



GEO-CRADLE project in context of regional needs

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*Funded under H2020 - Climate action,
environment, resource efficiency and raw
materials*

*ACTIVITY: Developing Comprehensive and
Sustained Global Environmental Observation and
Information Systems*

*CALL IDENTIFIER: H2020 SC5-18b-2015
Integrating North African, Middle East and
Balkan Earth Observation capacities in GEOSS*

Project GA number: 690133

Total Budget: 2,910,800.00 €



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





Challenges in GEO-CRADLE

... is the only EU GEO funded CSA that runs over the diversified territories of North Africa, Middle East and Balkans;

- ✓ **Identifying common needs and regional priorities;**
- ✓ **Fostering the regional cooperation and integration of monitoring capabilities and skills, and facilitating the networking of stakeholders;**
- ✓ **Defining coordination and support actions that are beneficial from societal and market wise point of view, and also realistic and in line with the domestic priorities and user needs;**
- ✓ **Proposing/setting up large scale regional initiatives in Earth Observation (space based and in-situ) relating to capacity building and delivery of services and innovative information in the thematic areas of the project such as:**

Adaptation to Climate Change

Improved Food Security – Water Extremes Management

Access to Raw Materials

Access to Solar Energy

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.



GEO-CRADLE Thematic Areas vs UN SDGs



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD



Adaptation to Climate Change (ACC)

13 CLIMATE ACTION



11 SUSTAINABLE CITIES AND COMMUNITIES



3 GOOD HEALTH AND WELL-BEING



15 LIFE ON LAND



Improved Food Security – Water Extremes Management (IFS-WEM)

2 ZERO HUNGER



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Access to Raw Materials (ARM)

1 NO POVERTY



2 ZERO HUNGER



Access to Solar Energy (SENSE)

