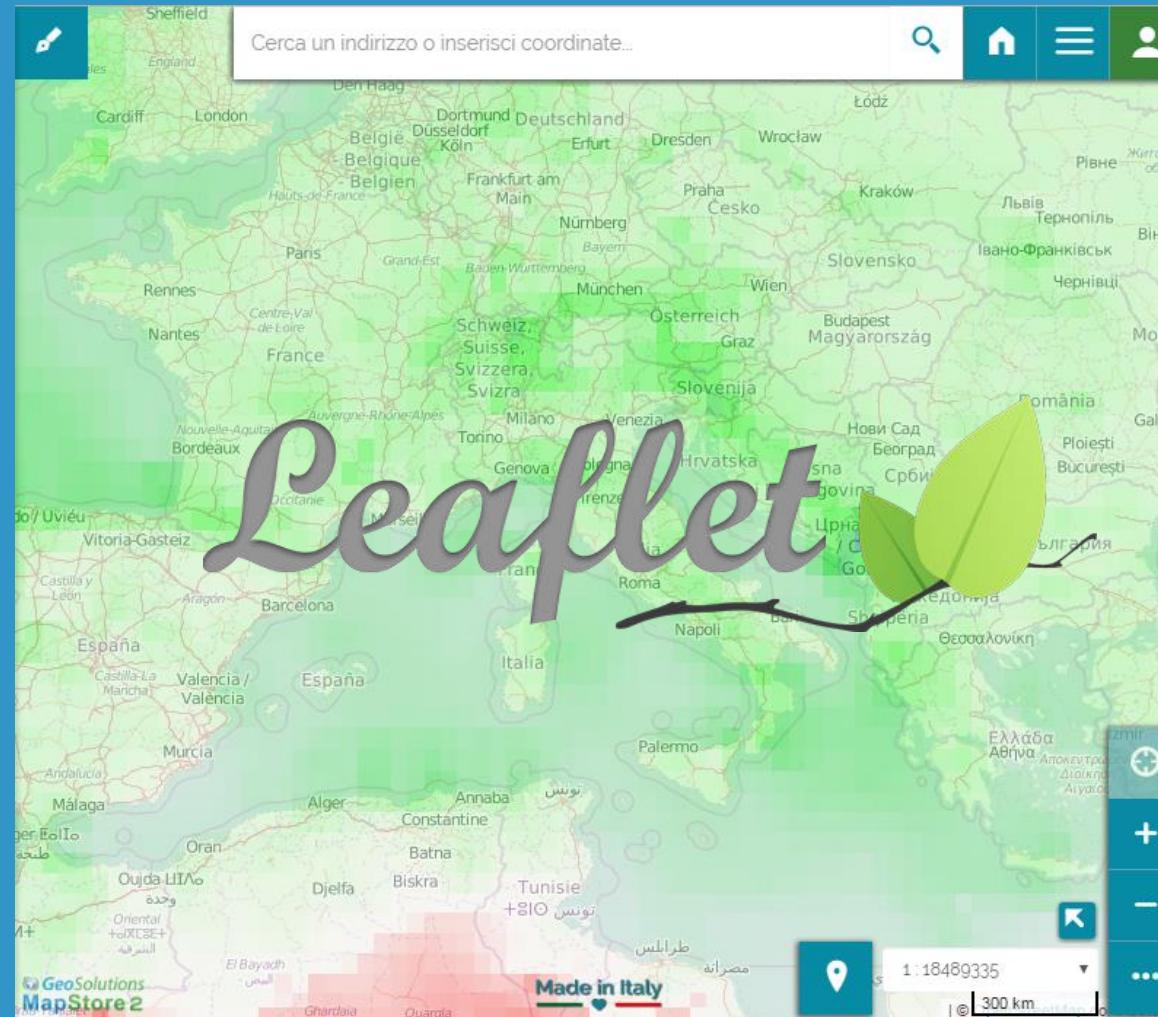




# Mapping with MapStore2



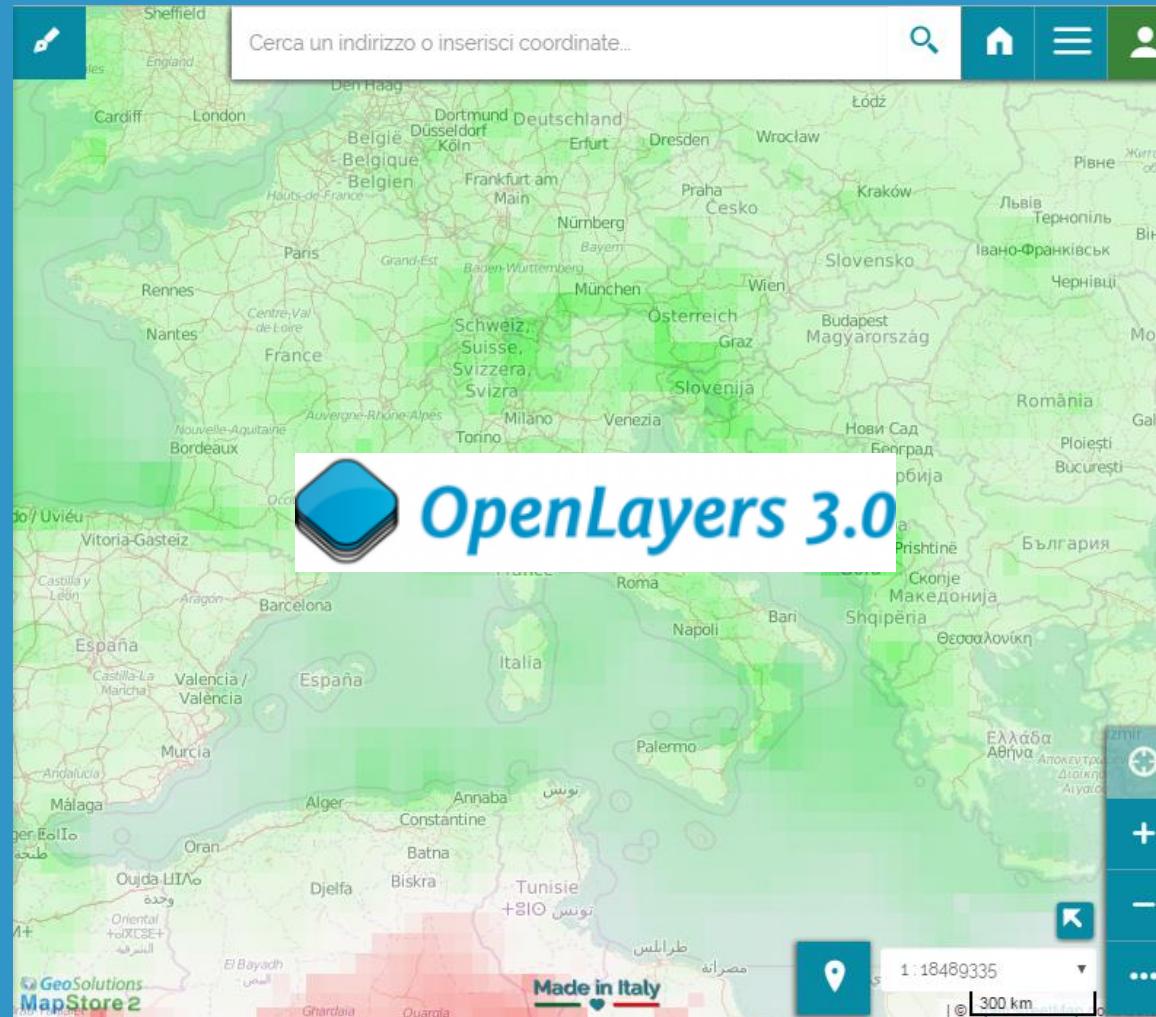
## MapStore2 is mapping agnostic



# Mapping with MapStore2



## MapStore2 is mapping agnostic



# Mapping with MapStore2



## MapStore2 is mapping agnostic





# Mapping with MapStore2



## MapStore2 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 MapStore2



## MapStore2 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!



## Building a WebGIS

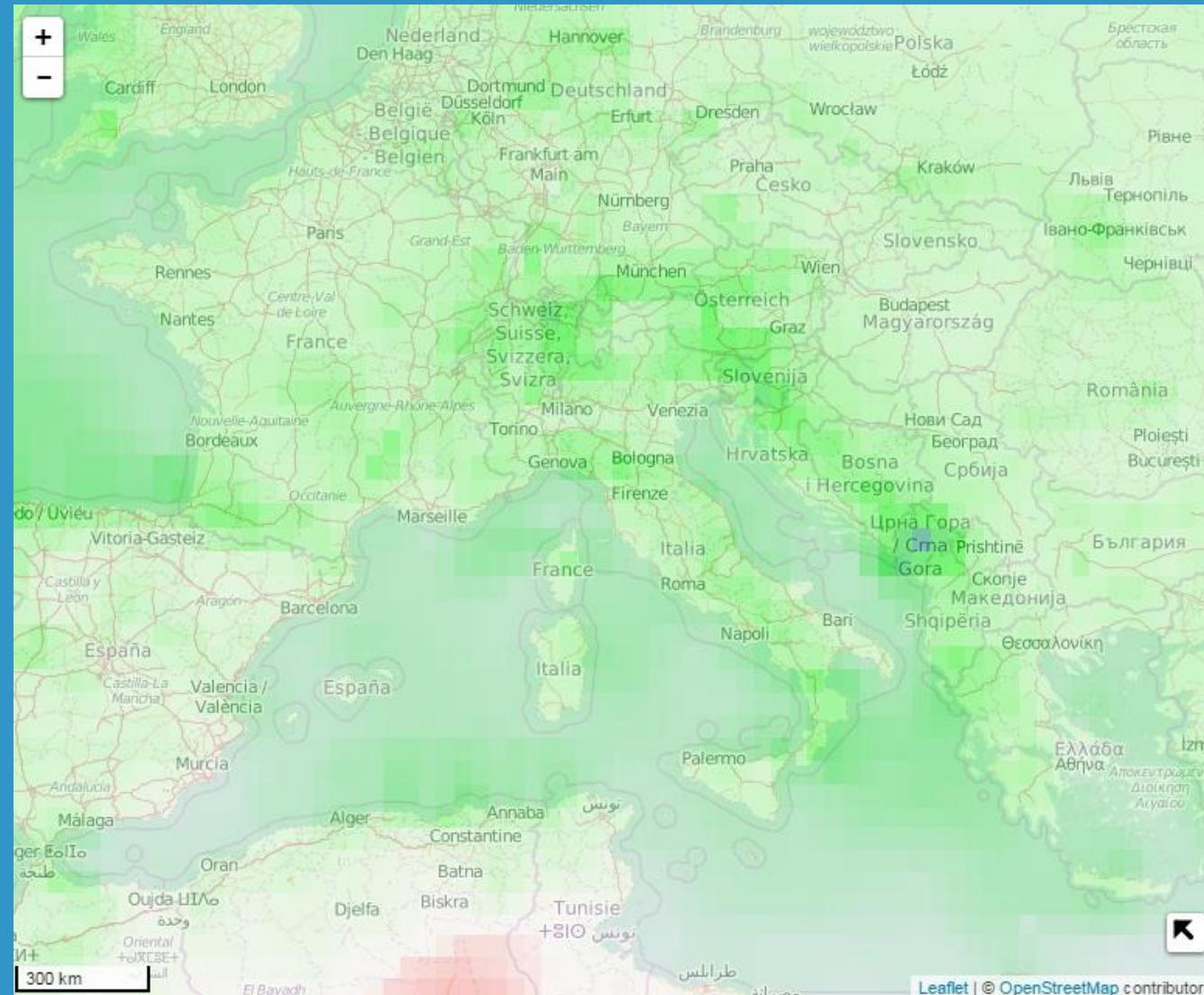




# Building a WebGIS



## MapStore 2 is pluggable

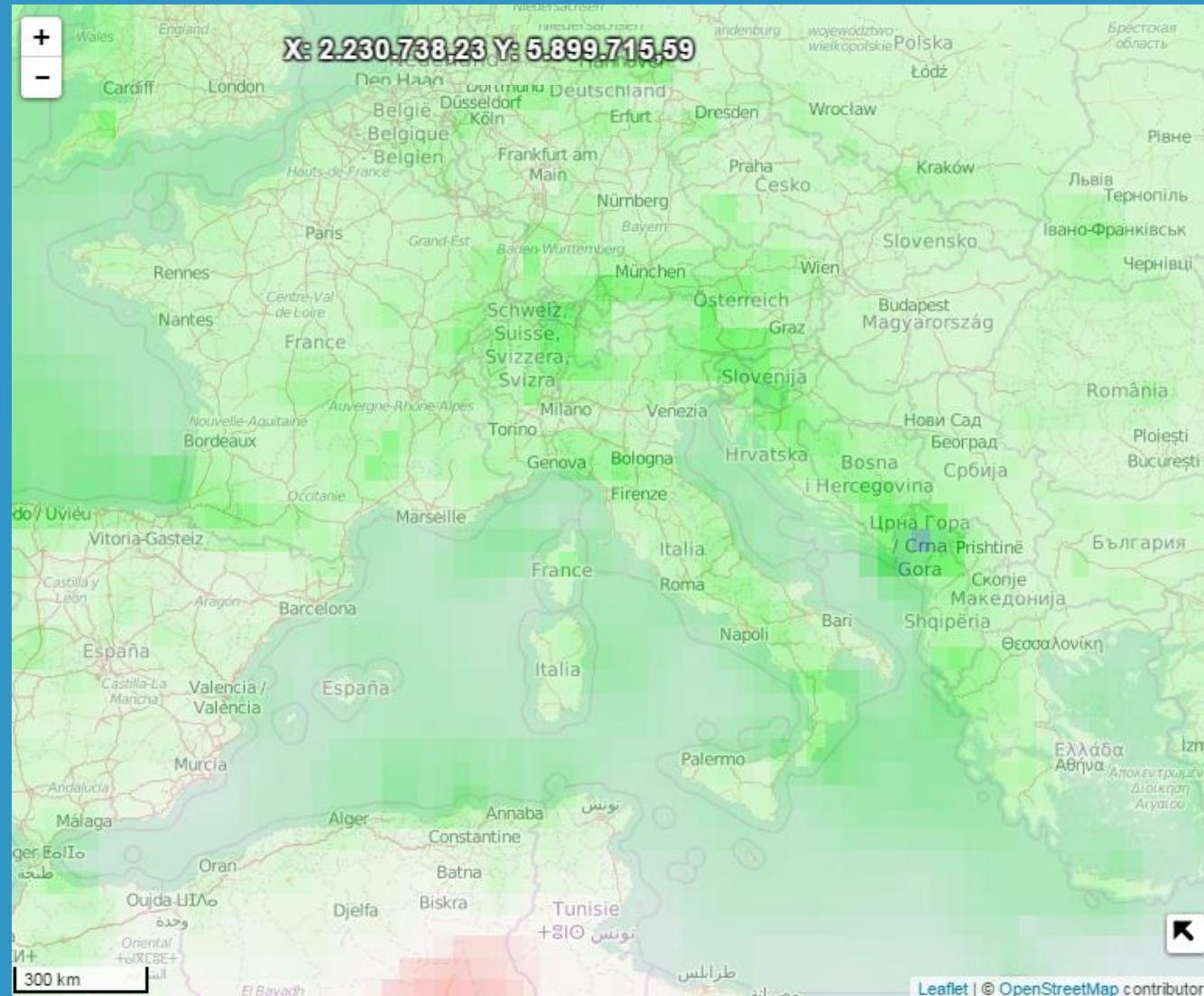




# Building a WebGIS



## MapStore 2 is pluggable



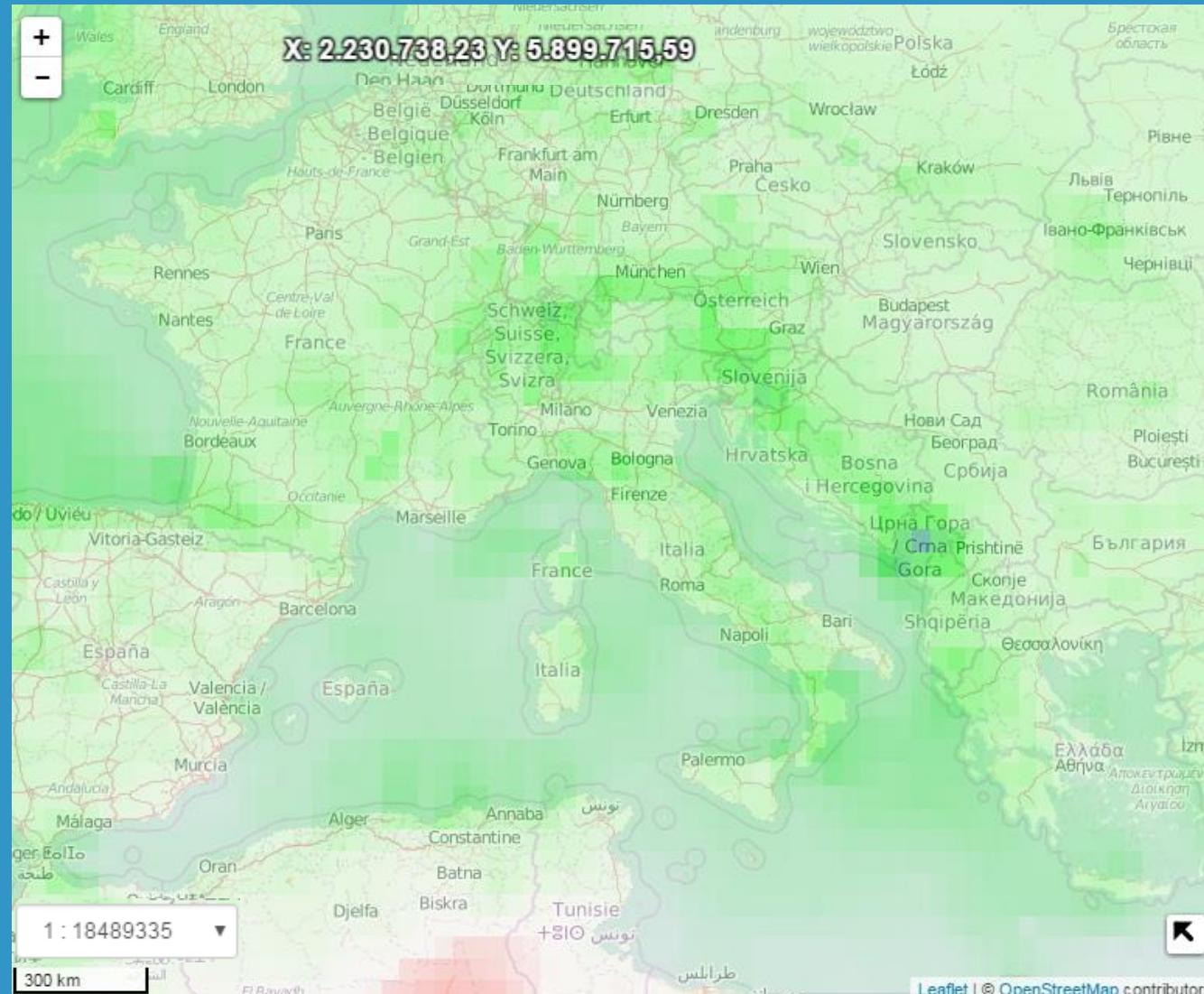
Leaflet | © OpenStreetMap contributors



# Building a WebGIS



## MapStore 2 is pluggable

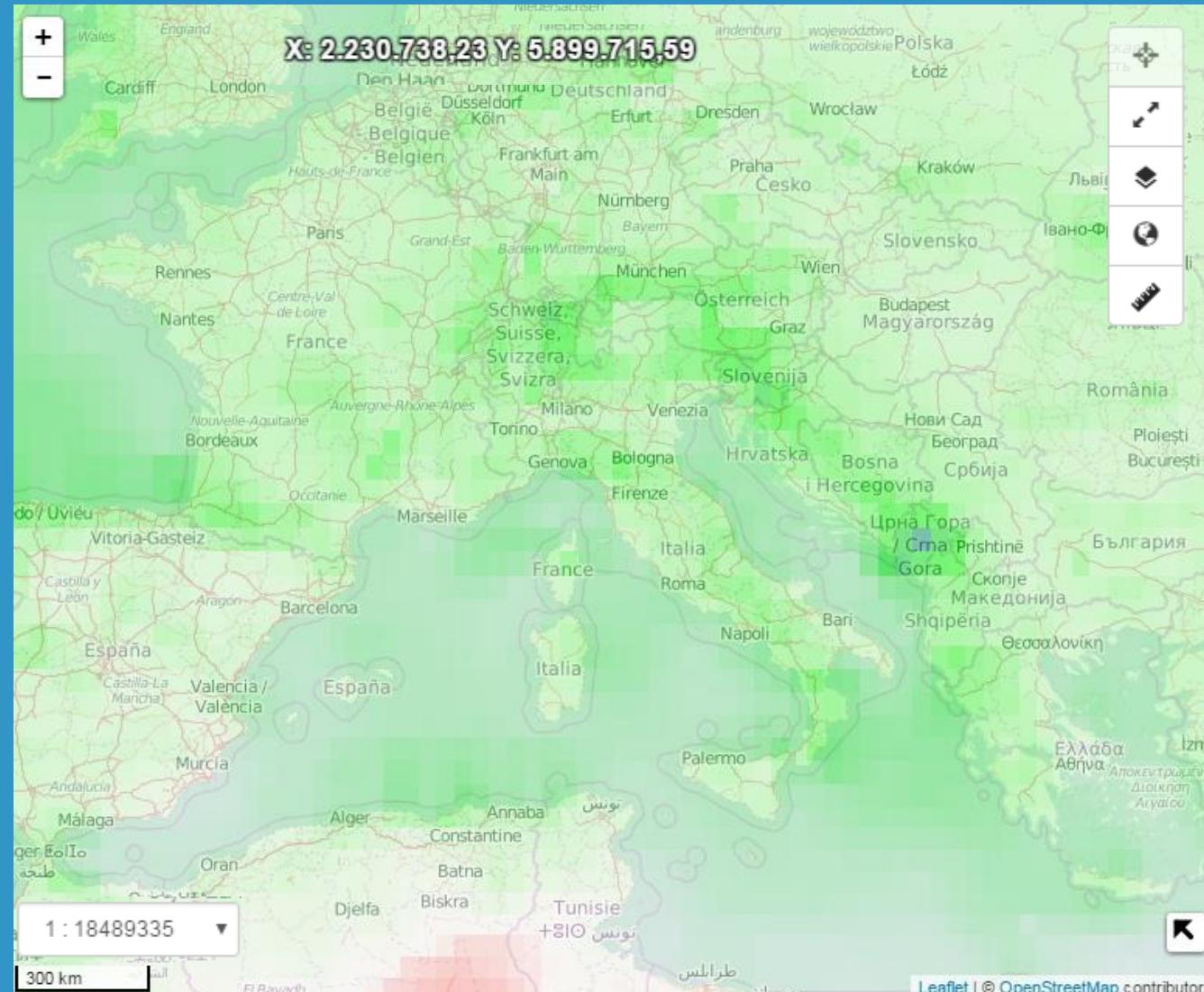




# Building a WebGIS



## MapStore 2 is pluggable



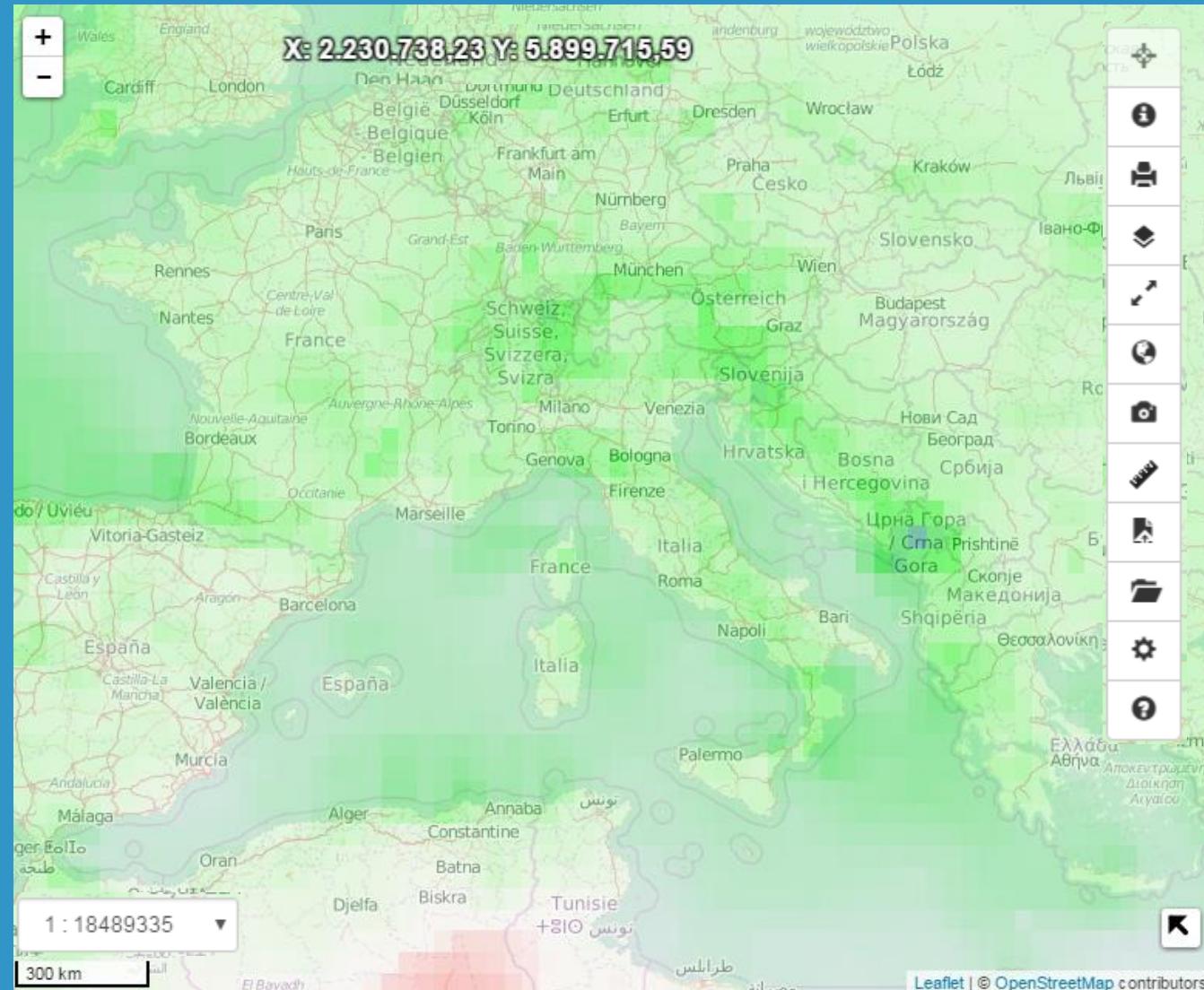
Leaflet | © OpenStreetMap contributors



# Building a WebGIS



## MapStore 2 is pluggable

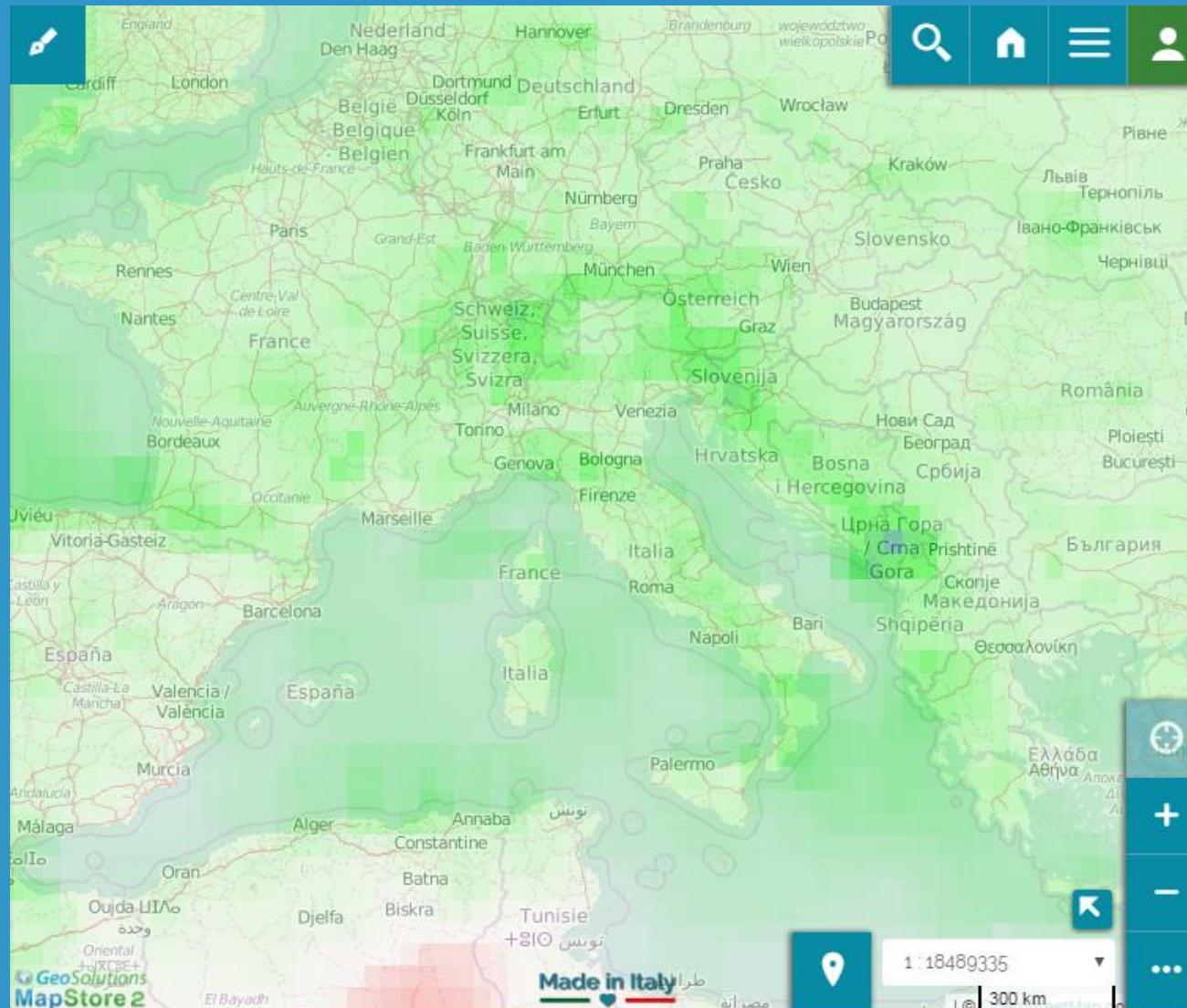




# Building a WebGIS



## MapStore 2 is customizable



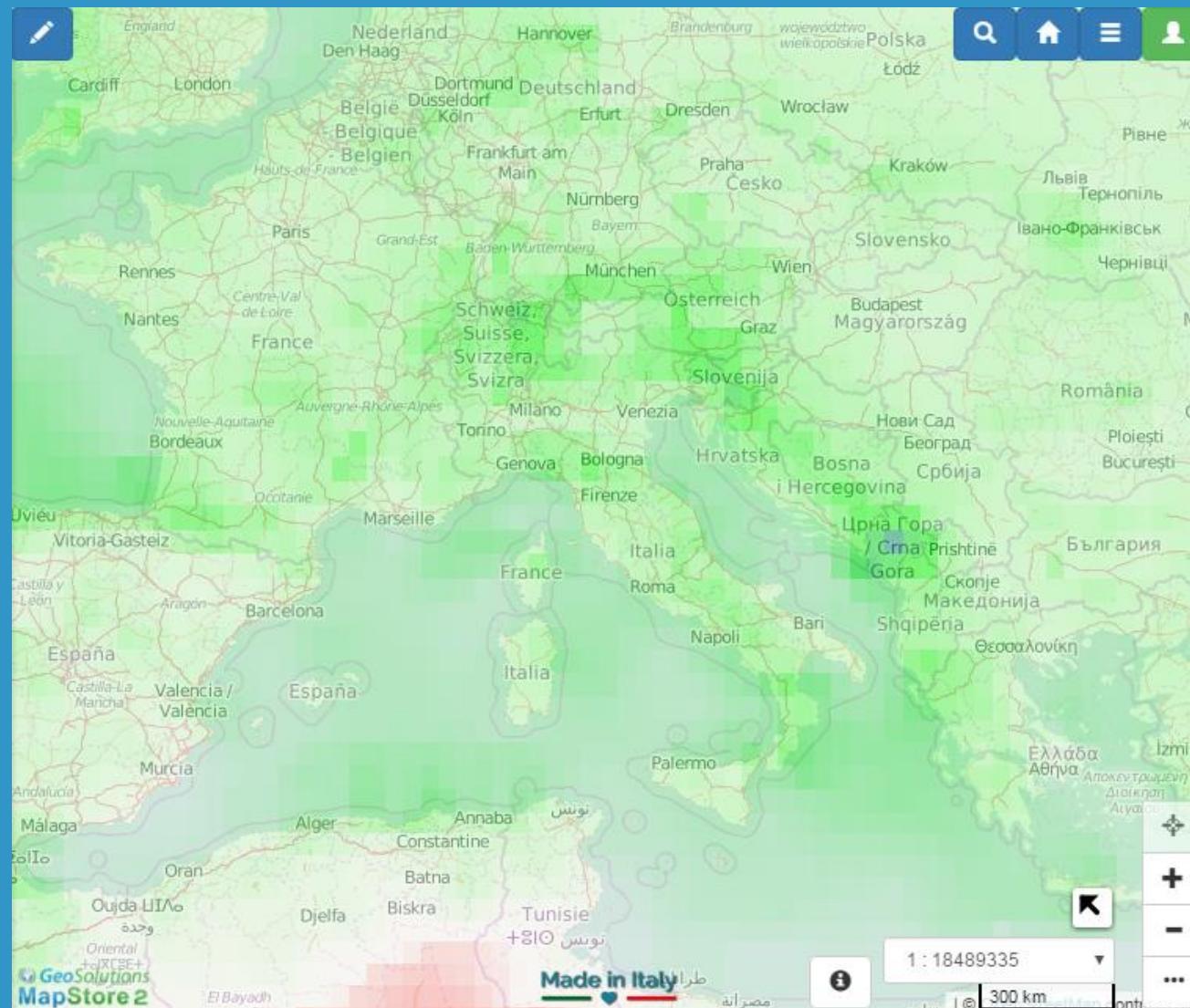
# Building a WebGIS



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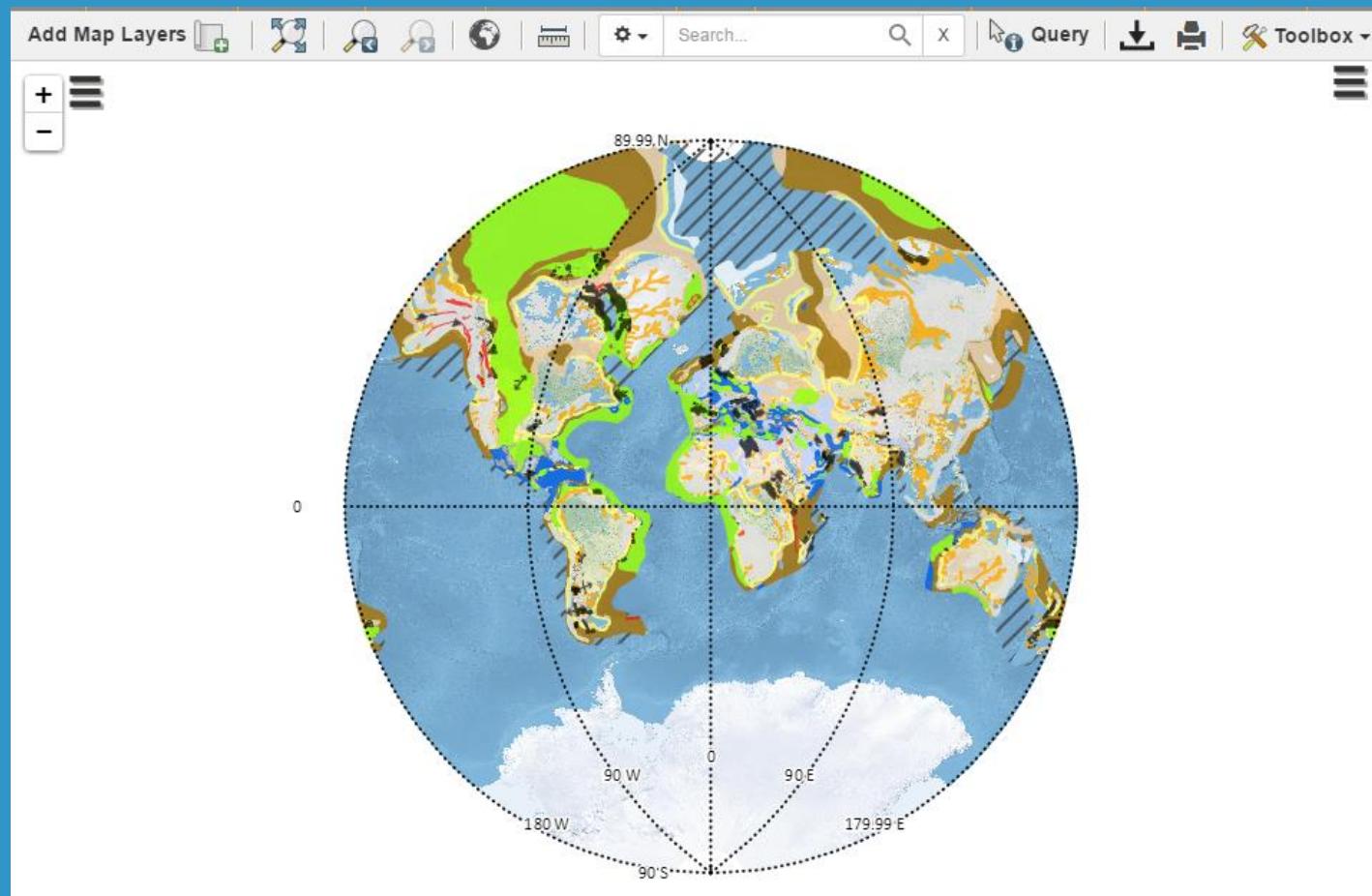
