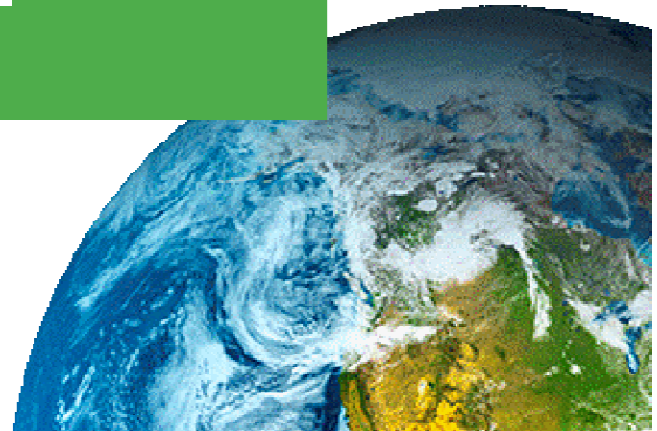




Building Interoperable SDIs with Open Source Products

Ing. Simone Giannecchini
Ing. Andrea Aime



Quick Facts



- **Founded in late 2006**
- **Expertise**
 - Image Processing, GeoSpatial Data Fusion
 - Java, Java Enterprise, C++, Python
 - JPEG2000, JPIP, Advanced visualization
 - Web Based Mashups, Mobile Solutions
- **Supporting/Developing FOSS4G projects**
 - MapStore, GeoServer, GeoNetwork
 - CKAN, GeoNode, GeoTools , ImageIO-Ext, JAI-Ext
- **Clients**
 - UN FAO (CIOK, FIGIS, NRL, FORESTRY, ESTG), UN WFP, World Bank, DLR, EUMETSAT, JRC, ARPAT, NATO CMRE
 - ITT-VIS, E-GEOS, GEOSMART, BOAB, SINERGIS, City of Prato, City of Florence, County of Florence, CSI-Piemonte, NWGEO, IGEA, AMBRERO, LIBEROLOGICO, Astrium UK, Neftex, MDA, etc...
- **<http://www.geo-solutions.it>**



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Our Offer



- **Enterprise Support Services**
 - Bug Fixing
 - Support
 - Customizations & New Features
 - 5 packages → different types of needs
- **Professional Training**
- **End-To-End Projects (Integration)**
 - Tell me what you need, I'll put it together for you
- **We take our core products and**
 - Bend them, twist them, embed them
 - Hammer them to make clients happy
- **FOSS4G Software is core for us**
 - Not simply use but develop and support

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Industries

Constructions
& Engineering

Real Estate

Smart
Mobility

Smart Cities

Earth
Observation

Meteorology
&
Oceanography

Defence

Natural
Resources

Emergency
Response

OpenData

PA &
Government

Utilities

Education

Education

Cultural
Heritage

Telecom

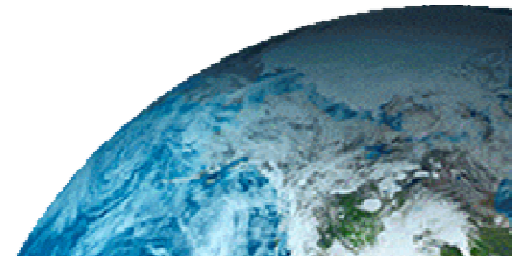
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Products

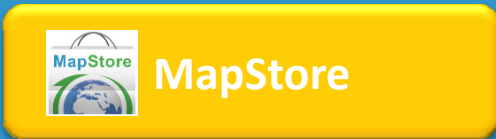
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Our Products



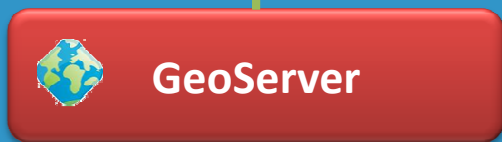
Mashups, Mobile



Metadata



Maps & Data



Tiles & KML



Metadata

Data & Styles

WMS



Ingest & Preprocess

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GeoServer



- **GeoSpatial enterprise gateway**
 - Java Enterprise
 - Management and Dissemination of raster and vector data
- **Standards compliant**
 - OGC WCS 1.0, 1.1.1 (RI), 2.0.1
 - OGC WFS 1.0, 1.1 (RI), 2.0
 - OGC WMS 1.1.1, 1.3
 - OGC WPS 1.0.0
- **A ton of Extension available**
- **Google Earth/Maps support**
 - KML, GeoSearch, etc.

GeoWebCache



- **Tile Oriented Geospatial Cache**
 - Java Enterprise
 - Maps Acceleration (10x to 100x)
- **Standards compliant**
 - OGC WMS 1.1.1, WMTS 1.0
 - TMS
 - WMS-C
- **Google Earth/Maps support**
- **Stand-Alone or Integrated in GeoServer**

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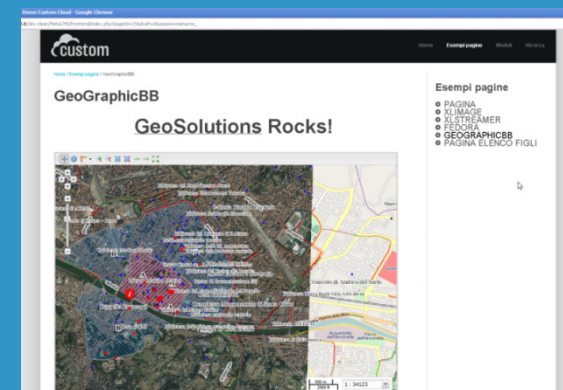
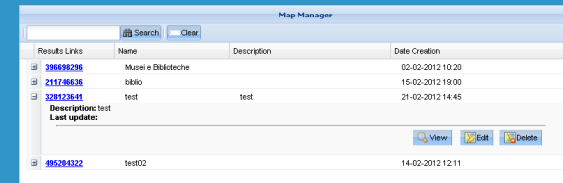
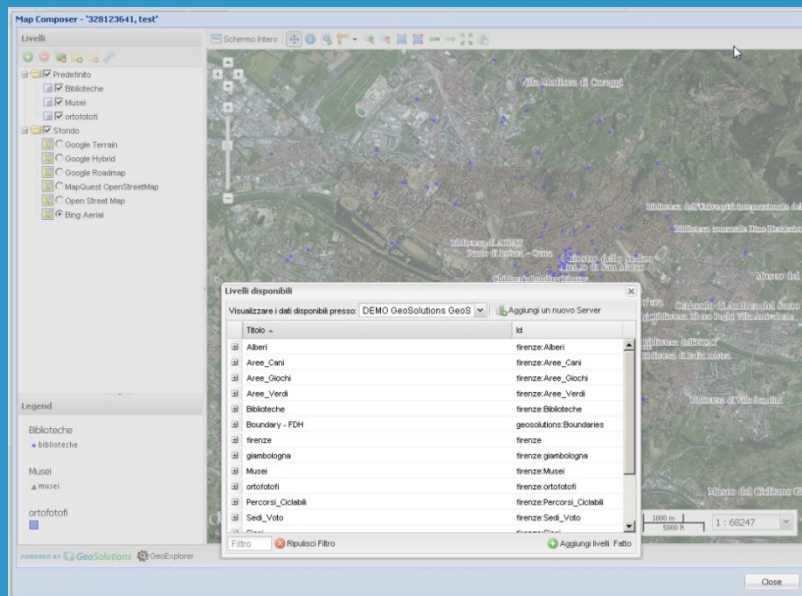


