



GEO-CRADLE

Regional Workshop



TUNIS | 7-12-2017



GEO-CRADLE in support to capacity building, stakeholder engagement, data sharing, and the Copernicus and GEO opportunities for Tunisia and the region

Alexia Tsouni

GEO-CRADLE Project Coordination Team
National Observatory of Athens



The **GEO-CRADLE** project has received funding from the European Union's **Horizon 2020** research and innovation programme under grant agreement No 690133



13 Regional Workshops have taken place so far:

- supporting knowledge sharing - capacity building
- providing participants with a unique cross-sector networking opportunity (e.g. an enhanced cooperation between academia and industry)
- identifying the potential local challenges and needs that can be addressed by Earth Observation
- enhancing growth and innovation in the geo-information sector
- enabling more informed decision making

Date	Location
27/04/2016	Cairo, Egypt
14/07/2016	Novi Sad, Serbia
26/09/2016	Tirana, Albania
17-18/10/2016	Rabat, Morocco
19/10/2016	Timimoun, Algeria
16/11/2016	Limassol, Cyprus
03/01/2017	Chişinău, Moldova
02/02/2017	Abu Dhabi, United Arab Emirates
24/03/2017	Sofia, Bulgaria
26/04/2017	Brussels, Belgium (Industrial market)
09/05/2017	Magurele, Romania
25/05/2017	Cairo, Egypt
14/09/2017	Tel Aviv, Israel



Regional Workshops





Portal: Home page

[About GEO-CRADLE](#)[Team](#)[Activities](#)[Regional Capacities](#)[Outreach](#)[Resources](#)[Tools](#)[News & Events](#)[English](#)

GEO-CRADLE Project

Coordinating and integrating Earth Observation activities



Pilot Activities

Follow our pilot activities in four thematic areas:



Survey & Networking Platform

Take part in our



DataHub

Access, search and share Earth Observation Data for the three regions.



Funding Opportunities

Explore the available funding opportunities and the benefit of



<http://geocradle.eu/>



GEO GROUP ON
EARTH OBSERVATIONS



Networking platform: Home page (1/2)


<http://geocradle.eu/platform/>

Available for the first time in the RoI:

- inventory of regional capacities
- profiles of stakeholders
- assessment of country maturity
- potential partnerships




Networking platform: Home page (2/2)

 **GEO-CRADLE Networking Platform**


HOME PROFILES USER MANUAL

DATABASE SERVICES




Join our network of stakeholders.

Create your profile in our platform and join our network!



Stakeholders Browsing.

Discover stakeholders of interest by location, thematic area and view their profile and data!




Services and Features.

You can contact stakeholders of our network, request data and rate them!

THEMATIC AREAS

Climate Change Food Security & Water Extremes Management Raw Materials Energy




Improved adaptation to climate change relies on solid knowledge on current and future regional climate and convincing arguments as well as hands on tools for inspired policy making. GEO-CRADLE maximizes region specific, targeted information together with a specific roadmap for multi-spectra action directions, based on thorough assessment on the level of coordination and future investment to be carried towards the utilization of EO for climate adaptation and mitigation.




NEWSLETTER

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IAASARS

<http://geocradle.eu/>



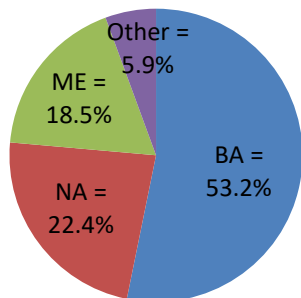
European Commission



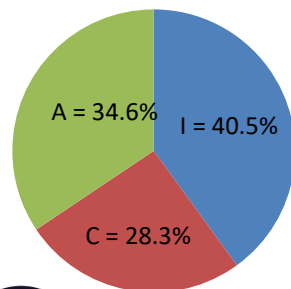
GEO GROUP ON EARTH OBSERVATIONS

Total responses: 254

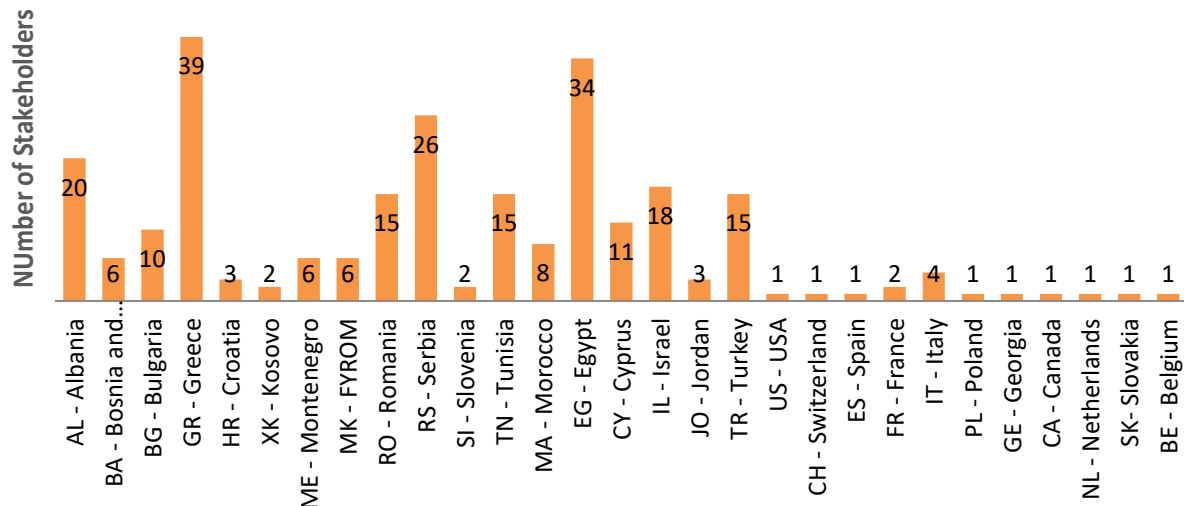
STAKEHOLDERS PER REGION
BA=Balkans; NA= North Africa;
ME=Middle East



STAKEHOLDERS PER TYPE
I=institutional; C=Commercial;
A= Academic & Research



STAKEHOLDERS PER COUNTRY



Balkans: 135, North Africa: 57, Middle East: 47, Other: 15

STAKEHOLDERS PER VALUE CHAIN ROLE

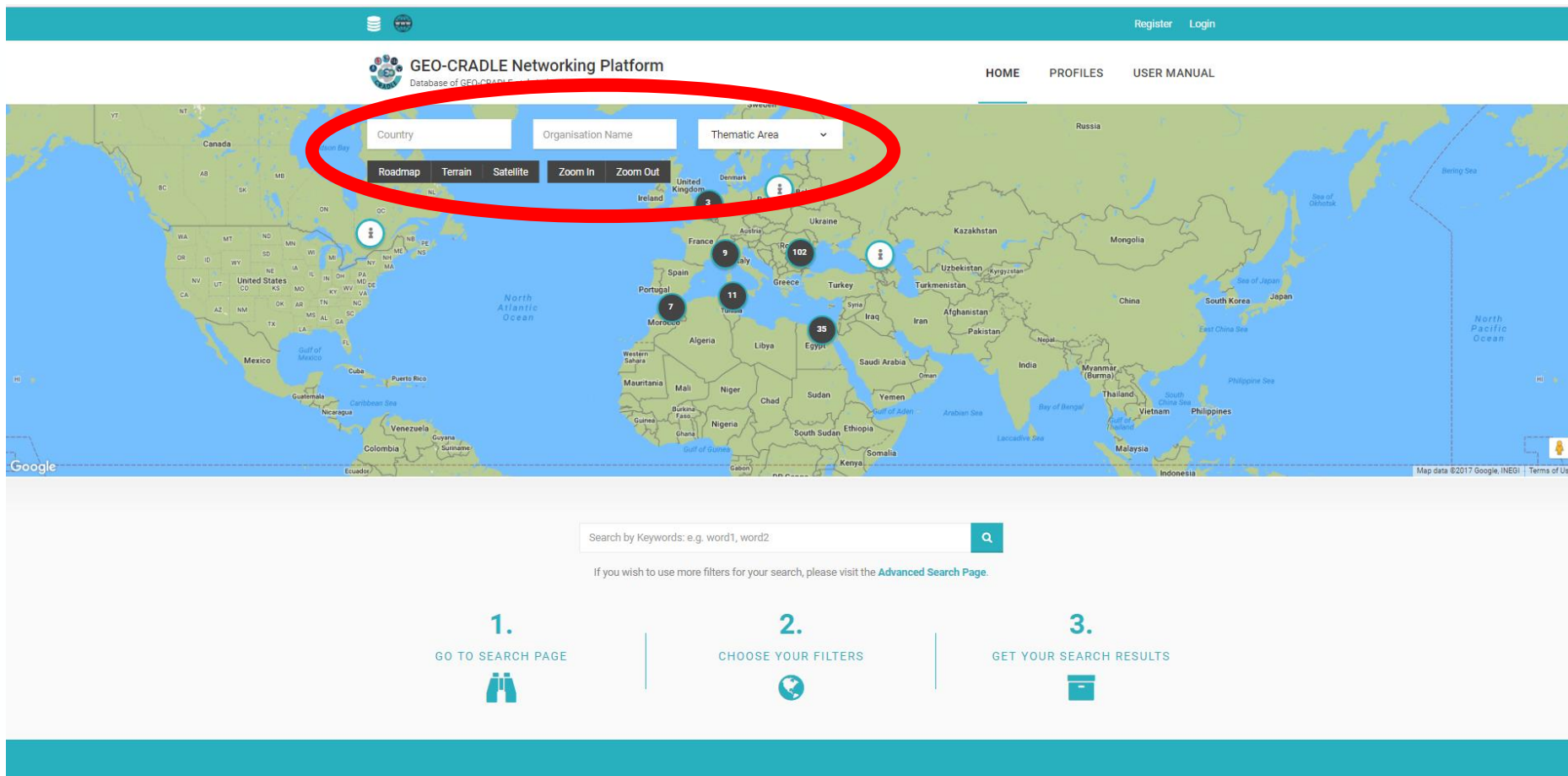
Raw data/provider	48.4%
Value-adder(data process-modelling)	63.7%
GIS/mapping service provider	44.9%
End User or End User with in house GIS/ mapping capabilities	50.8%



Networking platform: Features

- **Software:** Wordpress.
- **Access:** Open access to all.
- **Profiles:** The profiles include exclusive and specific information collected by the GEO-CRADLE Survey.
- **Validation:** The profiles are validated by an administrator before publishing.
- **Filtering / search:** Three different mechanisms for filtering / search:
 - ✓ **Map search:** 3 filters to search the database & displays results on the map;
 - ✓ **Keywords search:** search by one or more keywords;
 - ✓ **Advanced search page:** 10 filters combined with “search by keywords” option.