7 AFFORDABLE AND CLEAN ENERGY



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



17 PARTNERSHIPS FOR THE GOALS

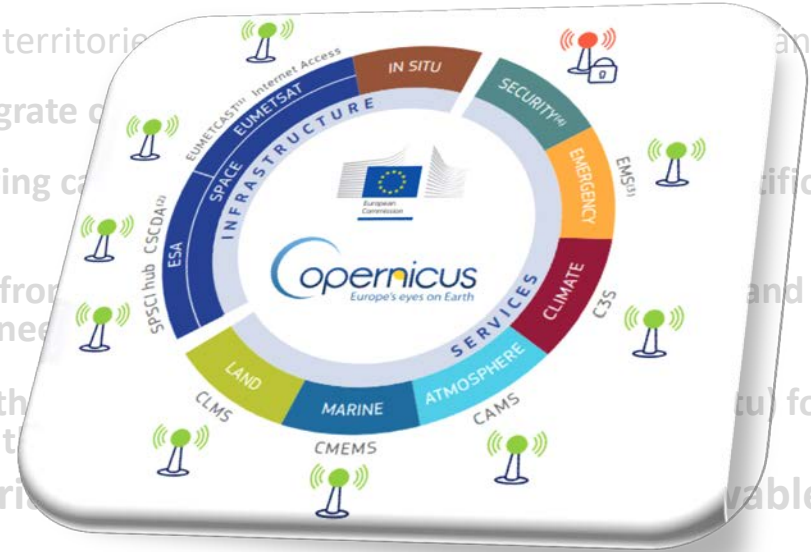


5 GENDER EQUALITY





