

INTERNATIONAL CONFERENCE ON SOIL SCIENCES

REMOTE SENSING FOR SUSTAINABLE SOIL MANAGEMENT

ICOSS'2018

17 - 19th March 2018, Hammamet, Tunisia

GEO-CRADLE project addressing regional needs

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 €

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**GEO-CRADLE Project Coordinator
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





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

... is the only EU GEO funded CSA that runs over the diversified territories

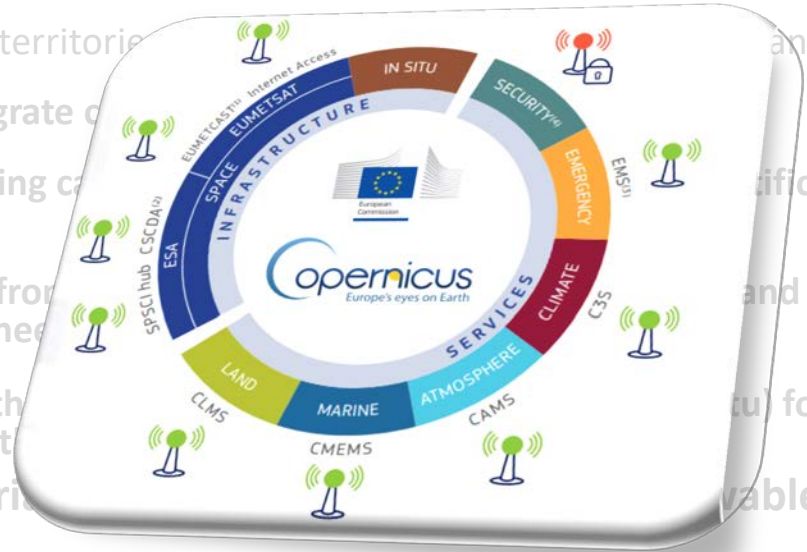
Seeking to identify common needs, create synergies, and integrate

Fostering the skills;

Defining and also realistic

Proposing/setting up large scale regional capacity building and also addressing societal priorities in the

Adaptation to Climate Change, Access to Raw Materials, Energy Resources, and Food Security.



- ✓ **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 Networking Platform



13 organisations

6 Institutional:

Centre d'Etudes et de Recherche des Télécommunications (CERT)
Centre National de la Cartographie et de la Télédétection (CNCT)
Sahara and Sahel Observatory
Office National des Mines (ONM)
Ministry of Energy, Mines and Renewable Energies
Institut National de la Meteorologie

