



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

Panel Session 4

Impact and Exploitation





Outline

1

Expected Impacts

2

Impact Assessment

3

Exploitation

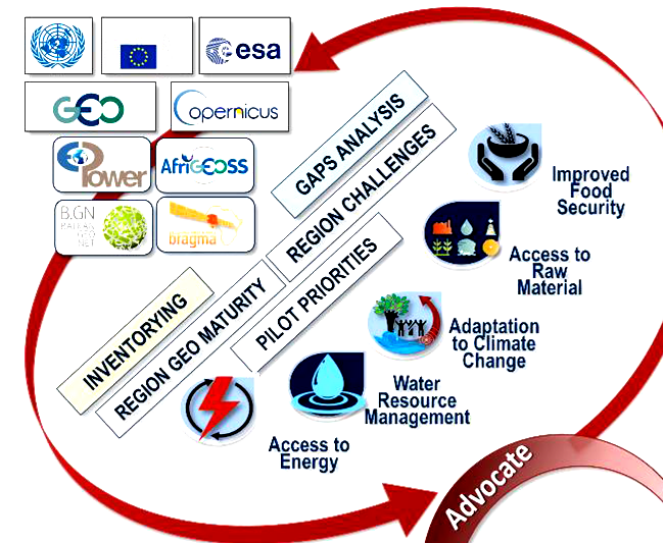
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Vision



Expected Impacts

- Improved food security, access to raw materials and energy, and adaptation to climate change in RoI
 - **Pilots**
- Improved EO data and information services
 - **Regional Data Hub**
- Utilisation of relevant infrastructures by decision-makers and public services
 - **Advocacy and awareness-raising**
 - **Diffusion of best practices and know-how at transnational and regional level**
- Future investments, leading to sustainable development of resources/activities
 - **Ecosystem build-up and engagement**
 - **Long-term roadmap**
- Strengthened competitiveness and performance
 - **Regional Data Hub**
 - **Engagement of SMEs, industry and decision-makers**





Measuring the project's impact

At project level – Task 7.1

- Definition of and monitoring progress against a set of **KPIs**
- Collection of feedback through **stakeholder engagement**
- Elaboration of methodology for **impact monitoring beyond the project**

At country level – Task 3.2

- Common, consistent and sustainable “scoring” methodology
- Visualised within the **Country (G)EO Maturity Card**

Maturity Table per country	Awareness		Capacity		GEOSS & Copernicus Implementation											
	Networking events	Thematic Workshops	Dedicated dissemination activities	National Policies - Implementation	Penetration of EO information in public services	National infrastructure	Critical mass of EO researchers	Industry Base	Space Agency or designated Space Authority	Dedicated capacity building initiatives	GEO and Copernicus relevant projects	GEO SBAS tasks, initiatives	Provision of data to GEOSS	Designated GEO office	Copernicus Ground Segment	OVERALL SCORE
Example	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Albania																
Bulgaria																
Cyprus																
Egypt																
Greece																
...																
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...																
	Maturity criteria	Level 0 "Beginner"	Level 1 "First traction"	Level 2 "Active Engagement"	Level 3 "Full swing"											
	Awareness	- No coordinated EO	- Circumstantial dissemination	- Regular Workshops and other dissemination activities - Regular networking initiatives (national, regional level)	- Penetration of EO services and products in public services (e.g. civil protection) - Permanent Fora for EO-related dissemination											
	Capacity	- No national infrastructure - No investment policy - No involvement in capacity building projects	- Existence of limited infrastructure - Initial investments on capacity building - Light involvement in capacity building projects	- Critical mass of researchers in the field of EO - Growing industry base - Medium involvement in capacity building projects	- Operation of a space agency - Centers of excellence - Commitment, national planning /prioritisation and financial support - Solid industry base											
	GEOSS and Copernicus Implementation	- No participation thus far in GEO projects - No data linked to GEOSS portal	- One-off participation in GEO relevant projects - Limited provision of data to GEOSS portal	- Participation in GEO SBAS, tasks etc. - Implementation of GEO relevant projects - GEO partner organizations	- Lead in GEO SBAS, tasks, etc. - Lead of GEO relevant projects - Direct provision of data and products/services to GEOSS - Designated GEO office - National representation and participation in HLWG, Plenary meetings, other committees											