MapStore



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- Create, Manage, Share Stunning Maps easily
- Mashing-up various sources of data
- Inject markers and tracks with custom pop-up
- Embed in existing sites and portal
- Use it as a complete geoportal solution
- Android Mobile Client



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GeoNetwork

- (GeoSpatial) Catalog
 - Registry of Metadata
 - Repository
 - Enterprise Search Appliance
- GeoPortal
 - SDI entry point
 - Information Broker
- Metadata Editor
- Standards Based
- Implemented with Java Enterprise technologies



GeoCollect



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

BETA

GeoCollect

*Field based asset management
made simple!*



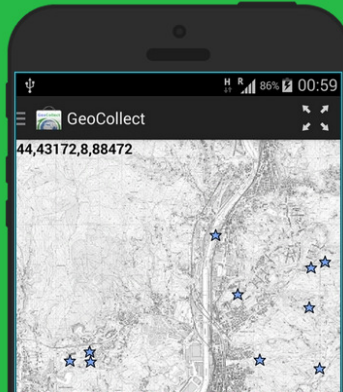
Stop wasting time!



Start
in Minutes



Available
in Cloud



*You have lots of assets?
GeoCollect can help!*

GeoCollect has been designed with scalability and performance in mind. It can be proficiently used to manage a handful of asset as well as thousands of them with no problems.

*Surveys are a nightmare?
GeoCollect can help!*

GeoCollect has the concept of Surveys at its core, as such we have built a comprehensive and flexible App that will allow you to work offline carrying along all the cartographic data you need. In case that was not clear you can do all your work in the field being OFFLINE!



GeoCollect

is proudly

made in italy

by



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your one-stop-shop for geospatial open source software

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Embracing FOSS4G



- **Select carefully the product**
 - Active, Large & Diversified Community
 - Availability of Professional Support
 - Account for resources to ramp up knowledge
 - Carefully evaluate what's there and what's not
 - Account for resources to join the community
- **When planning developments/deployments**
 - Stay away from forks & vampires
 - Interact with the community during design
 - Consider professional support services
- **Bear in mind that nothing is entirely free**
 - Account for the costs of adoption
- **Check licenses carefully** (then check again)

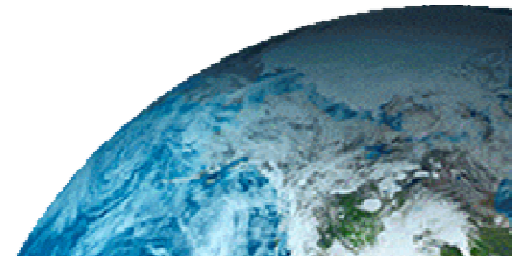
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MetOc & EO Data Dissemination

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LaMMa SDI

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The screenshot displays the LaMMa SDI web application interface. At the top, the header includes the 'CONSORZIO LaMMa' logo and the text 'Geoportale'. Below the header, there is a search bar and a 'Vista' dropdown menu. The main content area is divided into several sections:

- Left Panel (Layers):** A list of layers including 'Predefinito', 'Stazioni', 'Poggia cum. 15min (mm)', 'Poggia cum. 1 h (mm)', 'Poggia cum. 6 h (mm)', 'Pressione s.l.m. (hPa) - freq. oraria', 'Vento - velocità (m/s) e direzione (*) fr', 'Temperatura di rugiada (°C) freq. oraria', 'Umidità relativa (%) freq. oraria', 'Temperatura', 'NDVI', 'MODELLI', 'SATELLITE', 'Limiti Mondiali', 'Comuni Italia', 'Province', 'Regioni', 'Stati', and 'Stondo'. There are also options for 'Google Hyb', 'Google Terr', 'Google Roa', 'MapQuest', 'Open Street', and 'Bing Aerial'.
- Main Map:** A weather map showing temperature and precipitation data for 'Fri Nov 15 2013 10:00:00 GMT+0100 (CET)'. A legend on the right indicates 'Temperatura (°C) freq. oraria' with a color scale from -14.00 to 12.00.
- Top Panel:** Includes 'Log in', 'Language: English', and navigation tabs for 'Datasets', 'Organizations', 'Groups', and 'About'.
- Dataset Details:** A section titled 'arw_12km_Surface_wind_gust_surface_20150525T000000...' with a description: 'arw_12km_Surface_wind_gust_surface_20150525T00000000Z computed on 2015-05-25T00:00:00.000Z with elevation 0.0'. It includes a 'Show in Advanced Viewer' button and a map showing wind gust data for 'Mon, 25 May 2015 12:00:00 UTC' over a region including Morocco, Turkey, and the Black Sea.
- Resources:** A table with 'Additional Information' for the dataset, showing 'Field', 'Last updated', and 'Created' dates.

Field	Value
Last updated	May 25, 2015
Created	May 25, 2015

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LaMMa SDI

- Ingestion and preprocessing of
 - 3 Meteorological model 2 times a day (00 & 12 UTC)
 - WRF-ARW @ 12km over MED with ECMWF initdata
 - WRF-ARW @ 12km over MED with GFS initdata
 - WRF-ARW @ 3km over Italy with ECMWF initdata
 - GFS @ 50km from ECMWF
 - MeteoSat 2nd and 3rd generation data every 15 minutes
 - Radar data every 5 minutes
- Meteorological model
 - Acquire via FTP after each run
 - Transcode from Grib1 to a series of GeoTiff
 - Mosaic with support for time
 - Publish in GeoServer
 - Prepare metadata and register in GeoNetwork

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EUMETSAT Dissemination Platform

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The screenshot displays the EUMETSAT Dissemination Platform interface. The top section shows a satellite imagery map of the world, with a time selection of 2015-03-15 at 18:00:00. The left sidebar lists various data products, with 'NATURAL COLOR' selected. The bottom section shows another satellite imagery map of the world, with a time selection of 2015-05-25 at 15:01:00. The left sidebar lists various data products, with 'ORBITVIEW 124' selected. The bottom section shows a map of the world with a scale of 1:98M. The interface includes navigation controls, a search bar, and a footer with contact and legal information.

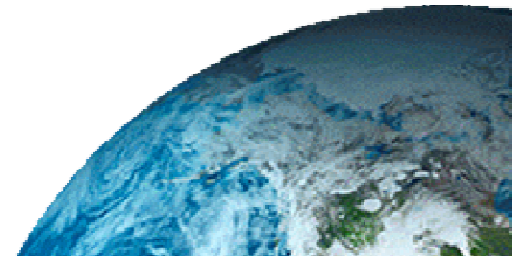
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(OpenData) GeoPortals

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Florence OpenGeoData Portal

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your one-stop-shop for geospatial open source software

The screenshot shows the Florence OpenGeoData Portal interface. At the top, there is a header with the 'OpenData' logo and the text 'I dati aperti del Comune di Firenze'. Below the header, there are navigation tabs for 'Portale' and 'Vista', and a search bar labeled 'COSA?'. The main content area displays search results for 'ZONIZZAZIONE DEGLI ISTITUTI COMPRESIVI SCOLASTICI STATALI (INFANZIA, PRIMARIA E SECONDARIA DI PRIMO GRADO)'. The results include a description of the data and a map showing the distribution of schools in Florence. The interface also includes a sidebar with filters and a metadata explorer at the bottom.

