



Coordinating and integrating state-of-the-art
Earth Observation Activities in the regions of
North Africa, Middle East and Balkans
and Developing Links with GEO related initiatives
toward GEOSS

GEO-CRADLE:

Fostering regional cooperation
and roadmap for GEO and
Copernicus implementation in
North Africa, Middle East and
Balkans



<http://geocradle.eu/>

Dr. Haris KONTOES
Project Coordinator
Research Director NOA

... is a unique EU funded Coordination Action running at regional level;
... is looking at the territories of North Africa, Middle East and Balkans;

It seeks to identify common needs, create synergies, and integrate capacities;

Fosters the regional cooperation and integration of monitoring capabilities and networks, as well as scientific skills;

Define and communicate goals that are clear and beneficial from societal and market wise point of view, and also realistic and in line with the domestic priorities and user needs;

Proposes/sets up large scale regional initiatives based on the Earth Observation (space based and in-situ) for capacity building and also addressing societal priorities in the thematic areas of the project such as Adaptation to Climate Change, Access to Raw Materials, better exploitation of the renewable Energy resources, and Food Security.

Objectives

- ✓ Promote the uptake of EO services and data in response to regional needs.
- ✓ Support the effective integration of existing Earth Observation Capacities in the region.
- ✓ Facilitate the engagement of the complete ecosystem of EO stakeholders in the region.
- ✓ Enhance the participation in and contribution to the implementation of GEOSS and Copernicus in North Africa, Middle East and the Balkans.



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Thematic Areas



Adaptation to Climate Change (ACC)



Improved Food Security – Water Extremes Management (IFS)



Access to Raw Materials (ARM)



Access to Energy (SENSE)





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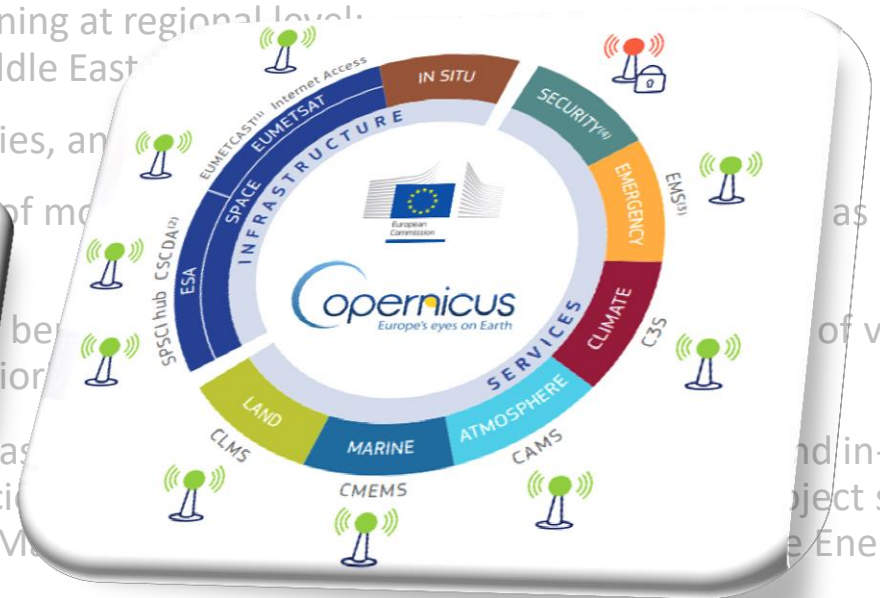
GEO-CRADLE

... is a unique EU funded Coordination Action running at regional level.
... is looking at the territories of North Africa, Middle East

It seeks to identify common needs, create synergies, and

Foster scientific cooperation of member states
Define a common vision and strategy for the region

Proposes/sets up large scale regional initiatives based on (in-situ) for capacity building and also addressing societal challenges such as Adaptation to Climate Change, Access to Raw Materials, Energy resources, and Food Security.



Objectives

- ✓ **Promote** the uptake of EO services and data in response to regional needs.
- ✓ **Support** the effective integration of existing Earth Observation Capacities in the region.
- ✓ **Facilitate** the engagement of the complete ecosystem of EO stakeholders in the region.
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25 Partners, 3 Continents, 1 Team

► **GEO-CRADLE** brings together a highly-complementary team combining a strong background in GEO-related coordination activities with proven excellence in the field of Earth Observation:

- Leading research institutes and universities
- Highly-esteemed international associations
- Service Providers with strong regional presence



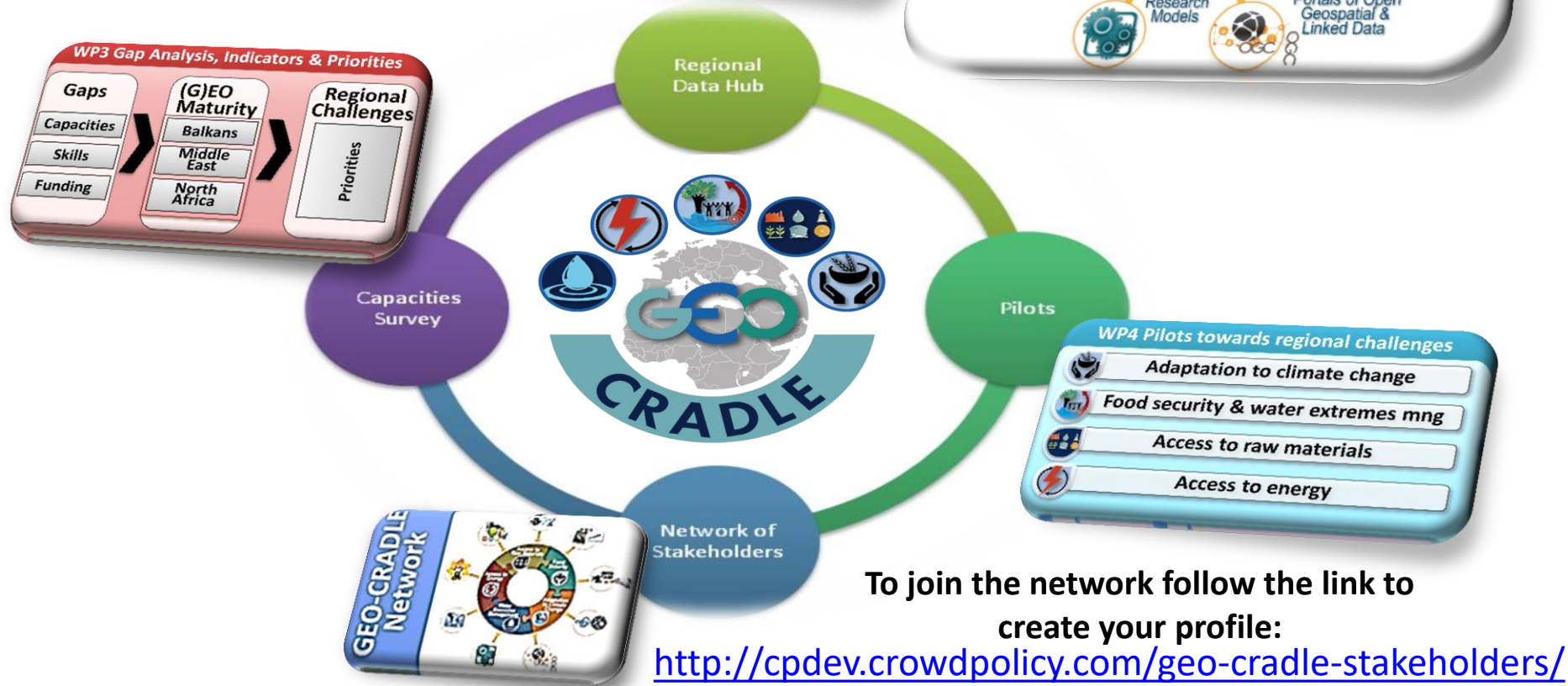
**NATIONAL
OBSERVATORY OF
ATHENS
Coordinator**