Search option 1: Map view

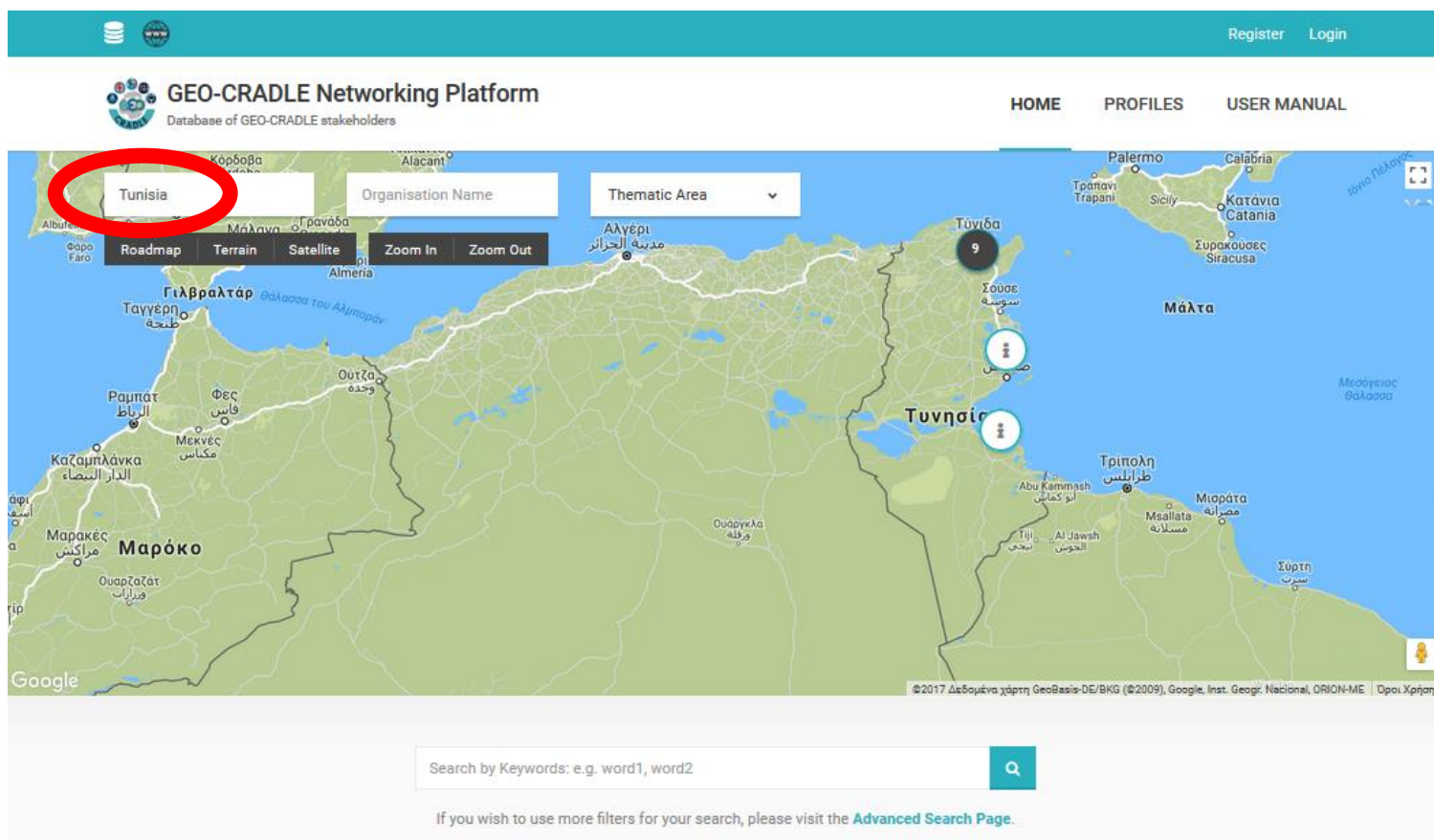


The screenshot shows the GEO-CRADLE Networking Platform interface. At the top, there is a teal header with the platform logo, navigation links (HOME, PROFILES, USER MANUAL), and user options (Register, Login). Below the header, the main content area features a world map with various countries labeled. A red oval highlights the search filters: 'Country', 'Organisation Name', and 'Thematic Area' dropdown menu. Below these filters are buttons for 'Roadmap', 'Terrain', 'Satellite', 'Zoom In', and 'Zoom Out'. The map displays several data points as black circles with numbers (e.g., 3, 7, 9, 11, 102, 35) and information icons. At the bottom of the map view, there is a search bar with the placeholder text 'Search by Keywords: e.g. word1, word2' and a magnifying glass icon. Below the search bar, a link to the 'Advanced Search Page' is provided. At the very bottom, there is a teal footer with three numbered steps: 1. GO TO SEARCH PAGE (with a magnifying glass icon), 2. CHOOSE YOUR FILTERS (with a globe icon), and 3. GET YOUR SEARCH RESULTS (with a document icon).

Filters:

Country: Tunisia

Results on the map: 11



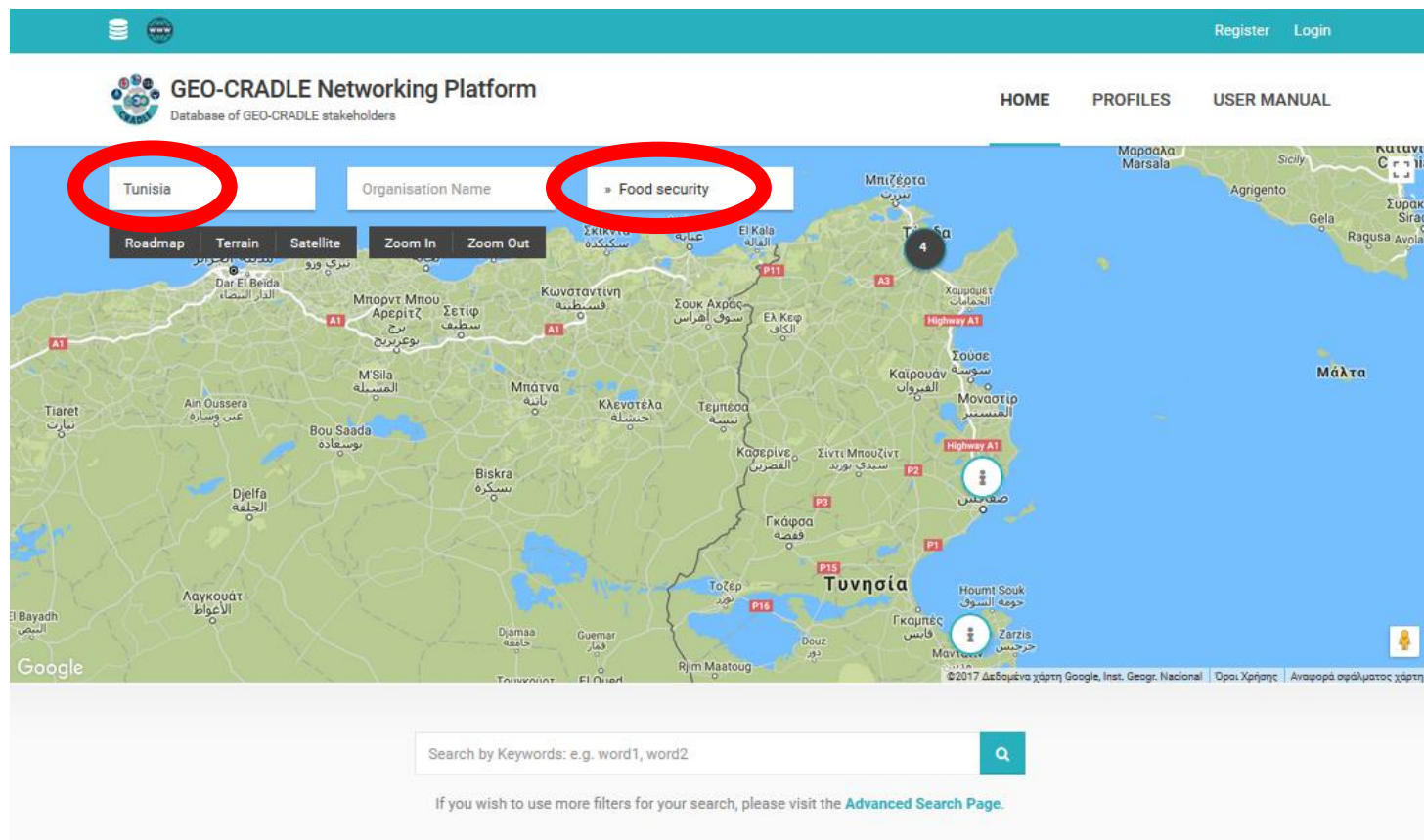
The screenshot shows the GEO-CRADLE Networking Platform interface. At the top, there is a teal header with 'Register' and 'Login' links. Below the header, the platform's name 'GEO-CRADLE Networking Platform' and its purpose 'Database of GEO-CRADLE stakeholders' are displayed. Navigation links for 'HOME', 'PROFILES', and 'USER MANUAL' are on the right. The main area features a map of North Africa with Tunisia highlighted. A search bar at the top left of the map area has 'Tunisia' entered and is circled in red. Other search filters include 'Organisation Name' and 'Thematic Area'. Map controls like 'Roadmap', 'Terrain', 'Satellite', 'Zoom In', and 'Zoom Out' are visible. The map shows 11 red dots representing search results in Tunisia. A search bar at the bottom of the interface allows for keyword searches, and a link to the 'Advanced Search Page' is provided.