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data.fao.org

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 your one-stop-shop for geospatial open source software

The screenshot shows the data.fao.org website interface. At the top, there's a navigation bar with links like 'About FAO', 'In Action', 'Countries', 'Themes', 'Media', 'Publications', 'Statistics', and 'Partnerships'. Below this is a search bar and a 'Data' section with sub-links for 'DATA', 'Statistics', 'Maps', 'Pictures', and 'Tags'. The main content area features a large image of a farmer in a field, with the heading 'Crops, National Production (FAOSTAT)' and a brief description: 'The crop statistics provided for 173 products, the area harvested, yield, production and seed quantity.' Below the main content are several widgets: 'Statistical Data Warehouse', 'Maps (232355)' with a list of map categories, and 'Databases (18)'. On the right side, a technical architecture diagram is overlaid, showing the following layers:

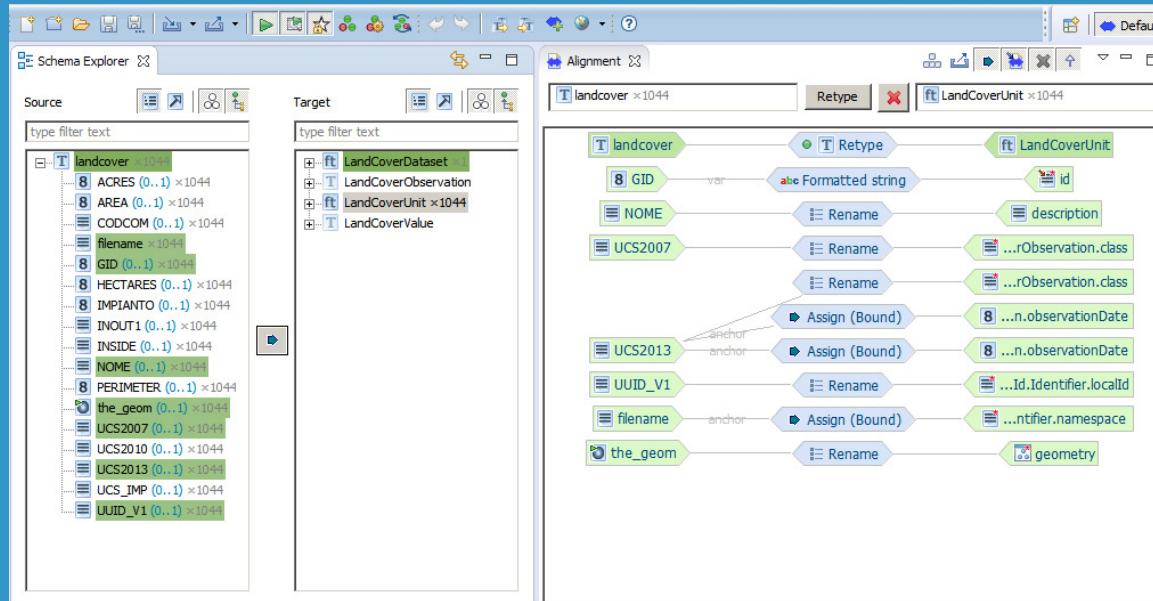
- front-end layer:** Contains a 'Portlet container (Liferay)' which houses 'new KIDS-3g (?)' (with sub-components 'Control Panel' and 'Map & Data Browser'), 'Portlet, Javascript, Flex components', and 'Custom Applications (i.e: GLW, etc)'.
- service layer:** Contains 'Workflow Services' and 'Catalog Services' on the left, and 'Custom Services (i.e: GLW, etc)' on the right.
- ESB (Mule ESB / Apache ServiceMix / JBoss ESB):** A central layer connecting the services.
- data layer:** Contains 'Content Repository Services', 'ETL Jobs (Talend OS)', 'Multidimensional Data Services', 'GIS Services (Geoservers)', 'Data Analysis Services (Pentaho)', and 'Common Services (Security, log, cache, etc)'. Below this is a 'Staging Area' with 'Content Repository', 'RDBMS', and 'Multidimensional Data Model (DWH)'. A note indicates '* metadata + data'.

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INSPIRE Download & View Services

- Improving Complex Schema Support
 - Automatic Configuration from HALE
 - Export in multiple formats (e.g. Spatialite)
 - Automation in GeoServer for periodic ingestions
 - Automation in GeoServer for periodic
 - Improving WMS Support

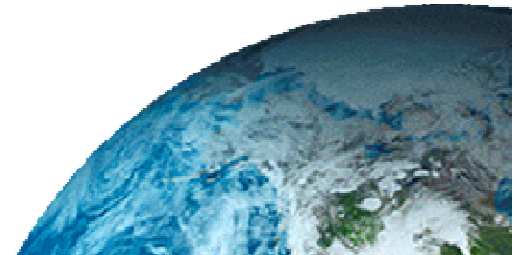


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Decision Support Systems

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UN FAO VME Database

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Food and Agriculture Organization of the United Nations | Vulnerable Marine Ecosystems Database
A global inventory of fisheries measures to protect vulnerable marine ecosystems in areas beyond national jurisdiction.

VME closed areas
Other access regulated areas
Bottom fishing areas

Year selection
Management Body/Authority (ies)
Change projection

© FAO, 2015

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UN FAO Crop Information Portal

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PAKISTAN AGRICULTURE INFORMATION SYSTEM
CROP Information Portal

Crop Data | Crop Status | AgroMet

Output Type: Data Chart Map

Season: Rabi (Nov) Kharif (May)

Area of interest:

Type: Province District

Commodity: Wheat

Reference Year: 2009

Range: 2000 - 2010

Variable: Area Production Yield

Unit: Production: 000 tons, Area: 000 hectares, Yield: kg/ha

[Generate Chart](#)

Layers | Legend

- Default
- Admin
 - Label
 - Populated Places
 - District Boundary
 - Province Boundary
- Meteo Stations
 - MeteoData
- Transportation
 - Roads
- Hydrology
 - Indus River
 - Rivers
- Land Cover
 - GlobCover 2009
 - GlobCover 2005-06

PAKISTAN AGRICULTURE INFORMATION SYSTEM
CROP Information Portal

Crop Data | Crop Status | AgroMet

Output Type: Data Chart Map

Season: Rabi (Nov) Kharif (May)

Area of interest:

Type: Province District

Commodity: Wheat

Reference Year: 2009

Range: 2000 - 2010

Variable: Area Production Yield

Unit: Production: 000 tons, Area: 000 hectares, Yield: kg/ha

[Generate Chart](#)

Pakistan - Crop Data - Commodity: WHEAT - Season: RABI - Years: 2000-2010

WHEAT - Chagai (BALOCHISTAN)

Year	Area (000 hectares)	Production (000 tons)	Yield (kg/ha)
2000	126.3	90.5	779.89
2001	126.3	90.5	779.89
2002	126.3	90.5	779.89
2003	126.3	90.5	779.89
2004	126.3	90.5	779.89
2005	126.3	90.5	779.89
2006	126.3	90.5	779.89
2007	126.3	90.5	779.89
2008	126.3	90.5	779.89
2009	126.3	90.5	779.89
2010	126.3	90.5	779.89

Source: Pakistan Crop Portal
 Date: 04/23/2013
 Area: Chagai (BALOCHISTAN)
 Commodity: WHEAT
 Season: RABI
 Years: 2000-2010
 Area mean: 160.63 (000 ha)
 Prod mean: 239.50 (000 tons)
 Yield mean: 1541.54 (kg/ha)

