



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

- ✓ 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.

Objectives



GEO-CRADLE Thematic Areas vs UN SDGs



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD



Adaptation to Climate Change (ACC)

13 CLIMATE ACTION



3 GOOD HEALTH AND WELL-BEING



11 SUSTAINABLE CITIES AND COMMUNITIES



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

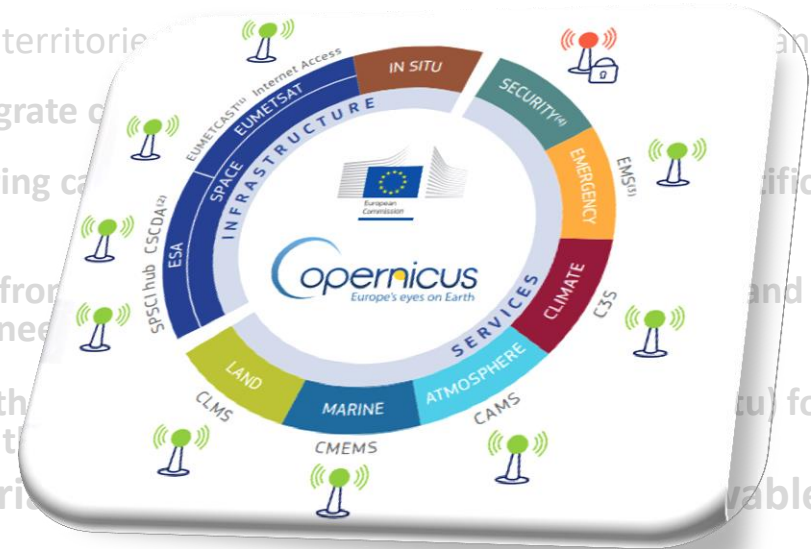


5 GENDER EQUALITY





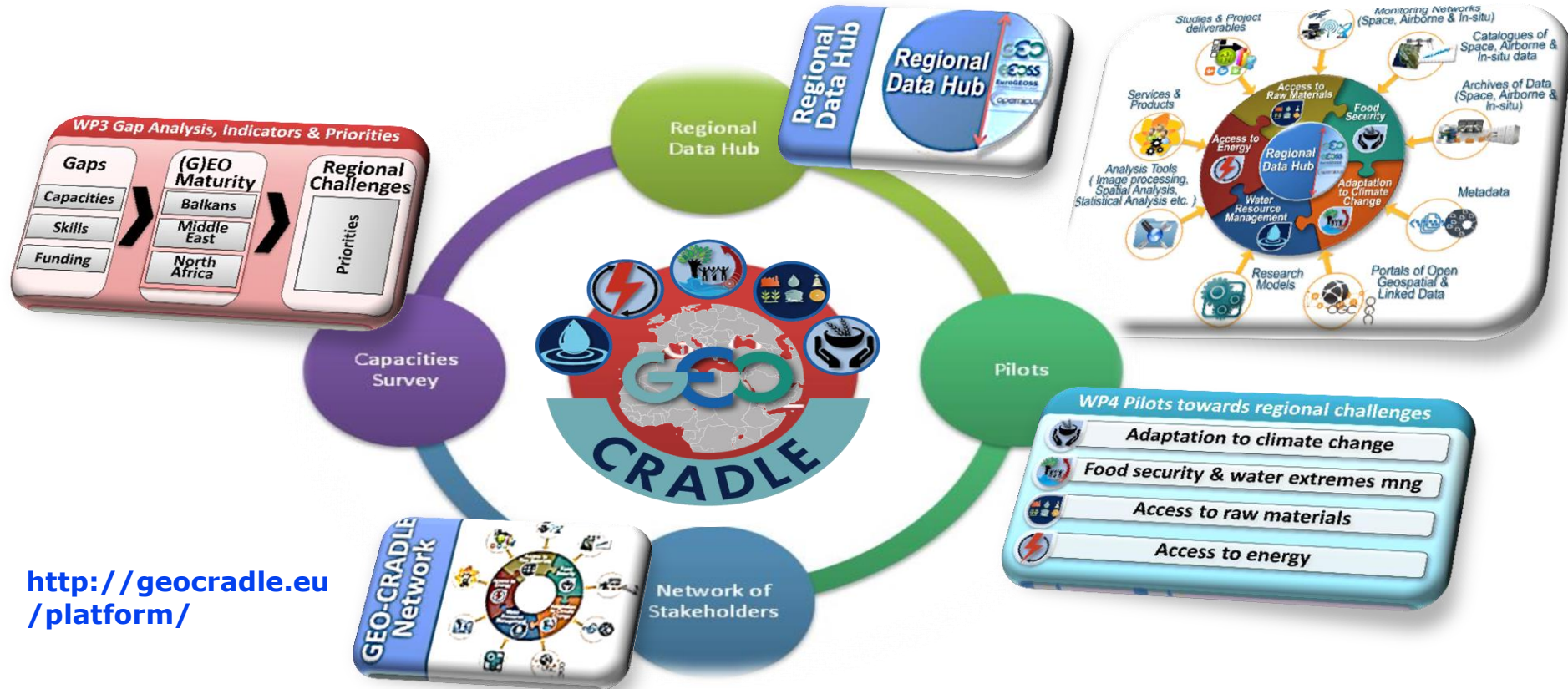
Challenges in GEO-CRADLE



- 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.