Filters:

Country: Tunisia

Thematic Area: Food security

Results on the map: 6



The screenshot displays the GEO-CRADLE Networking Platform interface. At the top, there are links for 'Register' and 'Login'. Below the header, the platform's name 'GEO-CRADLE Networking Platform' and its description 'Database of GEO-CRADLE stakeholders' are visible. Navigation links for 'HOME', 'PROFILES', and 'USER MANUAL' are present. The main search area features two input fields: 'Country' (set to 'Tunisia') and 'Thematic Area' (set to 'Food security'), both highlighted with red circles. Below these fields are map controls: 'Roadmap', 'Terrain', 'Satellite', 'Zoom In', and 'Zoom Out'. The map itself shows Tunisia with various locations labeled in Greek and Arabic. At the bottom, there is a search bar with the placeholder text 'Search by Keywords: e.g. word1, word2' and a magnifying glass icon. Below the search bar, a link to the 'Advanced Search Page' is provided.



Search option 2: Search by keywords (for quick search)

Register Login

GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Country Organisation Name Thematic Area

Roadmap Terrain Satellite Zoom In Zoom Out

Search by Keywords: e.g. word1, word2

1. GO TO SEARCH PAGE

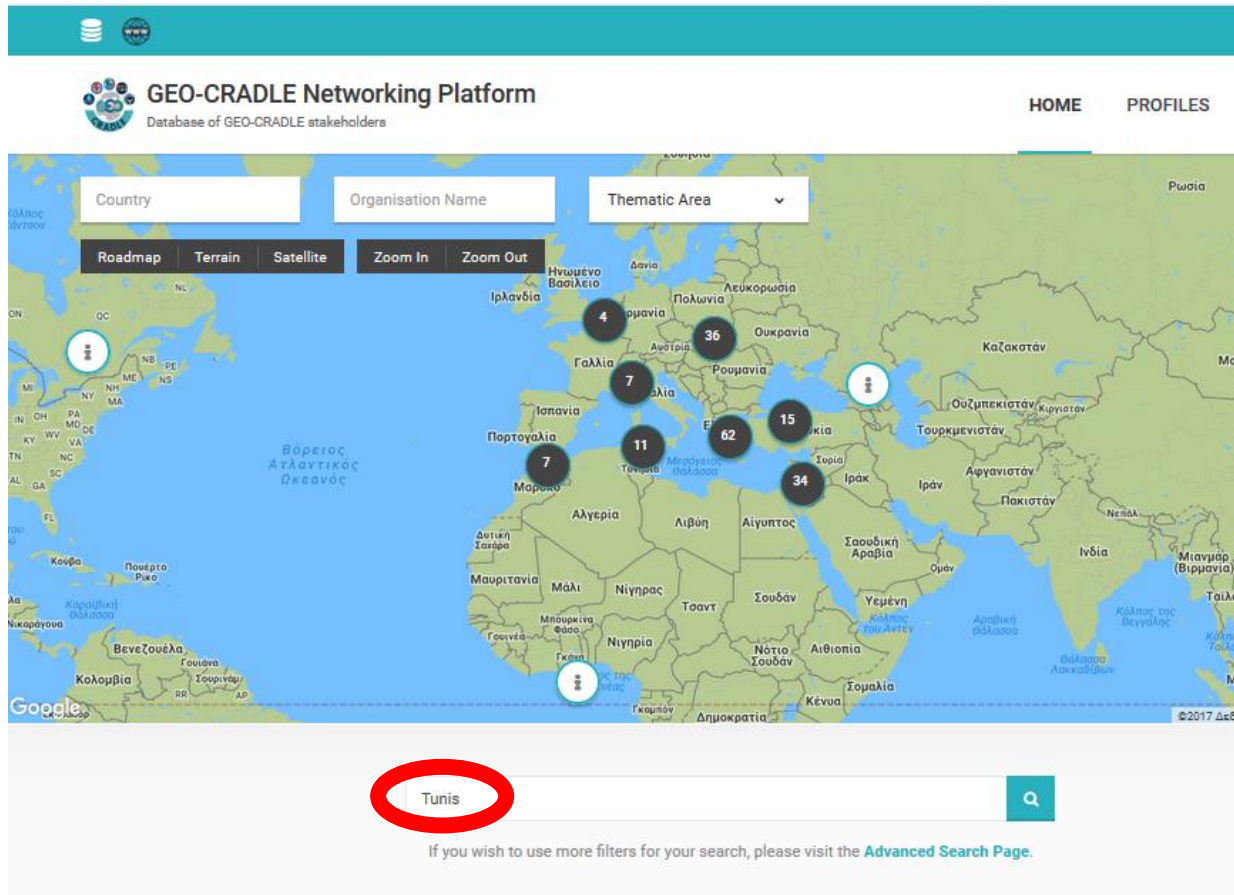
2. CHOOSE YOUR FILTERS

3. GET YOUR SEARCH RESULTS

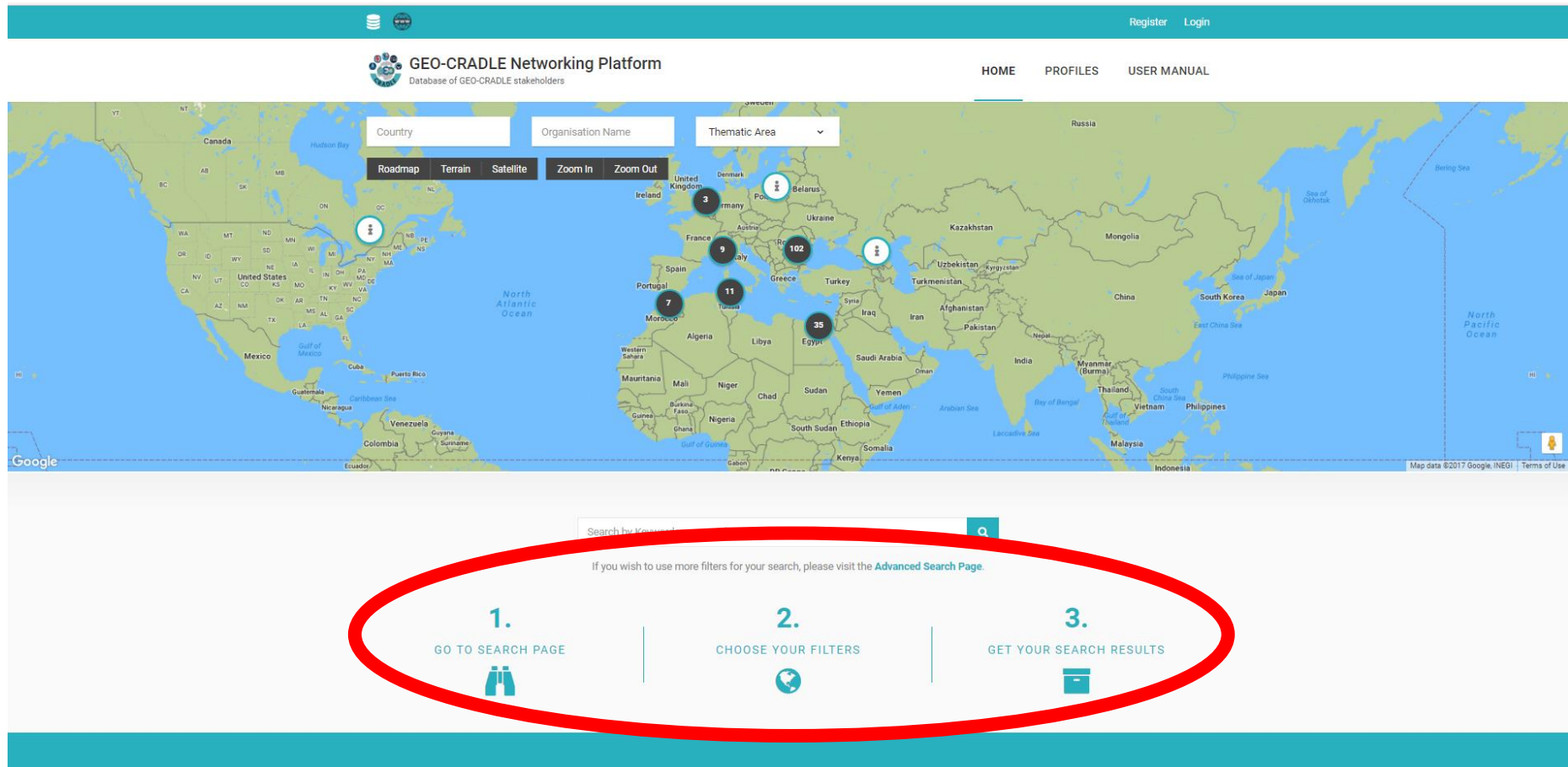


Networking platform: Search option 2

Filters:
Keywords: Tunis
Results: 11



Search option 3: Advanced search page



Register Login

GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Country Organisation Name Thematic Area

Roadmap Terrain Satellite Zoom In Zoom Out

Search by Keyword

If you wish to use more filters for your search, please visit the [Advanced Search Page](#).

1. GO TO SEARCH PAGE
2. CHOOSE YOUR FILTERS
3. GET YOUR SEARCH RESULTS



Networking platform: Search option 3

Search by Keywords: e.g. word1, word2

Search

Thematic Areas

- ☐ Access to raw materials
- ☐ Climate change
- ☐ Energy
- ☐ Food security
- ☐ Other

Role in the value chain

- ☐ Raw data/provider
- ☐ Value-adder(data process-modelling)
- ☐ GIS/mapping service provider
- ☐ End User with in house GIS/ mapping capabilities
- ☐ End User

Region

- ☐ Balkans
- ☐ North Africa
- ☐ Middle East
- ☐ Other

Organization type

- ☐ Institutional
- ☐ Research & Academic
- ☐ Commercial

Space-borne capacities

- ☐ Do you own/operate EO satellite systems? e.g. Sentinel 1, RASAT
- ☐ Do you own/operate EO Ground Segment facilities, for reception storage and redistribution of satellite data? e.g. ESA Mirror Site

Ground-based/In-situ monitoring networks/facilities

- ☐ Meteorological/Climatic
- ☐ Atmospheric Composition/Profiling
- ☐ Hydrometric/Water Quality
- ☐ Soil attributes/Spectra
- ☐ Energy/Radiation
- ☐ Other (e.g. Earthquake/Landslide)

Modelling and computing processing capacities

- ☐ Meteorological/Climatic
- ☐ Atmospheric Composition/Profiling
- ☐ Hydrometric/Water Quality
- ☐ Soil attributes/Spectra
- ☐ Energy/Radiation
- ☐ Other (e.g. Earthquake/Landslide)

The source of EO data used in the model.