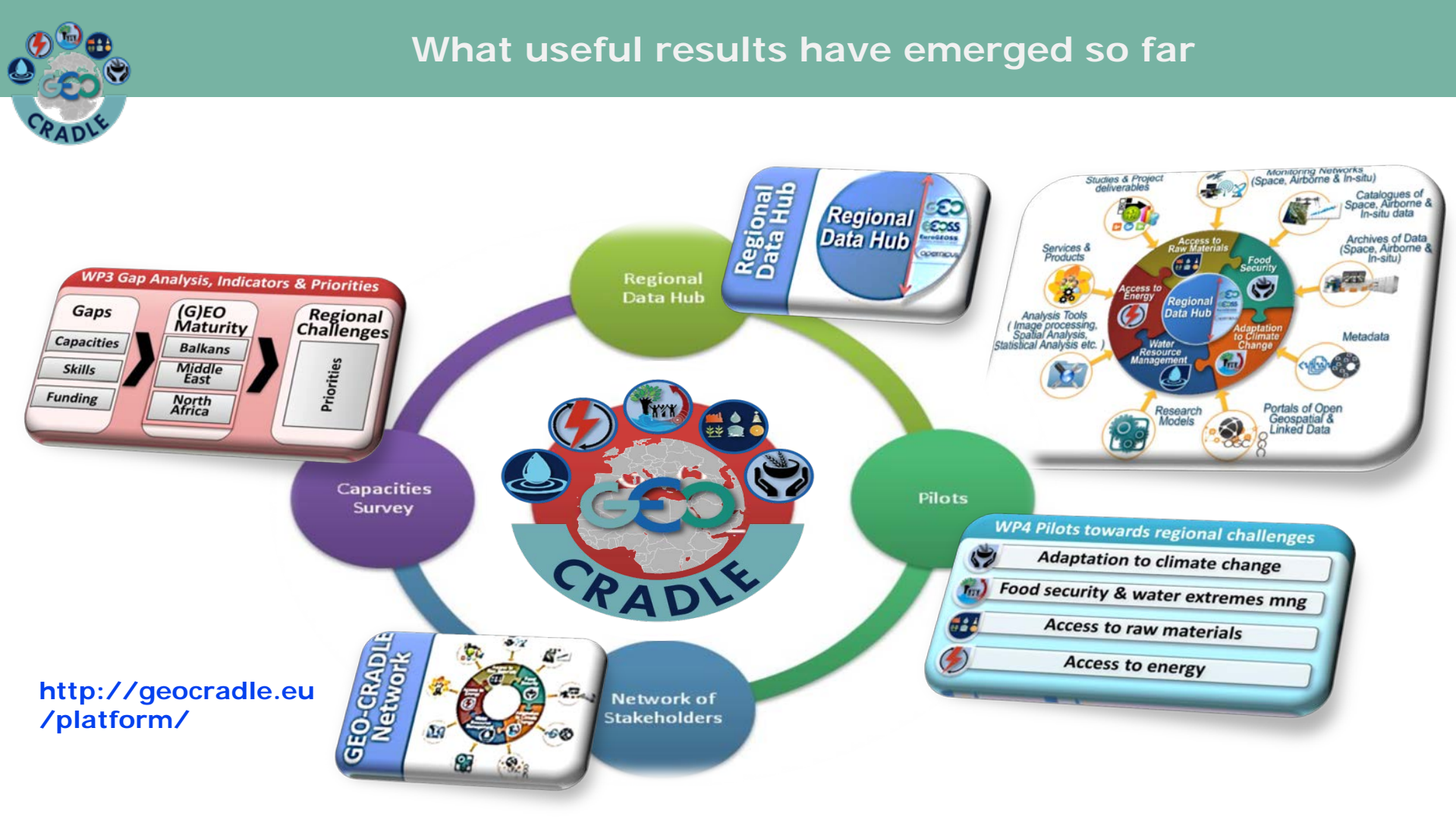
3 Research & Academic:

Institut des Regions Arides
Digital research center of Sfax
Higher School of Communications of Tunis

4 Commercial:

Office de la Topographie et du Cadastre
Graphtech
German Geoconsultants Group
M&P

What useful results have emerged so far





Regional DataHub – Connection with GEOSS & Regional Portals



Geocradle

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

The Regional DataHub (RDH) provides access to both region-related datasets, portals and services developed by a regional network of raw data providers, intermediate providers, end-users from Industry, Academic and Public Sector from the Region of Interest, and, also, datasets and services directly fed from the GEOSS-Global, 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 facilitates access to downloadable files of Space-borne data from real-time EO observations; acquisitions; data from Airborne campaigns performed in the region; In-situ data; and Models such as Atmospheric and Climate.

[Find](#)