What useful results have emerged so far



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



The Regional Priorities - Priority Definition Workflow



- Identify national EO recommendations as perceived from GEO-CRADLE partners.

- Propose a priority framework.
- What are the criteria to consider in the definition of priority goals?

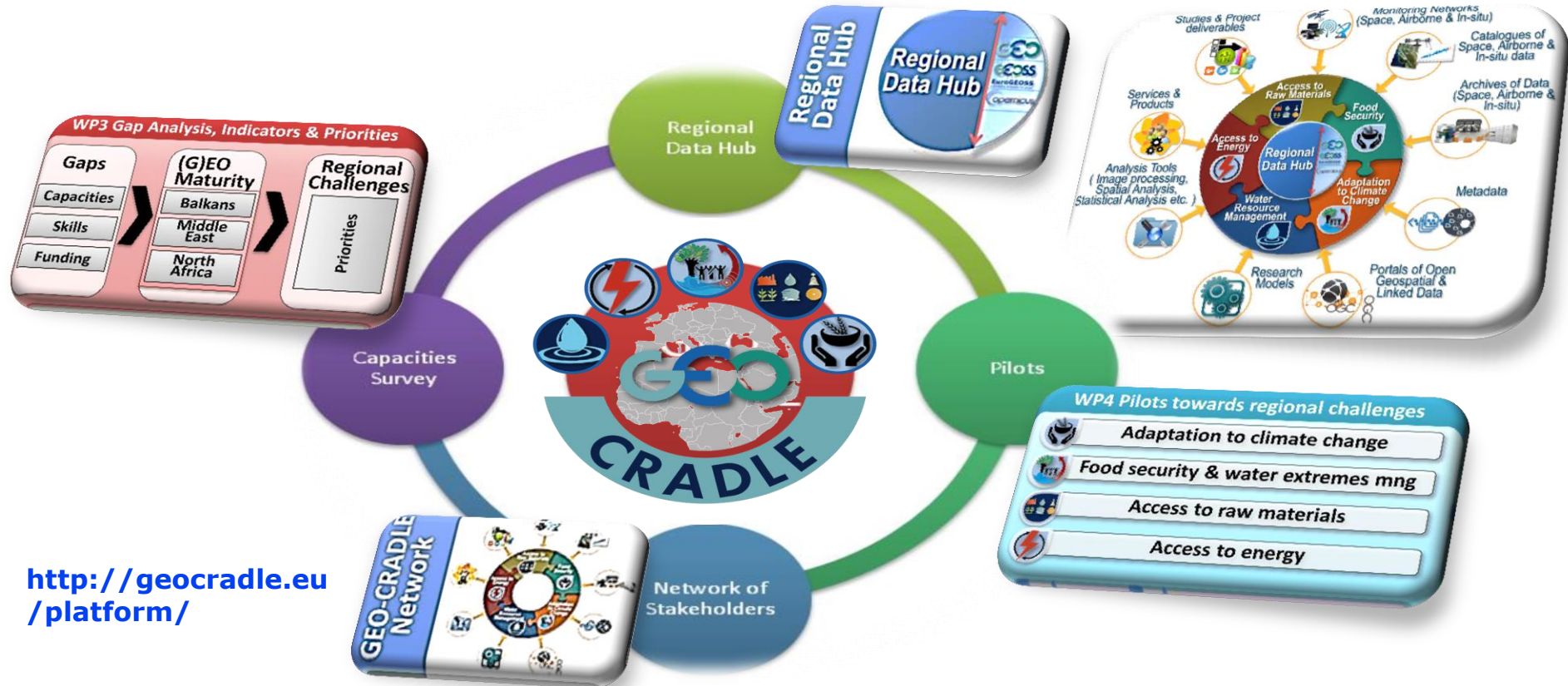
- Builds upon the national priorities the regional priorities by looking at the commonalities of national actions with the RoI as well as the specificity of the region.