Key performance indicators

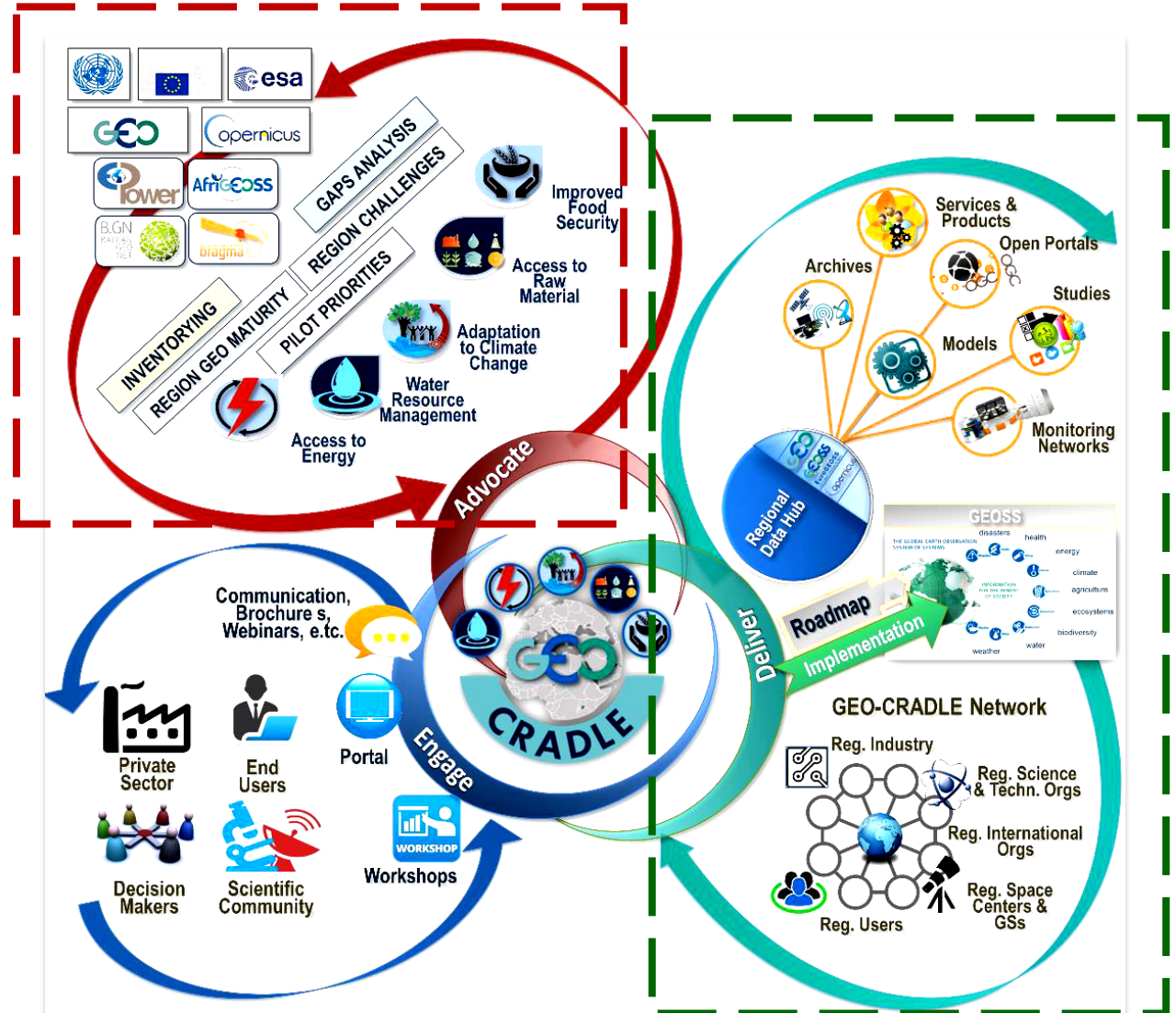
	Timing ¹⁰	Target range	
		t1	t2
Regional EO capacities, gaps and priorities (WP2+WP3)			
Stakeholders participating in dedicated surveys		50-75	100-150
In-situ networks to be supported and integrated		20-25	25-30
Unified and complementary operation of regional observational systems (space-based, air-borne and ground segment)		10-15	20-30
Gap analyses of key domains (e.g. climate change, food security, raw materials, energy, disaster resilience, etc.)		4-6	7-15
Countries covered in priority action plan		14-15	20-25
Contributions to specific challenges, GEOSS and Copernicus (WP4+WP5)			
Experimental campaigns from which data will be integrated		5-7	8-12
Regional Participating Organizations (POs) added to GEOSS		5-7	10-15
Country (G)EO Maturity Profiles		14-18	20-25
Establishment and operation of Regional/National GEO Offices		2-3	3-5
Task leads/contributions to specific GEO tasks by GEO-CRADLE players		5-7	10-15
Engagement and Exploitation (WP6+WP7)			
Regional/National workshops, technical meetings		7-10	15-20
Systematic users of Regional Data Hub		25-50	50-100
Key decision makers engaged in GEO-CRADLE network		10-15	20-30
Spin-off and R&D projects built on GEO-CRADLE and its pilots		1-3	3-5
Private companies engagement to GEO-CRADLE		3-5	5-10
Regional EO actors profile available through GEO-CRADLE portal		50-60	100-150
Countries represented in GEO-CRADLE Network		14-15	20-25



Main pillars of the Exploitation methodology

- Foundation of GEO-CRADLE network
- Establishment of regional Data Hub

- Long-term strategy against regional challenges





Exploitation Scenarios

Scenario 1

Regional Flagship Initiative

- Uptake and follow-up of GEO-CRADLE activities in the frame of a new regional GEO flagship initiative

Scenario 2

Geo-CRADLE Network and Data Hub

- Network and Data Hub maintained by consortium members using own funds (national/regional)

Scenario 3

Follow-up Collaborative Project

- Future GEO-related H2020 as follow-on (potentially focusing in on certain activities)

Scenario 4

National-level continuation

- Exploitation of thematic activities at national or transnational level

Scenario 5

Spin-off R&D based on pilots

- R&D projects and/or partnerships launched on the basis of pilots



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Our Vision

Establish the “cradle” of sustainable, coordinated EO activities and capacities in the RoI, supporting the implementation of GEOSS and Copernicus in the RoI.