- ☐ Geospatial data (e.g.DTM)
- ☐ Remote sensing data (e.g raw satellite high-level images)
- ☐ In situ data (e.g. temperature-pressure-humidity)
- ☐ Other

Organisation has sufficient available computing resources for the processing and exploitation of EO data and the models running

- ☐ Server Clusters
- ☐ HPC Clusters
- ☐ Cloud Infrastructure
- ☐ Virtualization Infrastructure
- ☐ Processing Power Capacity (CPU-RAM-Storage Capacity)
- ☐ Other

EO data exploitation for the provision of value-adding services and products

- ☐ Ecosystems(desertification-environmental impact- pollution)
- ☐ Land Motion/Ground Movement
- ☐ Inland Water (rivers and lakes)
- ☐ Land Use/Cover & Change (classified activities and statistics)
- ☐ Meteocean (wind-waves)
- ☐ Geology
- ☐ Urban Areas
- ☐ Infrastructure (buildings-telecommunications and energy supply)
- ☐ Forest
- ☐ Snow&Ice
- ☐ Air Quality
- ☐ Climate
- ☐ Marine Ecosystems (including pollution-oil spills)
- ☐ Weather
- ☐ Floods
- ☐ Fires
- ☐ Agriculture (farming-crops-yield-etc)
- ☐ Other (e.g. landslide-earthquakes-etc)



Networking platform: Search option 3

Filters:
Region: North Africa
Results: 26

Register Login

GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Search by Keywords: e.g. word1, word2

Thematic Areas

- ☐ Access to raw materials
- ☐ Climate change
- ☐ Energy
- ☐ Food security
- ☐ Other






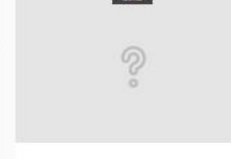



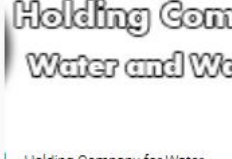


Role in the value chain

- ☐ Raw data/provider
- ☐ Value-adder(data process-modelling)
- ☐ GIS/mapping service provider
- ☐ End User with in house GIS/ mapping capabilities
- ☐ End User

Region

- ☐ Balkans
- ☒ North Africa
- ☐ Middle East
- ☐ Other

26 Search Results Found

<p>Climate change, Food security, Energy</p>  <p>Arab Academy for Science & Technology & Maritime Transport</p>	<p>Climate change, Energy</p>  <p>Egyptian Meteorological Authority</p>	<p>Food security, Other</p>  <p>The Research Institute for Groundwater (RIGW)</p>
<p>Climate change, Energy</p>  <p>M&P</p>	<p>Climate change, Other</p>  <p>UNIVERSITY OF SADAT CITY</p>	<p>Other</p>  <p>Elbouziani Brahim</p>
<p>Climate change, Other</p>  <p>AMATEC Consulting Company</p>	<p>Climate change, Other</p>  <p>Survey of Natural Resources in Environmental Sy...</p>	<p>Climate change, Food security</p>  <p>PCOI</p>
<p>Other</p>  <p>Holding Company for Water and Wastewater</p>	<p>Climate change, Other</p>  <p>EWATEC Consultancy Company</p>	<p>Food security</p>  <p>Centre de Recherche en Numérique de Sfax</p>



Networking platform: Search option 3

Filters:

Region: North Africa

Thematic area: Food security

Results: 12

Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Search by Keywords: e.g. word1, word2

Thematic Areas

- ☐ Access to raw materials
- ☐ Climate change
- ☐ Energy
- ☒ Food security
- ☐ Other

Role in the value chain

- ☐ Raw data/provider
- ☐ Value-adder(data process-modelling)
- ☐ GIS/mapping service provider
- ☐ End User with in house GIS/ mapping capabilities
- ☐ End User

Region

- ☐ Balkans
- ☒ North Africa
- ☐ Middle East
- ☐ Other

12 Search Results Found

Grid of 12 search results:

- Arab Academy for Science & Technology & Maritime Transport
- The Research Institute for Groundwater (RIGW)
- Higher School of Communications of Tunis
- Centre de Recherche en Numérique de Sfax
- Institut National de la Recherche Agronomique
- Digital research center of Sfax
- Centre National de la Cartographie et de la Télédétection
- INSTITUT DES REGIONS ARIDES
- German Geoconsultants Group
- Desert Research Center (DRC)
- Sahara and sahel observatory



<http://geocradle.eu/>





Networking platform: Search option 3


Filters:

Region: North Africa

Thematic Area: Food security

Role: Value-adder

Results: 11

 **GEO-CRADLE Networking Platform**
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Search by Keywords: e.g. word1, word2

Thematic Areas

- ☐ Access to raw materials
- ☐ Climate change
- ☐ Energy
- ☒ Food security
- ☐ Other

Role in the value chain

- ☐ Raw data/provider
- ☒ Value-adder(data process-modelling)
- ☐ GIS/mapping service provider
- ☐ End User with in house GIS/ mapping capabilities
- ☐ End User

Region

- ☐ Balkans
- ☒ North Africa
- ☐ Middle East
- ☐ Other

11 Search Results Found

Grid of 11 search results:

- Arab Academy for Science & Technology & Maritime Transport**
- The Research Institute for Groundwater (RIGW)**
- Higher School of Communications of Tunis**
- Centre National de la Cartographie et de la Télédétection (CNCI)**
- Centre de Recherche en Numérique de Sfax**
- Digital research center of Sfax**
- Desert Research Center (DRC)**
- Royal centre for remote sensing**
- Sahara and sahel observatory**
- INSTITUT DES REGIONS ARIDES**
- German Geoconsultants Group**




Networking platform: Example profile


Example Profile:


Centre National de la Cartographie et de la Télédétection

Section: Details

 **GEO-CRADLE Networking Platform**
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL


 **Centre National de la Cartographie et de la Télédétection**
Climate change, Food security
Centre National de la Cartographie et de la Télédétection
General Direction
☆☆☆☆☆
Share Add to favorites Print

 **Centre National de la Cartographie et de la Télédétection**
المركز الوطني لرسم الخرائط والاستشعار عن بعد

Details Activity Focus Capacities National Activities Engagement in GEO-CRADLE Location

Details

First Name	Adel
Last Name	Jehane
Title	Mr
Position	General Director
Email 1	cnct@defense.tn
Phone 1	71 761 333
Fax	71 760 890
Organisation Name	Centre National de la Cartographie et de la Télédétection


Contact Person
Adel Jehane
✉ cnct@defense.tn
☎ 71 761 333
[Message](#)

👁 110 views




Networking platform: Example profile

Example Profile:

Centre National de la Cartographie et de la Télédétection

Section: Activity Focus

 **GEO-CRADLE Networking Platform**

HOME PROFILES USER MANUAL

Details **Activity Focus** Capacities National Activities Engagement in GEO-CRADLE Location

Activity Focus

1. Which of these statements best describe your Organisation's role in the value chain?

Raw data/provider

Value-adder(data process-modelling)

GIS/mapping service provider

2. What are the main thematic areas of activity of your Organisation?

Climate change (e.g. climatology- meteorology atmospheric composition- air quality- radiation)

Food security (including agriculture and water extremes i.e. floods and droughts)

3. Has your organisation participated in EO-related projects?

No

4. Has your Organisation participated in any Copernicus service provision, Copernicus User requirements definition or Copernicus Research & Innovation action?

No

5. Has your Organisation participated in any GEO/GEOSS SBA Tasks, community activities or initiatives?

No

6. How would you rate your Organisation's level of collaboration with other EO actors in your country or abroad?

A. In your Country

None (0 actors)

B. Abroad

None (0 Actors)

Message

Send Message



Networking platform: Example profile

Example Profile:

Centre National de la Cartographie et de la Télédétection

Section: Capacities

GEO-CRADLE Networking Platform

HOME PROFILES USER MANUAL

Details Activity Focus **Capacities** National Activities Engagement in GEO-CRADLE Location

Capacities

From the list below, please choose all the domains in which your organisation has capacities.

4) EO data exploitation for the provision of value-adding services and products

EO data exploitation for the provision of value-adding services and products

Do you deliver services / products that are based on the exploitation of EO data?

Yes

Which of the following areas do your products/services cover? You can choose more than one

Ecosystems(desertification-environmental impact- pollution)

Land Use/Cover & Change (classified activities and statistics)

Urban Areas

Forest

Climate

Floods

Agriculture (farming-crops-yield-etc)

Please provide some additional details and/or give concrete examples of the products/services.

Topographic maps

Thematic maps

map land use

Cereal yield estimation

forest inventory




Networking platform: Example profile

Example Profile:

Centre National de la Cartographie et de la Télédétection

Section: National Activities

 GEO-CRADLE Networking Platform

HOME PROFILES USER MANUAL

Details Activity Focus Capacities **National Activities** Engagement in GEO-CRADLE Location

National Activities

1. Is there funding for EO activities available in your country?

No

2. Is there a National Space Policy/Strategy?

Yes

3. Is there a Space Agency in your country?

No

4. Which of the following best describes the level of coordination of EO activities in your country?

None

5. Which of the following best describes the level of interaction between the EO community and decision makers in your country?

None




Networking platform: Example profile

Example Profile:

Centre National de la Cartographie et de la Télédétection

Sections: Engagement in GEO-CRADLE & Location

 GEO-CRADLE Networking Platform

HOME PROFILES USER MANUAL

Details Activity Focus Capacities National Activities **Engagement in GEO-CRADLE** Location

Engagement in GEO-CRADLE

1. Would your Organisation be interested in contributing with its capacities to a regional initiative of GEO and/or Copernicus, addressing regional needs in the domains of Climate Change, Access to Raw Materials, Energy, Food Security and Water?