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The Project Pillars





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To join & search the network follow the link

<http://cpdev.crowdpolicy.com/geo-cradle-stakeholders/>

GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

Country Organisation Name Thematic Area

Roadmap Terrain Satellite Zoom In Zoom Out

Search by Keywords

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

COUNTRIES
26

STAKEHOLDERS
237

PROFILES VIEWS
3492

RECENT STAKEHOLDERS

List of recently active stakeholders in GEO - CRADLE database. Check what is going on.



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The Project Pillars



Regional Data Hub – Connection with GEOSS & Regional Portals



Home Groups Geocradle Stakeholders Database



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.

Trial mode

data mode



Data



Innovation



Involvement



Growth



Climate Change



Raw Materials



Food And Security



Energy

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Υπερπληροφορίες και
Συνεργασίες με το Δίκτυο

Υπερπληροφορίες και
Συνεργασίες με το Δίκτυο

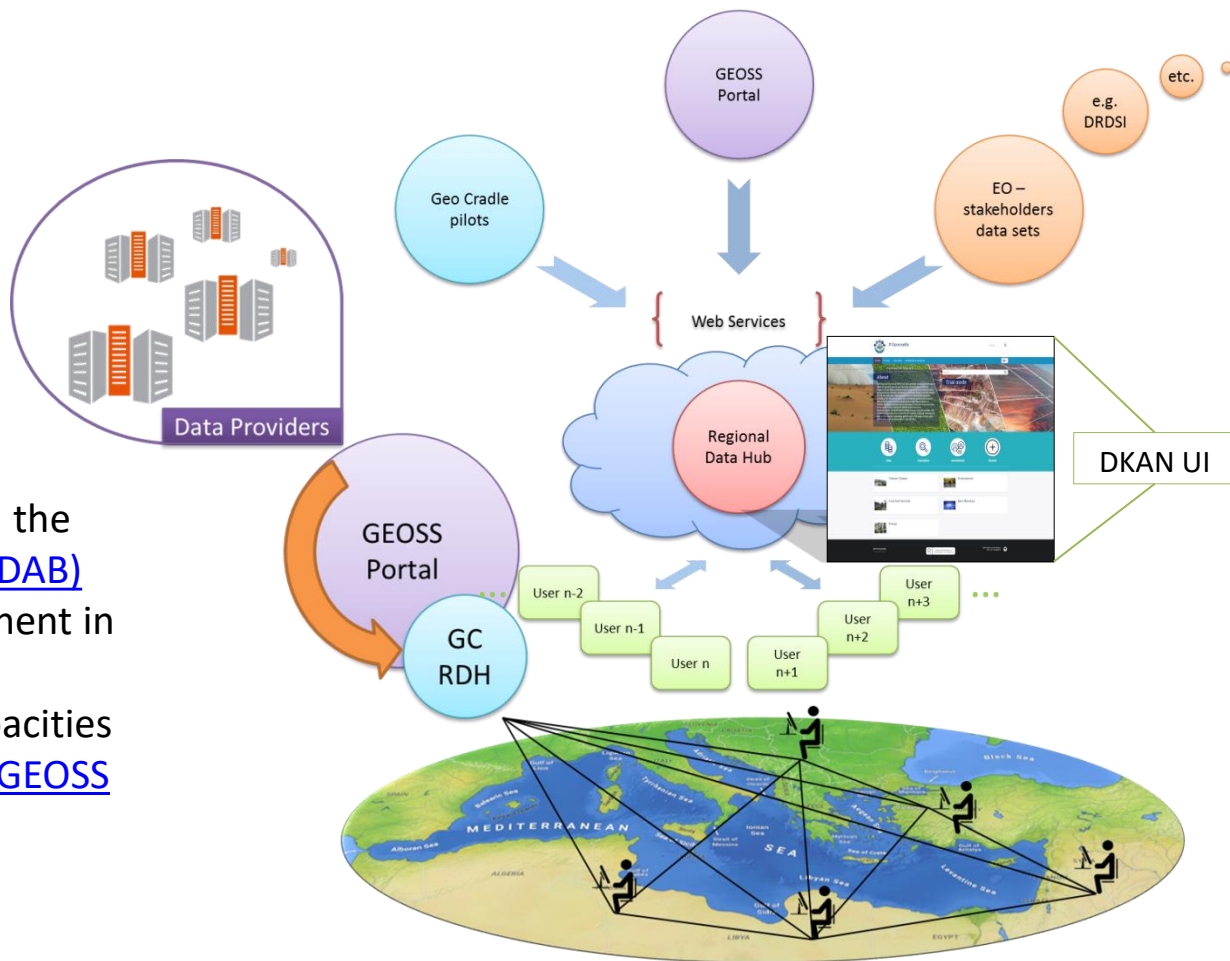





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Regional Data Hub – Connection with GEOSS & Regional Portals


- The GEO CRADLE Regional Data Hub (GC-RDH) is going to provide its users with a transparent discovery and access mechanism of the [GEOSS portal](#)'s resources, and other regional portals!
- This mechanism will heavily rely on the [GEO Discovery and Access Broker \(DAB\) APIs](#) which is a middleware component in charge of interconnecting the heterogeneous and distributed capacities contributing to GEOSS; part of the [GEOSS Common Infrastructure \(GCI\)](#) since November 2011.





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Utilizing the GEO DAB APIs for easy access and discovery of regional EO data



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟ ΠΕΡΙΒΑΛΛΟΝΤΟΣ, ΧΩΡΟΤΑΞΙΑΣ ΚΑΙ ΚΛΙΜΑΤΟΣ
ΕΘΝΙΚΟ ΟΡΓΑΝΟ ΓΕΩΓΡΑΦΙΚΩΝ ΔΕΔΟΜΕΝΩΝ


IAASARS

HomeGroupsGeocradleStakeholder DatabaseDatasets

Log inRegister

Home / Groups


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).