- Validate the action plan with decision makers.
- How to ensure that the action plan is in adequacy with real needs in the RoI?

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





GEO-CRADLE Networking Platform

Register **Register** **Login**

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GEO-CRADLE Networking Platform
Database of GEO-CRADLE stakeholders

Country: Organisation Name: Thematic Area:

Roadmap Terrain Satellite Zoom In Zoom Out

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Thematic Area:

9

Τυνησία

Palermo Calabria Catania Κατάνια Sicily Συρακούσες Siracusa

Μάλτα

Τριπολη Τرابلس

Abu Kamrasha أبو كامرشة

Misrata ميسراتة

Msallata مسالطة

Al Jawsh الجوش

Al Jajaj الججاج

Σύρτη سرت

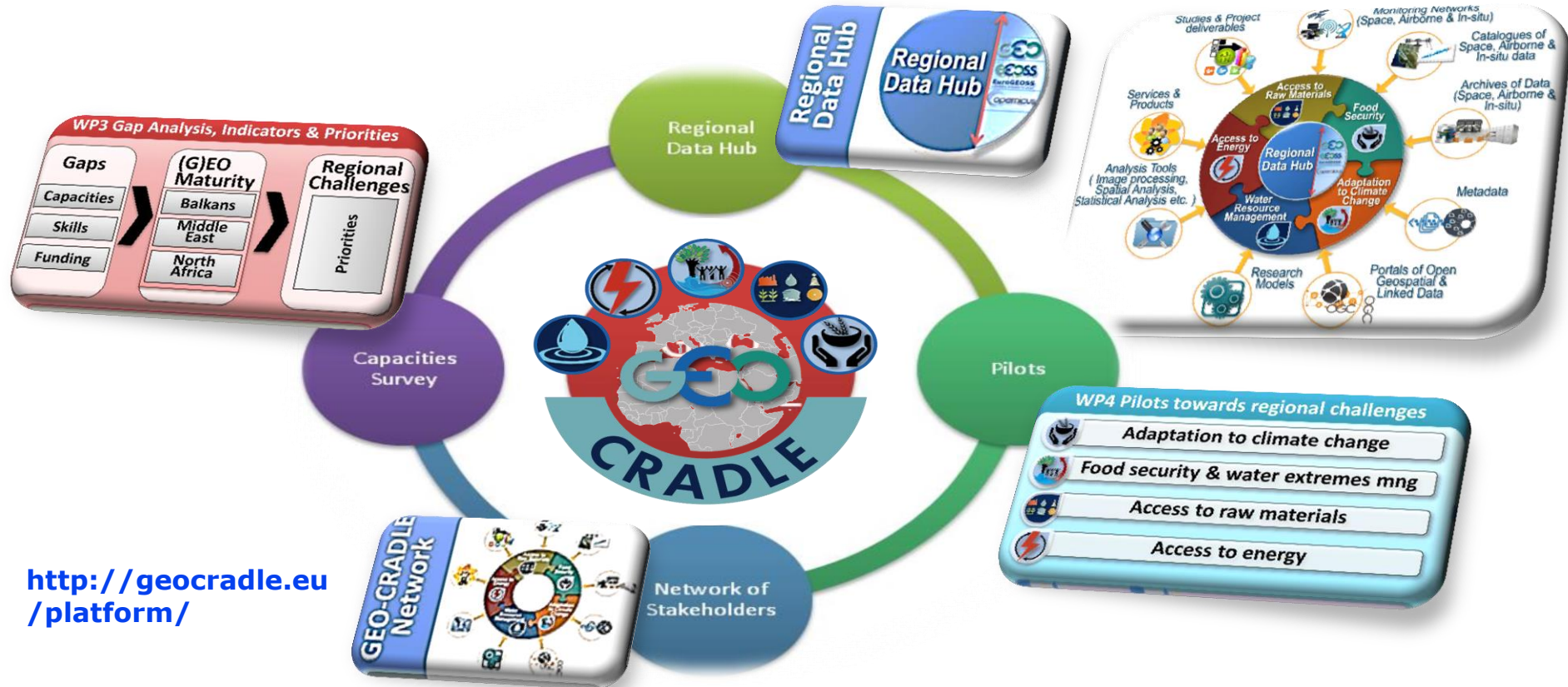
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word2