Yes

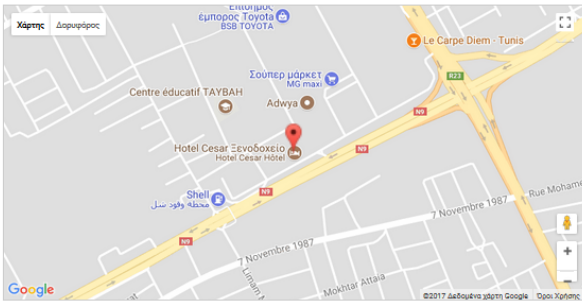
2. Would you be interested in providing feedback to the GEO-CRADLE consortium for establishing a roadmap for the implementation of GEO and Copernicus in North Africa, Middle East and the Balkans?

Yes

3. Would your organisation be interested in receiving our quarterly newsletter and/or participating in future networking events?

Yes to both

Location




<http://geocradle.eu/>



Networking platform: Registration / Survey

[Register](#) [Login](#)

**GEO-CRADLE Networking Platform**
Database of GEO-CRADLE stakeholders

[HOME](#) [PROFILES](#) [USER MANUAL](#)

Registration

Username

E-mail

Password

Retype Password

☐ I agree with [terms & conditions](#)

Sign Up

You can read the [User Manual](#) here.

NEWSLETTER

Subscribe to our newsletter and stay updated on the project progress !



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Networking platform: Registration / Survey

You have been successfully registered.



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GEO-CRADLE Networking Platform

Database of GEO-CRADLE stakeholders

[HOME](#)

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My Profile

[+ Create Profile](#)

You don't have any profile, yet. Start by creating new one.

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EARTH OBSERVATIONS



Networking platform: Registration / Survey

My Profile Logout

 **GEO-CRADLE Networking Platform**
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Home / Create Profile

Create Profile

Progress

Stakeholder Name *(This will be displayed as your Profile name)* *

Description

Profile Photo
No image selected
Add Image





Cover Photo
No image selected
Add Image

Save

- 1 Profile Info
- 2 General Info
- 3 Activity Focus
- 4 Capacities
- 5 National Activity
- 6 Engagement in GEO-CRADLE

NEWSLETTER

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The GEO-CRADLE project has received funding from



General info

- Personal Information
- Your Organization

Activity Focus

- Your Organisation's role in the value chain
- Main thematic areas of activity
- Participation in EO-related projects
- Participation in Copernicus
- Participation in GEO/GEOSS SBA Tasks
- Collaboration with other EO actors

Capacities

- Space-borne capacities
- Ground-based/In-situ monitoring networks/facilities
- Modelling and computing processing capacities
- EO data exploitation

- 1 Profile Info
- 2 General Info
- 3 Activity Focus
- 4 Capacities
- 5 National Activity
- 6 Engagement in GEO-CRADLE



National Activities

- National funding for EO activities
- National Space Policy/Strategy
- Existence of National Space Agency
- Coordination of EO activities in the country
- Interaction between the EO community and decision makers in the country
- Organisation of EO dedicated workshops in the country

- 1 Profile Info
- 2 General Info
- 3 Activity Focus
- 4 Capacities
- 5 National Activity
- 6 Engagement in GEO-CRADLE

Engagement in GEO-CRADLE

- Contribute with your capacities to a regional initiative of GEO and/or Copernicus?
- Provide feedback for establishing a roadmap for the implementation of GEO and Copernicus in the region?
- Participate in future GEO-CRADLE networking events and portal?




Networking platform: Login

Geo-Cradle Portal Login – Superlist UserManual.pdf

cpdev.crowdpolicy.com/geo-cradle-stakeholders/login/ 90% Αναζήτηση

Πιο συχνά αναγνώσμ... Εκκινώντας Suggested Sites Web Slice Gallery

Register **Login**

 **GEO-CRADLE Networking Platform**
Database of GEO-CRADLE stakeholders

HOME PROFILES USER MANUAL

Login

Username

Password


Log in

[I've forgotten my password.](#)




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Portal: Home page

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GEO-CRADLE Project

Coordinating and integrating Earth Observation activities



Pilot Activities

Follow our pilot activities in four thematic areas:



Survey & Networking Platform

Take part in our



DataHub

Access, search and share Earth Observation Data for the three regions.



Funding Opportunities

Explore the available funding opportunities and the benefit of



<http://geocradle.eu/>



GEO GROUP ON
EARTH OBSERVATIONS



Regional Data Hub: Home page

<http://datahub.geocradle.eu/>

Geocradle

Home Groups Datasets News Log in Register

Trial mode
RDI beta mode

About

The Regional Data Hub (RDH) will soon provide access to both region-related datasets, portals and services developed by a regional network of raw data providers, intermediate users/service providers, end-users from Industry, Academic and Public Sector from the Region of Interest; and, also, datasets and services directly fed from the GEOSS-portal. Moreover, being the centralised gateway for regional data providers to contribute easily and timely their products to GEOSS, the Regional Data Hub is designed to become the focal node in the region in the context of GEOSS and Copernicus implementation. The RDH will facilitate access to downloadable files of Space-borne data from real-time EO satellite missions acquisitions; data from Airborne campaigns performed in the region; In-situ data; and Models such as Atmospheric and Climate.

Find

Data Innovation Involvement Growth

Groups

Global Earth Observation System of Systems (GEOSS)
A central part of GEO's Mission is to build the Global Earth Observation System of Systems (GEOSS). GEOSS is a set of...

PILOT 1: Adaptation to Climate Change (ACC)
The RoI has been recognised by the Intergovernmental Panel on Climate Change as one of the most sensitive and vulnerable...

The **TRIAL MODE - RDI beta version** - has been released providing a more stable service and full interoperability with GCI and GEO DAB APIs, as well as a first level connection with data available through the project pilots.

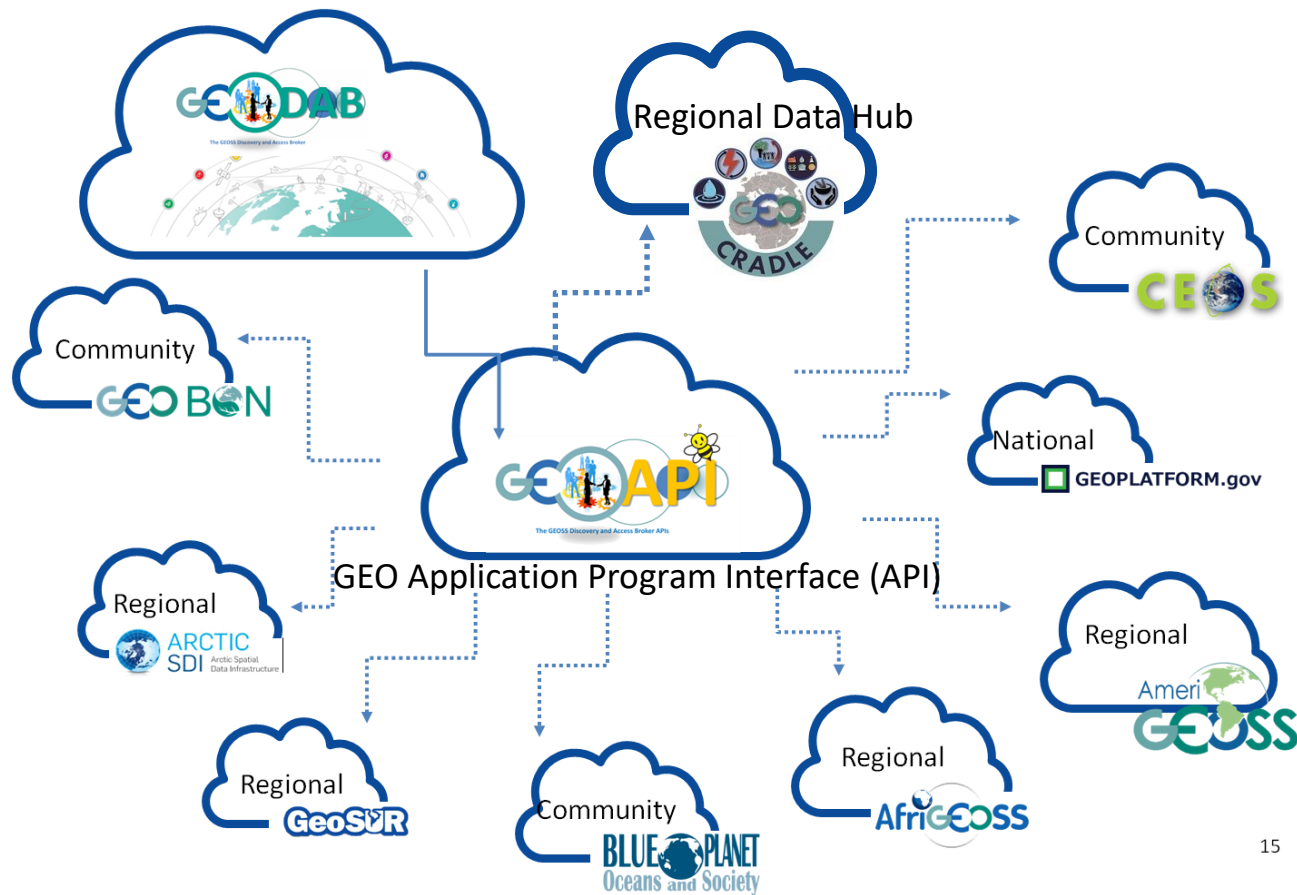
<http://geocradle.eu/>



Users/GEO Portals

National, regional or thematic community portals,
leveraging GEOSS Common Infrastructure (GCI) resources
and GEO DAB APIs

GEO Discovery and Access Broker (DAB)





- ✓ RDH is designed to become the focal node in the region in the context of GEOSS and Copernicus implementation.
- It is an open data web management tool / portal (developed using web technologies such as PHP, HTML5, JavaScript, CSS, etc.) that provides access to region-related datasets and services, directly fed from GCI, and at the same time being the central gateway for regional data providers to contribute easily and timely their products to GEOSS.
- It advances the current state of the art by integrating DKAN, which is a complementary implementation of CKAN (Comprehensive Knowledge Archive Network) over Drupal/PHP, with the GEO DAB APIs. DKAN CMS (Content Management System) is an open-source data management platform that treats data as content, facilitating the subsequent publication, management, and maintenance of these, no matter the administration team, its size and level of technical expertise.