25318292 datasets



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 to climate change regions


0 datasets



PILOT 2: Improved Food Security - Water Extremes Management (IFS)

Food security depends on many aspects such as water abundance and extremes (flooding and drought), vegetation stresses, yield monitoring, soil qual


0 datasets



PILOT 3: Access to Raw Materials (ARM)

For the first time, GEO-CRADLE will make available in the RoI the roadmap for long-term monitoring, mapping, and management of mineral deposits, al


0 datasets



PILOT 4: Access to Energy (SENSE)


GEO-CRADLE will lead a coordinated effort to support and improve the regional EO infrastructures through the Solar Energy Nowcasting System (SENSE)

0 datasets



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Home / climate / Dataset

Content TypesDatasetTags

NECLIME (160)

Neogene Climate Evolution in Eurasia (160)

ERA-CLIM (89)

European Reanalysis of Global Climate Observations (89)

Mediterranean Sea Acidification in a Changing Climate (68)

MedSea (68)

Abrupt Climate Changes and Environmental Responses (50)

ACER (50)

Climate - Biogeochemistry Interactions in the Tropical Ocean (50)

SFB754 (50)

Format

text/tab-separated-values (487)

application/zip (35)

text/html (15)

application/pdf (1)

PRN (1)

Publisher

8426 results

Search

climate


Sort by

Date changed

Order


Descending

Apply




Mediterranean Sea Acidification in a changing climate

Increases of atmospheric CO2 and associated decreases in seawater pH and carbonate ion concentration this century and beyond are likely to have wide impacts on marine ecosystems including those of the Mediterranean Sea.




PO-SPACC - Portuguese small pelagic fish and climate change programme: a comparative retrospective analysis

Fluctuations in small pelagic fish recruitment in the North-eastern Atlantic upwelling ecosystem have been observed, namely decreasing trends in the last decades. Sardine, horse mackerel and anchovy are




Burkina Faso, Mali, Niger and Senegal: Agricultural Potential in Relation to Soils and Climate

This map shows the potential for agricultural development in different areas of Burkina Faso, Mali, Niger and Senegal based on the soils and climate of these areas.




Climate Change Adaptation & Coastal Cities of North Africa Reports

These reports are parts of the deliverables produced by the "Climate Change Adaptation & Coastal Cities of North Africa Project".



Calcareous plankton response to orbital and millennial-scale climate changes from ODP Leg 161-975

The paleoenvironmental conditions through MIS 15-9 at the Mediterranean Ocean Drilling Program (ODP) Site 975 were interpreted by high resolution study of calcareous plankton assemblages compared with available d18O and d13C records and high resol



Paleo-climate reconstruction on sediment core M72/5_628-1 (25-GC-1), Black Sea

The Marine Isotope Stage (MIS) 3 stands out due to its abrupt changes from cold and dry stadials to warm and humid interstadials, the so-called Dansgaard-Oeschger cycles that also affected temperature and rainfall in the Black Sea region



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License

License not specified

Other Access

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



via the [DKAN API](#)

Social

[Twitter](#)

[LinkedIn](#)

[Reddit](#)

[Google+](#)

[Facebook](#)

Mediterranean acidification under the influence of climate change as well as associated economic impacts.

Projections will be based on new observations of chemical conditions as well as new observational and experimental data on the responses of key organisms and ecosystems to acidification, which will be fed into existing ocean models that have been improved to account for the Mediterranean's fine-scale features. These scientific advances will allow us to provide the best advice to policymakers who must develop regional strategies for adaptation and mitigation.

Data and Resources

Dataset Info

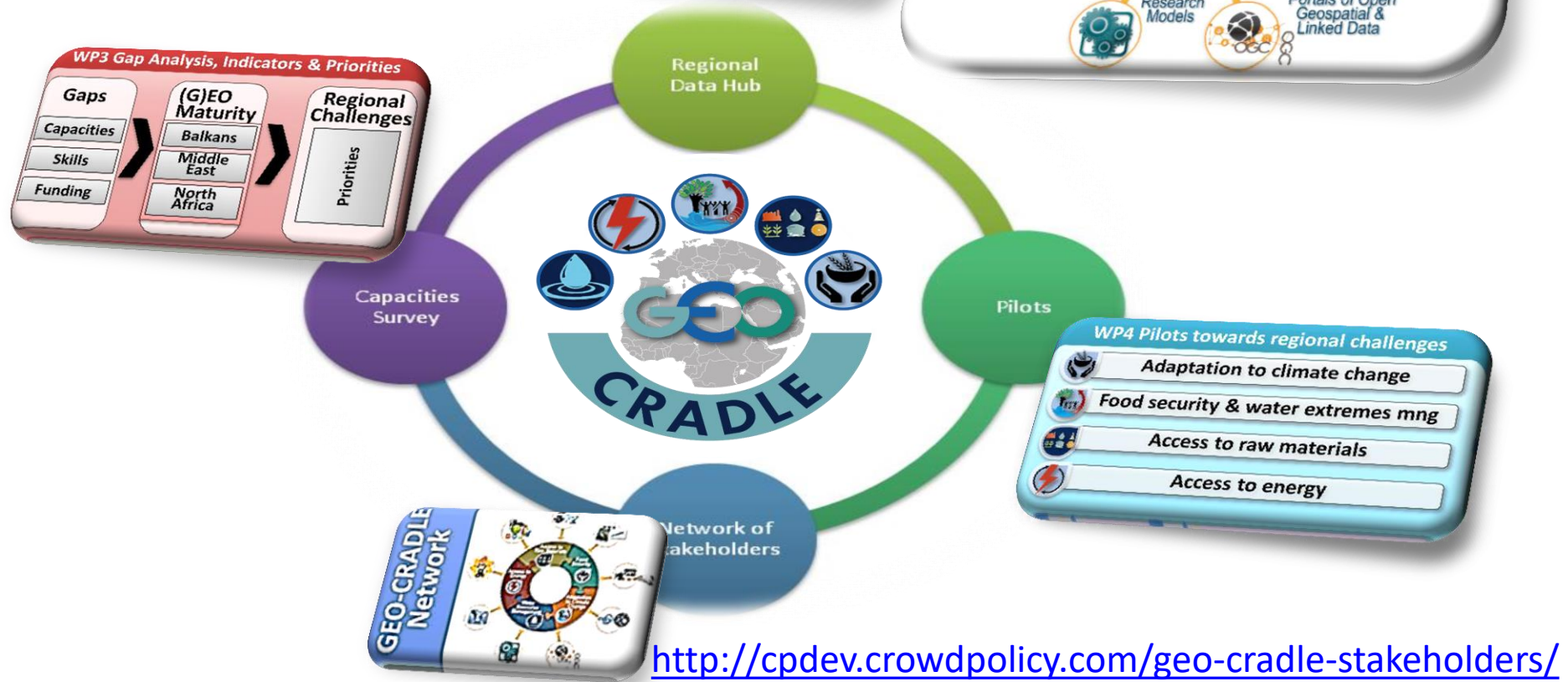
i These fields are compatible with [DCAT](#), an RDF vocabulary designed to facilitate interoperability between data catalogs published on the Web.