Challenges in GEO-CRADLE

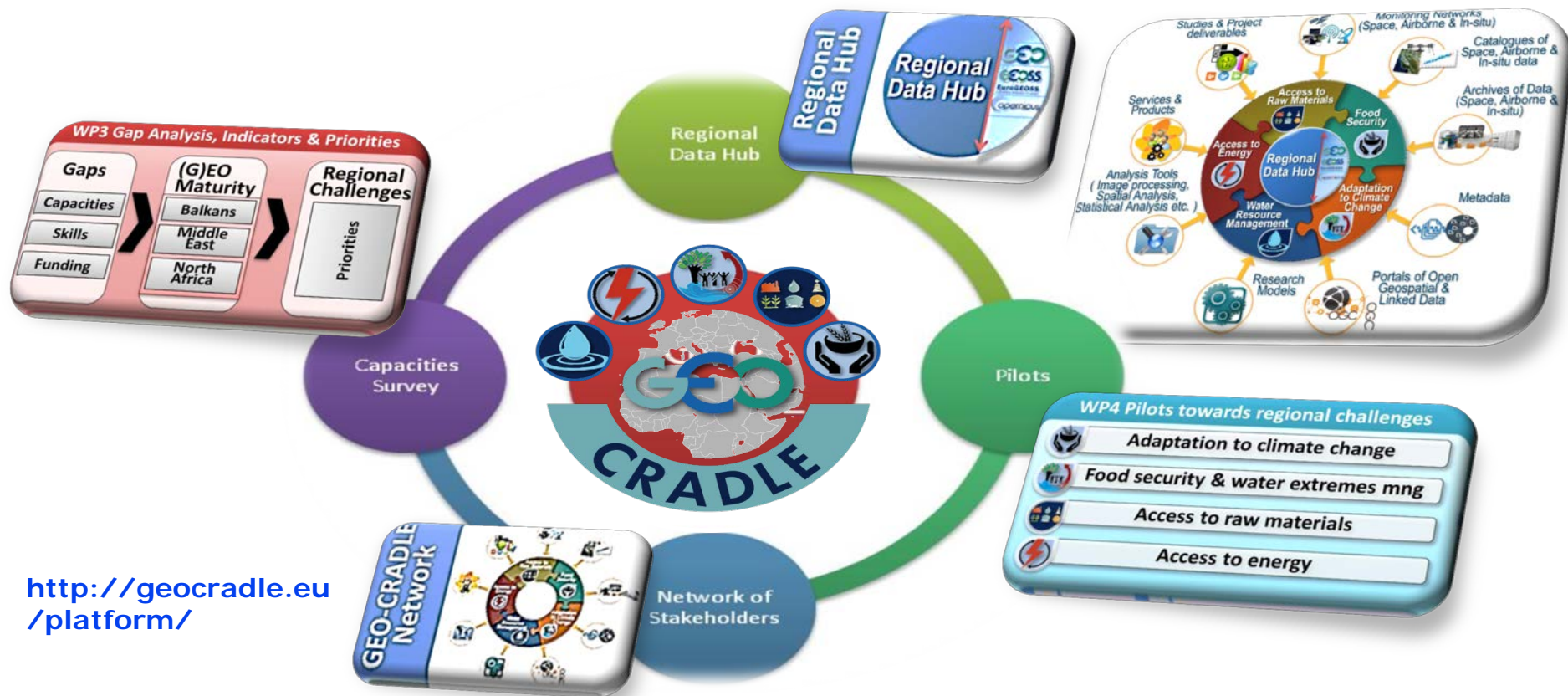


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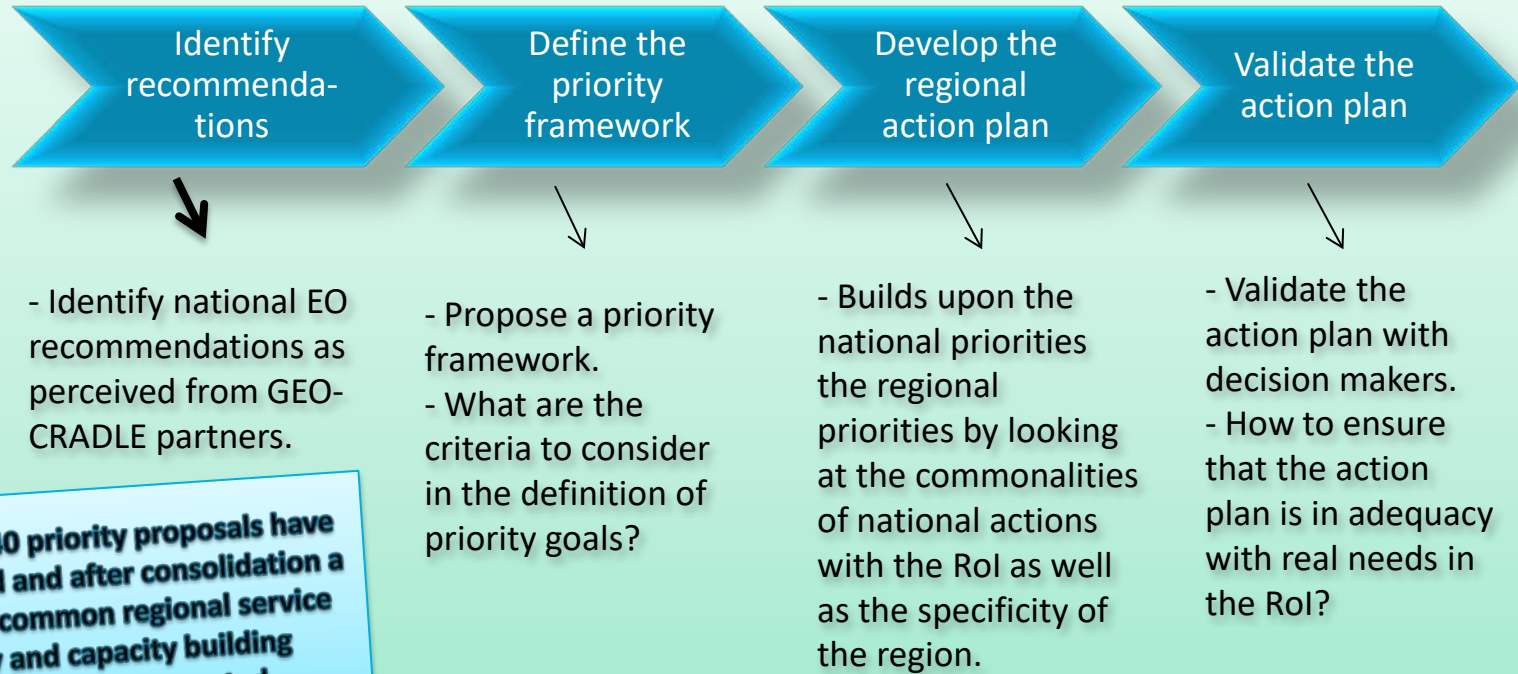
What useful results have emerged so far