✓ Several **achievements** were accomplished for the RDH to be able to provide its users the functionalities described above:

- **Search in multiple sources** (although by default DKAN looks up for datasets and resources in a single local database).
- **Search for datasets in remote resources** (integration of the GEO DAB APIs in the DKAN environment).
- **Display the remote datasets and resources on-the-fly and with high performance** (using a rendering cache mechanism which also implements an Adaptive Time-to-Live consistency mechanism to periodically check the consistency of the cached rendering structures with the original data to assure that users do not receive stale data).
- **Cleaning data mechanism** (cleans identical or duplicate data, discovers missing information for data, discovers URL that have changed or that are not working anymore, discards data with invalid URL schemes, etc.)
- **Preview mechanism** (to preview data of various formats and services, such as CSV files, Web Map Services, Zip files, etc.)

An integrated Search and Display mechanism that offers the users unified, centralized and user-friendly interface.



Regional Data Hub: Example

A First Search Example (that returns datasets local to RDH)



Geocradle

(1)

Select the
"Datasets" section

Datasets

News

Log in

Register

 / Home

Search by key words and filters



Get your search results



Datasets

Search

climate

Apply

Select any filter and click on Apply to see results

(2)

Apply free text
(e.g. climate)



Regional Data Hub: Example



Geocradle

Home Groups Datasets News Log in Register

Home / climate / Dataset

Page breadcrumb which depicts user's applied filters according to their appliance order

Content Types

Dataset

Tags

Format

Publisher

Global Earth Observation System of Systems (GEOSS) (5021)

Related Portals and Sites (23)

PILOT 1: Adaptation to Climate Change (ACC) (1)

Author

License

Datasets

5045 results

Search

climate

Apply

Datasets as search results



DEAR-Clima

PILOT 1: Adaptation to Climate Change (ACC)

The DEAR-Clima (Data Extraction Application for Regional Climate) is a user friendly interactive web application tool that visualizes and provides time series of essential climate variables and climate indices based on high

2 x Resource(s)



The Satellite Application Facility on Climate Monitoring (CM SAF)

Related Portals and Sites

The Satellite Application Facility on Climate Monitoring generates, archives and distributes widely recognised high-quality satellite-derived products and services for climate monitoring in operational mode.

1 x Resource(s)



FAO - FFEM Database

Related Portals and Sites

The database of the regional project "Maximize the production of goods and services of Mediterranean forest ecosystems in the context of global changes" funded by the French Global Environment Facility (FFEM) has been

Search Facets that allow the users to further filter the search results



Regional Data Hub: Example



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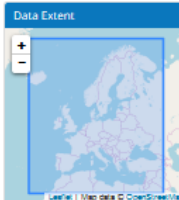
Home / Datasets / DEAR-Clima

View Revisions



PILOT 1: Adaptation to Climate Change (ACC)

The RoI has been recognized by the Intergovernmental Panel on Climate Change as one of the most sensitive and vulnerable to climate change regions on Earth. Climate change is governed to a large...



License

Open Data Commons Open Database License (ODbL)

Other Access

The information on this page (the dataset metadata) is also available in these formats.

JSON RDF

via the ODK API

Social

Twitter

LinkedIn

Reddit

Google+

Facebook

DEAR-Clima

Dataset's Title

The DEAR-Clima (Data Extraction Application for Regional Climate) is a user friendly interactive web application tool that visualizes and provides time series of essential climate variables and climate indices based on high horizontal resolution Regional Climate Model (RCM) simulations from the Coordinated Regional Downscaling Experiment (CORDEX) research program. Reliable and user friendly open access of future climate change data from high resolution RCM projections is essential to support decision makers, stakeholders, intermediary users and end-users for climate change impacts, mitigation and adaptation. The RCM data processed in this web application tool have a high spatial resolution (0.11°) over the European domain and cover a time period from 1950 to 2100. The historical period of each experiment refers to 1950-2004, while the future period is 2006-2100 under the influence of three Representative Concentration Pathways (RCPs) adopted by the IPCC for its fifth Assessment Report (AR5): rcp26, rcp45 and rcp85. The simulation experiments are a product of various RCMs driven by several Global Climate Models (GCMs).

Data and Resources

DEAR-Clima Application Resource

The development of this web application tool was funded by the GEO-CRADLE...

EURO-CORDEX DATA

The CORDEX regional climate model (RCM) simulations for the European domain...

climate change Regional climate RCMs CORDEX Future Projections Scenarios Data extraction
Climate Variables Climate Indices Visualization

Dataset Info

These fields are compatible with DCAT, an RDF vocabulary designed to facilitate interoperability between data catalogs published on the Web.

Field	Value
Publisher	PILOT 1: Adaptation to Climate Change (ACC)
Modified Date	2017-11-23
Release Date	2017-11-23
Frequency	Daily
Identifier	d64ab8ed-f37f-4158-af15-3ed4def9cdd3
Homepage URL	http://meteo.geo.auth.gr:3838/
Spatial / Geographical Coverage Area	POLYGON ((-22 27, -22 72, 45 72, 45 27))
Spatial / Geographical Coverage Location	The domain covers the greater area of Europe including the Mediterranean and a part of N.Africa.
Temporal Coverage	Sunday, January 1, 1950 - 00:00 to Thursday, December 31, 2099 - 00:00
Language	English (United Kingdom)
License	Open Data Commons Open Database License (ODbL)
Author	Athanasios Tsikerdekis, Dimitris Akritidis, Prodrimos Zanis
Contact Name	Athanasios Tsikerdekis
Contact Email	ClimateProjectionApp@gmail.com
Public Access Level	Public

Related Content:

CORDEX: Coordinated Regional Downscaling Experiment

Full Page View of the Dataset

Dataset's Data Extent

Dataset's License widget

Other Access widget (Provides JSON & RDF view of the Dataset)

Social widget (The user can instantly share the dataset through various social media platforms)

Dataset's Description

Dataset's Links to its Resources

Dataset's tags (Provide links that initiate searches with these tags)

Dataset's Additional Information



Regional Data Hub: Example

Full Page
View of the
Dataset's
Resource

Welcome

The Data Extraction Application for Regional Climate (**DEAR-Clima**) is a user friendly interactive web application tool that visualizes and provides time series of essential climate variables and climate indices based on high horizontal resolution Regional Climate Model (RCM) simulations from the Coordinated Regional Downscaling Experiment (**CORDEX**) research program. Reliable and user friendly open access of future climate change data from high resolution RCM projections is essential to support decision makers, stakeholders, intermediary users and end-users for climate change impacts, mitigation and adaptation. The RCM data processed in this web application tool have a high spatial resolution (0.11°) over the european doamin and cover a time period from 1950 to 2100. The historical period of each experiment refers to 1950-2004, while the future period is 2006-2100 under the influence of three Representative Concentration Pathways (RCPs) adopted by the IPCC for its fifth Assessment Report (AR5); rcp26, rcp45 and rcp85. The simulation experiments are a product of various RCMs driven by several Global Climate Models (GCMs).

The development of this web application tool was funded by the **GEO-CRADLE** project that aims to coordinate and integrate state-of-the-art Earth Observation activities in the regions of North Africa, Middle East, and Balkans and develop links with GEO related initiatives towards GEOSS. The server is located at the **Department of Meteorology and Climatology** , School of Geology, Aristotle University of Thessaloniki, Greece.





Regional Data Hub: Example

DEAR-Clima Home Domain Experiments Scenarios Variables Application About Contact

You are logged in as haris Guidelines

Input

Insert Longitude: 10,2560612

Insert Latitude: 36,8403018

Temporal Selection: Yearly

Variable: Temperature (2m)

Update

Model Longitude: 10.25048

Model Latitude: 36.83108

Longitude ID, Latitude ID: 201 90

Hints: Model longitude and latitude indicate the center of the 11x11 km grid cell selected (red point) according to the longitude and latitude values provided in the input panel (blue point)

Map:

MAP:
Tunis

DEAR-Clima Home Domain Experiments Scenarios Variables Application About Contact

You are logged in as haris Guidelines

Input

Insert Longitude: 10,2560612

Insert Latitude: 36,8403018

Temporal Selection: Yearly

Variable: Temperature (2m)

Update

Timeseries (ΔT):

Hints: Drag-and-drop to zoom into a specific period. Return back to the initial stage by double clicking anywhere in the plot area. Change the displayed features using the Graphical Options panel. The ΔT plot is calculated by subtracting the mean value of the historical period 1960-1990 from all the values of the historical, rcp26, rcp45 and rcp85 experiments.

Temperature 2m, E-11 (Lon:10.25, Lat:36.831, Alt:10)

Full Period Future

TIMESERIES
(ΔT):
Temperature
2m (°C)



Regional Data Hub: Tunisia



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Home / Tunisia / Dataset

Content Types
Dataset
Tags
Format
Raster Dataset (102)
text/tab-separated-values (35)
txt (9)
Shapefile (6)
application/zip (2)
html (2)
MS Access (2)
kmz (1)
SQLite (1)
Publisher
Global Earth Observation System of Systems (GEOSS) (9409)
Related Portals and Sites (2)
Author
License

Datasets

9411 results

Search

Tunisia

Apply



FAO - FFEM Database

[Related Portals and Sites](#)

The database of the regional project "Maximize the production of goods and services of Mediterranean forest ecosystems in the context of global changes" funded by the French Global Environment Facility (FFEM) has been

1 x Resource(s)



Solar Med Atlas

[Related Portals and Sites](#)

The "Solar Atlas for the Mediterranean" is a portal for global horizontal and direct normal irradiance data for the southern and eastern Mediterranean region. The project will bring high resolution (1km), long term coverage (20 years)

2 x Resource(s)



wind map tunisia 1km 60m ANME-CENER 2004-2009

[Global Earth Observation System of Systems \(GEOSS\)](#)

Project financed by the Spanish Agency of International Cooperation for Development (AECID) and the Government of Navarra in collaboration with the Government of Tunisia through the agency, Agence Nationale pour la Maîtrise

2 x Resource(s)



wind map tunisia 1km 100m ANME-CENER 2004-2009

[Global Earth Observation System of Systems \(GEOSS\)](#)

Project financed by the Spanish Agency of International Cooperation for Development (AECID) and the Government of Navarra in collaboration with the Government of Tunisia through the agency, Agence Nationale pour la Maîtrise

2 x Resource(s)



wind map tunisia 1km 10m ANME-CENER 2004-2009

[Global Earth Observation System of Systems \(GEOSS\)](#)



GEO and Copernicus for Tunisia

GEO: a unique global partnership of more than 100 national governments and in excess of 100 Participating Organizations.