Field	Value
Publisher	Global Earth Observation System of Systems (GEOSS)
Modified Date	2012-03-02
Release Date	2012-03-02
Identifier	C1214598306-SCIOPS
Spatial / Geographical Coverage Area	POLYGON ((-8 28, 36 28, 36 46, -8 46, -8 28))
Temporal Coverage	Tuesday, February 1, 2011 - 02:00 to Saturday, February 1, 2014 - 01:59



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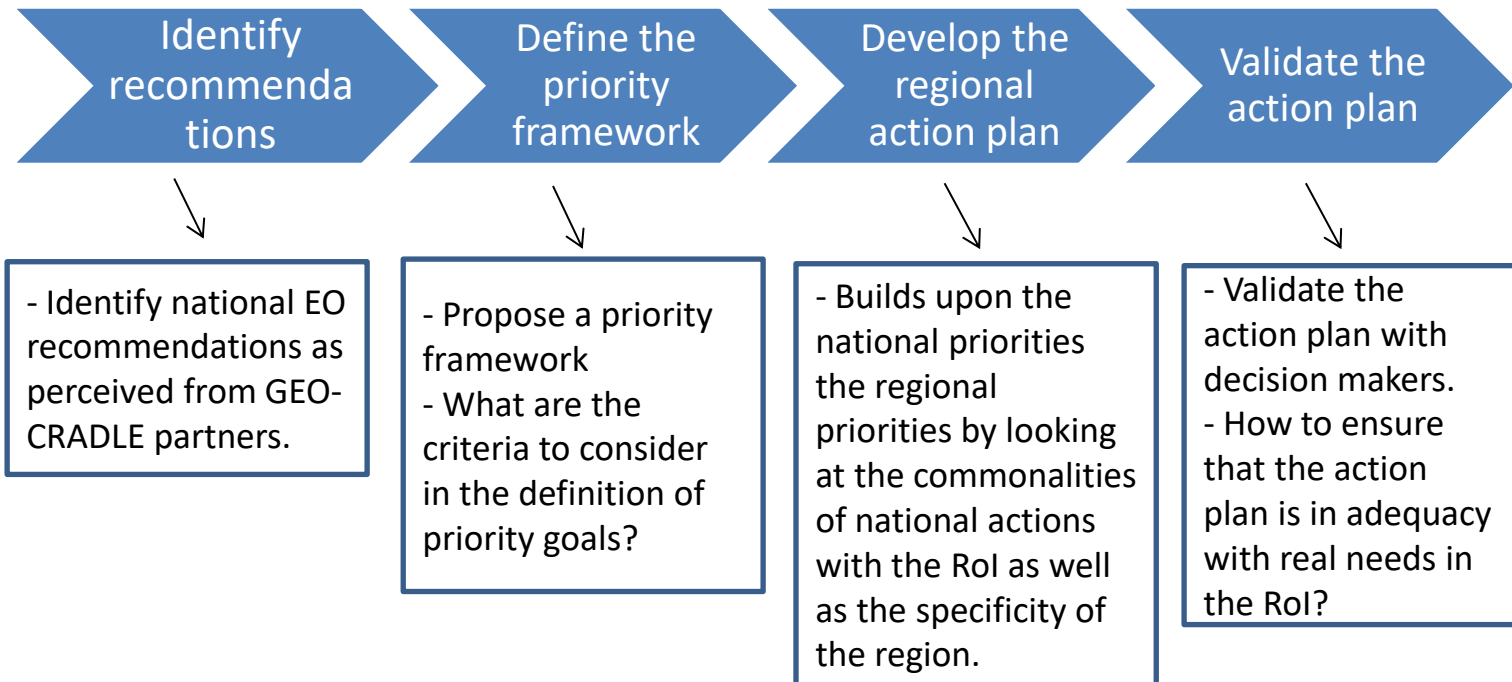
The Project Pillars



<http://cpdev.crowdpolicy.com/geo-cradle-stakeholders/>

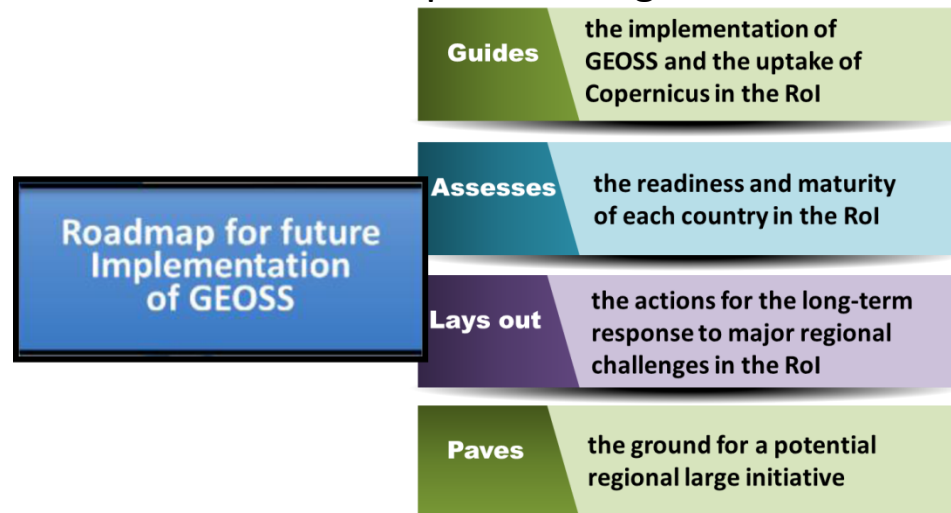
The Regional Priorities

Priority Definition Workflow



The GEO-CRADLE Contribution

- 1. Submit to the EC a roadmap** with funding priorities in relation to capacity building, filling in gaps (networks, infrastructures, data sharing, skills), training, education, service provision, and business uptake at regional level



- 2. Engage the countries and regional stakeholders** in the data sharing process, the use of open standards, and facilitate the access of the local actors to existing portals, web servers, data repositories, and satellite image archives through big infrastructures such as GEOSS, the European Data Portal, Copernicus data/service portals, and any existing regional Data Hubs (e.g. GEO-CRADLE RDH)

The GEO-CRADLE Contribution

3. **Generate and sustain a network stakeholders** to ensure visibility, and sharing of knowhow, excellence, and skills between the local actors and their counterparts worldwide
4. **Deliver a prototype methodology and a detailed assessment** on the nations' (market and science) maturity in relation to EO. Compare the regional capacity/state-of-the-art with the ones of developed countries in space, and find the complementary roles where they exist
5. **Support the EO market** uptake and internationalisation by,
 - ❖ Understanding the local market, and capacities
 - ❖ Mapping existing policies in sectors that may need support from EO
 - ❖ Facilitating access to open data
 - ❖ Mapping the local competitive landscape
 - ❖ Engaging the end-user community
 - ❖ Facilitating partnering with international interlocutors (companies, researchers, industries)
 - ❖ Building trust / Overcoming cultural and linguistic issues
6. **Advance the role of the countries in GEO, and Copernicus** by,
 - ❖ Setting up local GEO offices, Copernicus Relay Offices, and/or nominating official GEO representations at various levels
 - ❖ Strengthening the EO industrial/research dimension by using Copernicus & GEO as key drivers
 - ❖ Helping the stakeholders understand how they can benefit from and contribute to GEOSS