Data



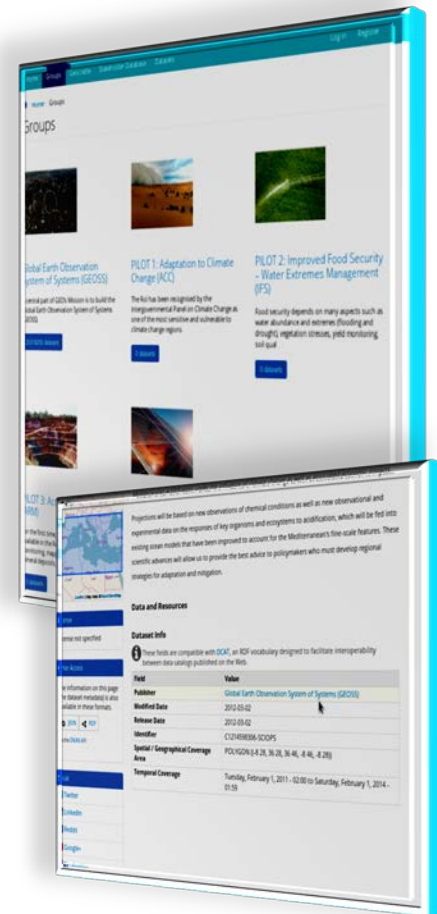
Innovation



Involvement

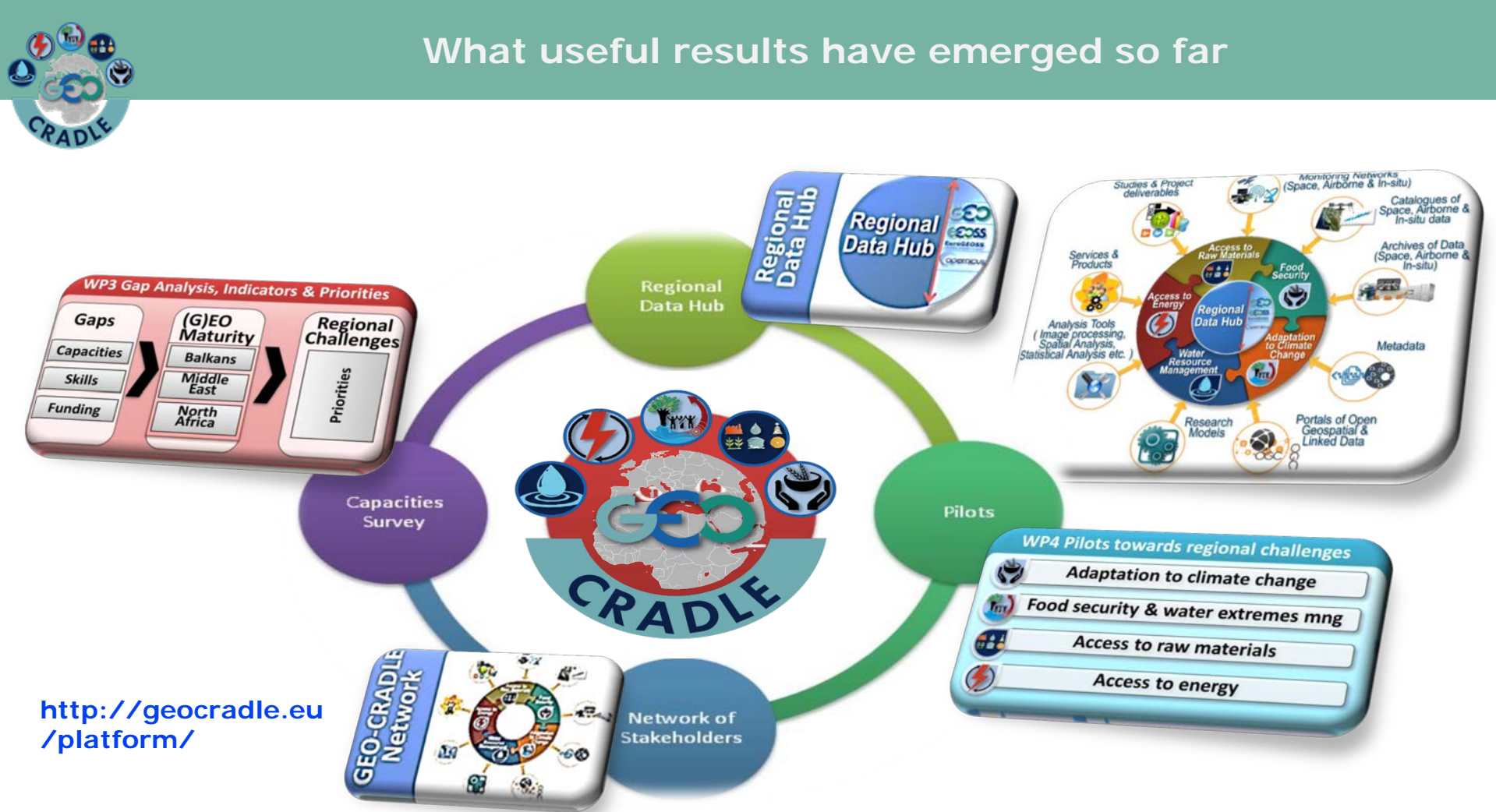


Growth



Field	Value
Provider	Global Earth Observation System of Systems (GEOSS)
Modified Date	2013-03-02
Release Date	2013-03-02
Identifier	C2748888A-AC00PS
Special / Geographical Coverage Area	POLYGON(4 4 30 30 30 40 40 40 40 40)
Temporal Coverage	Tuesday, February 1, 2011 - 02:00 to Saturday, February 1, 2014 - 01:00

What useful results have emerged so far



Identification and dissemination of information on funding



Search

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Project
Supporting Earth Observation activities

Survey & Networking Platform

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

Funding Opportunities
Explore the available funding opportunities and the benefit of