VISION: a future where decisions and actions, for the benefit of humankind, are informed by coordinated, comprehensive and sustained Earth observation information and services.

MISSION: A central part is to build the Global Earth Observation System of Systems (GEOSS). GEOSS is a set of coordinated, independent Earth observation information and processing systems, aiming to link these systems together to strengthen the monitoring of the Earth (more than 200 million open data resources).

INITIATIVES: AfriGEOSS (Africa), AmeriGEOSS (Americas), AOGEOSS (Asia & Oceania), EuroGEOSS (Europe).


home > members search our site here

GEO GROUP ON EARTH OBSERVATIONS

Who we are ▾ What we do ▾ News ▾ Get Involved ▾ Events ▾ Get Data Now

Member map Member list Member charts

GEO Member's Map



Member Country info

Tunisia

GEO Principal
Fethi Lebdi

GEO Principal Alternate
Zohra Lili Chabaane

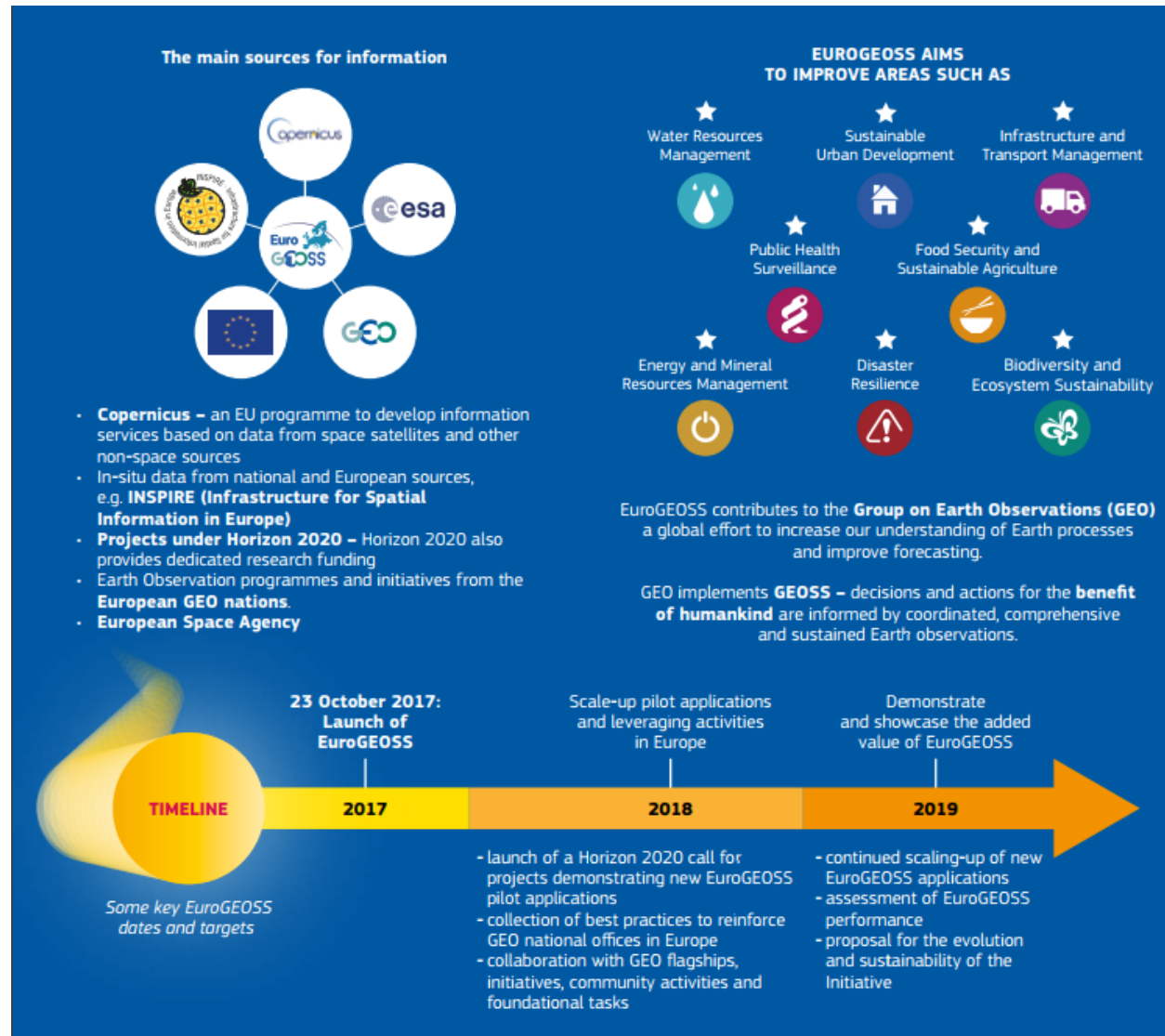
GEO-CRADLE and the Greek GEO Office can support the establishment of a GEO Office in Tunisia



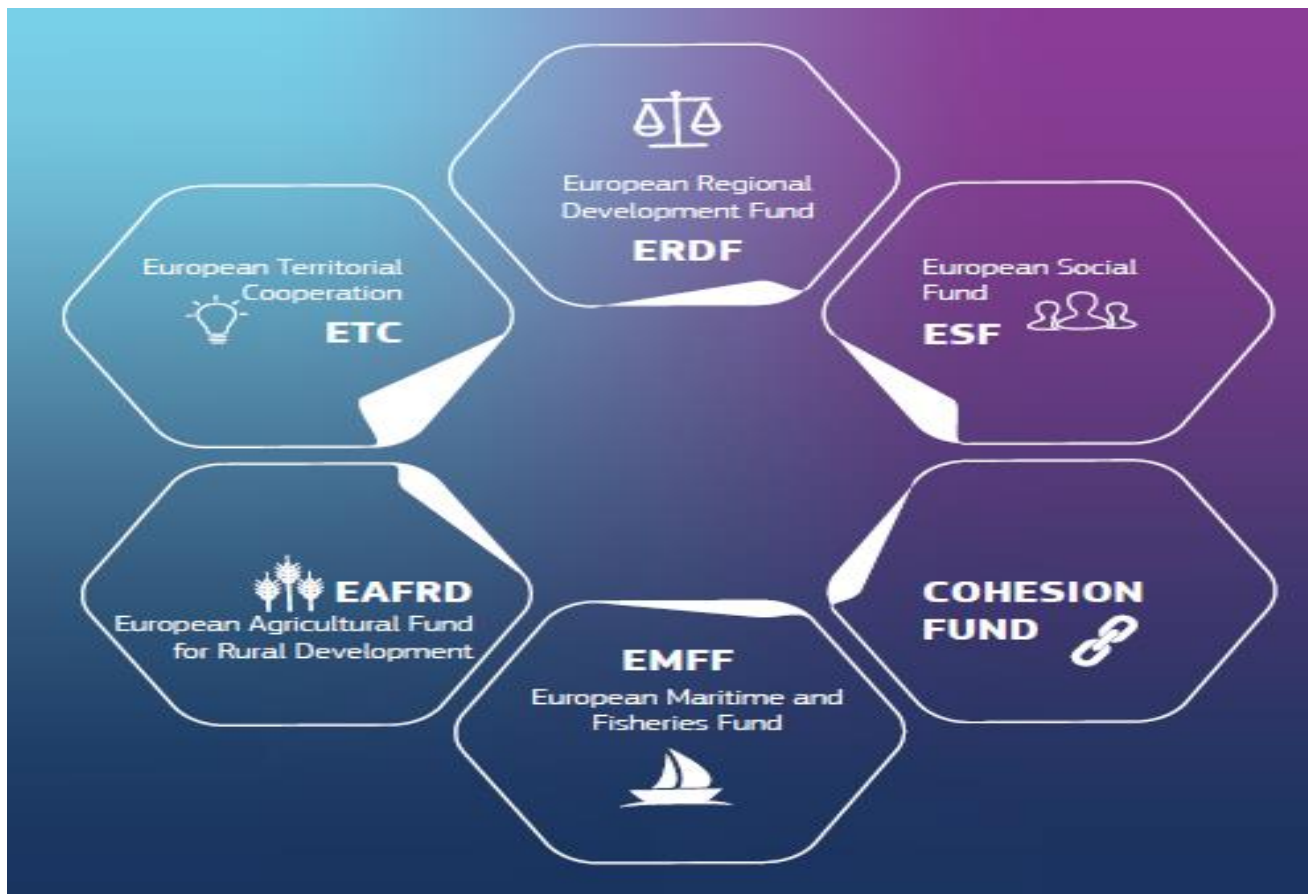
GEO and Copernicus for Tunisia



- Focus on coordination and scaling-up of user-driven applications being developed in Europe using Earth Observation data.
- Includes GEO-CRADLE applications from its pilots, e.g. solar energy (high resolution solar atlas for Egypt - already delivered).