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Search



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

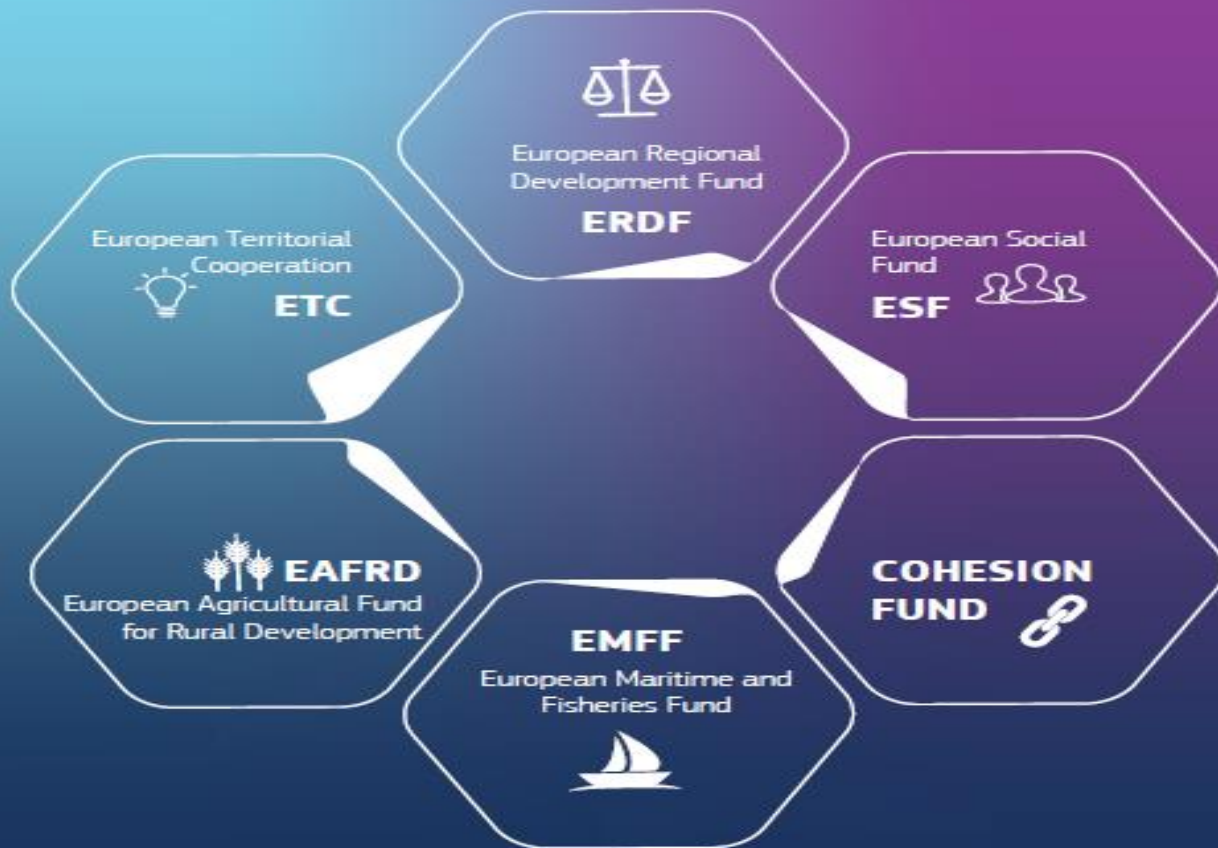
Explore the available funding opportunities and the benefit of



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EU Funding Opportunities

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

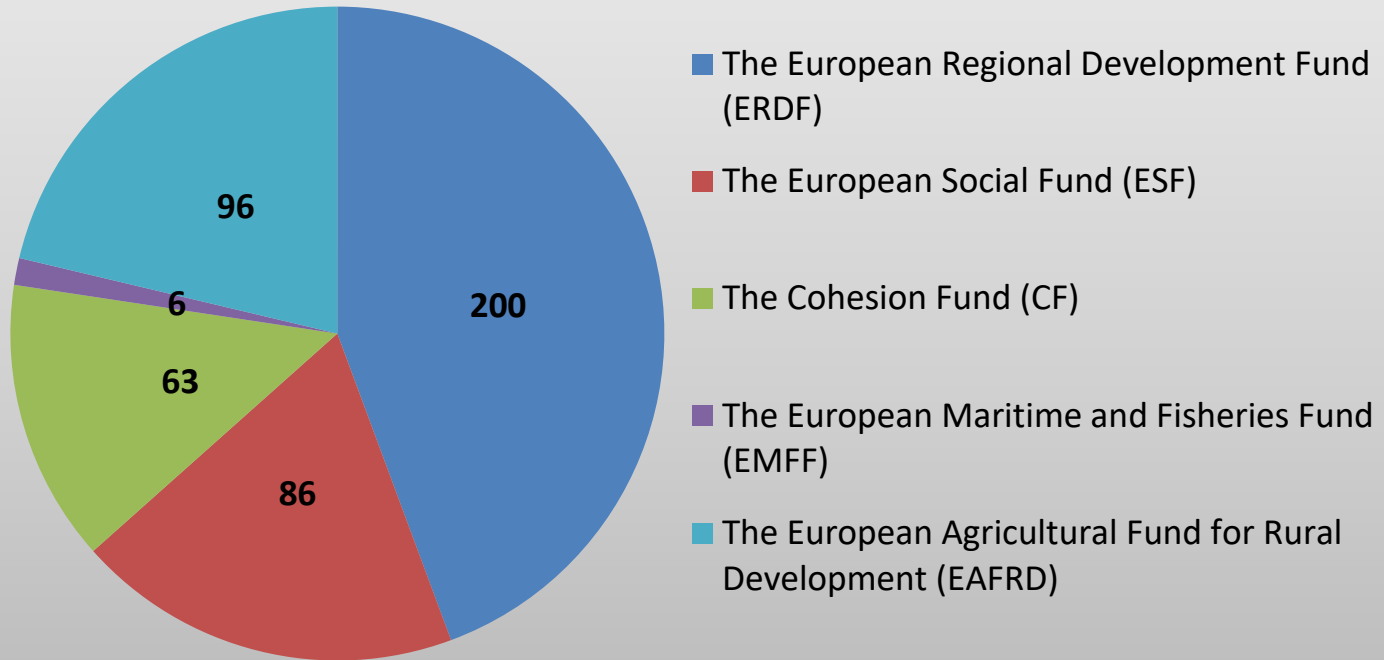


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EU Funding Opportunities

European Structural and Investment Funds (ESIF) 2014-2020

Available budget for 2014-2020
(in Billions €)