Funding opportunities: PRIMA

Short info about the call

PRIMA (<http://prima-med.org>) is a new Partnership for Research and Innovation in the Mediterranean Area, envisaged to develop (much-needed) solutions for a more sustainable management of water and agro-food systems. The main objective of this ten-year initiative (2018-2028) is to devise new R&I approaches to improve water availability and sustainable agriculture production in a region heavily distressed by climate change, urbanisation and population growth. PRIMA is being financed through a combination of funding from participating countries (currently €274 million), and a €220 million contribution from the EU through Horizon 2020, its research and innovation funding programme (2014-2020). PRIMA programmes support research and innovation through distinct types of actions/activities:

- In Section 1: Research & Innovation Actions (RIA), and Innovation Actions (IA) as defined in the General Annexes of H2020.
- In Section 2: Research and Innovation Activities (RIA) based on national rules.
- In Section 3: National research programmes (PSIAs).

Funding scheme: Based on National Regulations

Submission: March & April 2018



Currently there are 4-5 consortia engaging partners and members of the GEO-CRADLE network, which are going to submit proposals to the open calls.

The countries involved are:

- Cyprus
- Egypt
- Greece
- Israel
- Italy
- Spain
- Tunisia
- Turkey



Funding opportunities: EO4SD

Short info about the call

EO4SD (Larger scale EO exploitation activities in support of sustainable development initiative) is an ESA tender (EOP-SEI/SNC/VAE_SOW/17-027) aiming at building long-term sustainable use of EO-derived information services to support international development activities (e.g. World Bank, Asian Bank etc.). It focuses on 4 specific thematic domains of sustainable development, namely:

- Climate Resilience
- Disaster Risk Reduction
- Marine & Coastal Resources Management
- States Affected by Fragility, Conflict & Violence

Funding scheme

EC-ESA funding.

Submission: October 2017

Acceptance: March 2018

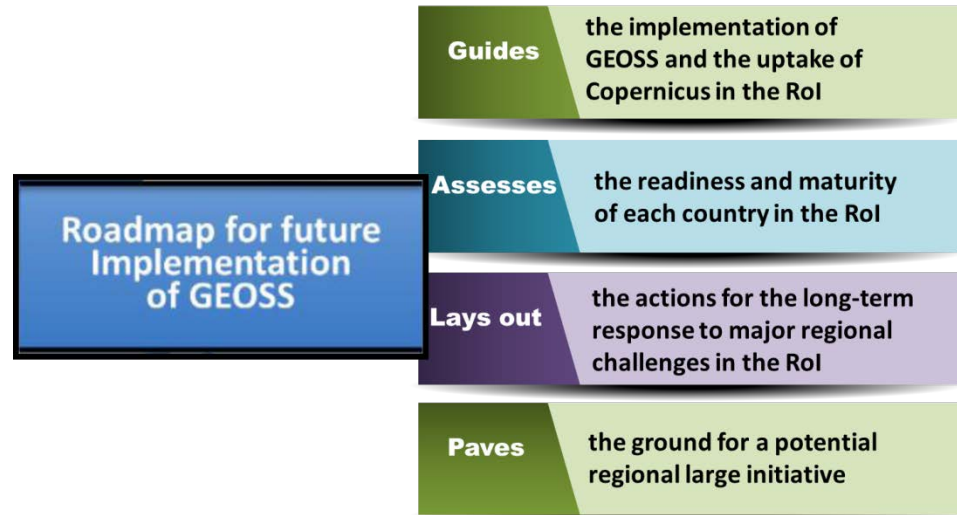
The proposal was coordinated by GMV. The GEO-CRADLE partners and its network will exploit the “EO capacity building” competences that have been radically developed through the project implementation. SIGE, a Tunisian company which was reached through the GEO-CRADLE consortium, will act as a local office in this region.

No	Organization	Country	Role in GEO-CRADLE
1	NOA (National Observatory of Athens / IAASARS)	Greece	Project Coordinator of GEO-CRADLE
2	SIGE (Société d'ingénierie géomatique et environnementale)	Tunisia	Member of the GEO-CRADLE Networking Platform



GEO-CRADLE contribution to EO market uptake

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.





15 Regional Workshops have taken place so far in the Balkans, the Middle East and North Africa:

- 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
07/12/2017	Tunis, Tunisia
15-16/03/2018	Istanbul, Turkey



<http://geocradle.eu/>







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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



thank you!