## MapStore 2 is customizable



# Building a WebGIS



## MapStore 2 is customizable





# Building a WebGIS



## MapStore 2 is customizable

**SEARCH RESULTS LIST**

Codice SIRA	Codice fiscale (P.IVA)	Comune	Autorizzazioni ambientali
1582	02291260061	Valenza	Recupero di rifiuti n...
29820	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...

1 to 15 of more < Page 1 of more >

Export Tool Panel Select All

**FIND IN THE DATASET**

Dataset: AUA - IMPIANTI DI RECUPERO ENERGIA E MATERIA

**ATTRIBUTE FILTER**

Match: any of the following conditions:

Provincia	=	ALESSANDRIA
Provincia	=	ASTI

+ Add Condition + Add Group

**SPATIAL FILTER**

Selection Method: Select

Operazione Geometrica: INTERSECTS

Search Reset



# Building a WebGIS



## MapStore 2 is customizable

The screenshot displays the MapStore 2 interface. On the left, a sidebar titled "Configure application plugins" lists several options, each with a checkbox and a plus sign icon:

- Leaflet (selected)
- Save
- Load
- 
- Map
- MousePosition
- MapLoading
- ZoomAll
- ZoomIn
- ZoomOut
- Search
- ScaleBox
- Toolbar
- DrawerMenu
- BurgerMenu
- OmniBar
- Locate
- Identify
- TOC
- RasterStyler
- BackgroundSwitcher

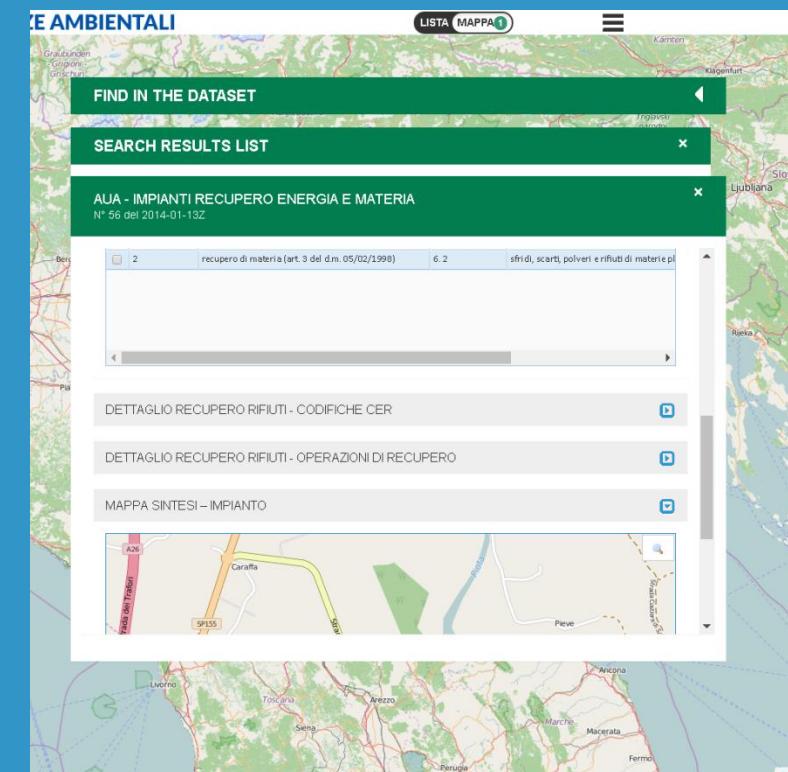
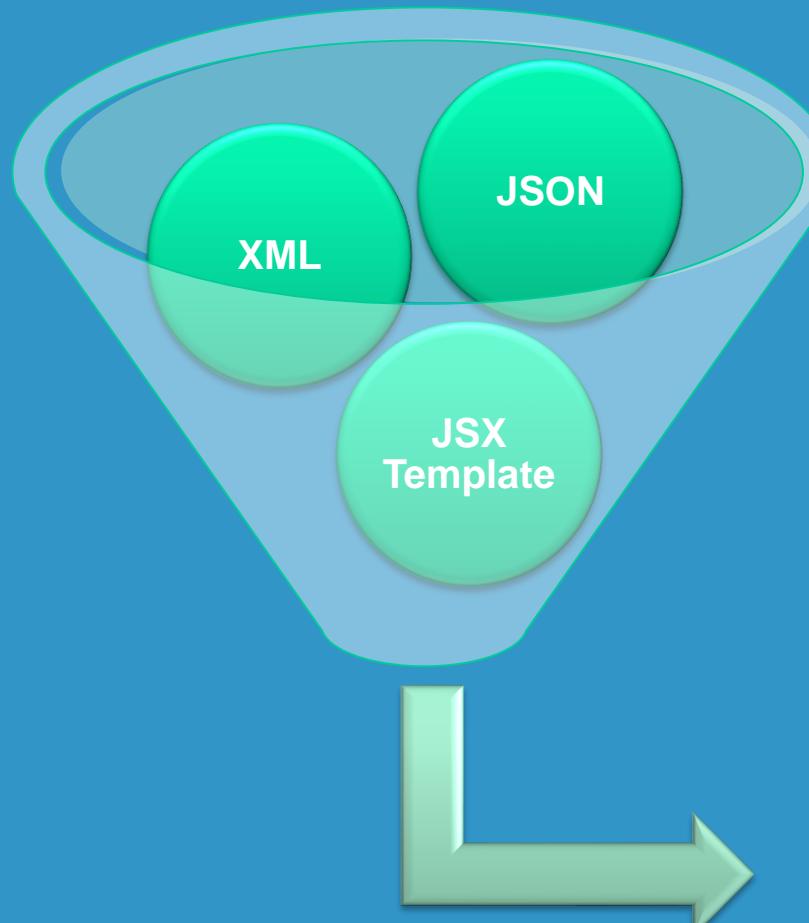