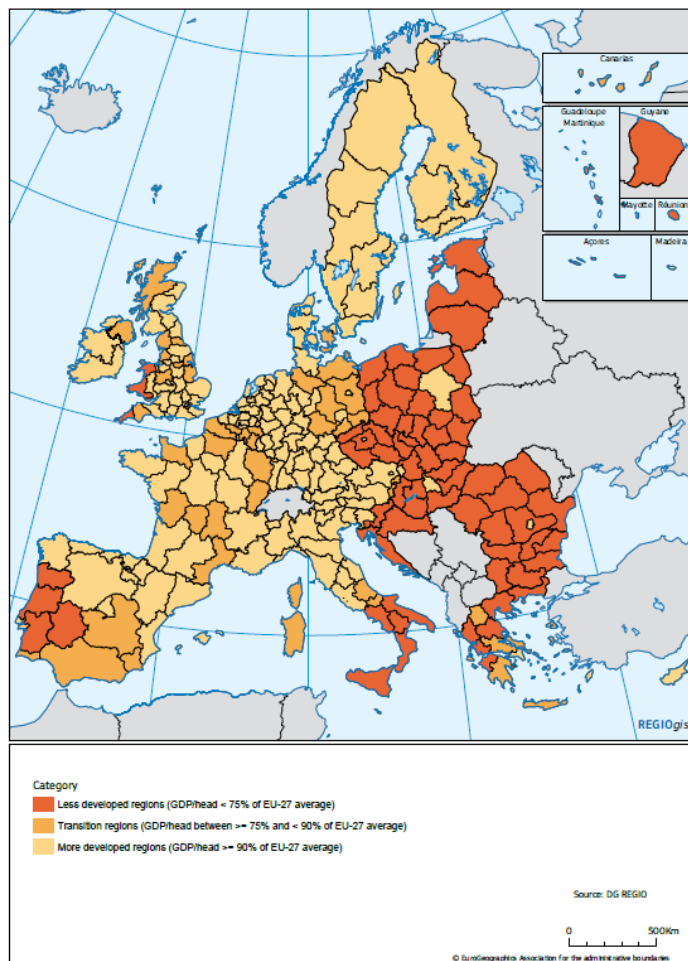
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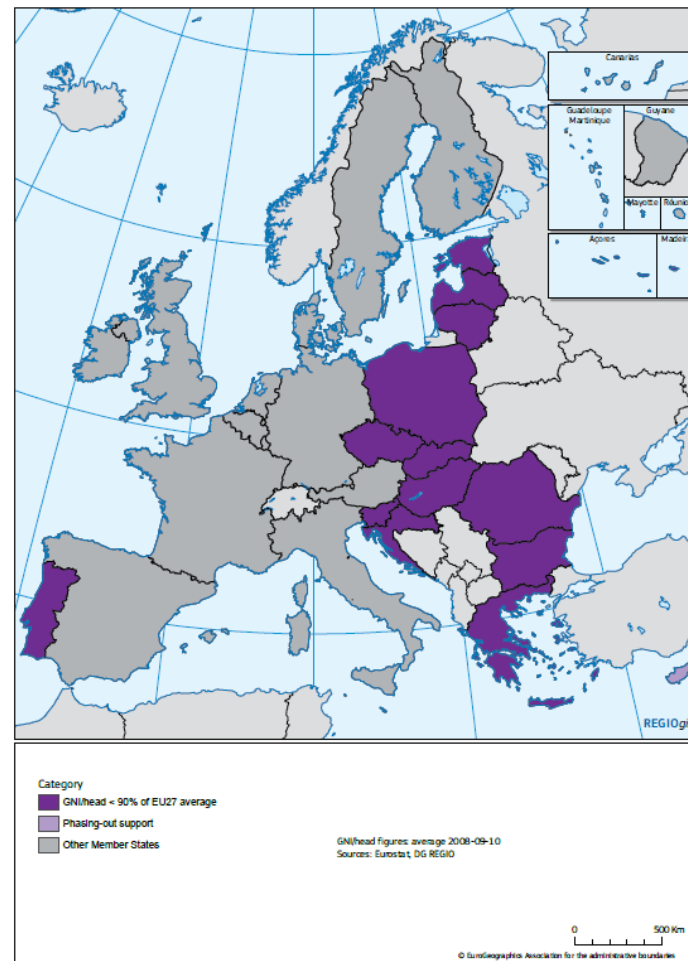
ERDF
ESF
EAFRD

MAP 1: CATEGORIES OF REGIONS FOR THE ERDF, ESF AND EAFRD 2014-2020



CF

MAP 5: MEMBER STATES ELIGIBLE FOR COHESION FUND SUPPORT 2014-2020



<http://geocradle.eu>



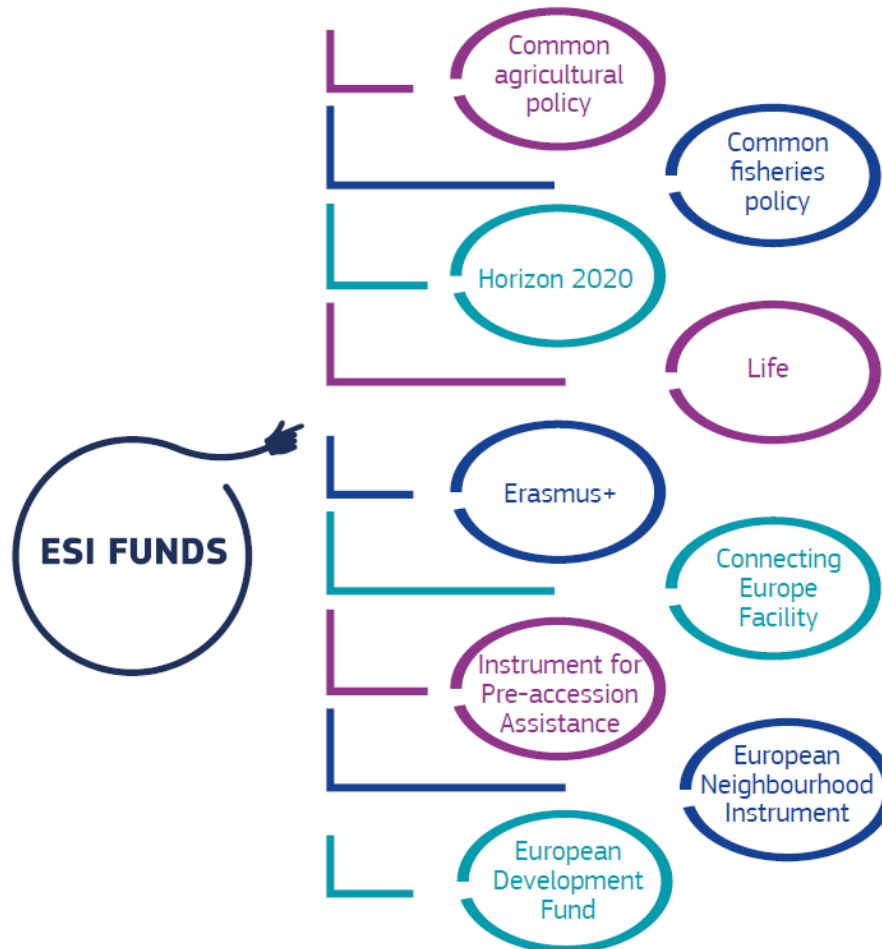


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EU Funding Opportunities

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:



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**H2020 is the
biggest EU
Research
and
Innovation
programme
ever with
nearly €80
billion of
funding
available
over 7 years
(2014 to
2020),
enhancing
EU
international
research and
Third
Country
participation**

Excellent Science

European Research Council
Future and Emerging Technologies
Marie Skłodowska-Curie actions
Research Infrastructures, including e-Infrastructures