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What useful results have emerged so far



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



Regional DataHub – Connection with GEOSS & Regional Portals



Home Groups Geospatial 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

beta mode



Data



Innovation



Involvement



Growth



Climate Change



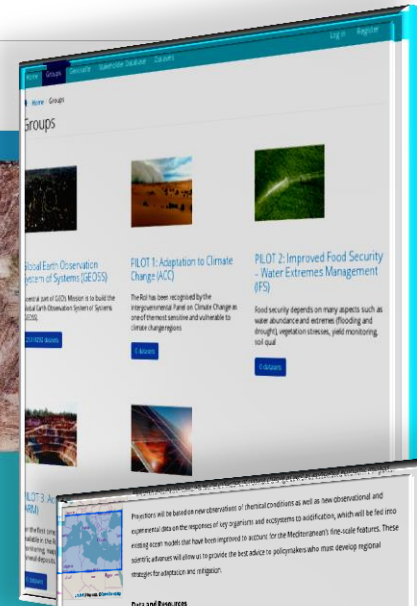
Raw Materials



Food And Security

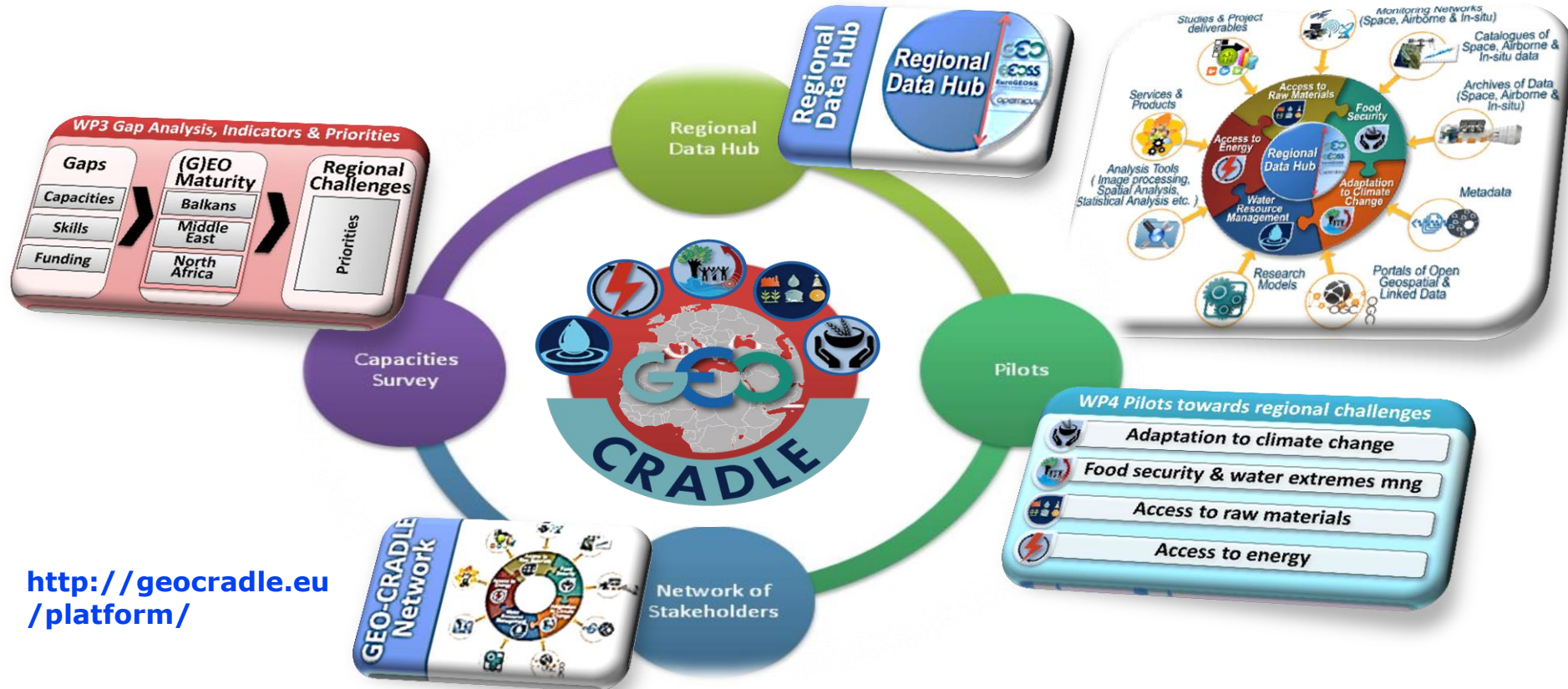


Energy





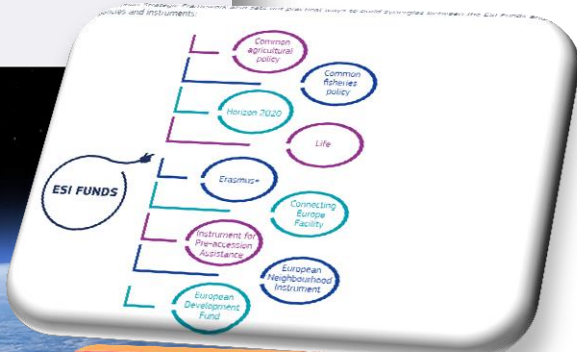
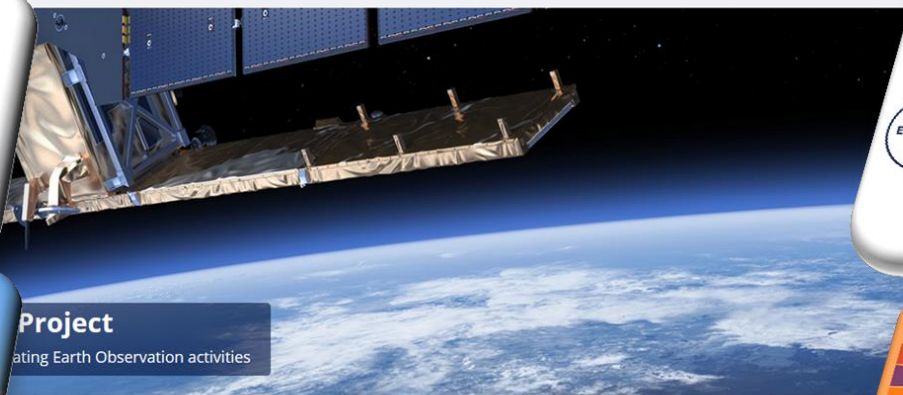
