

eENVplus Workshop

GET SDI PORTAL: DELIVERING INSPIRE THROUGH OPEN SOURCE TECHNOLOGY

G. Mavrellis, **T. Vakkas**
Geospatial Enabling Technologies Ltd.
42 Posidonos Av., 17675, Kallithea, Greece
<http://www.getmap.eu>



Who we are



- Greek SME
- Founded in 2006
- Geo-ICT/Spatial IT

- INSPIRE / SDIs
- Geospatial Systems Design & Integration
- Vertical solutions
- Training
- Consulting

- Open Source
- Open Data



Boundless

Ερευνητικό Κέντρο Αθηνά
Ερευνητικό Κέντρο Καινοτομίας στις Τεχνολογίες
της Πληροφορίας, των Επικοινωνιών, της Γνώσης

gvSIG
association

Πολυτεχνείο
Κρήτης

DOTSOFT
TECHNOLOGY · PROJECTS · SOLUTIONS

DRAXIS
ΤΕΧΝΟΛΟΓΙΕΣ
ΠΕΡΙΒΑΛΛΟΝΤΟΣ

e-geos
AN ASI / TELESPIAZIO COMPANY

ITΣ

HEXAGON

TREDIT

BLOM
IMAGING THE WORLD

Leica
Geosystems

INTERGRAPH

Geomatics

ΔΕΥΑΧ
ΔΗΜΟΤΙΚΗ ΕΠΙΧΕΙΡΗΣΗ
ΥΔΡΕΥΣΗΣ ΑΙΓΙΝΗΣ

Mapping the globe

Research and Technological Development



Aquanet: City Water Management Systems and Water Distribution Network Monitoring

- Supported by GSRT – approved and started in July 2013
- GET's contribution: AquaNet GIS Application Software
- <http://aquanet.tuc.gr/>



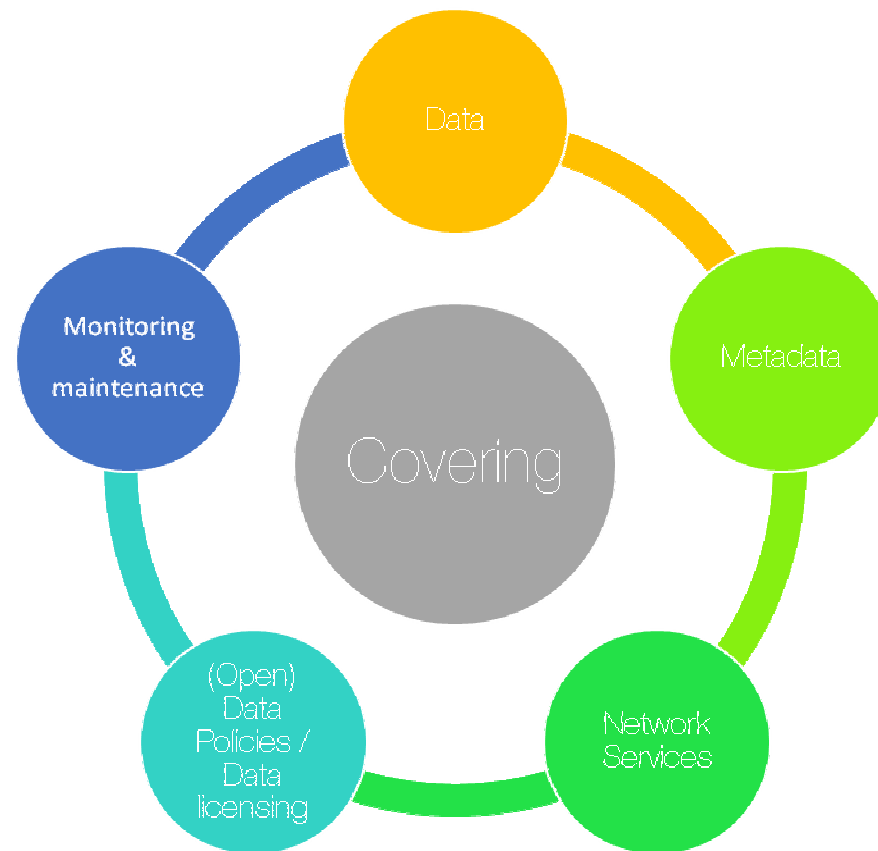
Publica Mundi: Scalable and Reusable Open Geospatial Data