Industrial Leadership

Leadership in Enabling and Industrial Technologies
Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
Information and Communication Technologies

Space

Access to risk finance
Innovation in SMEs

Societal Challenges

Health, Demographic Change and Wellbeing
Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
Secure, Clean and Efficient Energy
Smart, Green and Integrated Transport
Climate Action, Environment, Resource Efficiency and Raw Materials
Europe in a changing world - Inclusive, innovative and reflective societies
Secure societies – Protecting freedom and security of Europe and its citizens

Spreading Excellence and Widening Participation

Science with and for Society

Cross-cutting activities (focus areas)
Fast Track to Innovation Pilot
European Institute of Innovation and Technology (EIT)

Euratom

Smart Cyber-Physical Systems

EU Funding Opportunities

EU Framework Programme for Research and Innovation (Horizon 2020)

<https://ec.europa.eu/programmes/horizon2020/>



**Highly relevant to
GEO-CRADLE!**



<http://geocradle.eu>



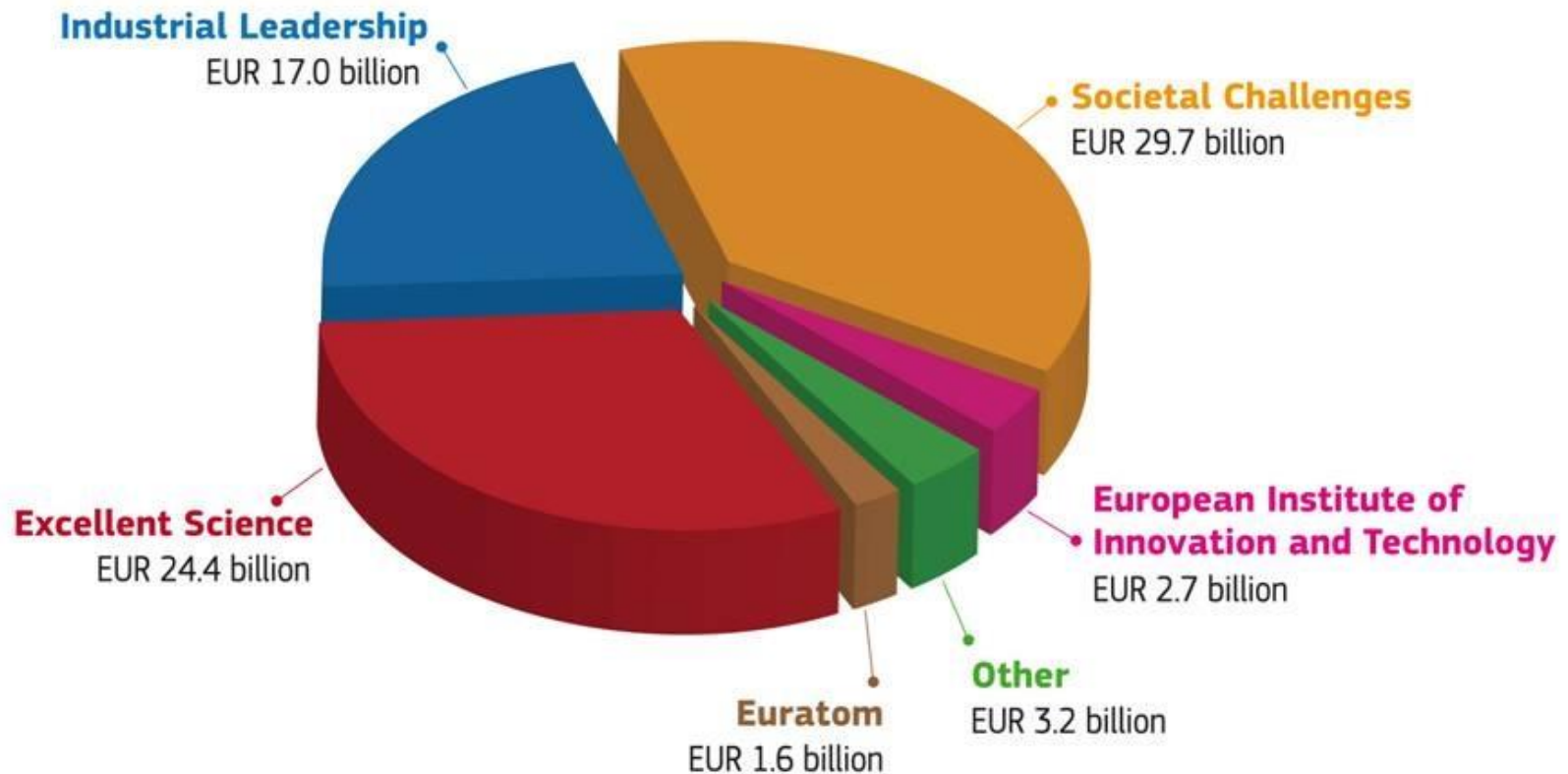


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EU Funding Opportunities

EU Framework Programme for Research and Innovation (Horizon 2020)

HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)



The PRIMA initiative

Highly relevant to
GEO-CRADLE!

The 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**.

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 is scheduled to run for **10 years**, starting in **2018**.

EU Funding Opportunities

EU Framework Programme for Research and Innovation (Horizon 2020)

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>



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EU Funding Opportunities

Instrument for Pre-accession Assistance II (IPA)

The IPA provides assistance to countries directly in line to become members of the European Union (candidate countries: Albania, Montenegro, Serbia, the former Yugoslav Republic of Macedonia, and Turkey), as well as the rest Balkan countries (potential candidates: Bosnia-Herzegovina and Kosovo*).



https://ec.europa.eu/neighbourhood-enlargement/instruments/overview_en

<http://geocradle.eu>



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EU Funding Opportunities

Instrument for Pre-accession Assistance II (IPA)

The IPA is the means by which the EU supports reforms in the 'enlargement countries' with financial and technical help. The IPA funds build up the capacities of the countries throughout the accession process, resulting in progressive, positive developments in the region.

Budget of IPA II for 2014-2020: € 11.7 billion.

<u>Country</u>	<u>2016</u>
Albania	89.7
Bosnia & Herzegovina	42.7
The former Yugoslav Republic of Macedonia	91.6
Kosovo*	88.7
Montenegro	37.4
Serbia	207.9
Turkey	630.7
Multi-country	390.0

Pre-accession assistance is an investment in:

- ✓ Public administration reform
- ✓ Rule of law
- ✓ Sustainable economy
- ✓ People
- ✓ Agriculture and rural development

**Highly relevant to
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EU Funding Opportunities

European Neighbourhood Instrument (ENI)

The ENI funds the European Neighbourhood Policy (ENP) which covers cooperation with EU's 16 Neighbours.

Russia takes part
in Cross-Border
Cooperation
activities under
the ENP and is
not a part of the
ENP as such.