PAKISTAN AGRICULTURE INFORMATION SYSTEM
CROP Information Portal

Crop Data | Crop Status | AgroMet

Output Type: Data Chart Map

Season: Rabi (Nov) Kharif (May)

Area of interest:

Type: Province District

Commodity: Wheat

Reference Year: 2009

Range: 2000 - 2010

Variable: Area Production Yield

Unit: Production: 000 tons, Area: 000 hectares, Yield: kg/ha

[Generate Chart](#)

Pakistan - Crop Data - Commodity: WHEAT - Season: RABI - Years: 2000-2010

WHEAT - Sargodha (PUNJAB)

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NATO STO CMRE - IDA

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The screenshot displays the CMRE Integrated Decision Aid (IDA) software interface. The main window shows a map of a coastal region with a red overlay indicating a specific area of interest. The interface includes a 'Layers' panel on the left, a 'Control Panel' on the right, and a 'Details' window in the foreground. The 'Details' window shows the following information:

Property Name	Property Value
RUUID	8883ccc9-de62-4872-acde-8b1e...
attributename	batch_2013_05_10_17_52
outputurl	http://localhost:8080/geoserver/...
runBegin	2013-05-10T17:52:18Z
runEnd	2013-05-10T15:52:20.077Z
itemStatus	COMPLETED
itemStatusMessage	Instrumented by Server
wsname	spm
storename	batch_2013_05_10_17_52
layername	batch_2013_05_10_17_52
stylename	spm
srcPath	C:\Program F...
classification	NONE
attributeFilter	max2(spm.t...

The 'Control Panel' on the right shows search settings and a filter for 'nrc:slope' with a value of 2. The 'Layers' panel on the left lists various data layers, including 'Distance 1000 m', 'DEM aspect', 'DEM slope', and 'Bathymetry'. The 'Data Grids' table at the bottom shows the following data:

Features	Layer Attribute	SPM	Status	Attribute Name	Start Date
●	●	●	COMPLETED	AttributMatch_2013_06_21_15_22	2013-06-21T15:22:36Z
●	●	●	COMPLETED	AttributMatch_2013_06_21_15_21	2013-06-21T15:21:26Z

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NATO STO CMRE Asset Allocator

Sei passato a schermo intero. Esci da schermo intero (F11)

Title	Description	Name	Desc...	Progress	Start Execution Date	End Execution Date	Run Date	Owner	Visibility
Optimal Asset Allocator	Optimal Asset Allocator on demand	Optimal Asset A...	OAA ...	100%	2015-03-03T14:26:56.00+000Z	2015-03-03T14:27:20.00+000Z	2014-04-02T00:00:00.00+000Z	bourque	
		test after mainte...	test a...	100%	2015-02-19T15:51:24.00+000Z	2015-02-20T09:48:30.00+000Z	2015-01-20T00:00:00.00+000Z	gcimino	
		test after mainte...	test a...	100%	2015-01-29T11:08:30.00+000Z	2015-01-29T11:14:25.00+000Z	2015-01-20T00:00:00.00+000Z	gcimino	
		992	9992	100%	2015-01-22T17:38:56.00+000Z	2015-01-22T17:39:08.00+000Z	2015-01-21T00:00:00.00+000Z	admin	

Optimization Tool

Objective Weighting Coefficients

Average Risk: 0.8

Average Area Coverage: 0.1

Total Cost: 0.1

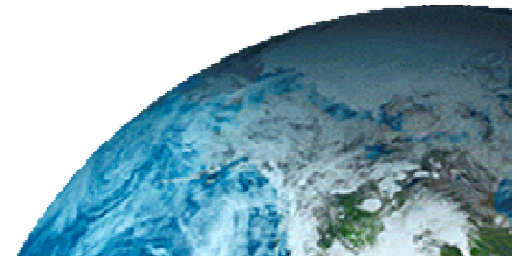
The sum of all the weights must be 1.0

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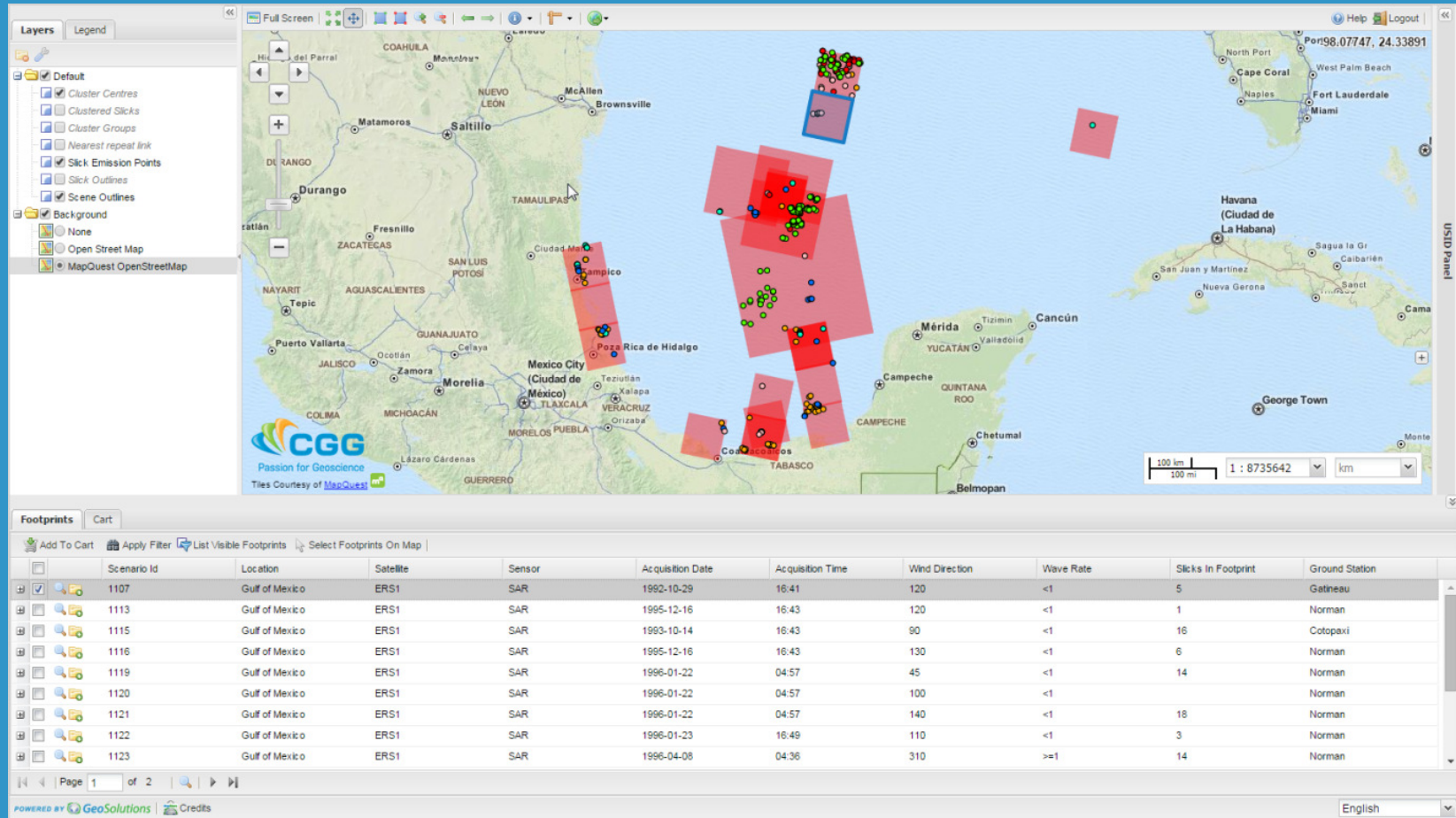