At the top center is a search bar with the placeholder "Cerca un indirizzo o inserisci coordinate..." and a magnifying glass icon. Below the search bar is a map of Europe and North Africa. The map features a green heatmap overlay, with darker shades indicating higher values in certain regions like Spain, Italy, and the Balkans. The map includes labels for numerous cities and countries in multiple languages. A legend at the bottom left shows a green square labeled "300 km". On the right side of the map, there is a vertical toolbar with icons for zooming, panning, and other map controls.



# Building a WebGIS



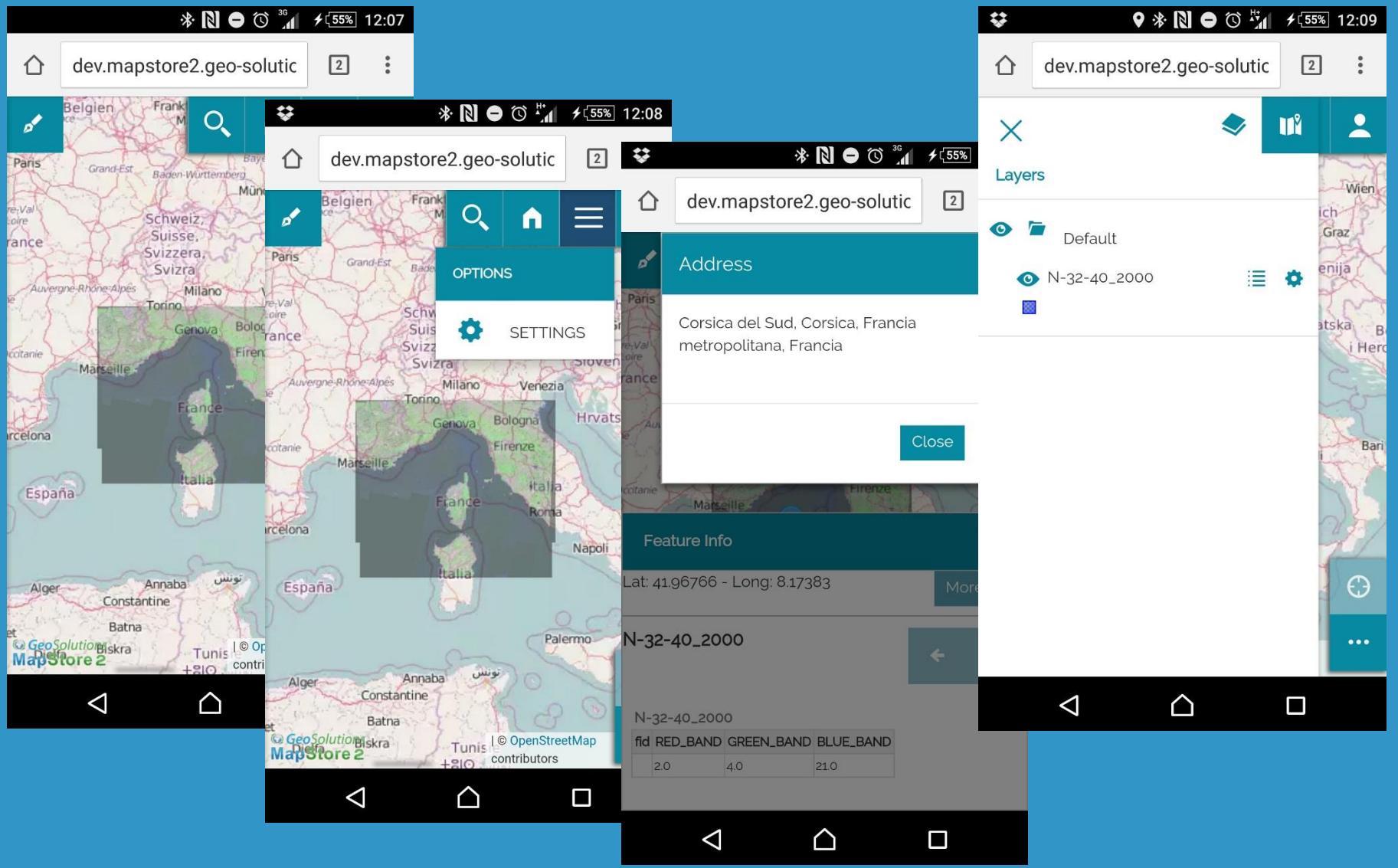
## MapStore 2 is customizable



# Building a WebGIS



## MapStore 2 is Responsive





# Building a WebGIS



## The L&F has been done with care

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

**CHEF STUDIO**

**MapStore 2**

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

**NAVIGATION TOOLS**

**SIDE BAR LAYERS TOOL**

**SIDE BAR MAP TOOLS**

**SIDE BAR DRAWING TOOLS**

**MODAL PRINT 2**

**MODAL OPTIONS**

**MODAL SHARE**

**MODAL LOG-IN**

**RIGHT BUTTON**

**LAYER OPAQUE**

**WELCOME PAGE**

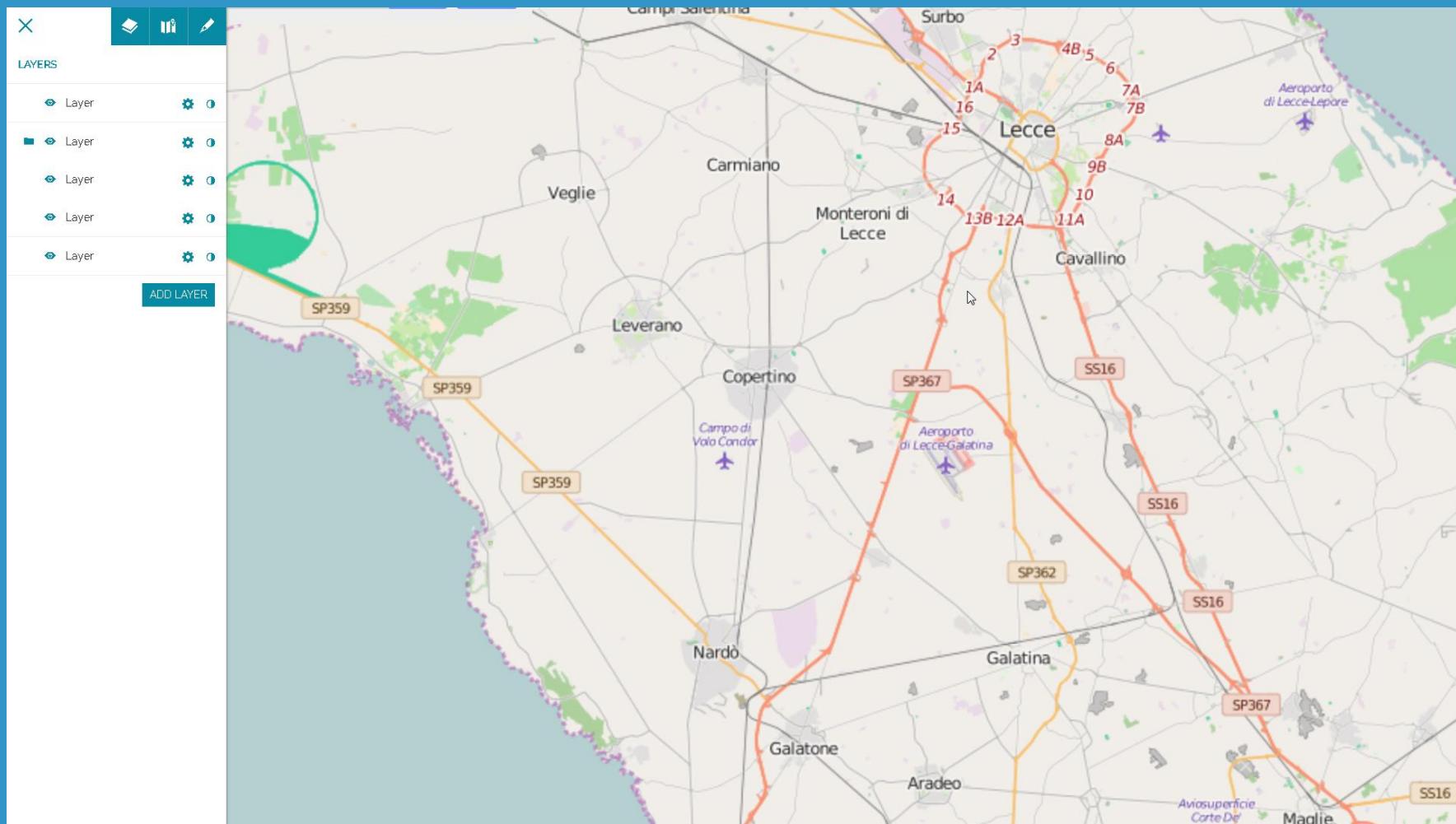
**INFO TOOL**

# Building a WebGIS



## 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>*

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LOG IN

ADD USER

MANAGE GROUPS

Search user...