- Supported by the European Commission – approved and started in Nov. 2013
- GET's contribution: architecture and integration, geospatial web mapping and processing applications, dissemination and exploitation
- <http://publicamundi.imis.athena-innovation.gr/>

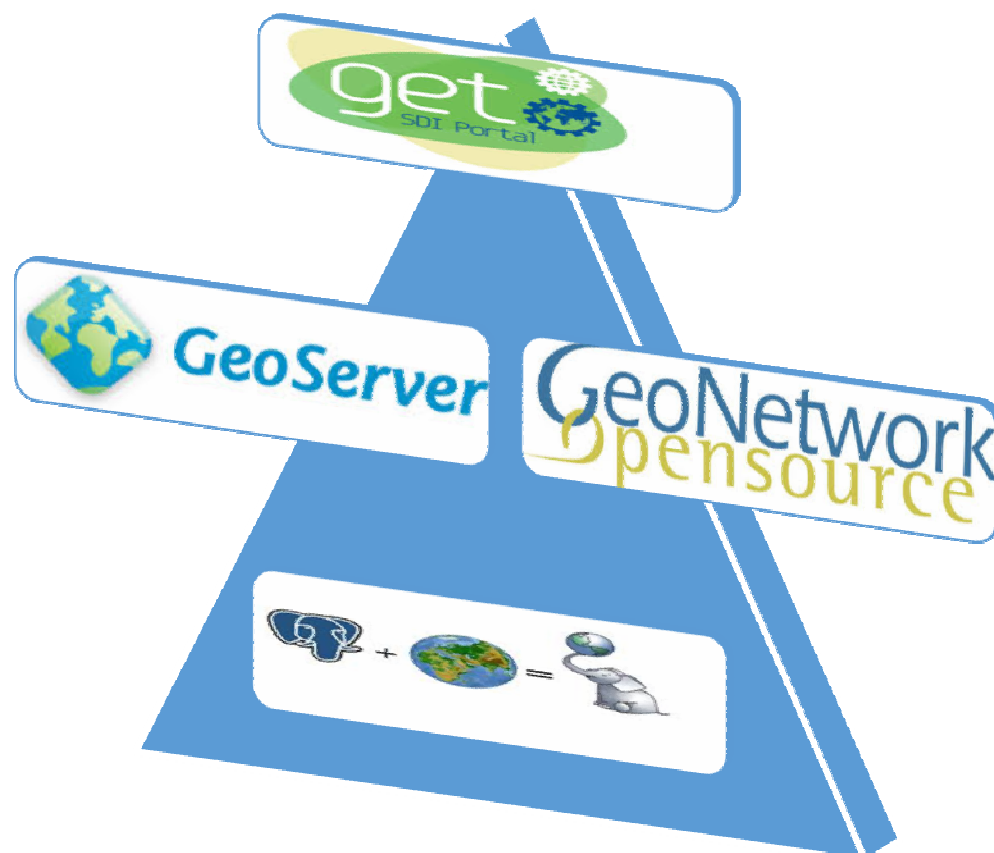
INSPIRE SOLUTIONS

- ❏ Early adaptors of Directive's provisions
- ❏ Consultancy and implementation services since 2008
- ❏ Based on **FOSS4G** (& proprietary) technology