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



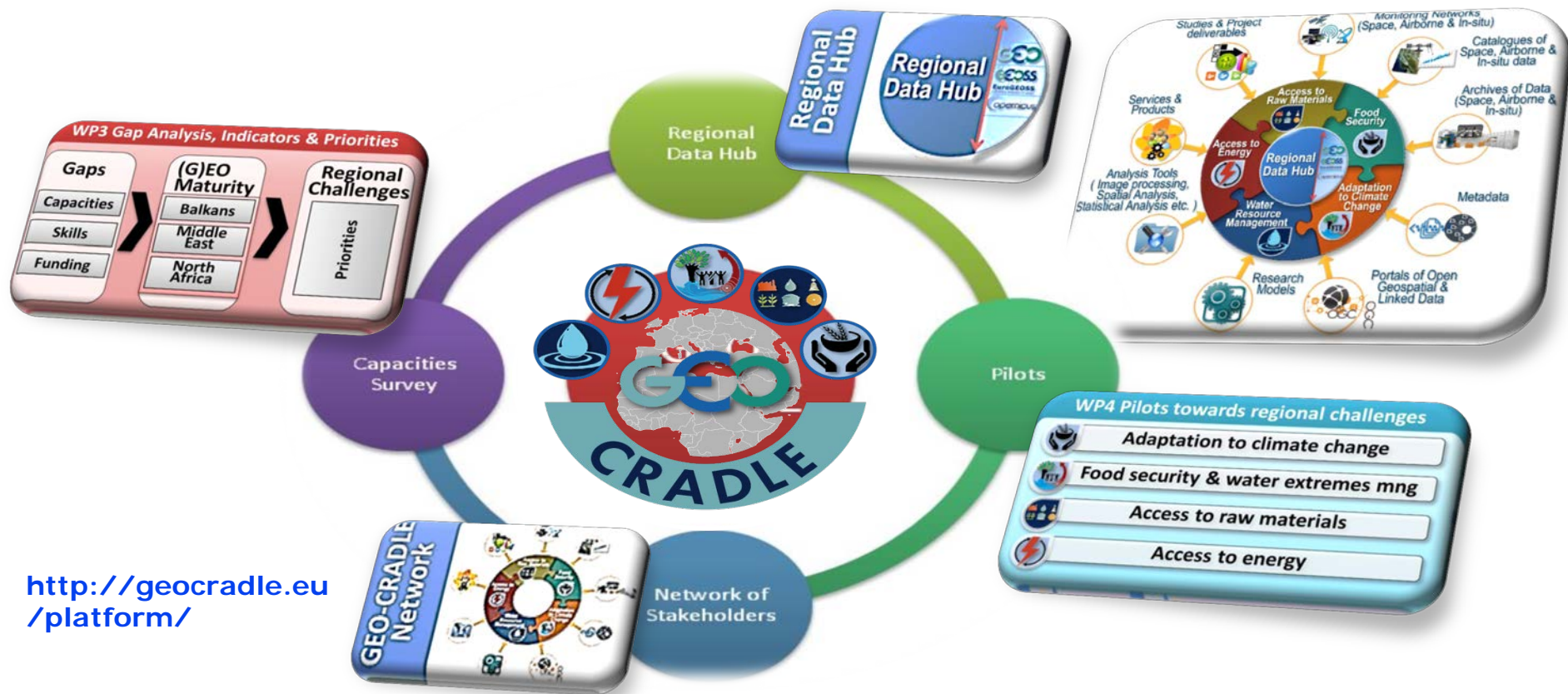
The Regional Priorities - Priority Definition Workflow



More than 40 priority proposals have been drafted and after consolidation a number of common regional service delivery and capacity building challenges were promoted.



What useful results have emerged so far



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



GEO-CRADLE Networking Platform

GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

Register Login

HOME PROFILES USER MANUAL

Country: Organisation Name: Thematic Area: [v]