Andrea Biagi

Role: Administrator

Status:

Group: group A, group B, group C, group D, group E

Andrea Biagi

Role: Administrator

Status:

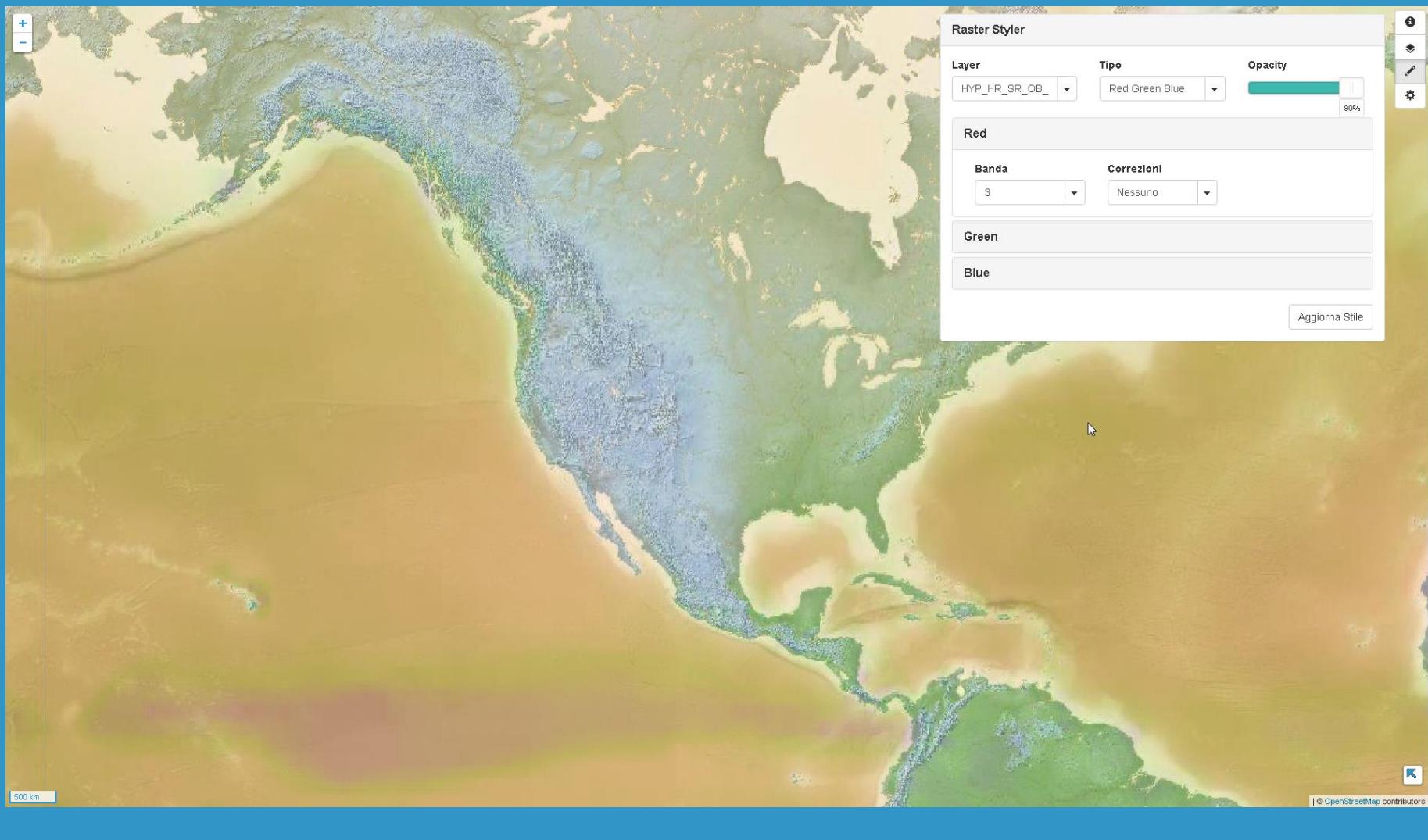
Group: group A, group B, group C, group D, group E

GeoSolutions

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# Building a WebGIS

## MapStore 2 is more than just mapping



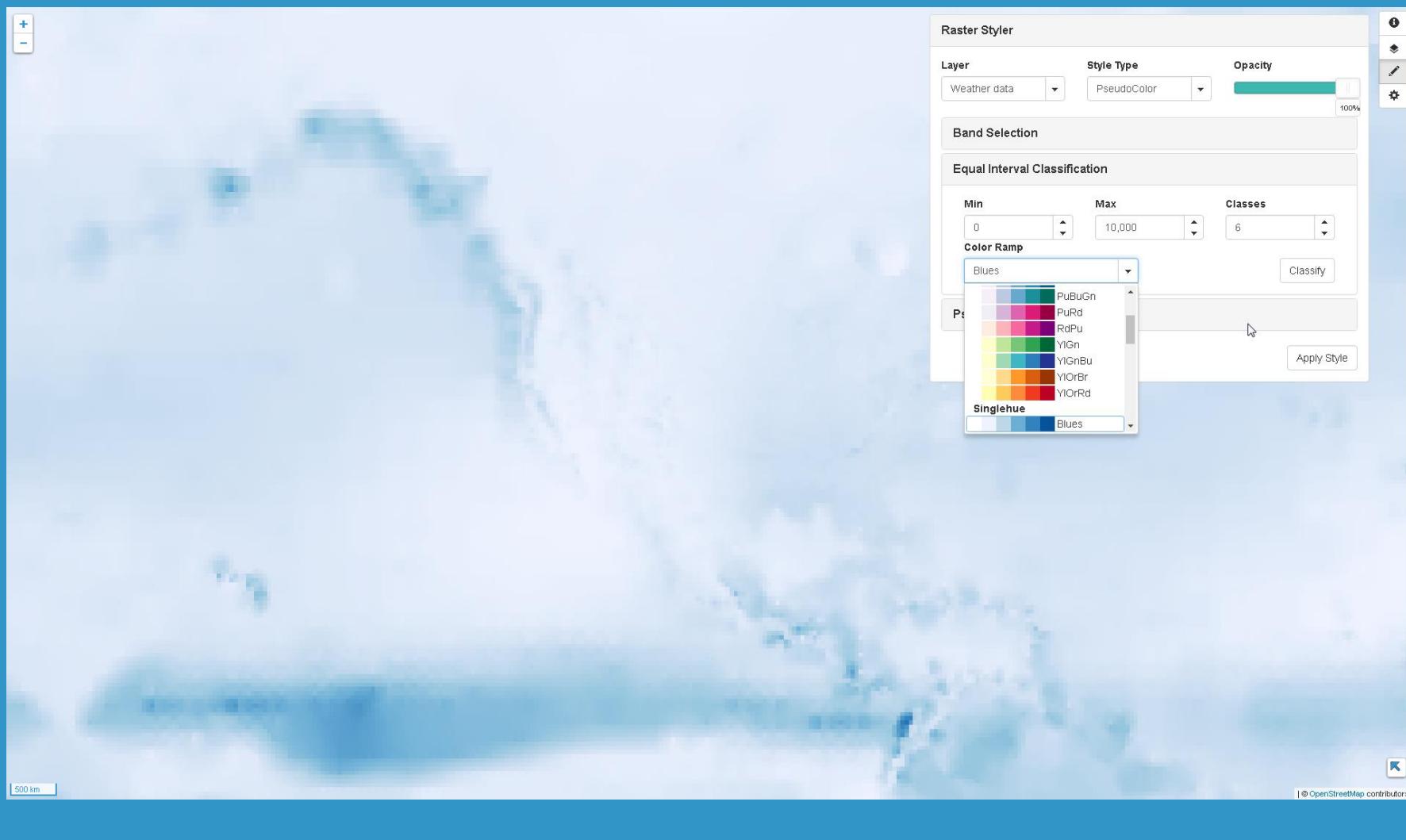
# Building a WebGIS



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## MapStore 2 is more than just mapping



# Building a WebGIS



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## MapStore 2 is more than just mapping

The screenshot displays a weather map of Europe with a color-coded legend for precipitation levels. The legend is titled 'PseudoColor Settings' and shows a 'ramp' type with six entries:

Color	Quantity	Label
Lightest Blue	0.00	0.00
Moderately Light Blue	1666.67	1666.67
Medium Blue	3333.33	3333.33
Darker Blue	5000.00	5000.00
Very Dark Blue	6666.67	6666.67
Darkest Blue	8333.33	8333.33

Below the legend are buttons for 'Add Entry' and 'Remove Entry', and a 'Apply Style' button.



# Building a WebGIS



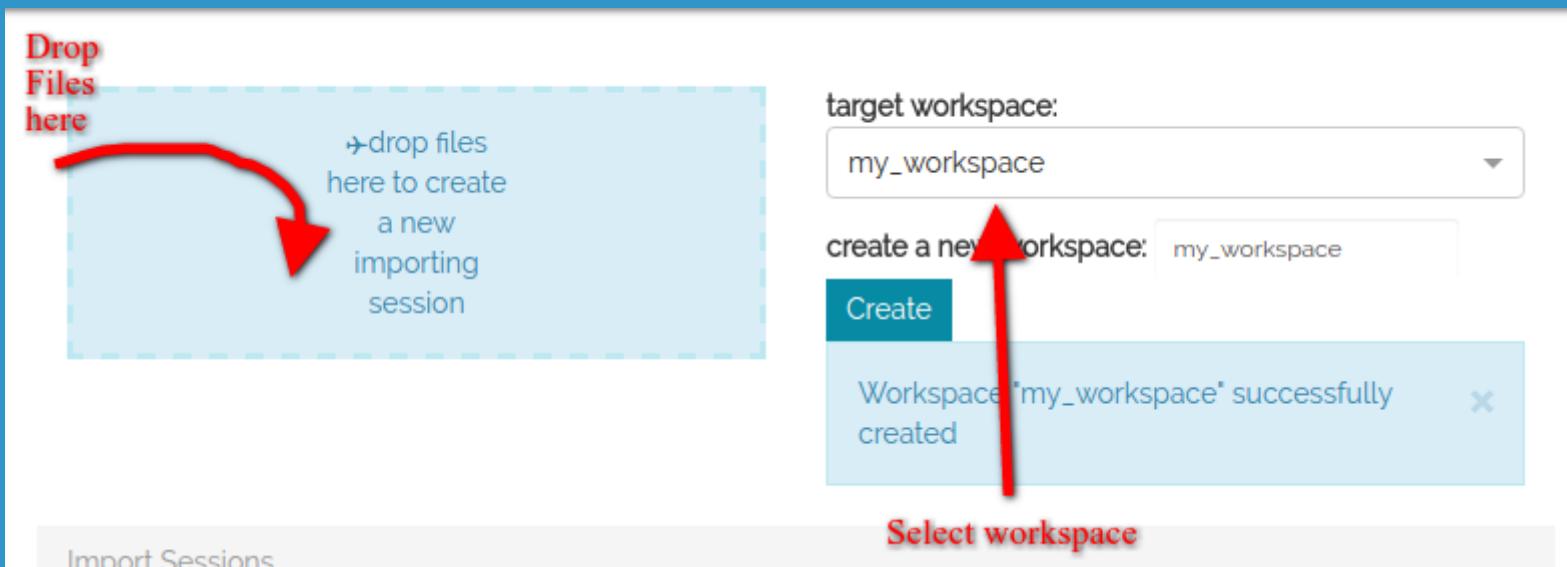
## MapStore 2 is more than just mapping

The screenshot displays the MapStore 2 interface. At the top, there is a map of Europe with various regions highlighted in different colors. A search bar at the top right contains the placeholder text "Search by location name or coordinates ...". Below the map, a large modal window titled "Catalog" is open. It shows a dropdown menu with "CSW" selected, and a sub-menu with "CSW" (which is highlighted with a blue background), "WMS", and a URL "http://demo.geosolutions.it". Below this is a search input field with the placeholder "text to search..." and a "Search" button. The main content area of the catalog shows six items in a grid:

- repeatlink: Preview Not Available, with "Add To Map" and "Share" buttons.
- Cluster Groups: Preview Not Available, with "Add To Map" and "Share" buttons.
- Cluster Centres: Preview Not Available, with "Add To Map" and "Share" buttons.
- Scene Outlines: Preview Not Available, with "Add To Map" and "Share" buttons.
- Slick Outlines: Preview Not Available, with "Add To Map" and "Share" buttons.
- Slick Emission Points: Preview Not Available, with "Add To Map" and "Share" buttons.

At the bottom of the catalog window, there is a page navigation bar showing "Results 1-6 of 34" and a set of numbered buttons from 1 to 5. The overall theme of the interface is light blue and white, with dark blue headers and buttons.

## MapStore 2 is more than just mapping



# Building a WebGIS



## MapStore 2 is more than just mapping

The screenshot shows the 'Import Sessions / Session 1' interface. At the top, there are buttons for 'Status' (Archive) and 'PENDING'. Below this is a table titled 'Packages' with two entries:

#	Status	Actions
0	READY	<input type="checkbox"/>
1	READY	<input type="checkbox"/>

A red arrow points from the text 'All imported packages are listed here' to the table. Another red arrow points from the text 'When Upload is finished, You can run import' to the green 'Run' button, which is circled in red.

All imported packages are listed here

When Upload is finished, You can run import

Run Delete Session



# Building a WebGIS



## MapStore 2 is more than just mapping

Session 1

Status Archive **COMPLETE**

**Edit style**

Packages

#	Status	Actions
0	<b>COMPLETE</b>	<input type="button"/> Edit Default Style
1	<b>COMPLETE</b>	<input type="button"/> Edit Default Style

