

19-21 JUNE 2017, HELSINKI

EUROPEAN GEO WORKSHOP

EuroGEOSS: Shaping
the European contribution
to GEOSS

<http://europa.eu/!Wq67yk>

#EGW2017



FINNISH
METEOROLOGICAL
INSTITUTE



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GEO-CRADLE Liaison Officer



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

Engagement of stakeholders and networking

<http://geocradle.eu/>



GEO-CRADLE in a nutshell (GA: 690133)

Main Objective: promote the uptake and exploitation of Earth Observation activities in North Africa, Middle East and the Balkans

Duration: 30 months (started on 01/02/2016)

Team: Coordinated by National Observatory of Athens

Specific Objectives

- ❖ Promote the uptake of EO services and data in response to regional needs
- ❖ Support the effective integration of existing EO 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 the RoI

Thematic areas



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 Energy (SENSE)

7



AFFORDABLE AND
CLEAN ENERGY

9



INDUSTRY, INNOVATION
AND INFRASTRUCTURE



Partnership



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

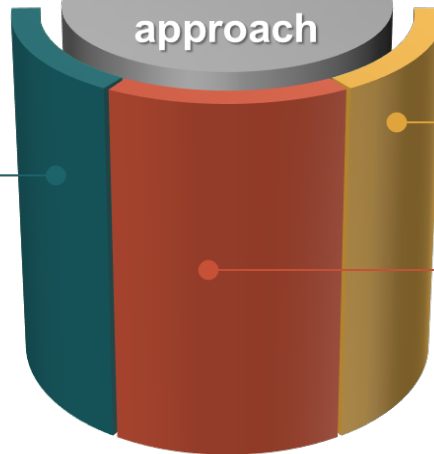


The "Sustain - Enhance - Expand" approach for engagement

SUSTAIN
Maintaining continued
productive engagement



Three-tier approach



EXPAND
Increasing the number
and type of stakeholders



ENHANCE
Strengthening
engagement



4 pillars



❖ at the organization level, e.g.
GEO, EC Copernicus DG Grow – and RTD,
ERA-PLANET, WMO/GAW, ESA and other
individual projects

❖ at the space agency level, e.g.



❖ at the governmental level, e.g.





About GEO-CRADLE

Team

Activities

Regional Capacities

Outreach

Resources

Tools

News & Events

English

<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



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

Available for the first time in the Rol:

- inventory of regional capacities
- profiles of stakeholders
- assessment of country maturity
- search for potential partners

RECENT STAKEHOLDERS

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



COUNTRIES

26

STAKEHOLDERS

170

PROFILES VIEWS

5914

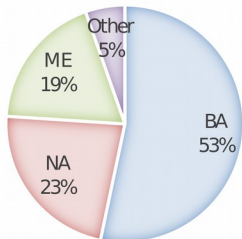


STAKEHOLDERS PER COUNTRY

Stakeholders statistics

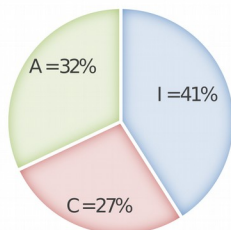
STAKEHOLDERS PER REGION

BA= Balkans; NA= North Africa;
ME= Middle East



STAKEHOLDERS PER TYPE

I=Institutional; C=Commercial;
A=Academic



STAKEHOLDERS PER VALUE CHAIN ROLE

Raw data/provider	55.4%
Value-adder (data process-modelling)	61.2%
GIS/mapping service provider	44.2%
End User or End User with in house GIS/mapping capabilities	50.4%



26.04.2017
Brussels

Engagement of Industry

- raising awareness amongst industrial stakeholders active in export markets
- enriching the networking platform and enabling future collaborations
- establishing concrete links with companies interested in collaborating in or exploiting of pilot activities' results
- first engagement of Copernicus ecosystem via the presence of its Entrusted Entities



GEO-CRADLE

at "Improving EO services industry involvement in EU space programmes and initiatives"

GET INVOLVED!