What useful results have emerged so far



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



Identification and dissemination of information on funding



Project
Supporting Earth Observation activities



Survey & Networking Platform

Take part in our



DataHub

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



Funding Opportunities

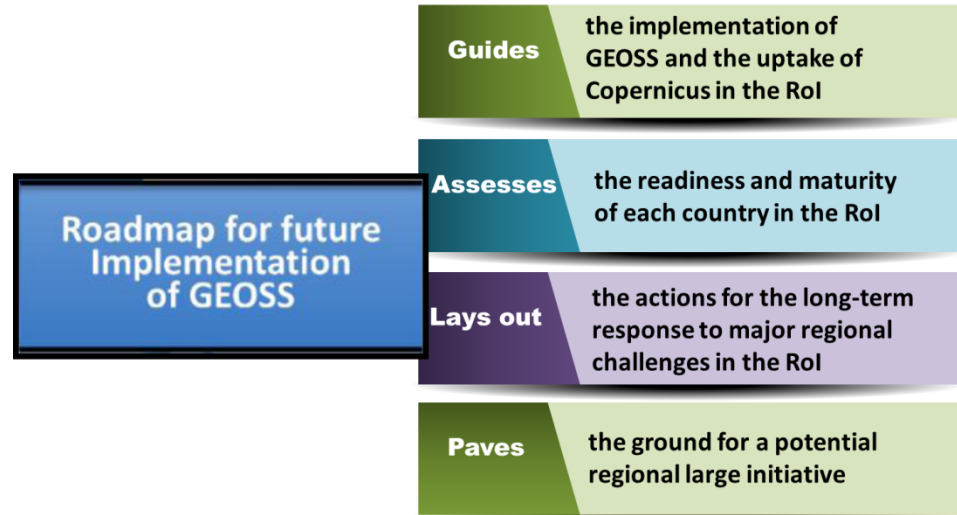
Explore the available funding opportunities and the benefit of





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.



<http://geocradle.eu/>

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



thank you!