Expertise



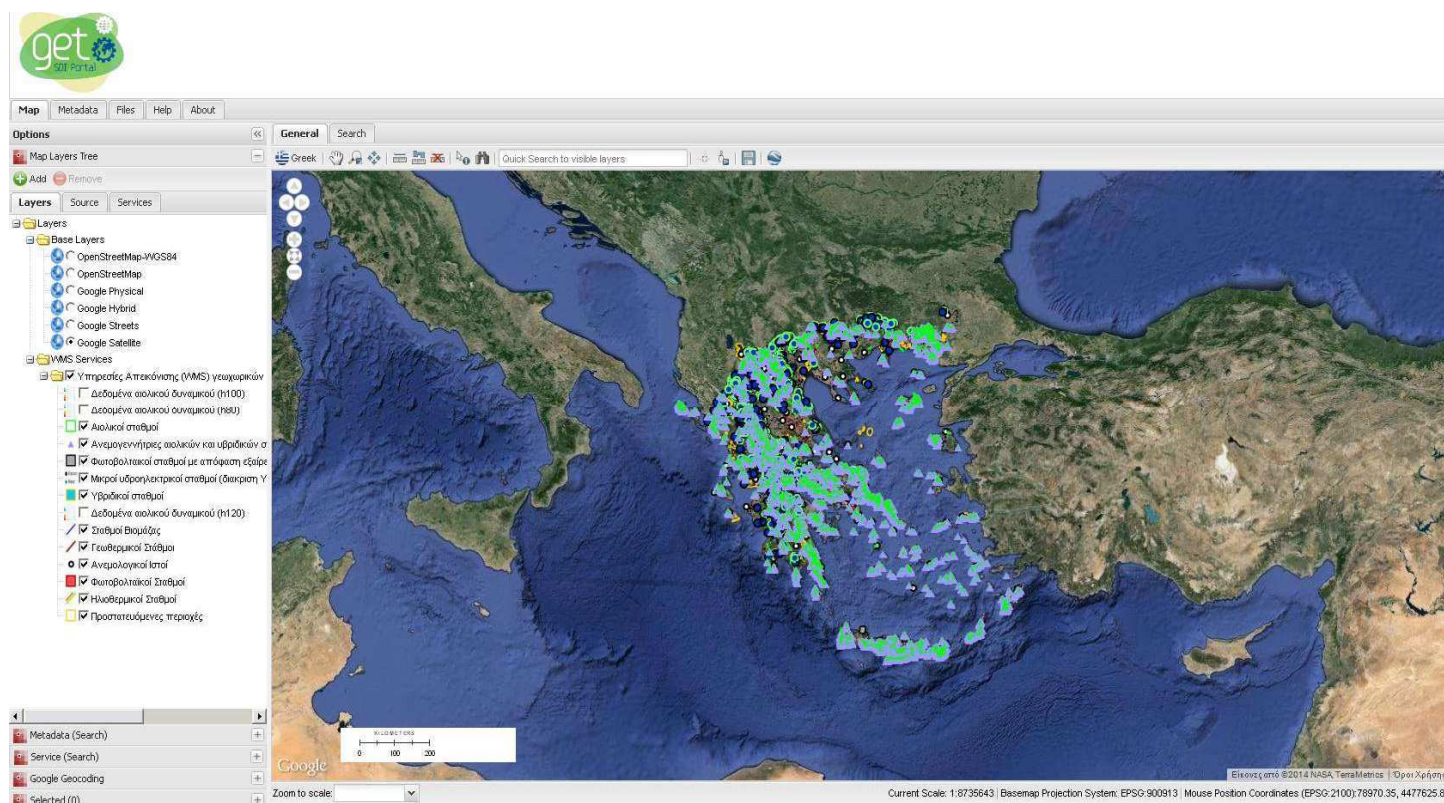
FOSS4G Technology



INSPIRE Principles

-  INSPIRE has reached maturity
-  Still same principles governing INSPIRE;
among them: geographic information
should be
 - readily and transparently available and
 - easily discoverable,
 - facilitating usage within a certain domain.

GET SDI Portal



GET SDI Portal

What is GET SDI Portal

- Comprehensive Web Mapping Platform
- Free and Open Source Project



How it started...