Subscription Based Geoportals

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Oil & Gas – Example 1



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Oil & Gas – Example 1

GeoSolutions
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The screenshot displays the GeoSolutions web application interface. At the top, there is a 'User Manager' section with a table of users and their roles. Below this, an 'Assign Areas' window is open, showing a world map with a red highlighted area in North America. To the right of the map, there is an 'Access Rules' table. At the bottom, a 'Footprints' table lists various data points with columns for Scenario Id, Location, Satellite, Sensor, Acquisition Date, Acquisition Time, Wind Direction, Wave Rate, Slicks in Footprint, and Ground Station.

Name	Role	Companies
admin	ADMIN	everyone
alex	USER	authenticated, e...
companyXuser	USER	CompanyX, aut...
guest	GUEST	everyone
npa	USER	authenticated, e...
npa2	USER	everyone, test...
test	USER	everyone, test...
test_user1	USER	CompanyTest, ...
user	USER	everyone

Company	Usage
CompanyTest	14607
CompanyTest	14608
CompanyX	23802
testGroup1	1107
testGroup1	1113
testGroup1	1115
testGroup1	1116
testGroup1	1119
testGroup1	1120
testGroup1	1121

Scenario Id	Location	Satellite	Sensor	Acquisition Date	Acquisition Time	Wind Direction	Wave Rate	Slicks in Footprint	Ground Station
1105	Gulf of Mexico	ERS1	SAR	1996-03-29	04:51	90	<1	2	Norman
1106	Gulf of Mexico	ERS1	SAR	1996-03-29	04:51	110	<1	2	Norman
1107	Gulf of Mexico	ERS1	SAR	1992-10-29	16:41	120	<1	5	Gatneau
1113	Gulf of Mexico	ERS1	SAR	1995-12-16	16:43	120	<1	1	Norman
1115	Gulf of Mexico	ERS1	SAR	1993-10-14	16:43	90	<1	16	Cotopaxi
1116	Gulf of Mexico	ERS1	SAR	1995-12-16	16:43	130	<1	6	Norman
1119	Gulf of Mexico	ERS1	SAR	1996-01-22	04:57	45	<1	14	Norman
1120	Gulf of Mexico	ERS1	SAR	1996-01-22	04:57	100	<1		Norman
1121	Gulf of Mexico	ERS1	SAR	1996-01-22	04:57	140	<1	18	Norman

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Oil & Gas – Example 2

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The screenshot displays the GEOWEB PORTAL interface for HARTENERGY. The main map shows a network of pipelines across the United States, with red and green markers indicating specific points of interest. A 'Feature Info' window is open, showing details for a selected pipeline:

Field	Value
Name	
MAP_LABEL	ANR
OPERATOR	ANR Pipeline Company
OWNER	TransCanada
SYS_NAME	
DIAMETER	20
SYS_TYPE	Transmission
INTERSTATE	Y
RATE_ZONE	4.5 W

Below the map, a 'Results' table lists pipeline data:

Point Type	DRN	Prop Name
R	153800	ANRPL STORAGE
R		SANDWICH NO5
R	226837	DEFIANCE SOU
R	9605827	SEM/NORTH O
T	229630	Southwest Main
R	277972	ALLIANCE/ANR
T	1209589	SEMI IN OF SH
R	226834	MH & ALST SAIL
R	226831	MLN (NORTH O)

The dashboard on the right, titled 'ANR Pipeline Company - Transport Customers', features several pie charts and data lists:

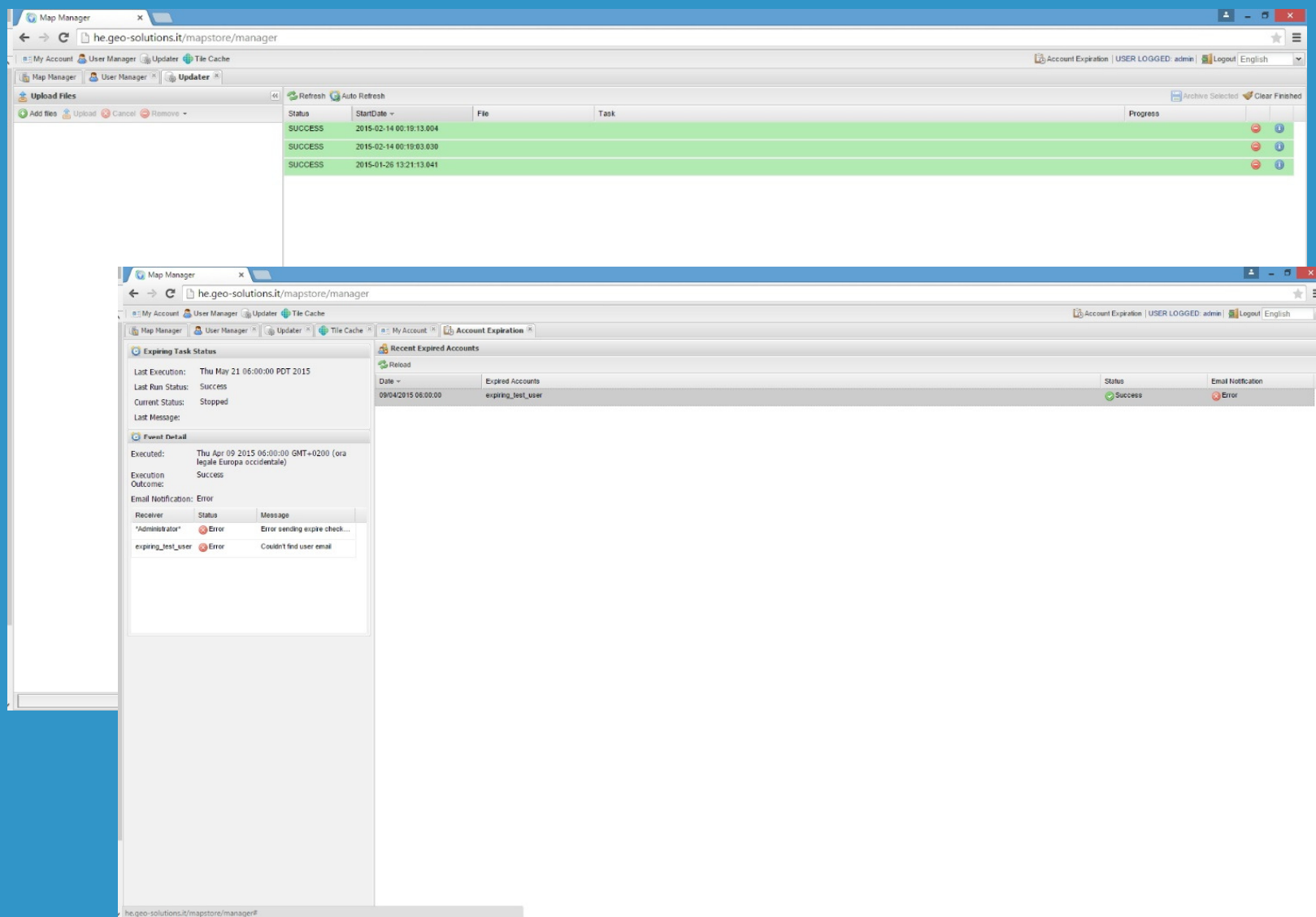
- Utility/Power Gen:** 1,662,762 (Total contracts as of 2013)
- Trader/Marketer:** 860,978
- Producer:** 577,181
- Industrial:** 77,188
- Transmission:** 75,796

Additional charts show data for Shipper, Producer, Industrial, and Transmission categories, each with a list of companies and their respective values.