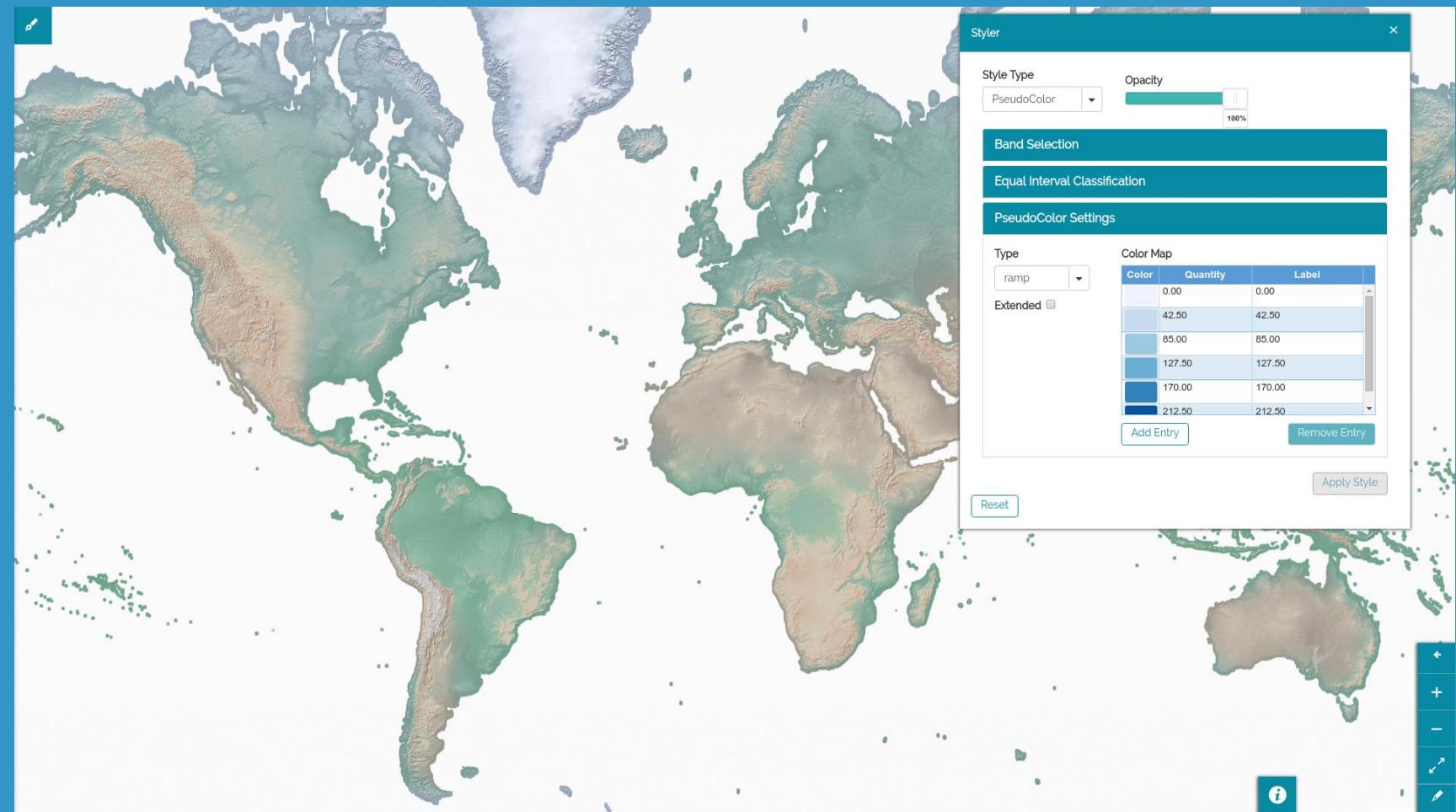
**Delete Session**

# Building a WebGIS



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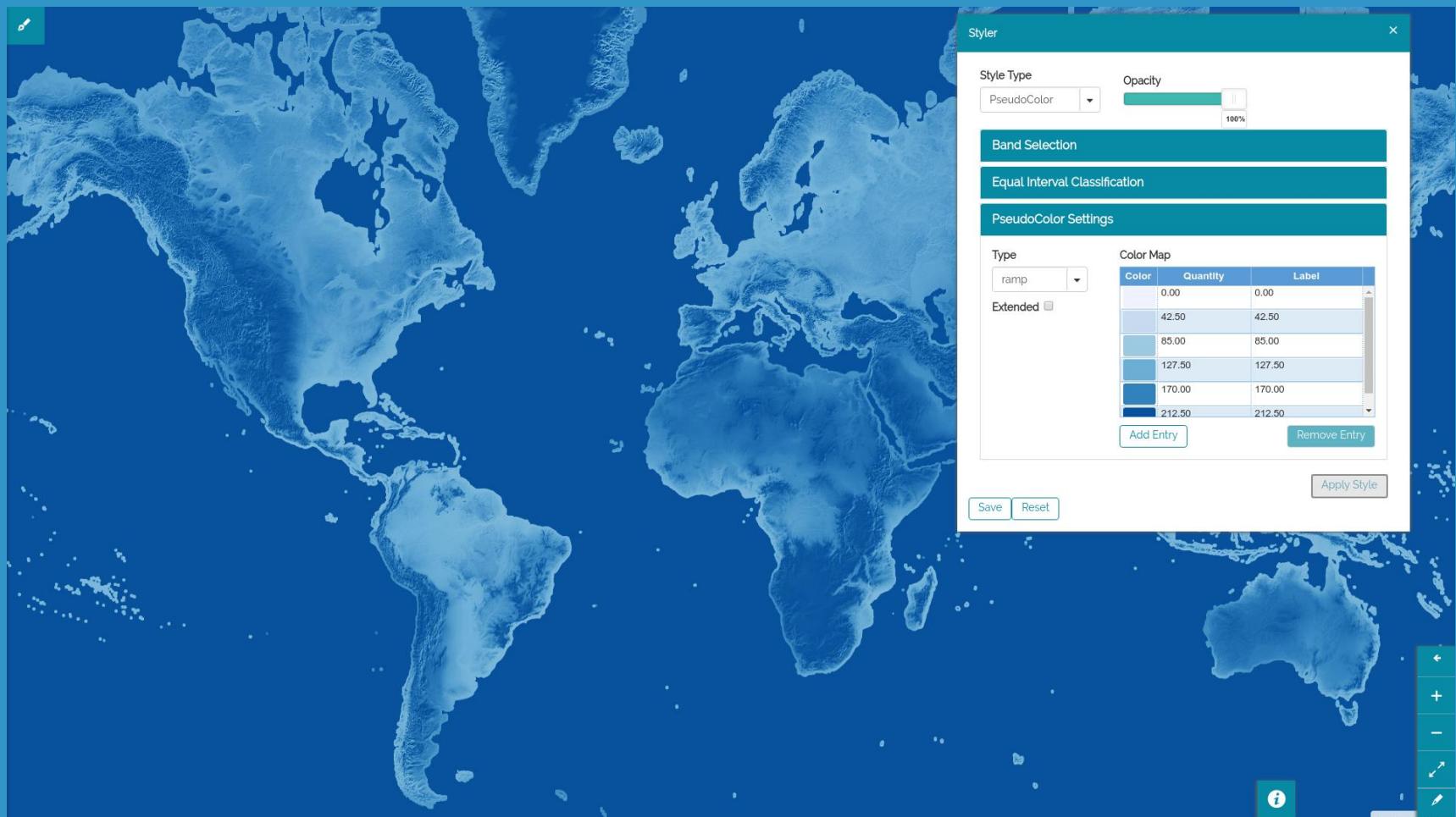
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## MapStore 2 is more than just mapping



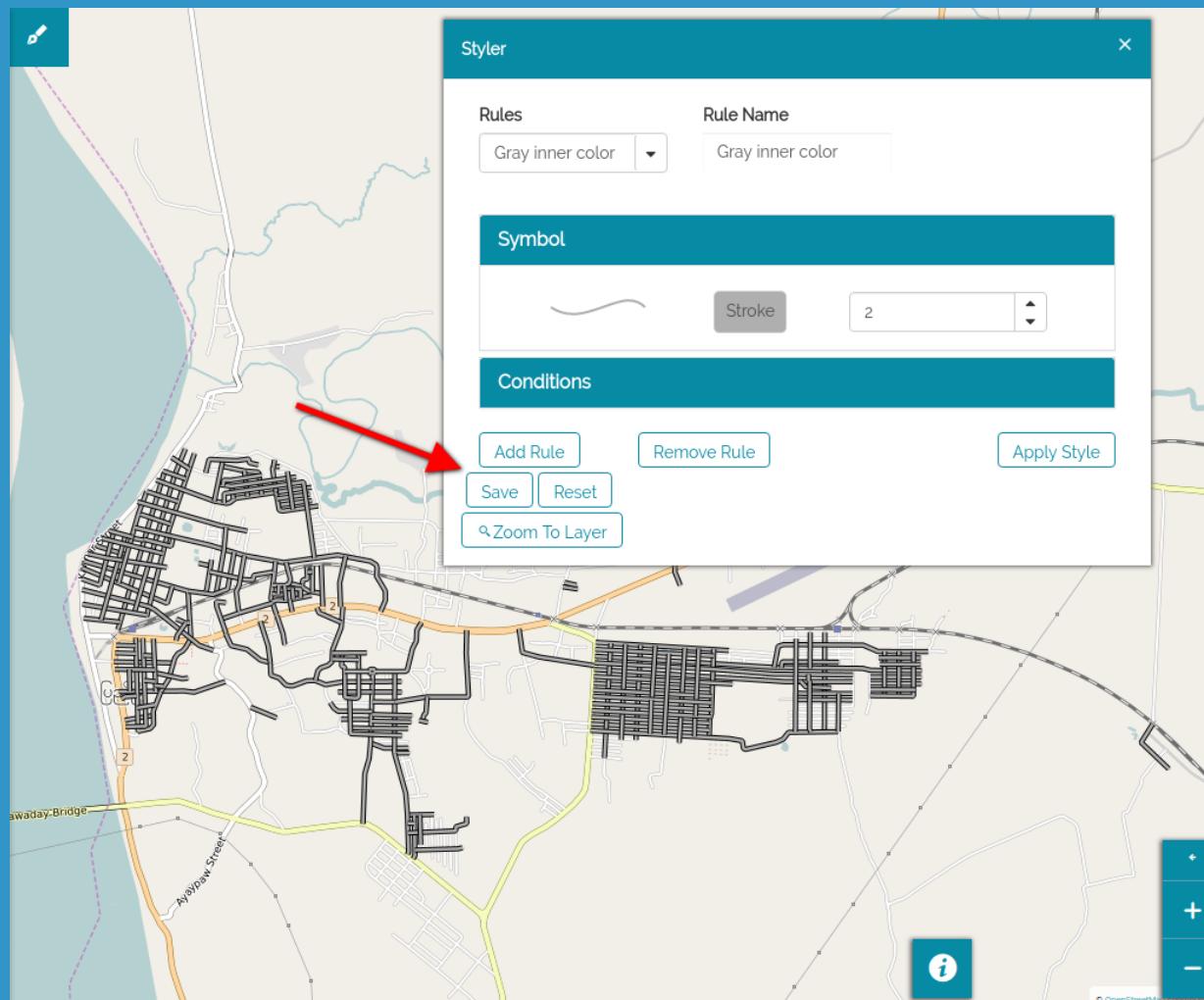
# Building a WebGIS



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## MapStore 2 is more than just mapping





# Building a WebGIS



## MapStore 2 is more than just mapping

Filters

Role: admin | Service: | Request: | Workspace: | Layer: |

Rules

Role	User	Service	Request	Workspace	Layer	Access
<input checked="" type="checkbox"/> USER	admin	WFS	*	*	*	ALLOW
<input checked="" type="checkbox"/> ADMIN	admin	WMS	GETSTYLES	geosolutions	roads	DENY
<input type="checkbox"/>	*	*	*	geosolutions	roads	ALLOW
<input checked="" type="checkbox"/> everyone	*	*	*	*	*	ALLOW
<input checked="" type="checkbox"/> GUEST	*	*	*	*	*	ALLOW
<input type="checkbox"/> GUEST	*	WMS	*	*	*	DENY
<input checked="" type="checkbox"/> *	*	WMS	*	tiger	lead10_AMJ_prcp	ALLOW
<input type="checkbox"/> *	admin	*	*	sde	*	ALLOW
<input type="checkbox"/> *	*	*	*	cite	*	ALLOW
<input type="checkbox"/> *	*	*	*	tiger	tiger_roads	ALLOW

« < 1 2 3 > »

# Building a WebGIS



## MapStore 2 is more than just mapping

The screenshot shows the MapStore 2 interface for managing security rules. On the left, there's a table of existing rules with columns for Role, User, Service, Request, and Action. A modal window titled "Edit Rule" is open in the center, showing a list of selected permissions: ADMIN, admin, WMS, GETSTYLES, geosolutions, roads, and DENY. At the bottom of the modal are "Save" and "Close" buttons. To the right of the modal is a large table listing layers and their access permissions (ALLOW or DENY). The bottom right corner of the interface shows a small map preview.

Role	User	Service	Action
USER	admin	WFS	
ADMIN	admin	WMS	GETS
everyone	*	*	*
GUEST	*	*	*
GUEST	*	WMS	*
*	*	WMS	*
*	admin	*	*
*	*	*	*
*	*	*	*
*	*	*	*

Layer	Access
roads	DENY
roads	ALLOW
*	ALLOW
*	DENY
lead10_AMJ_prcp	ALLOW
*	ALLOW
*	ALLOW
tiger_roads	ALLOW

# Building a WebGIS



## Easy map publishing

The screenshot shows the MapStore 2 interface. At the top is a search bar with the placeholder "search for projects..." and a magnifying glass icon. Below the search bar is a descriptive text block:

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.

Below this text is a "Select Map Viewer:" dropdown menu set to "Leaflet".

Two main map thumbnails are displayed:

- Historical Maps of Florence - MS2**: A thumbnail showing a historical map of Florence with red and orange color coding. It includes a "New Map" button above it and a "next" arrow icon at the bottom right.
- Unesco Italian Items MS2**: A thumbnail showing a map of Italy and surrounding regions with red dots indicating Unesco World Heritage sites. It includes a "next" arrow icon at the bottom right.

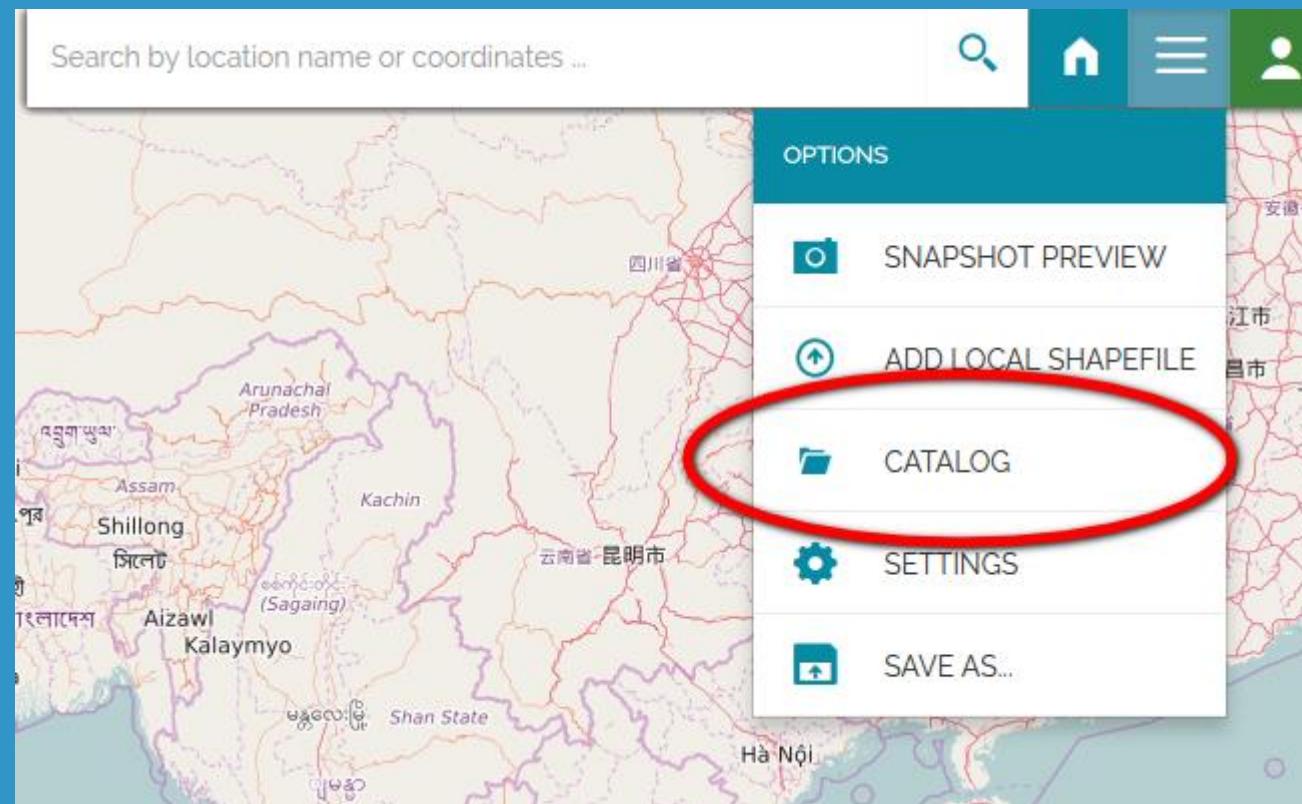
Below each thumbnail is a teal-colored footer bar with white text:

- MS2 GTOPO30**
- MS2 Regione Toscana**

# Building a WebGIS



## Easy map publishing

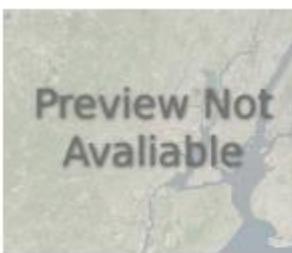




# Building a WebGIS

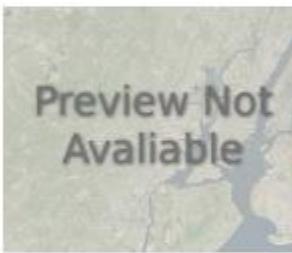


## Easy map publishing



A sample ArcGrid file

+ Add To Map



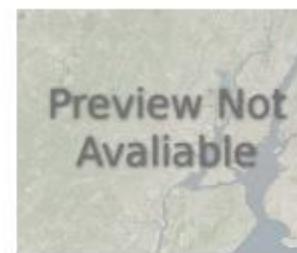
North America sample imagery

+ Add To Map

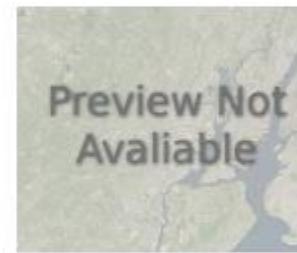


N-32-40\_2000

« < 1 2 3 4 5 ... > »