- Delivered for RAE in ver. 1.0 (2011)
- Provisions of Law No.3882/2010 & INSPIRE
- Client app for viewing and searching

GET SDI Portal



After 3 years of development...

- complete Geoportal solution
- need for access to data and metadata
- intuitive and transparent way
- exploiting the benefits of standards' adoption



GET SDI Portal



Support for:

- **View Services**
(WMS/WMTS)
- **Download Services**
(WFS/WFS-T)
- **Discovery Services**
(CSW)
- KML
- Atom
- GeoRSS
- WMC

The screenshot shows a 'Services List' window with a sidebar on the left containing service types: WMS, WFS, CSW, WMTS, WMC, KML, ATOM, and GeoRSS. The main area is for WMS configuration, including fields for 'WMS Server url:', 'Output Format:' (set to 'image/png'), and 'Require Authentication:' (unchecked). Below this is a 'List' table with columns: Name, Address, Version, Format, and Supported It contains one entry: 'Υπηρεσίες Απεικόνισης...' with address 'http://www.rae.gr/geoserver/wms', version '1.3.0', format 'image/png', and supported CRS 'EPSG:2100...'. At the bottom is a 'Data' table with columns: Name and Title. It lists six services, each with a green checkmark in the Name column: 'RAE: Aiolkos_h100' (Title: Δεδομένα αιολικού δυναμικού (h100)), 'RAE: Aiolkos_h120' (Title: Δεδομένα αιολικού δυναμικού (h120)), 'RAE: Aiolkos_h80' (Title: Δεδομένα αιολικού δυναμικού (h80)), 'RAE.V_ALL_SDI_R_AIOLIKA' (Title: Αιολικοί σταθμοί), 'RAE.V_ALL_SDI_R_ANEMOGENNHTRIES' (Title: Ανεμογεννήτριες αιολικών και υβριδικών σταθμών), and 'RAE.V_ALL_SDI_R_BIOMAZA' (Title: Σταθμοί Βιομάζας). The interface includes '+ Add' and '- Remove' buttons.








Service	WMS
WMS	WMS Server url:
WFS	Output Format: image/png
CSW	Require Authentication: <input type="checkbox"/>
WMTS	
WMC	
KML	
ATOM	
GeoRSS	

Name	Address	Version	Format	Supported ...
Υπηρεσίες Απεικόνισης...	http://www.rae.gr/geoserver/wms	1.3.0	image/png	EPSG:2100...

Name	Title
RAE: Aiolkos_h100	Δεδομένα αιολικού δυναμικού (h100)
RAE: Aiolkos_h120	Δεδομένα αιολικού δυναμικού (h120)
RAE: Aiolkos_h80	Δεδομένα αιολικού δυναμικού (h80)
RAE.V_ALL_SDI_R_AIOLIKA	Αιολικοί σταθμοί
RAE.V_ALL_SDI_R_ANEMOGENNHTRIES	Ανεμογεννήτριες αιολικών και υβριδικών σταθμών
RAE.V_ALL_SDI_R_BIOMAZA	Σταθμοί Βιομάζας