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Oil & Gas – Example 2



The screenshot displays the Map Manager web application interface. The top window shows a table of upload logs with the following data:

Status	StartDate	File	Task	Progress
SUCCESS	2015-02-14 00:19:13.004			
SUCCESS	2015-02-14 00:19:03.030			
SUCCESS	2015-01-26 13:21:13.041			

The bottom window shows the 'Account Expiration' section, including 'Expiring Task Status' and 'Recent Expired Accounts'.

Expiring Task Status

- Last Execution: Thu May 21 06:00:00 PDT 2015
- Last Run Status: Success
- Current Status: Stopped
- Last Message:

Recent Expired Accounts

Date	Expired Accounts	Status	Email Notification
09/04/2015 06:00:00	expiring_test_user	Success	Error

Event Detail

Executed: Thu Apr 09 2015 06:00:00 GMT+0200 (ora legale Europa occidentale)
Execution Outcome: Success

Email Notification: Error

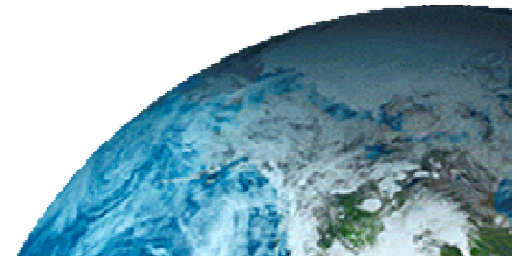
Receiver	Status	Message
Administrator	Error	Error sending expire check...
expiring_test_user	Error	Couldn't find user email

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Smart Mobility

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Destination+ Project

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 your one-stop-shop for geospatial open source software

The screenshot displays the Destination+ software interface, which is used for geospatial risk assessment. It features a main map window and several panels for configuration and data management.

Top Panel (Legend):

- Rischio Totale Sociale:**
 - Basso Rischio (Green line)
 - Medio Rischio (Yellow line)
 - Alto Rischio (Red line)
- Bersagli:**
 - Popolazione Residente (Pink square)
- Aree di danno (POPOLAZIONE RESIDENTE):**
 - Lesioni reversibili (Light blue square)
 - Lesioni irreversibili (Dark blue square)

Bottom Panel (Legend):

- Rischio Totale Sociale - Ambientale:**
 - Basso Rischio-Basso Rischio (Green line)
 - Basso Rischio-Medio Rischio (Green-Yellow line)
 - Basso Rischio-Alto Rischio (Green-Red line)
 - Medio Rischio-Basso Rischio (Yellow-Green line)
 - Medio Rischio-Medio Rischio (Yellow line)
 - Medio Rischio-Alto Rischio (Yellow-Red line)
 - Alto Rischio-Basso Rischio (Red-Green line)
 - Alto Rischio-Medio Rischio (Red-Yellow line)
 - Alto Rischio-Alto Rischio (Red line)
- Rischio Totale Ambientale:**
 - Basso Rischio (Green line)
 - Medio Rischio (Yellow line)
 - Alto Rischio (Red line)
- Rischio Totale Sociale:**
 - Basso Rischio (Green line)
 - Medio Rischio (Yellow line)
 - Alto Rischio (Red line)

Map and Interface Elements:

- Map:** Shows a satellite view of a region with overlaid risk assessment layers. Labels include Valgera, Burie, Cascina Conti, Cascina Gioia, Cascina Panferina, Briccolino, S.ta Valterra, S.ta Canaglia, S.ta Arazzera, and S.ta Valgera.
- Feature Info:** A pop-up window showing attributes for a selected feature, such as 'Rischio Sociale' (278) and 'Rischio Ambientale' (579).
- Layers Panel:** Lists various data layers like 'Rischio Totale', 'Bersagli', 'Dati di base', and 'Storico'.
- Scale and Orientation:** Includes a scale bar (500m, 1000ft) and a scale of 1:34123.

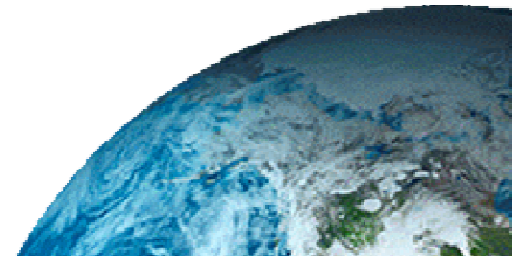
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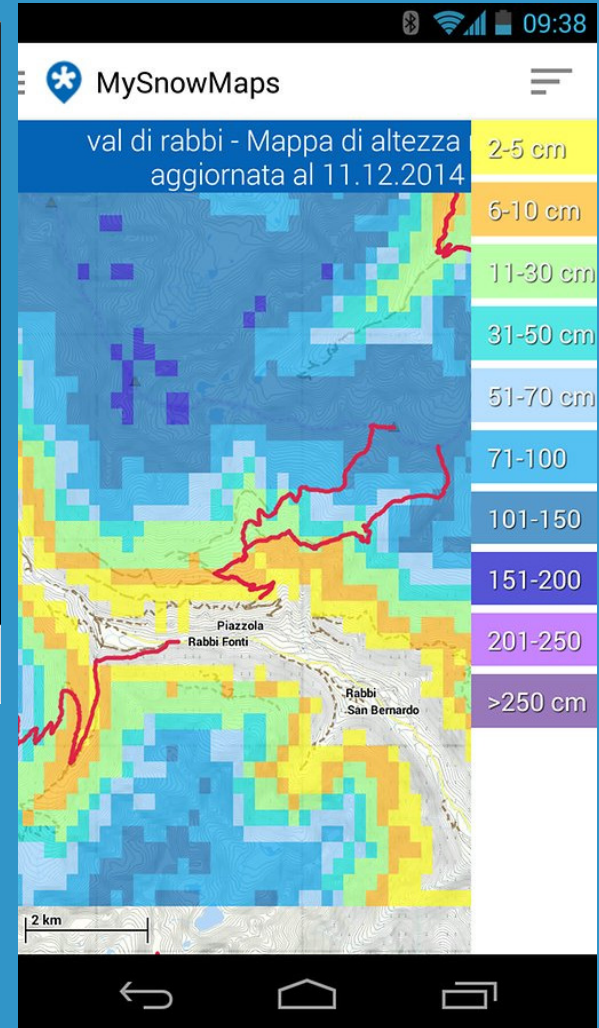
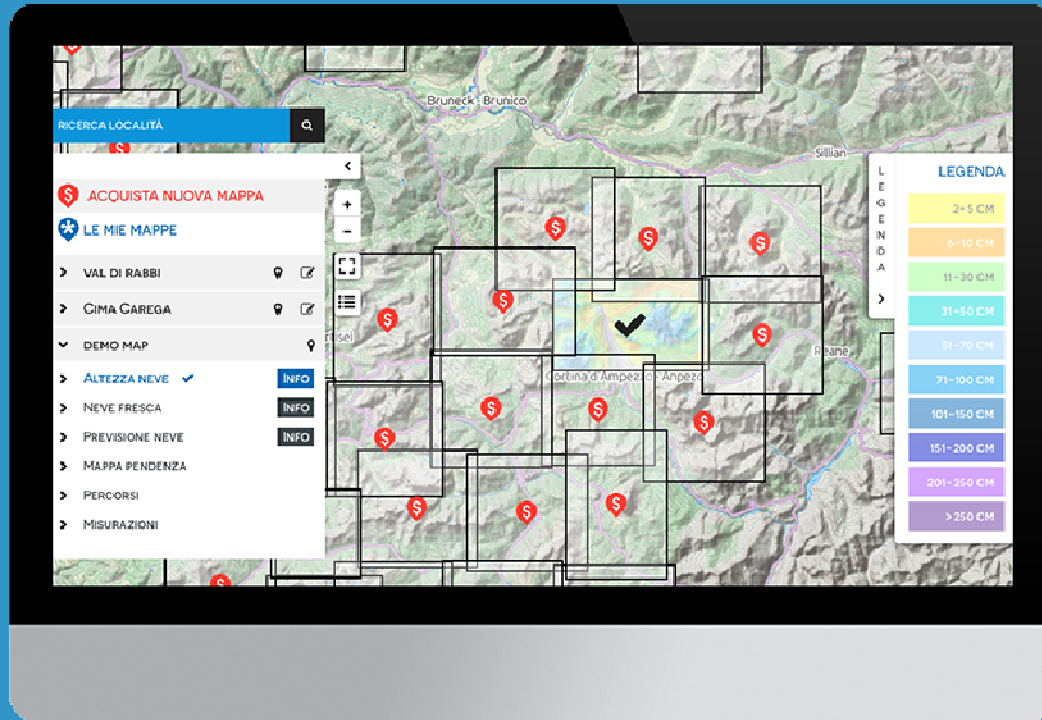
Mobile Data Collection & Fusion