REGIONAL NETWORKING PLATFORM

User-friendly and comprehensive platform where regional stakeholders can be informed on existing capacities, complementary skills and collaboration opportunities

- Find partners and potential customers / upload your company-organisation profile
- Help us understand the EO Maturity in your country in support of future actions
- Join the network

REGIONAL DATA HUB

Access to region-related datasets, portals and services / centralised gateway for regional data providers to contribute easily and timely their products to GEOSS

- Gain access to local/regional datasets

97 participants from which
64% industry, 16% institutions, 10%
EEEs, 10% EC



GEO-CRADLE Project

Coordinating and integrating Earth Observation activities



Pilot Activities

Follow our pilot activities in four thematic areas:



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Take part in our



Databases

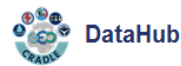
Access, search and share Earth Observation Data for the three regions.



Funding Opportunities

Explore the available funding opportunities and the benefit of

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



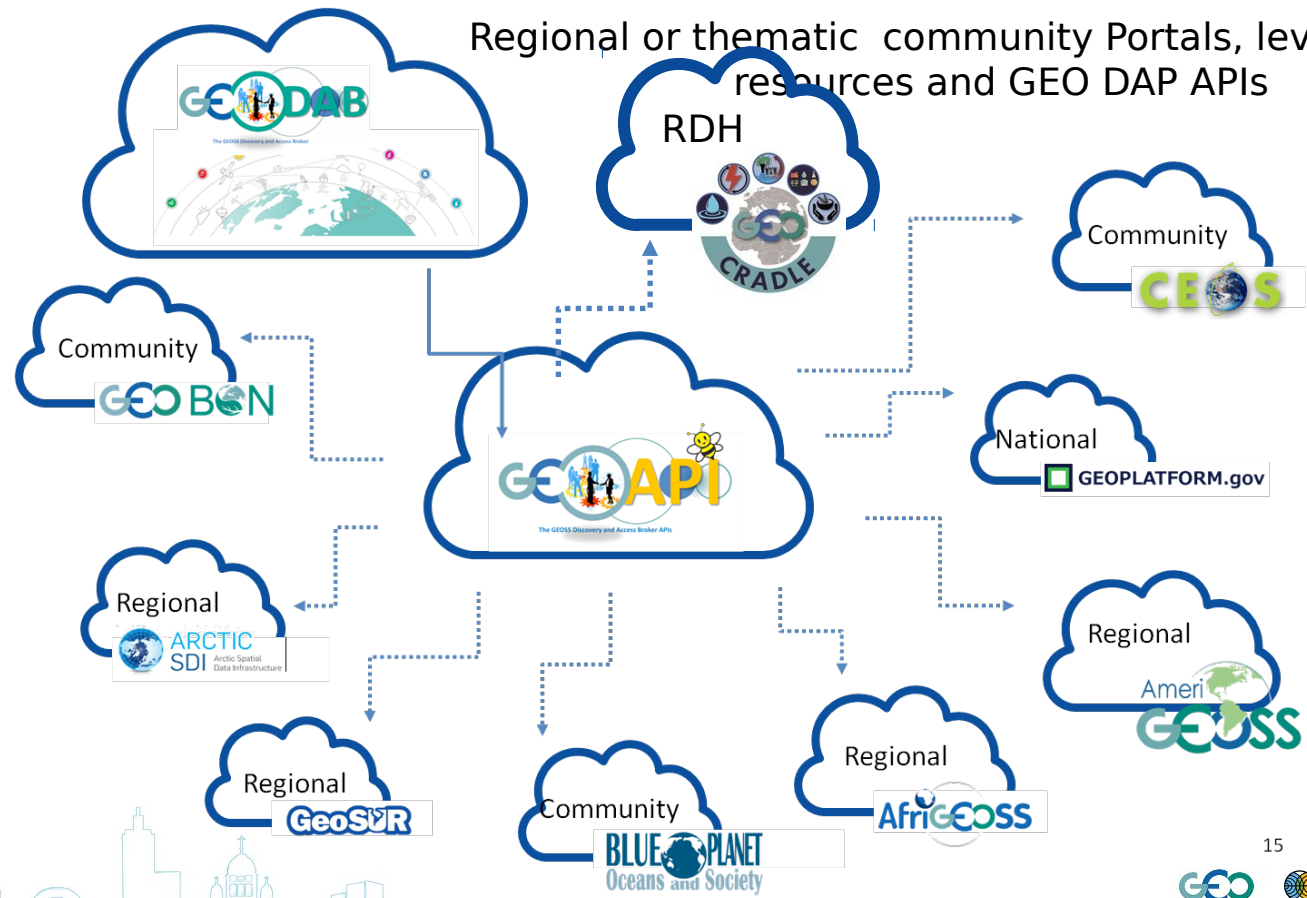
Food And Security



Energy

Users/GEO Portals

Regional or thematic community Portals, leveraging GCI resources and GEO DAP APIs