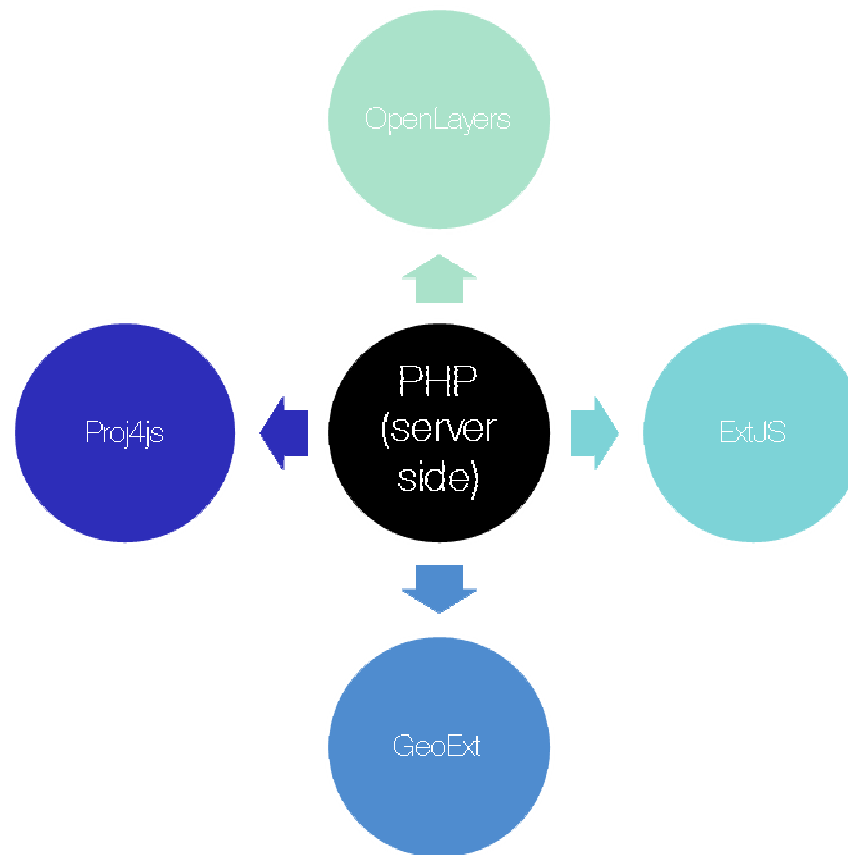
GET SDI Portal

Key Features

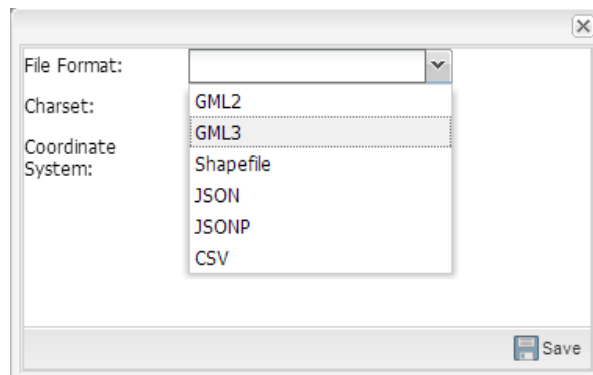
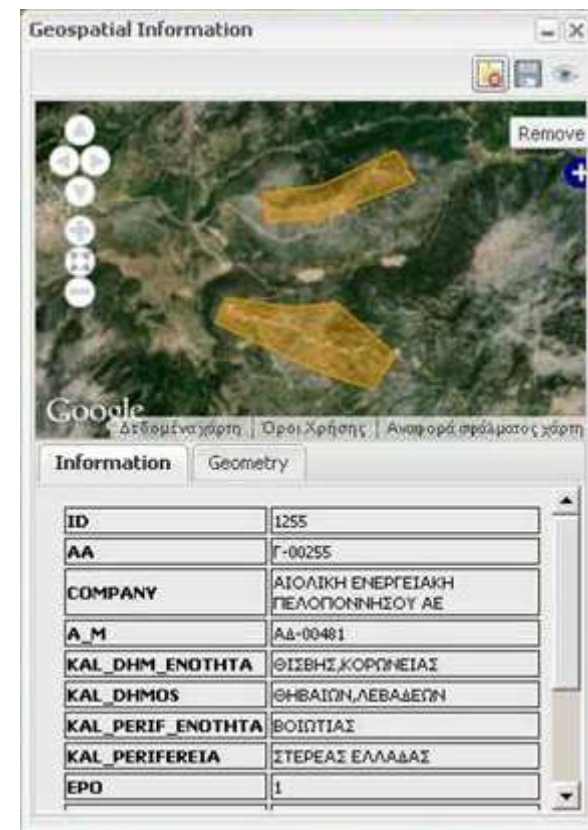
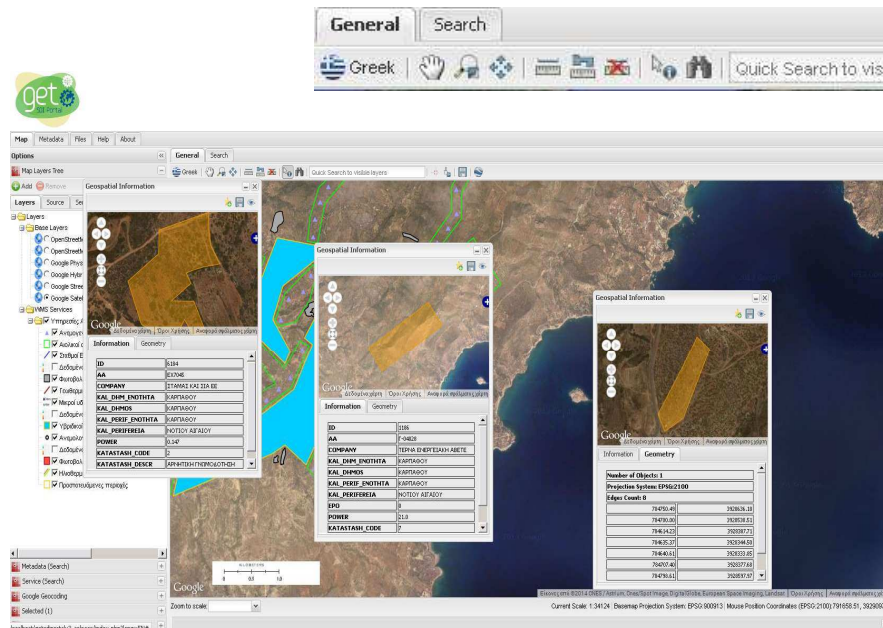
-  Data Visualization/Query/Selection/Download
-  Federated Metadata Catalogue Search
-  Network Service and Layer Management
-  Navigation and Measurement tools
-  Advanced styling
-  Advanced CRS handling
-  3D View (Google Earth)