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MySnowMaps

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

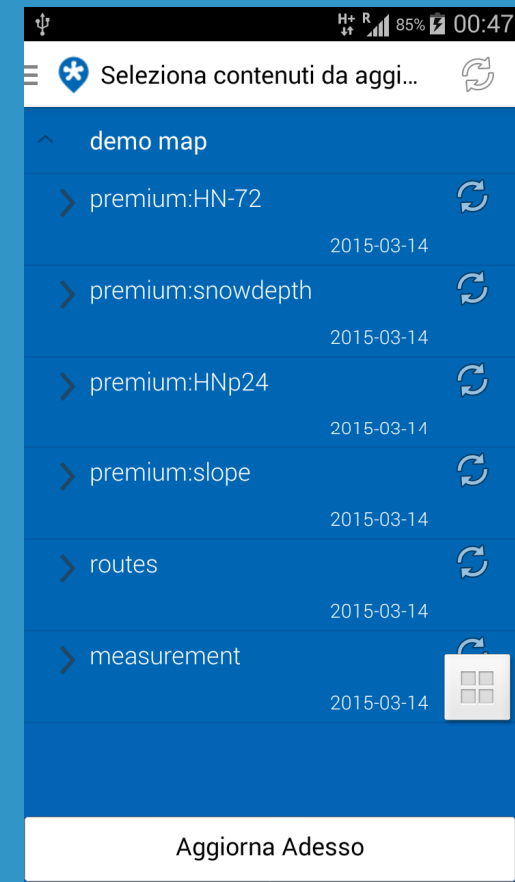
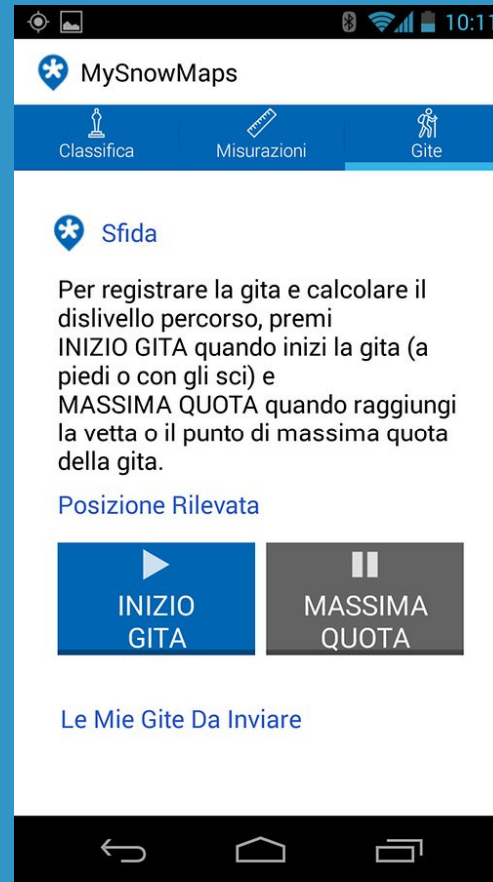
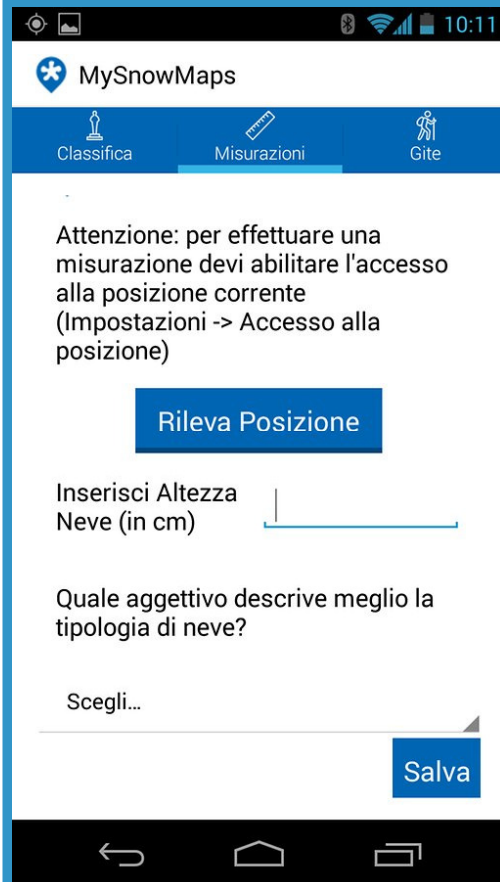


*When the snow is calling,
Be prepared!*

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MySnowMaps





Field Base Asset Management Made Simple!