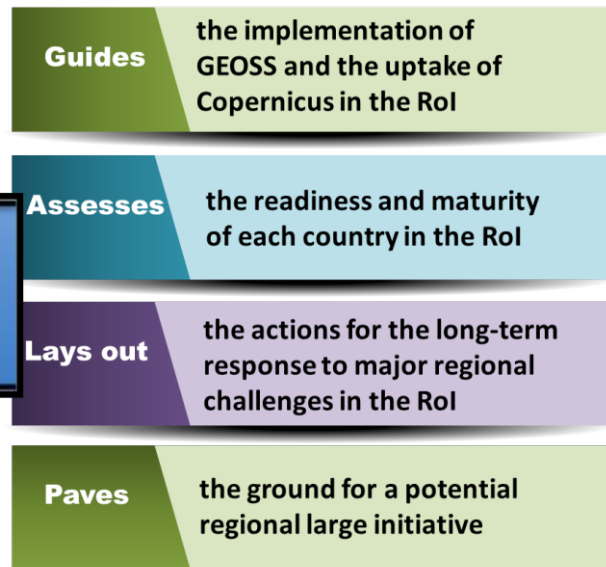


GROUP ON
EARTH OBSERVATIONS



GEO-CRADLE contributions to engagement and sustainability of the network

- ✓ **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



- ✓ **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 contributions to engagement and sustainability of the network

- ✓ **Generate and sustain a network of stakeholders** to ensure visibility, and sharing of knowhow, excellence, and skills between the local actors and their counterparts worldwide
- ✓ **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
- ✓ **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
- ✓ **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 GEOS & Copernicus

Impacts

Timing	Target range		Actual #
	T1	T2	Progress
Regional EO capacities, gaps and priorities (WP2+WP3)			
Stakeholders participating in dedicated surveys	50-75	100-150	242
Number of identified regional priorities	6-8	10-15	8
In-situ networks to be supported and integrated	20-25	25-30	84
Unified and complementary operation of regional observational systems (space-based, air-borne and ground segment)	10-15	20-30	25
Implementation of sustained regional services	3-5	7-10	In progress
Countries covered in priority action plan	14-15	20-25	12
Contributions to specific challenges, GEOSS and Copernicus (WP4+WP5)			
Experimental campaigns from which data will be integrated	5-7	8-12	16
Regional Participating Organizations (POs) added to GEOSS	5-7	10-15	1
Integrated Regional Datasets accessible through RDH	1-5	7-12	3
Country (G)EO Maturity Profiles	14-18	20-25	In progress
Establishment and operation of Regional/National GEO Offices	2-3	3-5	1
Outside GEO-CRADLE activity plan, partner-partner and/or partner-stakeholder partnerships triggered via GEO-CRADLE networking	2-3	5-7	9
Task leads/contributions to specific GEO tasks by GEO-CRADLE players	5-7	10-15	11
Engagement and Exploitation (WP6+WP7)			
Regional/National workshops, technical meetings	7-10	15-20	10
Systematic users of Regional Data Hub	25-50	50-100	In progress

Impacts

Stakeholders
participating
in dedicated
surveys

242

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Key decision makers engaged in GEO-CRADLE network	10-15	20-30	21

Impacts

In-situ
networks to
be supported
and
integrated

84

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Impacts

Integrated
Regional
Datasets
accessible
through RDH

3

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Key decision
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engaged in
GEO-CRADLE
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Impacts

Private
companies
engagement
with GEO-
CRADLE

5

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So yes, sometimes numbers lie ...
but this is probably not the case with