GET SDI Portal

Main s/w components



GET SDI Portal



GET SDI Portal

The screenshot displays the GET SDI Portal interface, which includes a map view, a search panel, and a search results table.

Search Panel:

- Search Form:** Includes a search history dropdown and a search input field.
- Where:** A dropdown menu to select the layer for the search.
- Criteria:** A table for defining search criteria.

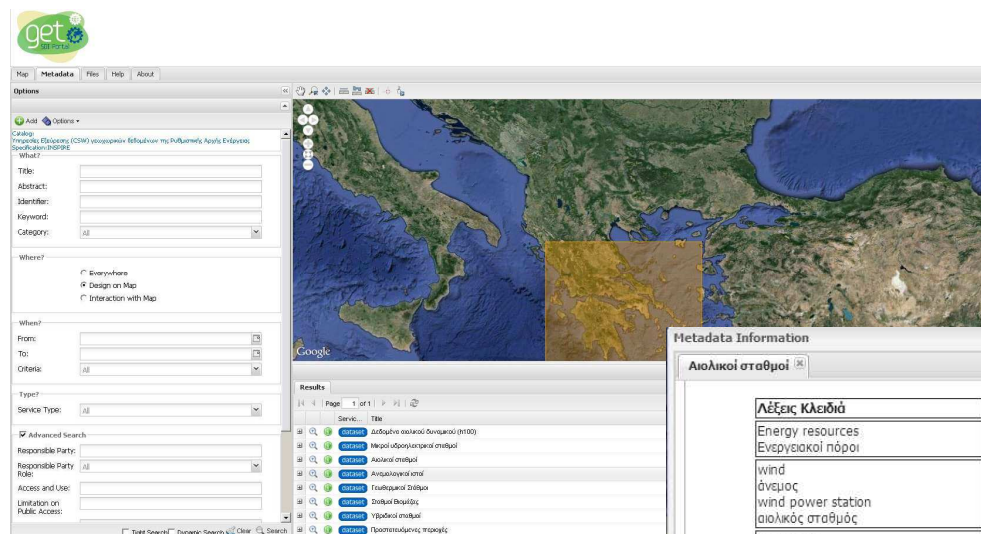
Criteria	Field	Condition	Value	Operator
COMPANY	NAME	LIKE	EN%	AND
POWER	POWER	>	10	