mosaic



g30



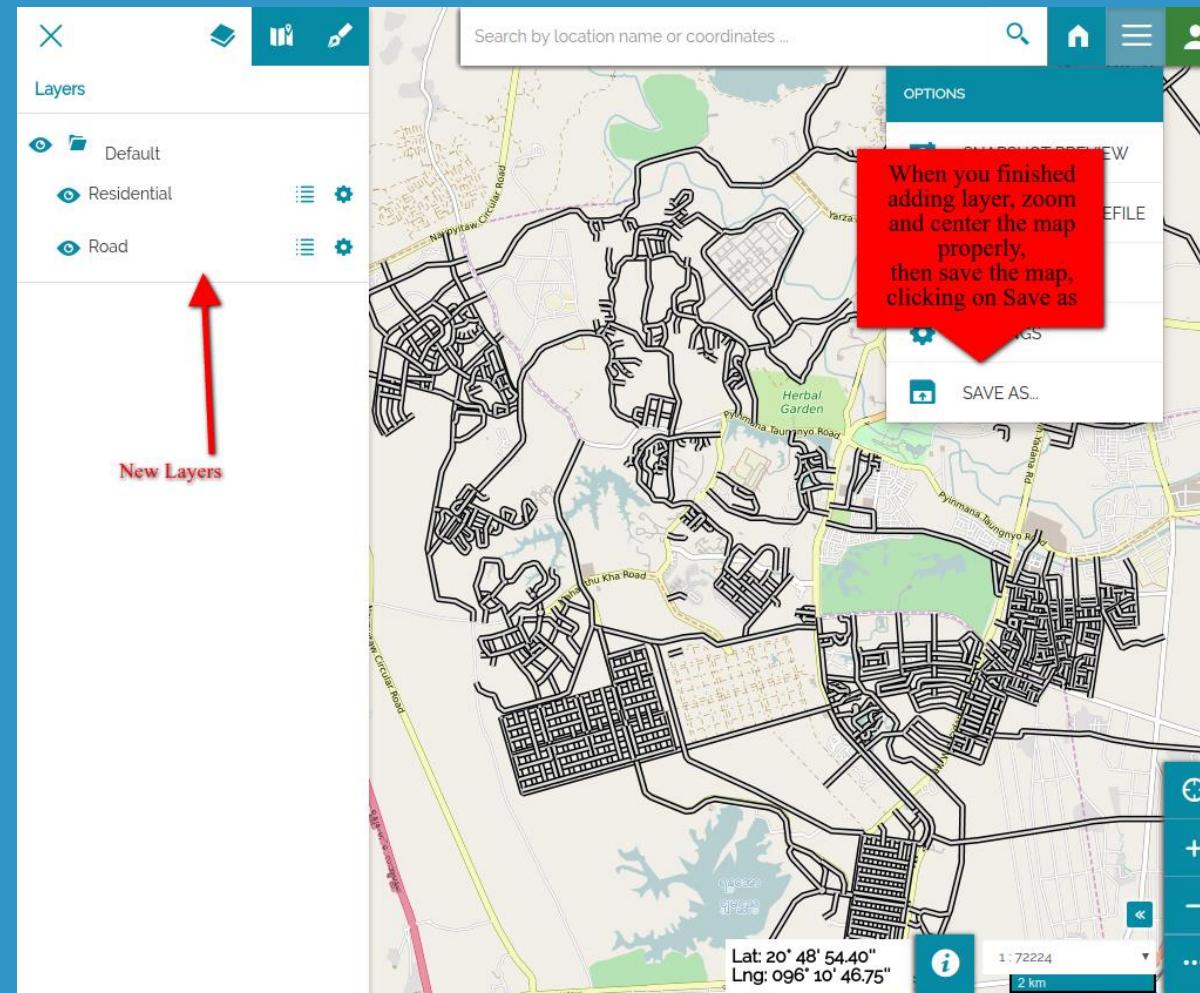
GRAY\_H



# Building a WebGIS



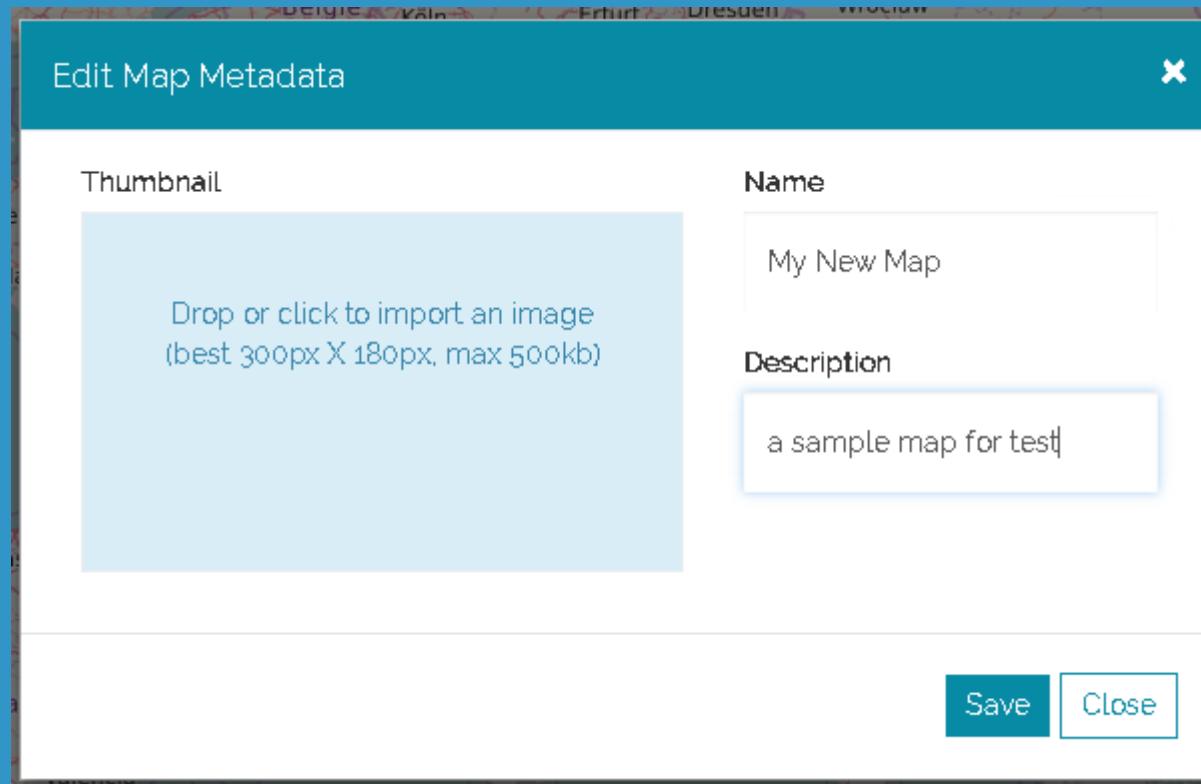
## Easy map publishing



# 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

A red arrow points from the text "New rule is added" up towards the "Add a rule..." button. Another red arrow points from the text "Click on save to apply changes" to the "Save" button.

## Demo Time

<http://demo.geo-solutions.it/mockups/mapstore2>

<https://dev.mapstore2.geo-solutions.it/mapstore>

<https://dev.mapstore2.geo-solutions.it/mapstore/#/viewer/leaflet/2940>





# Bells and whistles



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



## Bells and whistles



**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



# Bells and whistles



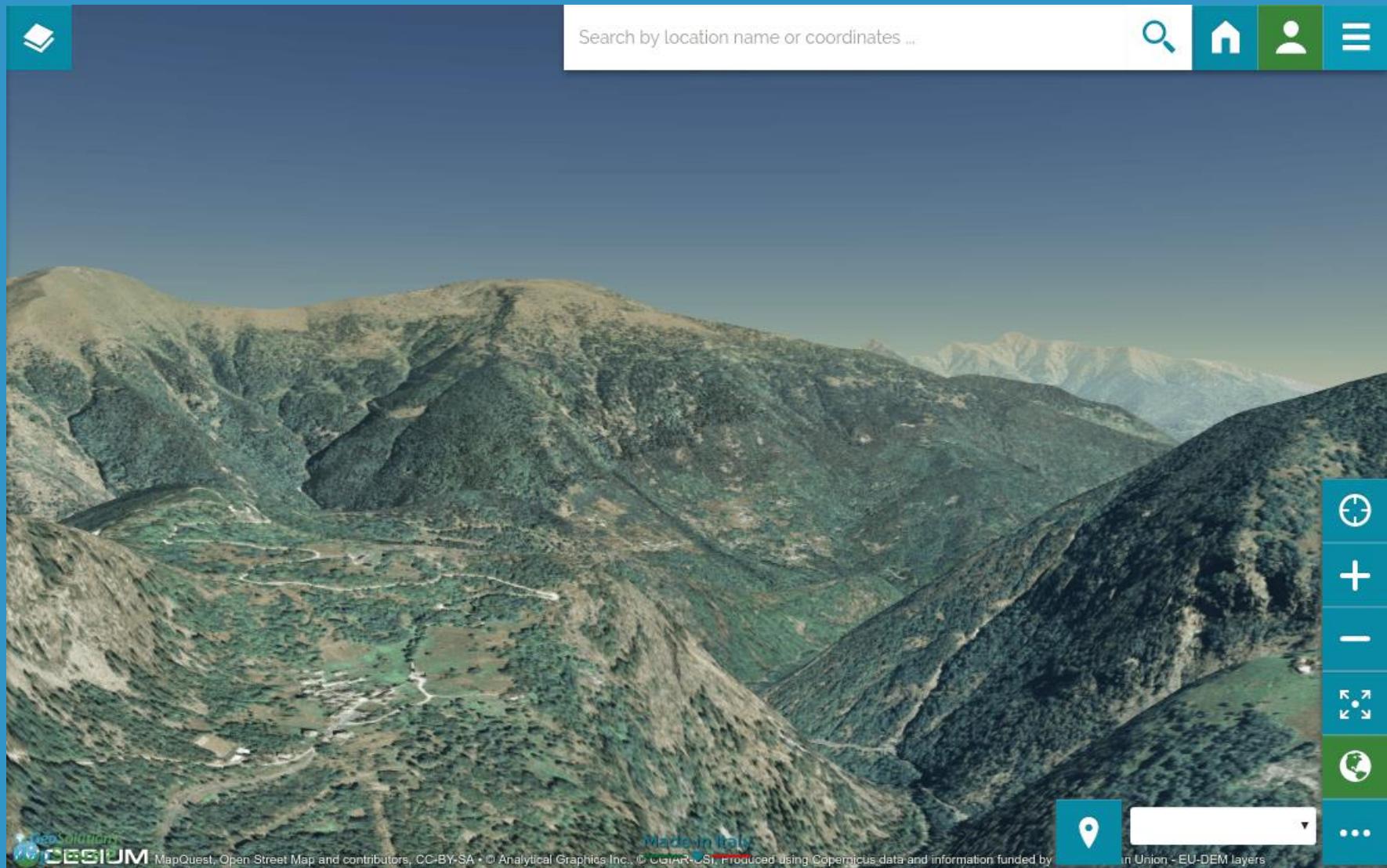
- MapStore2
  - *Plugins infrastructure*
  - Mapping components and state handling
  - Themes (with Less)



## Recent Work

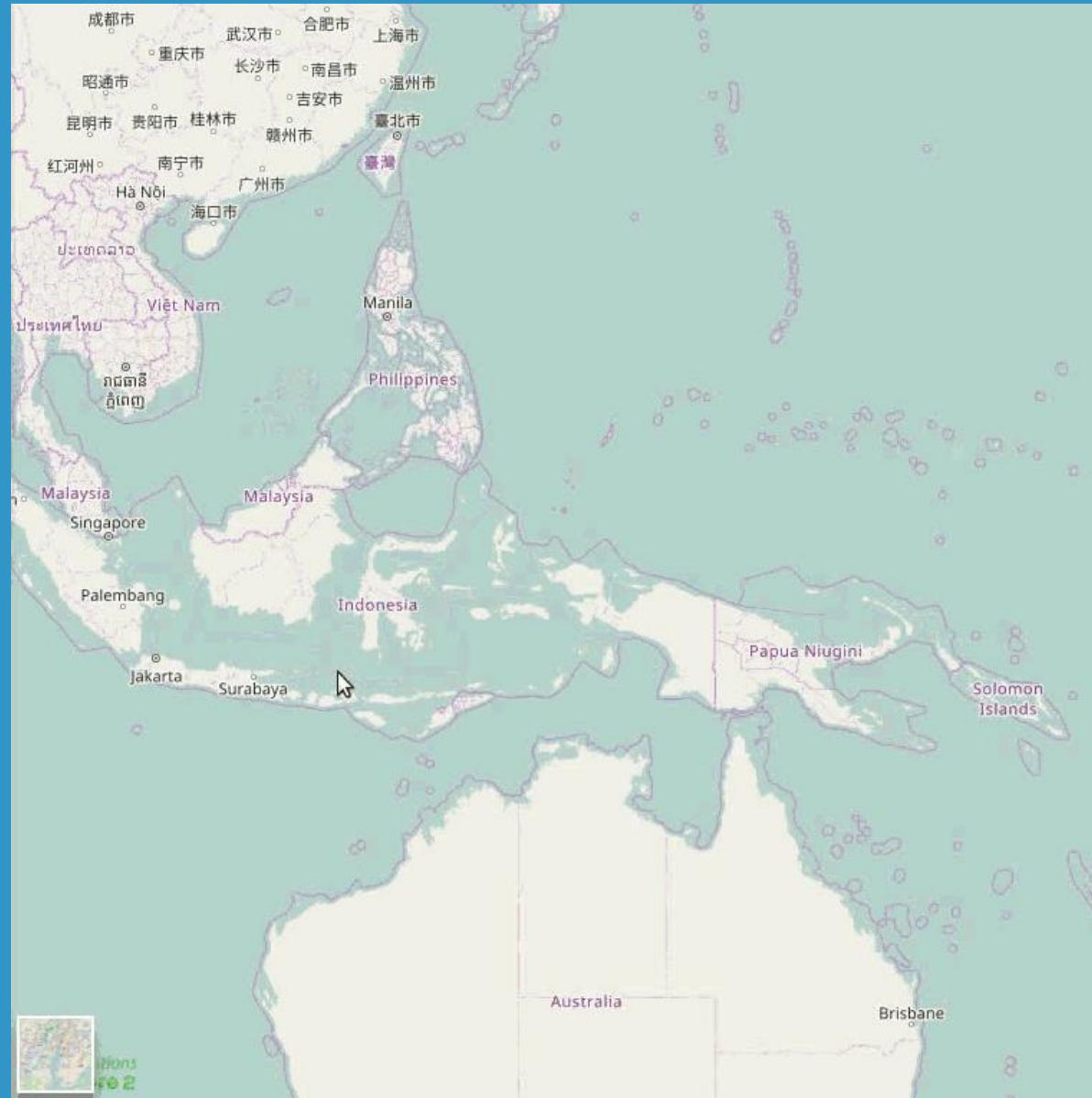


# Better 3D integration





# New Background Selector

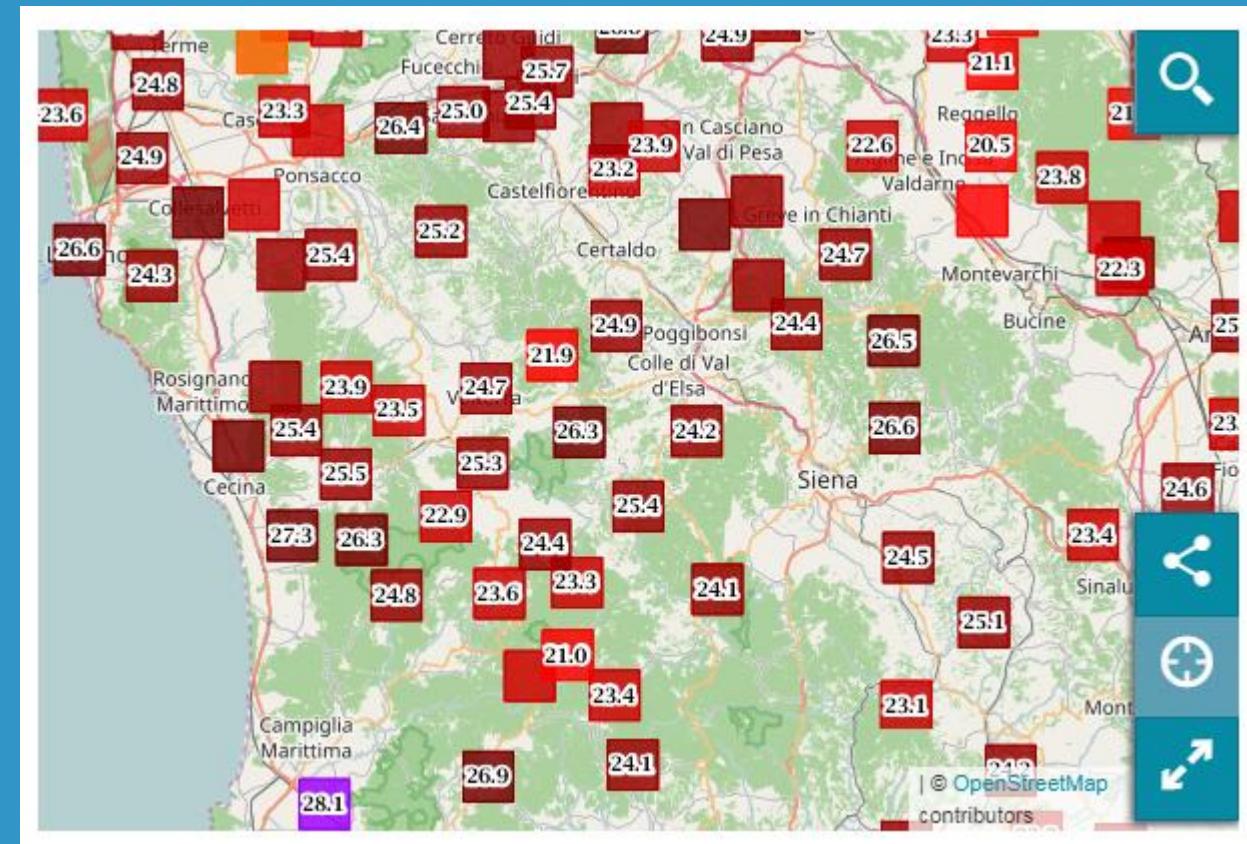




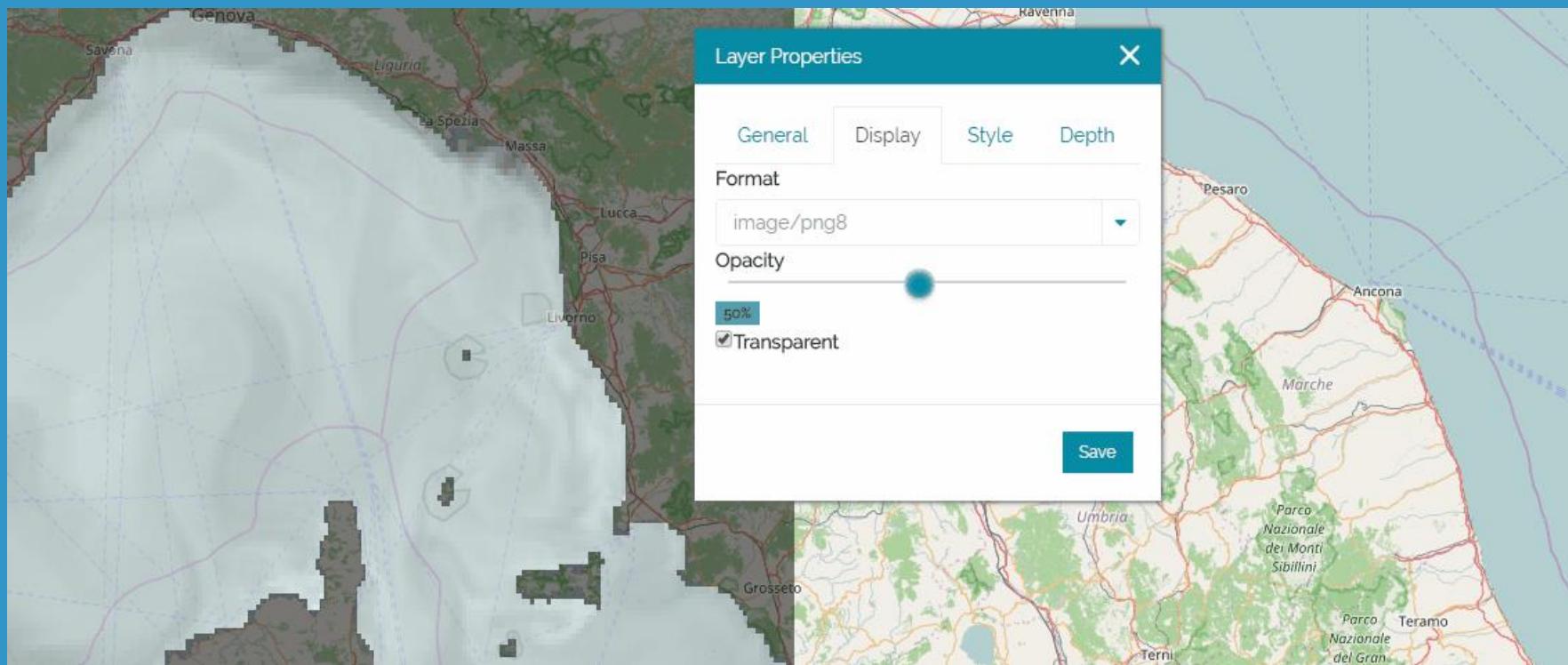
# JS API for embedded maps



```
1 | <div id="container"></div>
2 |
3 | MapStore2.create('container', {
4 |   plugins: ["Map"]
5 | });
6 | 
```



# Support for dimensions in WMS





# Better support for themes



## Using Bootstrap and Less

Configure application plugins

Choose a map library

Leaflet

Choose a theme

default

Live edit your own theme

```

14 @ms2-color-text-placeholder: #999999;
15 @ms2-color-text: #333333;
16
17 @ms2-color-disabled: #5C9FB4;
18 @ms2-color-text-disabled: #ffffff;
19
20 @ms2-color-primary: #078aa3;
21 @ms2-color-info: #5a9aab;
22 @ms2-color-success: #398439;
23 @ms2-color-warning: #ebbc35;
24 @ms2-color-danger: #bb4940;
25
26 @ms2-color-primary-hover: lighten(@ms2-color-primary, 10%);
27 @ms2-color-info-hover: lighten(@ms2-color-info, 10%);
28 @ms2-color-success-hover: lighten(@ms2-color-success, 10%);
```

Save & Load

Save

Load

---

Plugins

- Live edit your own theme
- Map
- Mouse
- MapLoading
- ZoomAll
- ZoomIn
- ZoomOut
- Search

Apply

# Documentation Site



The screenshot shows the MapStore 2 user interface. On the left is a dark sidebar with a search bar at the top. Below the search bar is a list of components and epics. Components include: .selectSearchItem, .setHighlightedFeature, .textSearch, .FullScreenButton, .GlobeViewSwitcherButton, .GoFullButton, .ToggleButton, .earchBar, .NotificationContainer, .PluginsContainer, and .AutocompleteField. Epics include: .SELECTEDFEATUREVIEW and .epics.