Roadmap Terrain Satellite Zoom In Zoom Out

Search by Keywords: e.g. word1, word2

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

COUNTRIES 28

STAKEHOLDERS 174

PROFILES VIEWS 15239

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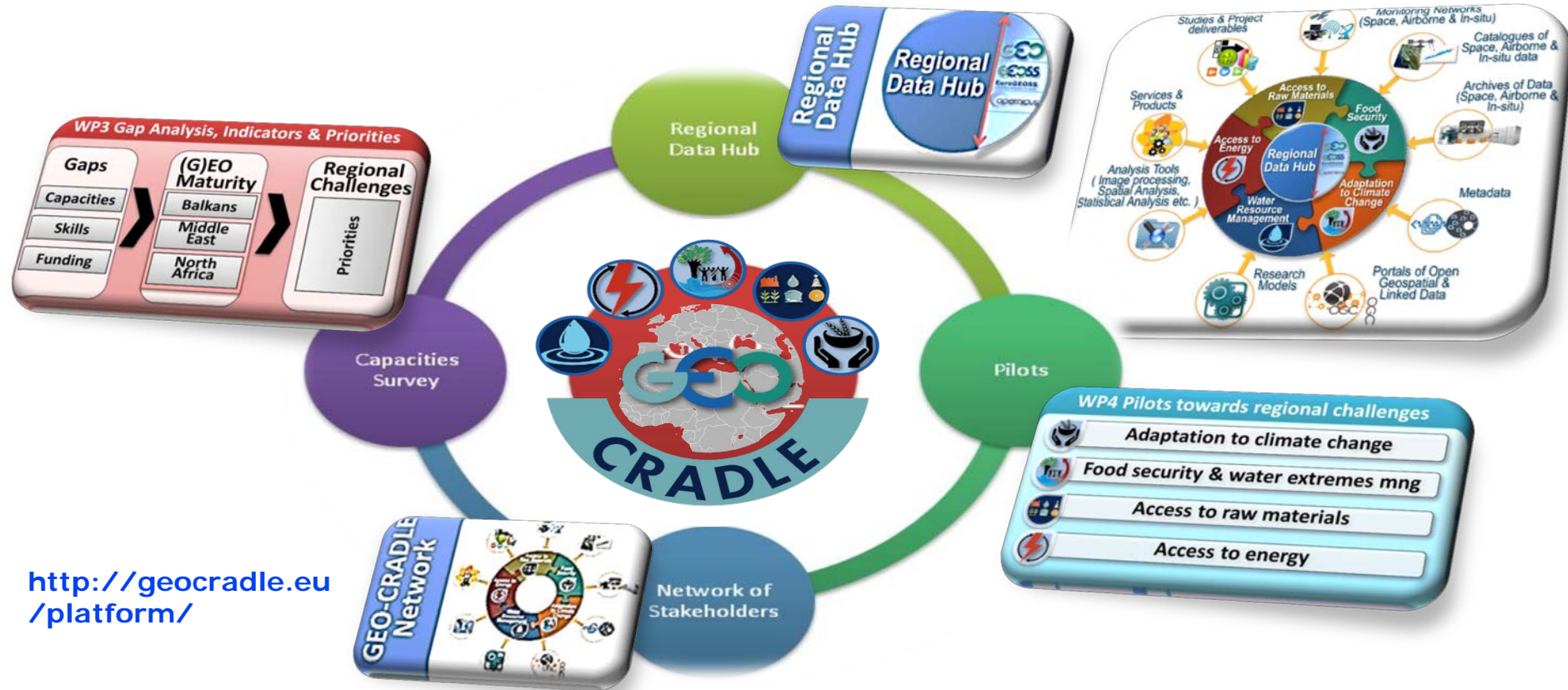
COUNTRIES 28

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PROFILES VIEWS 15238



What useful results have emerged so far



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



Regional DataHub – Connection with GEOSS & Regional Portals



DataHub

search

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 centralized 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