** SYRIA: EU
Cooperation with
Syria is currently
suspended due to the
political situation*

*** PALESTINE: This
designation does not
entail any
recognition of
Palestine as a state
and is without
prejudice to positions
on the recognition of
Palestine as a state.*

PARTNER COUNTRIES

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

South



East



** EU Cooperation with Syria
is currently suspended due to
the political situation*

http://ec.europa.eu/europeaid/funding/european-neighbourhood-and-partnership-instrument-enpi_en



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EU Funding Opportunities

European Neighbourhood Instrument (ENI)

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



**Highly relevant to
GEO-CRADLE!**

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

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

<http://geocradle.eu>





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EU Funding Opportunities

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

Geographic programmes support cooperation with around 47 developing countries in Latin America, South Asia and North and South East Asia, Central Asia, **Middle East** and South Africa. They support actions based on the European Consensus for Development and the following areas:

- ✓ Human rights, democracy and good governance
- ✓ **Inclusive and sustainable growth for human development** (e.g. health, education, social protection, sustainable agriculture, food and nutrition security...)
- ✓ Migration and asylum
- ✓ The link between humanitarian relief and development cooperation
- ✓ **Resilience and disaster risk reduction**
- ✓ Development and security, including conflict prevention.

Highly relevant to
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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!



Coordinating and integrating state-of-the-art
Earth Observation Activities in the regions of
North Africa, Middle East and Balkans
and Developing Links with GEO related initiatives
toward GEOSS

EU Funding Opportunities

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

The newly established **Pan-African Programme** supports the strategic partnership between the EU and **Africa**. This programme complements other financing instruments which are used in Africa (in particular ENI and EDF) and supports activities of trans-regional, continental or global nature in and with Africa.

Highly relevant to
GEO-CRADLE!



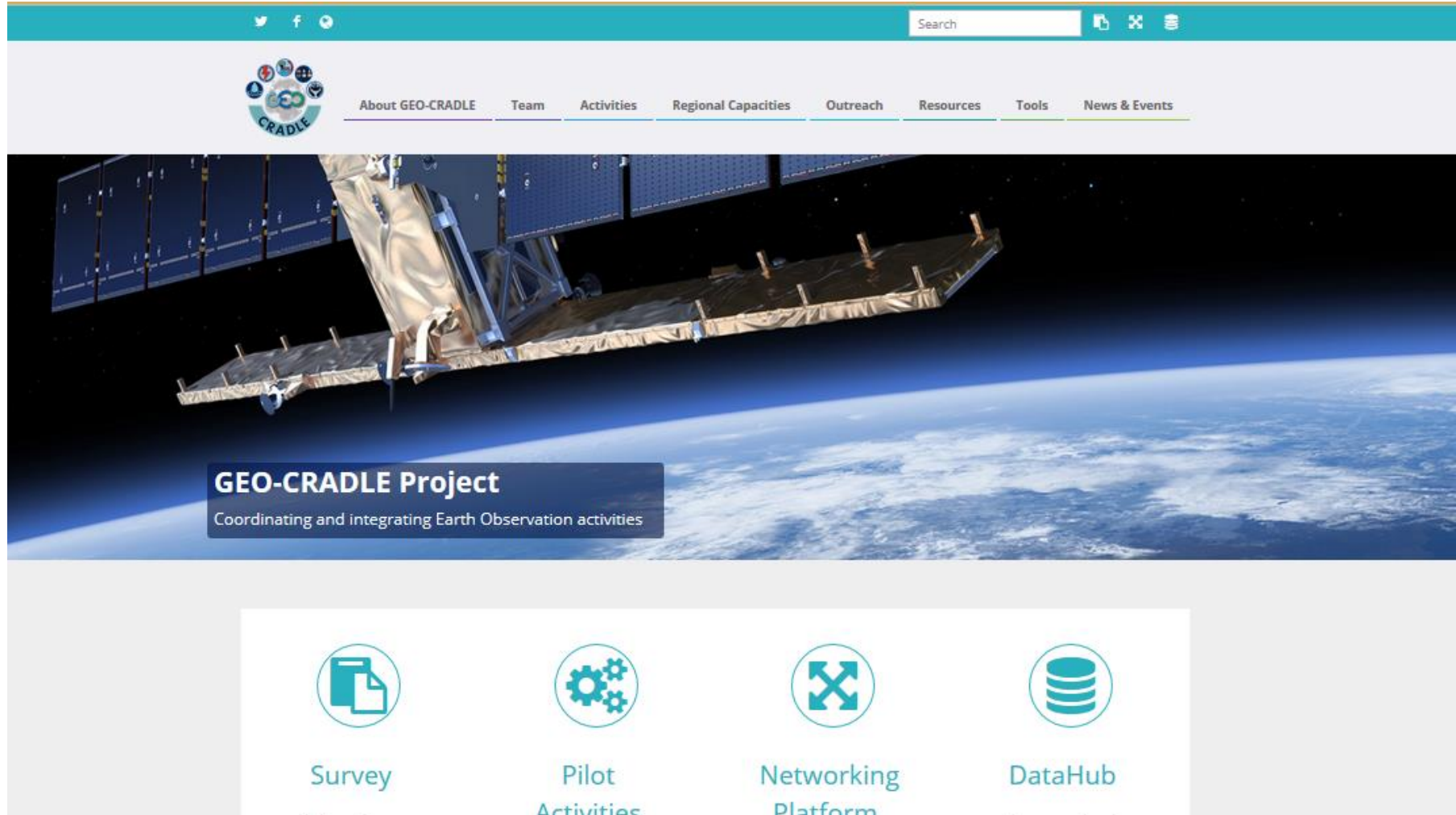
<http://geocradle.eu>





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GEO-CRADLE website in english





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GEO-CRADLE website in arabic



بحث



العربية

الأخبار والتعليقات

الأنشطة

المصادر

التوعية

التقنيات الإقليمية

التحديات

تقريب العمل

حول المهد الأرضي



مشروع المهد الأرضي "جيوكاردل"

تنسيق ودمج أنشطة رصد الأرض



الدراسة الاستقصائية

المشاركة في الاستطلاع للمستمر
لدينا في قدرات المراقبة الإقليمية
للأرض



أنشطة تجريبية

اتبع أنشطتنا التجريبية في أربعة
مجالات موضوعية هي: التكيف
مع تغير المناخ، تحسين الأمن
الغذائي وإدارة المياه وتحسين
فرص الحصول على المواد الخام
والطاقة



منصة الشبكات

كن جزءا من مجتمع المهد
الأرضي GEO-CRADLE
والفاعل مع أصحاب المصلحة
في بلاد البلقان وشمال أفريقيا
والشرق الأوسط



مخزن البيانات

الوصول والبحث وتبادل بيانات
رصد الأرض للمناطق الثلاث



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GEO-CRADLE website in serbian

Projekat GEO-CRADLE
Koordinacija i integracija aktivnosti osmatranja Zemlje

Upitnik
Pridružite se našem
tekućem istraživanju
regionalnih kapaciteta
za osmatranje Zemlje

**Pilot
aktivnosti**
Pratite naše pilot
aktivnosti u okviru
žatiri tematske oblasti

**Platforma
za
umrežavanje**
Postanite deo

**Baza
podataka**
Pristup, pretraživanje i
deljenje podataka o
osmatranju Zemlje u



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thank you!