☰ Guides ▾ Reference ▾ Download ▾ GitHub

🔗 components.buttons.FullScreenButton : class static

Toggle button for fullscreen. Wraps #components.buttons.ToggleButton with some defaults

Property	Type	Description
active	bool	the status of the button
activeTooltip	node	the tooltip to use on mouse hover
btnConfig	object	the configuration to pass to the bootstrap button
btnType	btnType	one of 'normal', 'image'
css	object	style object for the component
defaultStyle	string	the bootstrap style when not pressed
glyphicon	string	the icon name
help	string element	the help text
id	string	an id for the html component



## Downstream Products



# Neftex WebMapper



**HALLIBURTON**  
Landmark

**Web Mapper**

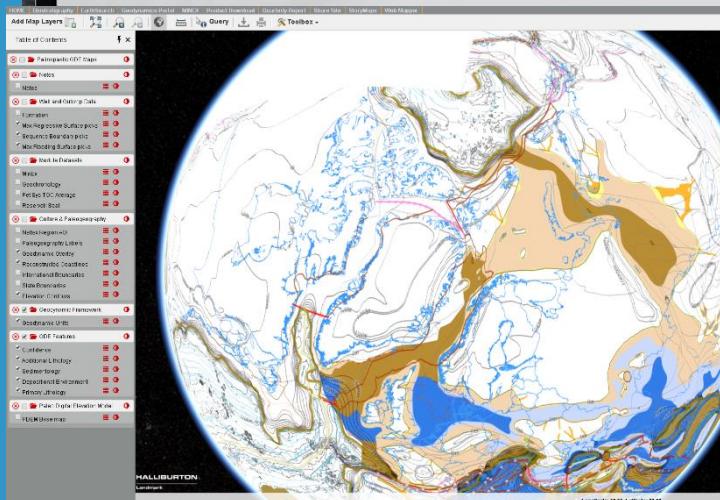
Choose one of these predefined template maps or "Empty map" to launch the interactive web mapper. A help guide can be found [here](#)

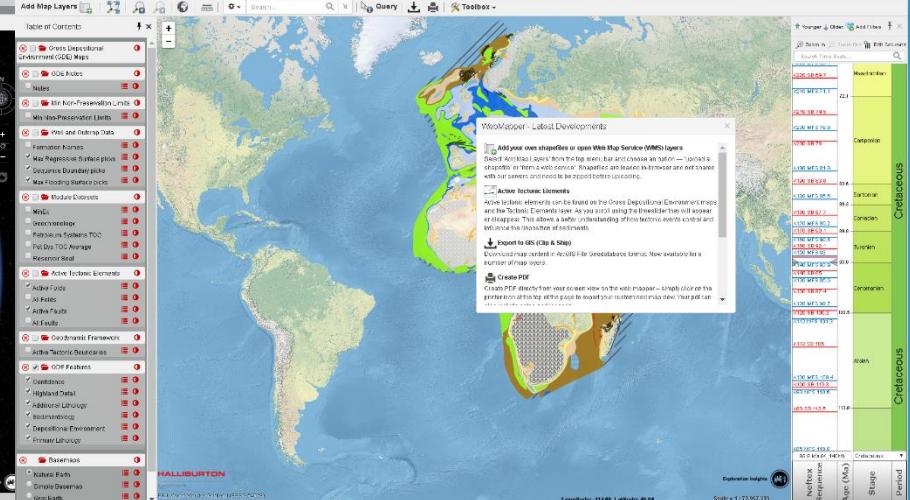
**Present Day Content**

- Empty Base Map**  
Start with an empty map in the present day
- Gross Depositional Environment Maps**  
Included within this base map are the layers required for displaying present day Gross Depositional Environment Maps, preservation extents are also available. Use the timeslider to choose the surface of interest.
- Reports and Summaries**  
Hyperlinked spatially tagged reports and thematic map summaries including StoryMaps, Insight Articles, Biostratigraphy Basin Reports and Basin Product Guides.

**Geodynamics Content**

- Palinspastic GDE Maps**  
A geodynamic reconstruction of depositional facies belts and constraining datasets from their present-day distribution, including a global paleo digital elevation model representing surface topography and bathymetry
- Palinspastic GDE Maps - Low Bandwidth Version (beta)**  
A core set of grouped layers. Optimised for slow internet connections







# CSI Piemonte SIRA



SP SISTEMA CONOSCENZE AMBIENTALI

LISTA MAPPA 1

Profile: B

Layers

- Default
- Selected Feature
- Topology

Oggetti

- AUA - Impianti di recupero energia e materia

Opacity

100%

X: 715,364.18  
Y: 5,718,406.81

1 : 2311167

50 km

OpenStreetMap permissive license



# CSI Piemonte SIRA



SP SISTEMA CONOSCENZE AMBIENTALI

Find in the dataset

Dataset  
AUA - IMPIANTI DI RECUPERO ENERGIA E MATERIA

ATTRIBUTE FILTER

Match all of the following conditions:

Provincia = ALESSANDRIA

+Add Condition    +Add Group

SPATIAL FILTER

Search    Reset

LISTA MAPPA 1

Profile: B

Geneve Valais - Wallis Ticino Sondrio

Valea d'Aosta/ Vallée d'Aoste Parco Nazionale del Gran Paradiso

Grenoble Parc national des Ecrins (coeur)

Aosta Vercelli Novara

Piemonte Asti Cuneo

Monaco

Lecco Como Bergamo Monza Lombardia Brescia Cremona Parma Reggio nell'Emilia

Lodi Pavia

Geographical coordinates: X: 715,364.18 Y: 5718,406.81

Scale: 1 : 2311167

50 km

OpenStreetMap © OpenStreetMap contributors

The map displays a high density of red square markers in the central and southern parts of the Aosta Valley and Piedmont region, indicating numerous energy recovery installations. The map also covers parts of the Liguria region to the west and the Swiss cantons to the north. Labels for major cities like Genoa, Turin, and Milan are visible.



# CSI Piemonte SIRA



**SP SISTEMA CONOSCENZE AMBIENTALI**

**SEARCH RESULTS LIST**

[Back to search](#)

Risultati - Unkonwn

	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

Profile: B...  
X: 715,364.18  
Y: 5,718,406.81  
1 : 231116  
50 km  
Screenshot  
È stato ag...  
tuo Dropbox  
OpenStreetMap



# CSI Piemonte SIRA



SP
SISTEMA CONOSCENZE AMBIENTALI
LISTA MAPPA 1

SEARCH RESULTS LIST
X

[Back to search](#)
[Profile: B...ura dell'ad...Brenta](#)

Risultati - 7859

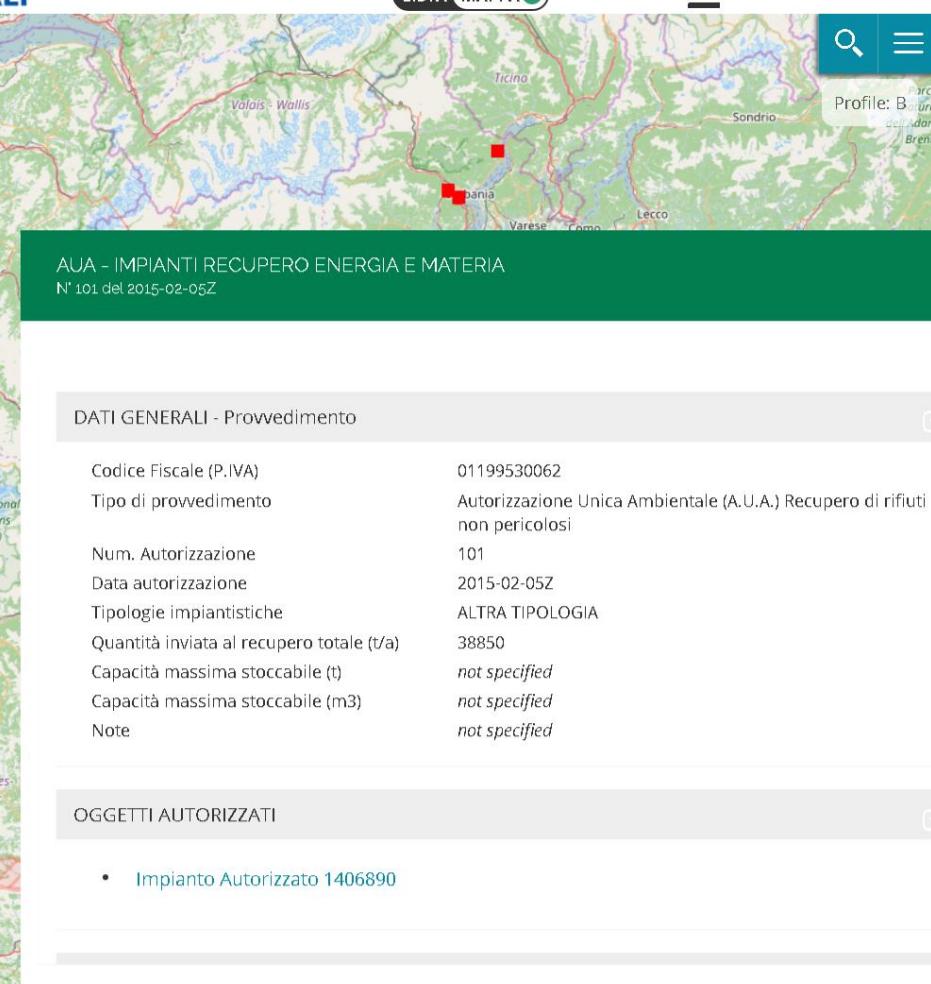
Codice SIRA	Codice fiscale ...	Comune	Autorizzazioni ...
1406944	00109880500	Novi Ligure	Recupero di rifiut...
1406890	01199530062	Frassineto Po	Recupero di rifiut...
1407023	00435070065	Silvano d'Orba	Recupero di rifiut...
1407038	00865120067	Ticineto	Recupero di rifiut...
1407042	00932510043	Tortona	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 [\[>\]](#)