Trial mode



Data



Innovation



Involvement



Growth



Climate Change



Raw Materials



Food And Security

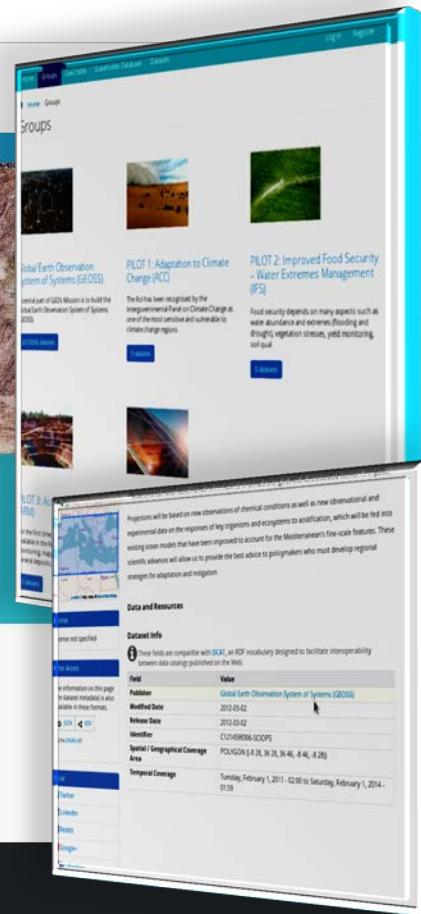


Energy

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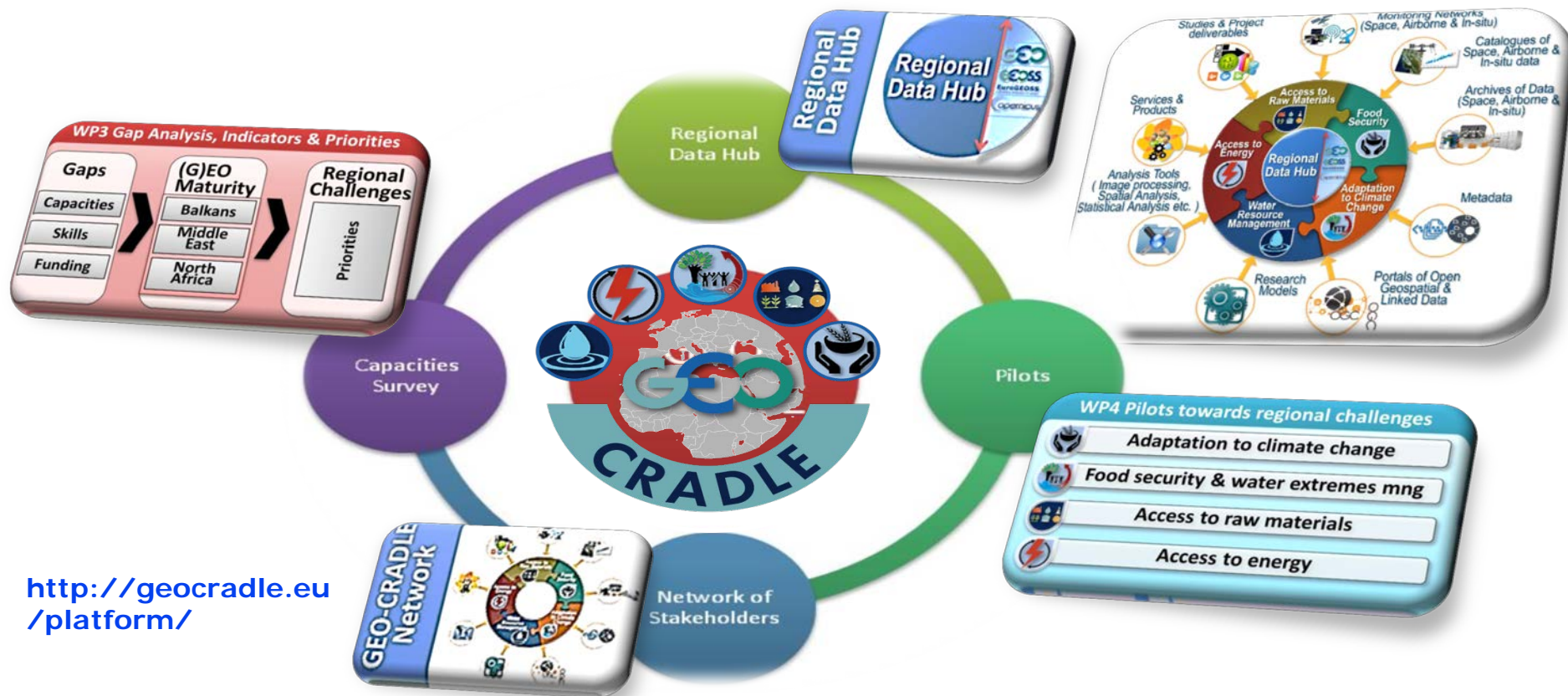
Πρωτόκολλο για την Προστασία των Δεδομένων
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What useful results have emerged so far