European Structural and Investment Funds (ESIF) 2014-2020

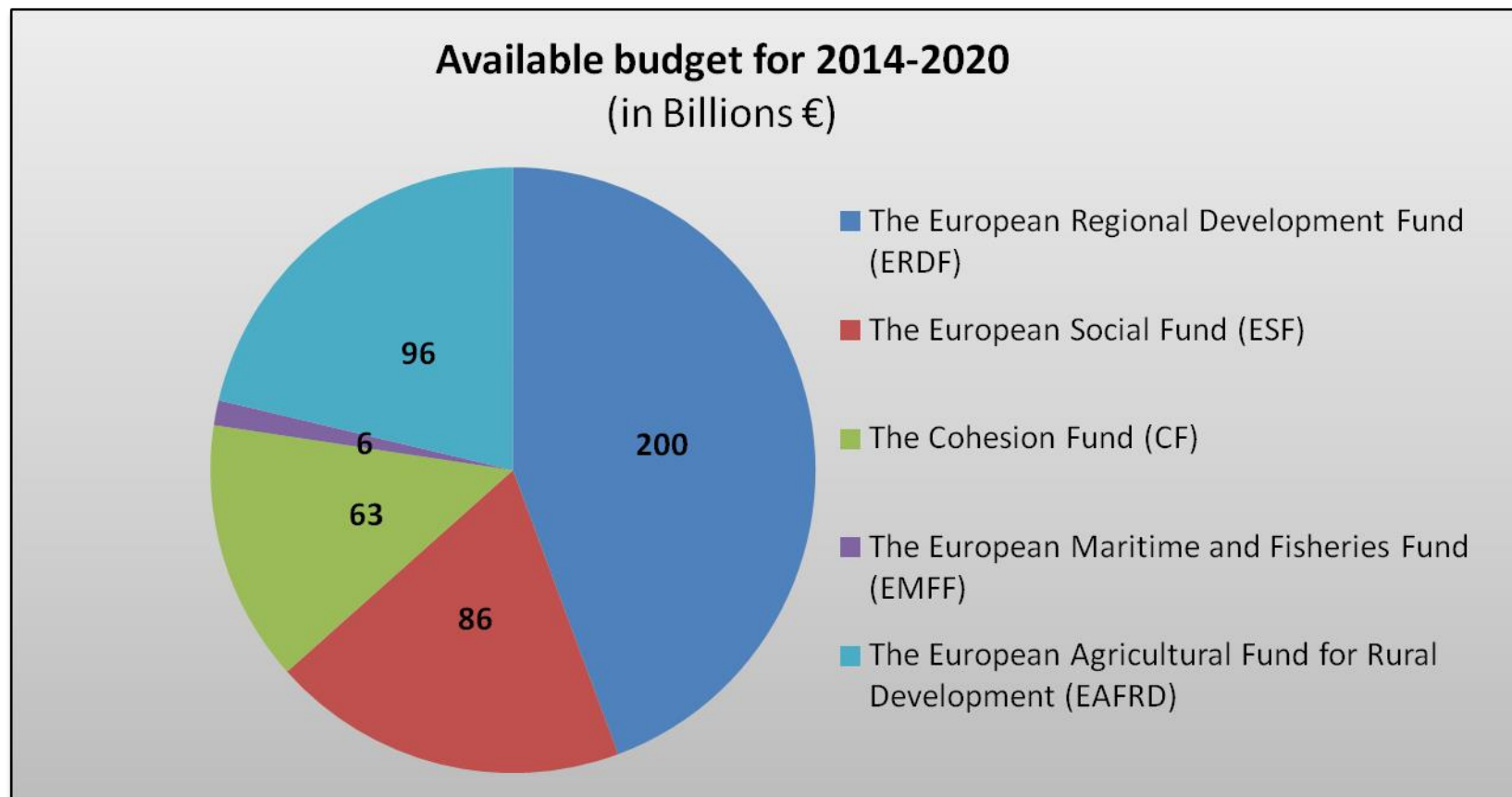


- 1) European Regional Development Fund (ERDF)*
- 2) European Social Fund (ESF)
- 3) Cohesion Fund (CF)
- 4) European Maritime and Fisheries Fund (EMFF)
- 5) European Agricultural Fund for Rural Development (EAFRD)

* including European Territorial Cooperation (ETC) / INTERREG

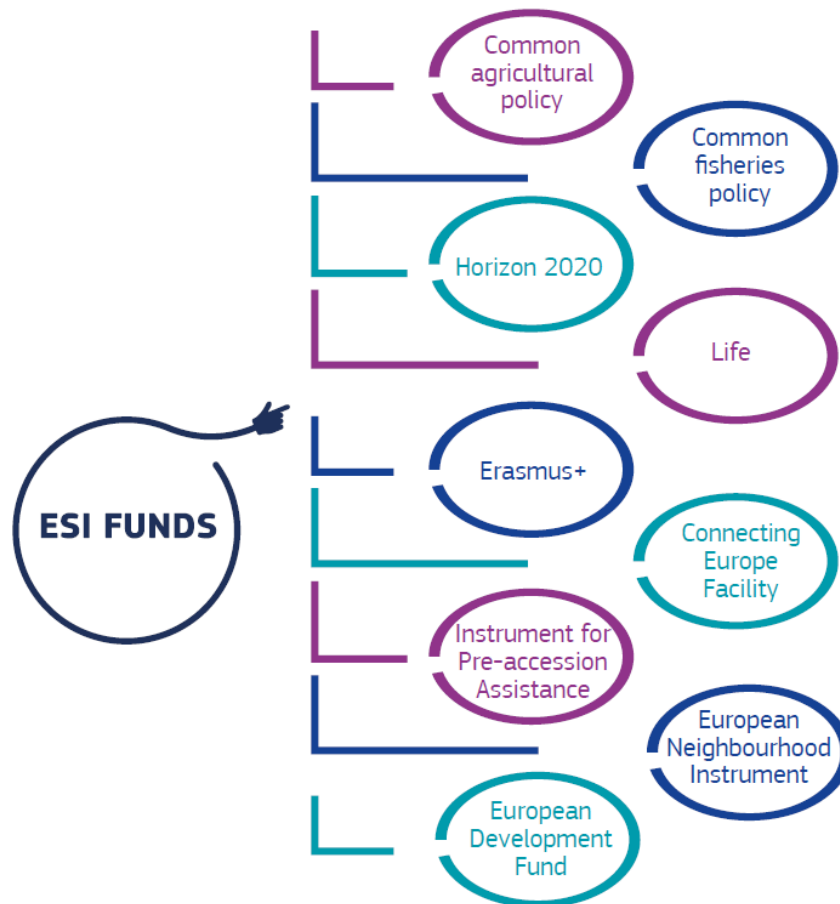
https://ec.europa.eu/info/funding-tenders/european-structural-and-investment-funds_en

European Structural and Investment Funds (ESIF) 2014-2020



European Structural and Investment Funds (ESIF) 2014-2020

The Common Strategic Framework also sets out practical ways to build synergies between the ESI Funds and other EU policies and instruments:



<http://geocradle.eu/>

The **European Neighbourhood Instrument (ENI)** is the main EU financial instrument during the financial period 2014-2020, funding the European Neighbourhood Policy (ENP) which covers cooperation with EU's 16 Neighbours.

PARTNER COUNTRIES

The EU's 16 Neighbours
in the South and in the East

South



East



European Neighbourhood Instrument (ENI)

Budget of ENI for 2014-2020: € 15.4 billion.



ANSA Centimetri for the EU Neighbourhood Info Centre - www.enpi-info.eu

<http://www.enpi-info.eu/files/publications/ENI.pdf>

<http://geocradle.eu/>



Development Cooperation Instrument (DCI)

The DCI covers all the developing countries except the countries eligible for the Pre-Accession Instrument. There are 3 specific components covered:

Geographic programmes

Thematic programmes

Pan-African Programme

Thematic programmes benefit all developing countries (including those covered by the ENPI and the EDF). These programmes add value, complementarity and coherence to the geographical programmes. There are 2 categories:

- ✓ 'Global public good and challenges': this programme addresses **climate change, environment, energy**, human development, **food security** and migration while ensuring coherence with the poverty reduction objective. No less than 27% of this programme is spent on climate change and environment objectives. At least 25% of the programme is used to support social inclusion and human development.
- ✓ 'Civil society organisations and local authorities': this programme provides greater support to civil society and local authorities to encourage them to play a bigger role in development strategies.

Highly relevant to
GEO-CRADLE!



Development Cooperation Instrument (DCI)

The DCI covers all the developing countries except the countries eligible for the Pre-Accession Instrument. There are 3 specific components covered:

Geographic programmes

Thematic programmes

Pan-African Programme

Global Monitoring for Environment and Security in Africa (GMES & Africa)

Budget €29.5 million distributed as follows: €17.5 million for Grants, €6 million for capacity development, outreach and awareness creation, PMU staff salaries, programme management and coordination, etc. , €6 million for the technical support, including the technical assistance.

The **African Union Commission (AUC)** officially awarded grants to **13 successful consortia of institutions that will serve as Regional Implementing Centres** for the GMES & Africa Support Programme, following a Call for Proposals in May 2017.

Selection from **North Africa**: National Authority for Remote Sensing & Space Sciences (**NARSS**) for marine and coastal area service; Observatoire du Sahara et du Sahel (**OSS**) for water and natural resources service.

<https://au.int/web/en/GMESAfrica/2017call>

<http://geocradle.eu/>



The PRIMA initiative

The European Commission has agreed on a proposal for a **Partnership for Research and Innovation in the Mediterranean Area (PRIMA)**, which is set to develop much-needed novel solutions for **sustainable water management and food production**, within the framework of a reinforced Euro-Mediterranean co-operation.

**Highly relevant
to GEO-CRADLE!**

Funding for the **€400 million** partnership will come from the participating countries (currently around €200 million), matched by a €200 million contribution from the EU through its current research framework programme Horizon 2020. The partnership will run for **10 years, starting in 2018**.

The PRIMA Joint Programme involves **19 countries**:

- 11 Member States: Croatia, Cyprus, the Czech Republic, France, Greece, Italy, Luxembourg, Malta, Portugal, Slovenia and Spain;
- 8 third countries: Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, **Tunisia** and Turkey.

Of these, 14 countries (Cyprus, the Czech Republic, Egypt, France, Greece, Israel, Italy, Lebanon, Luxembourg, Malta, Morocco, Portugal, Spain and **Tunisia**) have agreed to jointly undertake the PRIMA initiative.

The participation of Germany is currently under negotiation. As the initiative is evolving over time, more participants are expected to follow, both EU and non-EU countries.

<http://ec.europa.eu/research/environment/index.cfm?pg=prima>

<http://geocradle.eu/>



thank you!