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



**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 stoccativa (t)
not specified

Capacità massima stoccativa (m<sup>3</sup>)
not specified

Note
not specified

OGGETTI AUTORIZZATI

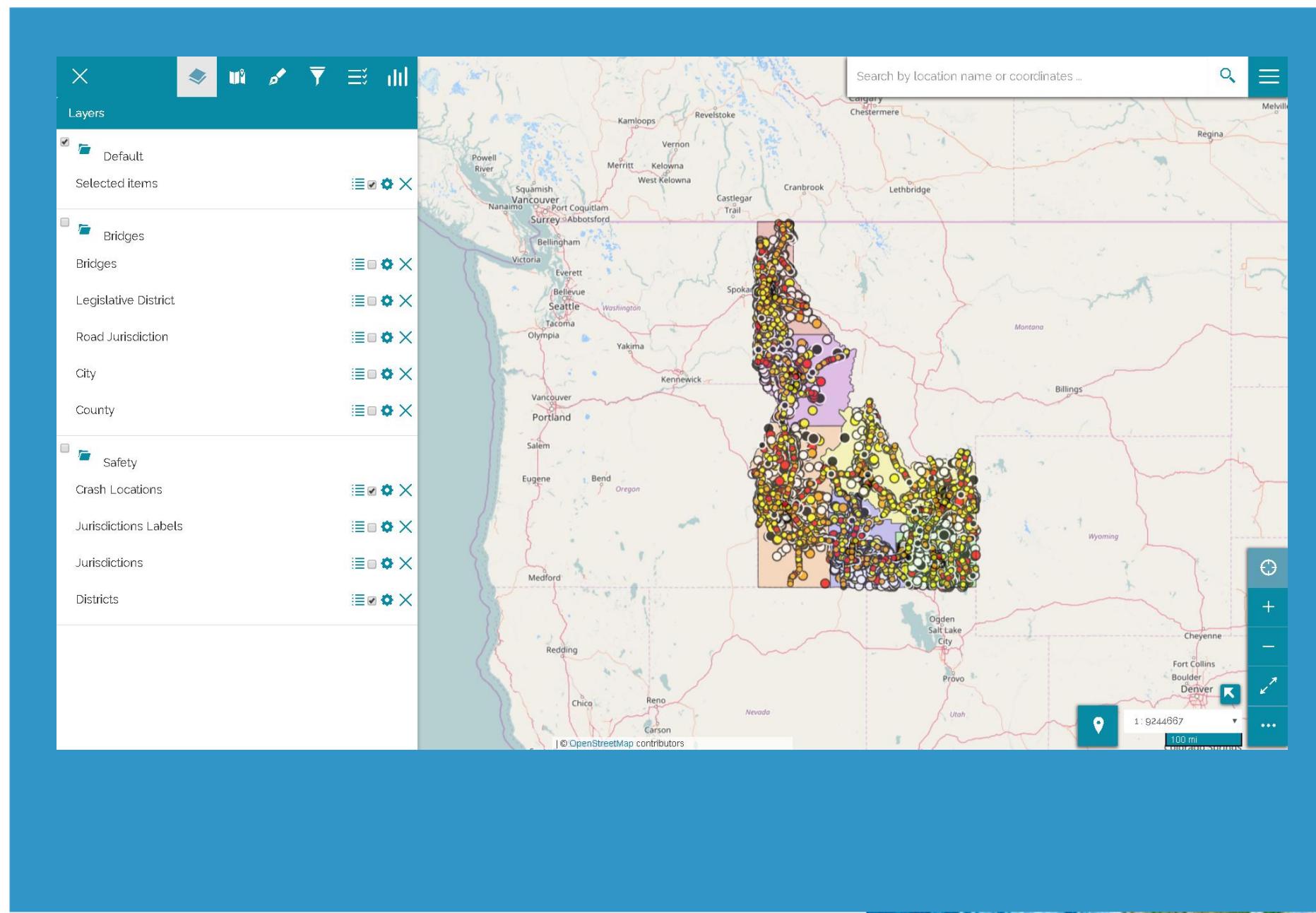

• Impianto Autorizzato 1406890


# Idaho Local Highway Technical Assistance Council



# GeoSolutions

your one-stop-shop for geospatial open source software

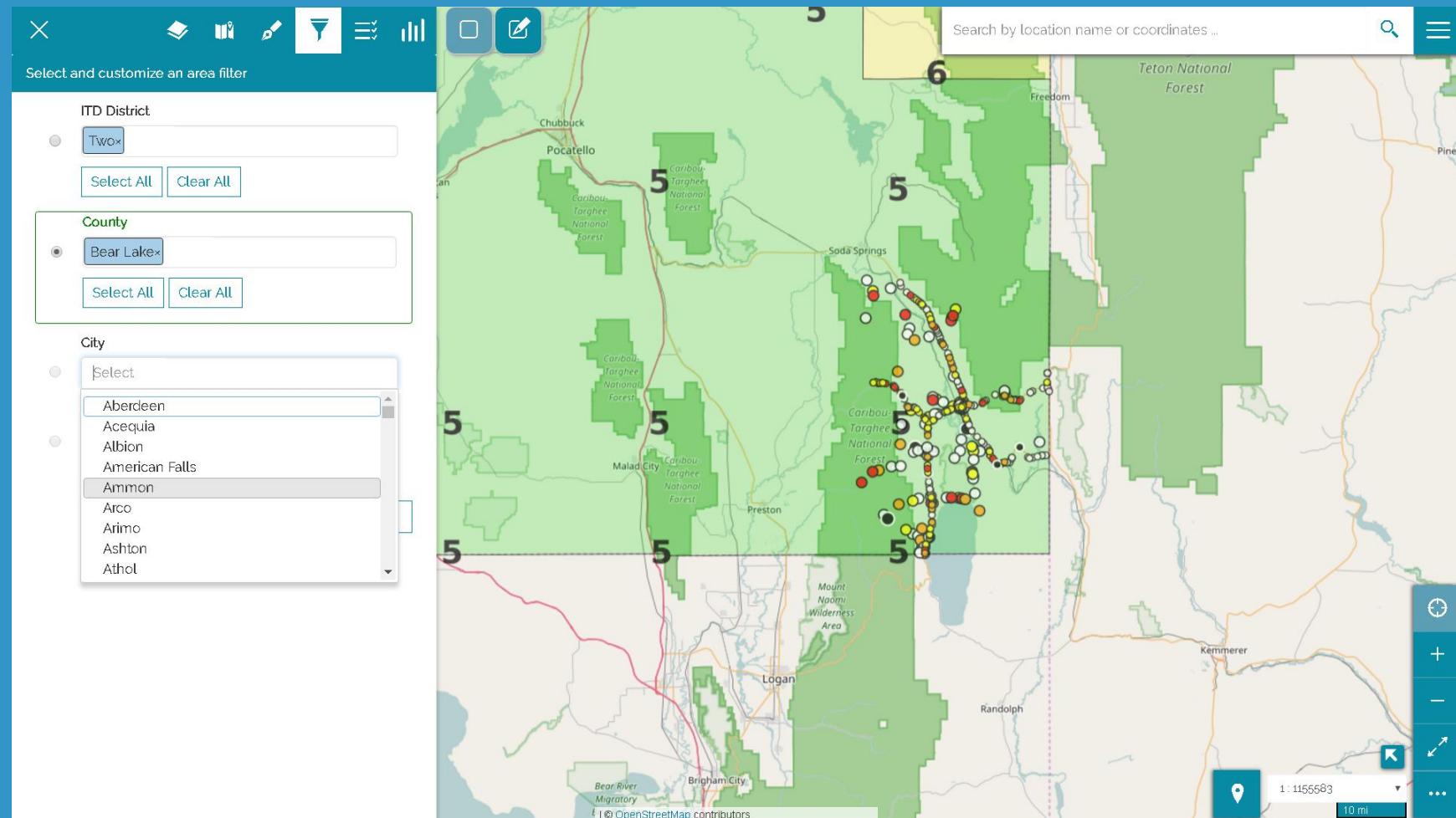


# Idaho Local Highway Technical Assistance Council



# GeoSolutions

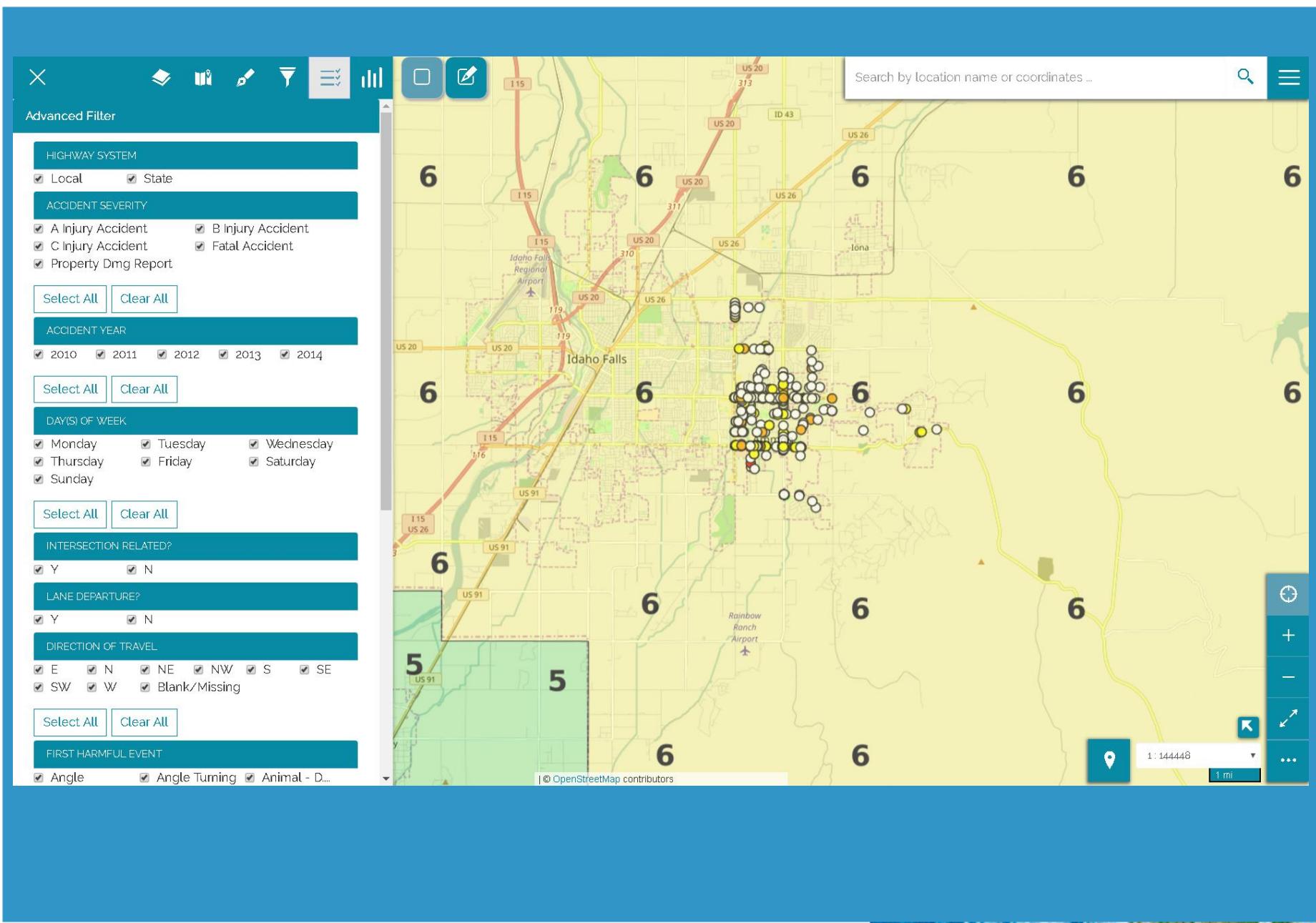
your one-stop-shop for geospatial open source software



# Idaho Local Highway Technical Assistance Council



**GeoSolutions**  
your one-stop-shop for geospatial open source software





# Idaho Local Highway Technical Assistance Council



**Statistics**

**DOWNLOAD AND STATISTICS**

Select download format: CSV

All: 108472  
Selected: 202  
Highlighted: 0

All Crashes in selected area(s): 507  
Local Crashes in selected area(s): 507  
Shown on map (filtered): 507

**CRASH LOCATIONS**

[Clear Selections](#)

Search by location name or coordinates ...

Map showing crash locations in Idaho Falls, Idaho. The map displays major highways like US 20, US 26, and US 91, along with local roads and streets. A large cluster of crash locations is highlighted in blue in the central business district area. A legend on the right indicates crash types: red for fatal, orange for serious injury, yellow for minor injury, and grey for property damage.

Serial Number	Highway System	Severity	Accide.. Year	Accident Date	Accide.. Time	Day of Week	Intersect Related	Street 1	Street 2	Reference Street	Dist from Intersect	Road Type	Direction of Travel	Driver Action	Vision Obstruction	Impaired
10C255997	local	C Injury Accident	2010	2010-01-01	21:35	Friday	true	Eagle Dr	Derrald Ave		200 ft E	2-Way & No...	S	Going Straight	None	false
10C255969	local	Property Dmg Report	2010	2010-01-05	14:58	Tuesday	false	17th St	Driveway	25 East Rd	200 ft E	2-Way & 2...	W	Turning Left	None	false
10C256672	local	C Injury Accident	2010	2010-01-15	14:10	Friday	false	17th St		Hilt Rd	100 ft E	2-Way & 2 ...	W	Going Straight	None	false
10C257510	local	B Injury Accident	2010	2010-01-25	17:21	Monday	true	Curlew Dr	Chasewood...		200 ft E	2-Way & No...	S	Going Straight	None	false



# NPA Terrain Explorer



CGG  
Paragon for Geoscience

search for projects...

Empty Project

Create a new project

Sample: SeepExplorer 2

Sample project for seep explorer 2

Sample: Land Classification

Sample land classification project

Sample: DEM

Sample DEM project

Seep Explorer

RSF5

Correct Raster Processing

This maps shows the result of correctly preprocessing raster data in order to remove collars.

Alternative Styles

This project shows a layer with an alternative style.

<< < 1 > >>

Items 1-6 of 6



# NPA Terrain Explorer



Import Data

Access Rules

drop files here to create a new importing session

target workspace: terrain

create a new workspace: New workspace name... Create

#	Status	Actions
0	COMPLETE	X
2	COMPLETE	X
3	COMPLETE	X
4	COMPLETE	X
5	COMPLETE	X

CGG  
Passion for Geoscience

CGG's NPA Satellite Mapping group is a world-leading supplier of satellite images, multi-client products and bespoke mapping services.



# NPA Terrain Explorer



CGG  
Passion for Geoscience

Import Data     Access Rules

drop here files to add it to this session

target workspace:  
terrain

Import Sessions / Session 4 / Package 0

Import Package

General Info	Original File	Target Store
Status: COMPLETE Update Mode: CREATE	File Name: RSF-5 - DEM.tif Format: GeoTIFF	Store Type: GeoTIFF Store Name: RSF-5 - DEM1

Layer

name: RSF_5...DEM1
title: RSF-5 - DEM
description: Generated from GeoTIFF

Trasformations Chain

#	
0	GdalWarpTransform
1	GdalAddoTransform



# NPA Terrain Explorer



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Passion for Geoscience

Import Data

Access Rules

Filters

Role User Service Request Workspace Layer

Rules

+

	Role	User	Service	Request	Workspace	Layer	Access
<input type="checkbox"/>	*	*	WFS	TRANSACTION	*	*	DENY
<input type="checkbox"/>	*	*	WFS	LOCKFEATURE	*	*	DENY
<input type="checkbox"/>	*	*	WFS	GETFEATUREWITHLOCK	*	*	DENY
<input type="checkbox"/>	*	*	WCS	*	*	*	DENY

<< < 1 > >>

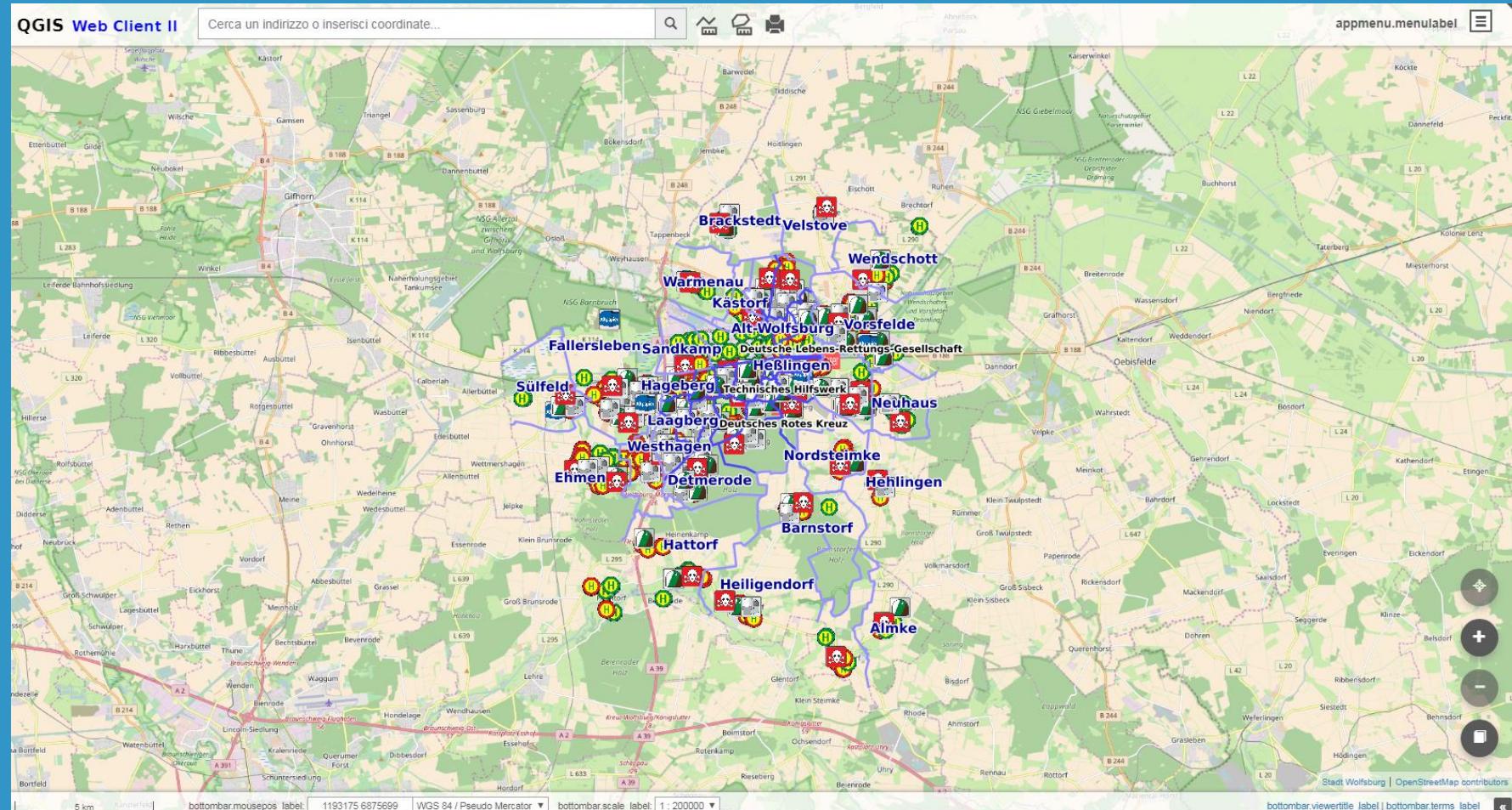


CGG's NPA Satellite Mapping group is a world-leading supplier of satellite images, multi-client products and bespoke mapping services.





# SourcePole QWC2





# Roadmap





# MapStore2 future



## Feature Editing (geometry and attributes)

The screenshot shows the MapStore2 feature editing interface. On the left, there's a sidebar with map settings like 'New Map Name' and 'Default'. The main area features a map with a yellow polygon selected. A search bar at the top right says 'Search by location name or coordinates ...'. Below the map is a toolbar with icons for edit, filter, zoom, and more. To the right of the map is a table titled 'Nowhere Town' showing two building features:

	id	type	category
0	0	building	office
1	1	building	service

At the bottom, it says '1 to 2 of 6' and 'Page 1 of 3'.



# MapStore2 future



## Renewed Catalog

The screenshot shows the MapStore2 interface with a renewed Catalog. On the left, there is a map of the Western United States with state abbreviations (WA, OR, ID, MT, WY, NV, UT, CO, CA, AZ, NM) labeled. A yellow callout box points to the burger menu icon in the top-left corner of the map area, with the text: "Open the catalog from burger menu (to evaluate the access directly from the TOC)". Another yellow callout box points to the search bar at the top right of the map area, with the text: "The catalog will start loading the first page of the results from the default catalog". To the right of the map, there is a sidebar titled "Catalog" containing three catalog items, each with a title, a preview image, and a "more" button. The titles are "Title", "Title", and "Title", and each has a short description of placeholder text. At the bottom right of the sidebar, there are navigation arrows for the catalog list.

Open the catalog from burger menu (to evaluate the access directly from the TOC)

The catalog will start loading the first page of the results from the default catalog

Catalog

Search by location name

WA

OR

ID

MT

WY

NV

UT

CO

CA

AZ

NM

Los Angeles

Made in Italy

1-3 results of 10

Search

Title

Title

Title

X

+

>

+

>

+

>

+

<

# MapStore2 future

- More documentation
- More examples
- MapStore2 in the cloud
- More plugins and components



# Resources

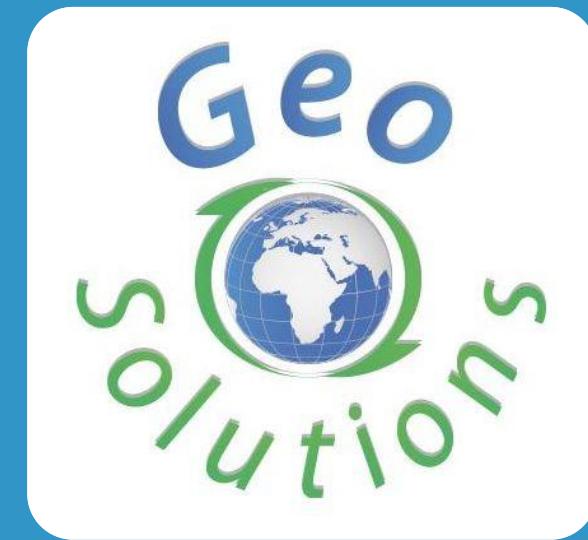


- MapStore2 documentation  
<https://dev.mapstore2.geo-solutions.it/mapstore/docs/>
- Developing in MapStore 2  
<https://docs.google.com/presentation/d/13eCrCdOBiorICPM1MTfsPP8QV9xMsFS2bRREb4QHCJ0/edit?usp=sharingMore>
- Introduction to RxJS and redux-observable  
<https://docs.google.com/presentation/d/1Ts-yZGc12VMr9oG8xMqwptUmMjdsKI2uZh4Mr5shYhA/edit?usp=sharing>

# That's all folks!



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your one-stop-shop for geospatial open source software



## Questions?

*[info@geo-solutions.it](mailto:info@geo-solutions.it)*