Identification and dissemination of information on funding

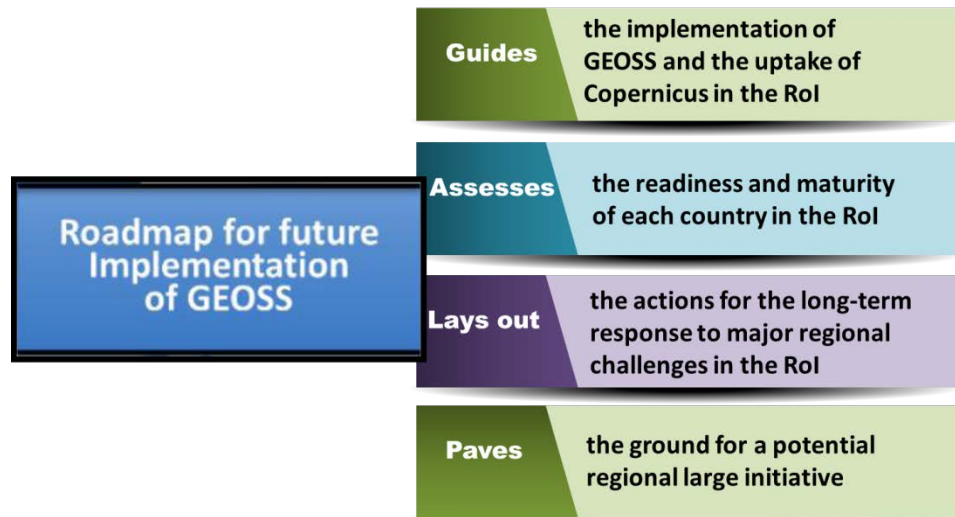
The screenshot shows the CRADLE website interface. At the top, there is a navigation bar with links: About GEO-CRADLE, Team, Activities, Regional Capacities, Outreach, Resources, Tools, News & Events, and a language selector set to English. A search bar is also present. The main content area features a large image of a satellite in space. Overlaid on the website are several informational cards and diagrams:

- Top Left:** A card with a 3D globe and blue Euro and Dollar symbols.
- Top Right:** A diagram titled "ESI FUNDS" showing a tree structure of funding instruments: Common Agricultural Policy, Common Fisheries Policy, Horizon 2020, Life, Erasmus+, Connecting Europe Facility, Instrument for Pre-accession Assistance, European Neighbourhood Instrument, and European Development Fund.
- Bottom Left:** A card for the "Development Cooperation Instrument (DCI)" with a European Union flag and a landscape image.
- Bottom Left (Below DCI):** A card for "The European Neighbourhood Instrument" with a map of Europe and the acronym ENI.
- Bottom Center:** Three circular icons representing different platforms: a network icon for "Survey & Networking Platform", a database icon for "DataHub", and a Euro symbol for "Funding Opportunities".
- Bottom Right:** A card for "PRIMA" (Partnership for Research and Innovation in the Mediterranean Area) with a map of the Mediterranean region.
- Bottom Right (Below PRIMA):** A card for "IPA II – Financial Perspective 2014-2020" with a colorful bubble graphic.



GEO-CRADLE contribution to EO market uptake

1. **Submit a roadmap** together with funding priorities in relation to capacity building, service delivery, 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).



GEO-CRADLE contribution to EO market uptake

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.
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 stakeholders understand how they can benefit from & contribute to GEOSS & Copernicus.



GEO-CRADLE positive points - outcomes

1. Working closely with GEO and the EO industry and demonstrating how this has been useful in returning beneficial results for all sectors across the value added chain (Research, Private, End-Users).
2. Enabling the engagement of the EO private sector and effectively supporting the EO market uptake over the RoI.
3. Informing the private sector on regional priorities and providing a roadmap for future development of the service sector.
4. Promoting cases of services that have impact into the implementation, monitoring and reporting of SDGs, and thus remaining sustained by addressing real societal and environmental needs.