Search Results:

Number of records found: 1

ID	AA	COMPANY	A_M	KAL_DHM_ENO...	KAL_DHMOS	KAL_PERF_EN...	KAL_PERFEREIA	EPO	POWER	KATASTASH_C...	KATASTASH_D...	PARATHRHS
1671	T-00381	ENPETH TEXN...	APH-00342	KORYNDAE	NEBAEYN	BOKTIAE	STEREAE EANA...	0	16.0	2.1	ATOPPETHKH A...	

GET SDI Portal



Metadata Information

Αιολικοί σταθμοί

Λέξεις Κλειδιά	Τίτλος Πόρου	Ημερομηνία	Τύπος
Energy resources Ενεργειακοί πόροι	GEMET - INSPIRE themes, version 1.0	2012-07-20	
wind άνεμος	GEMET - Concepts, version 3.1	2012-07-20	
wind power station αιολικός σταθμός			
wind farm			
αιολικό πάρκο			
Wind energy and resources			
αιολική ενέργεια και πόροι			

Όροι για την πρόσβαση και τη χρήση

- Δεν ισχύουν όροι

Περιορισμοί σχετικά με την πρόσβαση του κοινού

-

Δυτικό Γεωγραφικό μήκος	Ανατολικό Γεωγραφικό μήκος	Νότιο Γεωγραφικό πλάτος	Βόρειο Γεωγραφικό πλάτος
19.393774	28.196777	34.945775	41.392731

The map shows the Balkan region with several cities labeled: Prizren, Skopje, Plovdiv, Edirne, Corlu, Istanbul, Adapazarı, Bursa, Tekirdag, Esenyurt, Gebze, Bandirma, Thessaloniki, Elbasan, Durres, and Taranto. A yellow rectangle highlights the area around Thessaloniki and the surrounding regions.

GET SDI Portal



Makes it special...

- ‘Ready to Deploy’ (in 5’)
- Modular
- Configurable
- Expandable
 - Check integration with CKAN
opendatagortynia.gr
- Free & Open Source

GET SDI Portal



Can be used...

- INSPIRE Geoportals
- Publish/Offer data
- GET data
- Edit data (...)
- Ad hoc solutions

GET SDI Portal



It is already used...

- the Greek RAE,
- ten (10) Municipalities in Greece,
- the Organization for Urban Plan and Environmental Protection of Athens
- the Military Geographical Institute of Ecuador,
- companies in Ghana & UK

GET SDI Portal

Installation base

- the Forest Resource Assessment Project in Nepal,
- the Academia

Examples

- <http://www.rae.gr/geo/>
- <http://opendatagortynia.gr>
- <http://gis.organismosathinas.gr/>
- <http://gis.opendatacorfu.gr/>





GET SDI Portal



Project joined

- GitHub (2011)
- JoinUP (2012)
- Reusable INSPIRE Reference Platform (ARE³NA) (2013)
- Transifex (2014)
- smeSPIRE challenger (2014)

More to come soon...

-  Editing ready for release
-  Advanced Printing
-  Transformation - WPS Client
-  Mobile (?)

Thank you for your attention

<https://github.com/GeospatialEnablingTechnologies/GET-SDI-Portal>

<http://www.getmap.eu>

tvakkas@getmap.gr

Geospatial Enabling Technologies Ltd

42 Poseidonos Av., 17675, Kallithea, Attica, Greece

Tel: +30 (210) 66 64 192

e-mail: contact@getmap.gr

url: www.getmap.eu