Templates | My Account | User Manager | Mission Configuration | Photos | USER LOGGED: admin | Logout | English

Map Manager | Map Viewer - Segnalazioni Rifiuti Abbandonati

CODICE	GRAVITA	RISCHIO	STATUS
IX-2A	elevata	alto	Aperto
IV-6B	media	medio	Chiuso
III-1A	elevata	alto	Chiuso
VI-2A	media	medio	Sopralluogo as...
V-1A	elevata	alto	Chiuso
tester	area pulita	medio	Sopralluogo as...
VI-6A	area pulita	Alto	Chiusura eseg...
lohi23	area pulita	basso	Aperto
cod234	area pulita	basso	Chiuso
tardi	elevata	basso	Chiuso
II-2A	media	basso	Chiuso
testuploaddddd	area pulita	basso	Aperto
vallo	area pulita	basso	Aperto
IV-2D	area pulita	ALTO	Aperto
IV-3D	area pulita	Basso	Sopralluogo pr...
Test	bassa	elevato	Chiuso
ultima	elevata	alto	Chiuso
VI-5B	media	medio	Chiusura eseg...
VI-5A	scarsa	basso	Chiuso
VI-6A	scarsa	basso	Chiuso
VIL2C	area pulita	basso	Chiuso

Ricerca Segnalazioni

Region Of Interest

Selection:

Query by attributes

Map Viewer showing a map of Genoa (GENOVA) with various colored markers (red stars, green stars, blue stars) indicating abandoned waste locations. The map includes roads (A1, A26, A7, E 25, E 80, SS1, SS45, SS46) and geographical features. A scale bar shows 1 km and 1 mi. Coordinates 8.94685, 44.47804 are displayed in the top right corner.

Page 1 of 4

Reset | Query

Tiles Courtesy of MapQuest

POWERED BY GeoSolutions | Credits

English

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GeoCollect is proudly *made in italy* by **GeoSolutions**
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GeoCollect



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GeoCollect

- ★ VI-1A L'area permane pulita.
- ★ VI-5B Incremento della vigilanza su tutta la...
- ★ VI-5A Previsto un intervento do pulizia; si...
- ★ VII-1A se si ravvisano abbandoni consistenti...
- ★ VII-1C inserimento di segnaletica di d...
- ★ VII-1B Area difficilmente raggiungibile...
- ★ VII-6A opportuno l'incremento della vi...
- ★ VII-2A Inserimento di segnaletica di d...
- ★ VII-2C eventuale chiusura del 4Â° piazz...
- ★ VII-2B Strada chiusa con sbarra, sare...

44,43172,8,88472

Scheda Rilevatore

Data Scheda
12/Mar/2015

Data aggiornamento scheda
12/Mar/2015

Original Mission ID
80

Dati Rilevamento Posizione Rilievi Fotografici

44,43501,8,91608

Caricamento dati di tipo Sopralluogo

Caricamento sopralluogo:
I-1B

Annulla OK

Premi a lungo sul marker per muoverlo.

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Conclusions



- **We work for the clients**
 - Clients ask for more data & services rather than more regulations
- **Open Source is getting a lot momentum**
 - No upfront costs is fostering adoption
 - But generating somewhat wrong expectations
- **Free and Open Source is not completely Free!!!**
 - Support, Training, etc... not free
- **Open Source & Open Data**
 - are fostering innovation
- **INSPIRE is slowing getting into focus**
 - Knowledge is somewhat lacking
- **Real world moves fast**
 - Open Data & Open Source provides momentum, let's use it!

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The End



Thanks for not sleeping (loud)!

simone.giannecchini@geo-solutions.it



Team – Key Members



- **Ing. Simone Giannecchini**
 - Founder, GeoServer PSC, GeoTools PMC, ImageIO-Ext Architect, JAI-Tools founder, GeoBatch founder
- **Ing. Alessio Fabiani**
 - Founder, GeoServer PSC, GeoTools Committer, MapStore Committer
- **Ing. Andrea Aime**
 - GeoServer PSC, GeoTools PMC, JAI-Tools Lead, ImageIO-Ext committer
- **Ing. Daniele Romagnoli**
 - GeoServer Committer GeoTools PMC, ImageIO-Ext Lead, JAI-Tools Committer
- **Ing. Emanuele Tajariol**
 - GeoServer Committer, GeoTools Committer, GeoNetwork PSC
- **Ing Mauro Bartolomeoli**
 - GeoServer Committer, GeoTools Comitter, GeoBatch Committer, MapStore Committer

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Cultura Italia - MuseiD Portal

- Integrate with OpenCMS & SOLR
- Inject custom markers and tracks with custom HTML pop-up
- Mobile Enabled Version
- Link-back to managed resources
- Example [here](#)






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DANUBE REFERENCE DATA AND SERVICES INFRASTRUCTURE
Enhancing access to data from the Danube Region

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Datasets

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3,544 datasets found Order by: Relevance

Black Sea Beaches retreat
Beach erosion vulnerability has been assessed by combining Black Sea beaches geodatabase with coastal retreat prediction induced by sea level rise scenarios. Coastal retreat...

Black Sea Beaches
A complete database of Black-Sea beaches have been digitalized in Google Earth Pro Application. The dataset are in shapfile format and contain an attribute table with a href.

Dataset

Organization: enviroGRIDS
Point of contact: allenbach@unepegrid.ch
Title: **Black Sea Beaches retreat**
Language: eng

Beach erosion vulnerability has been assessed by combining Black Sea beaches geodatabase with coastal retreat prediction induced by sea level rise scenarios. Coastal retreat was estimated using an ensemble of 6 analytical (Edeiman, 1972; Brunn, 1988; Dean, 1991) and numerical ...

Keywords

Natural risk zones PEGASO beach enviroGRIDS erosion sea level rise

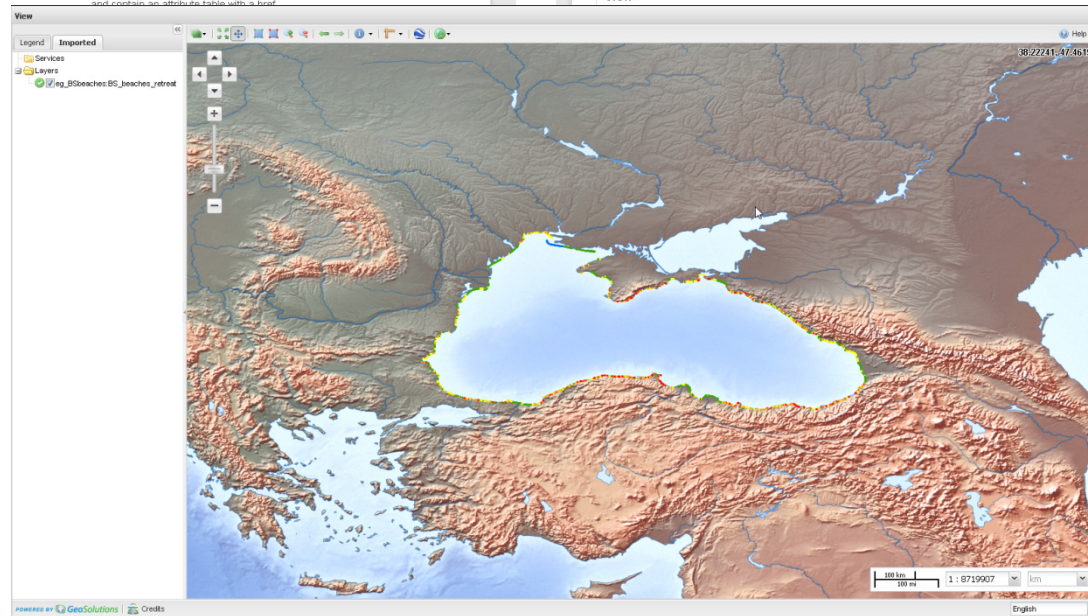
Licence

[]

Data

Download
BS_beaches_retreat.zip
Data for download

View



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