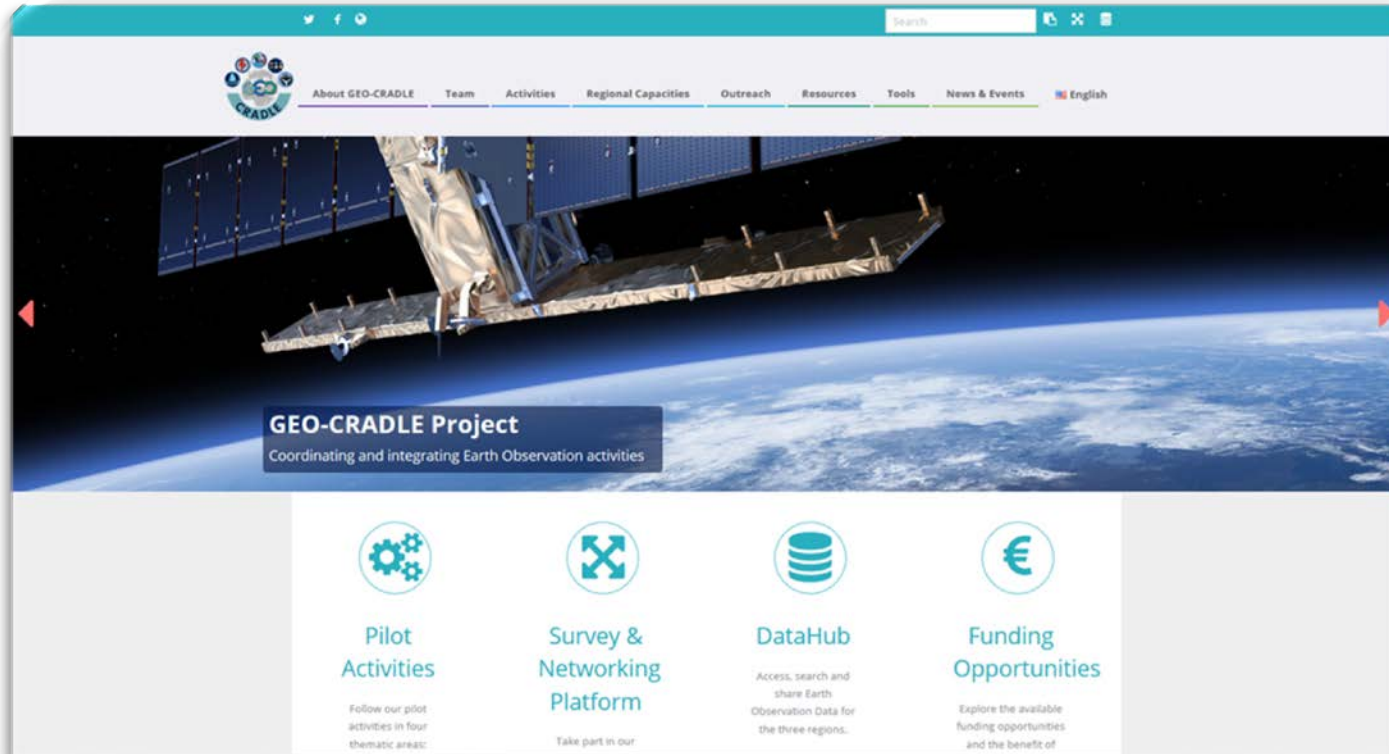


GEO-CRADLE positive points - outcomes

5. Establishing and delivering tools for encouraging service development and ensuring service sustainability, e.g. make data available, facilitate sharing of data/know how, integrate and use regional facilities & capacities, ensure networking of stakeholders and engagement in the consultation phases of regional initiatives, building capacity, identification and dissemination of funding opportunities, deliver a networking platform and a Regional Data Hub.
6. Rendering the large investments, especially in Copernicus, become useful and visible to the End-User communities and citizens worldwide.



<http://geocradle.eu/>





thank you!

