



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

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**GEO-CRADLE Kick-Off Meeting**  
**Friday, 19<sup>th</sup> of February, 2016**

## **WP3 – Gap Analysis, Indicators and Priorities**

**Grigoris Chatzikostas, InoSens**



## WP3 Objectives

# WP3 – The Bridge

WP2

Previous  
Projects

WP4

WP5





## WP3 Objectives

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01

**To conduct a thorough gap analysis** using user needs from T2.4 and EO capacities inventories from T2.1, T2.2, T2.3.

02

**To formulate a set of maturity indicators** pertaining to the level of progress of each country towards implementation of GEO and Copernicus.

03

**To define the priorities related to regional challenges** using output of previous two steps and devise an action plan to tackle them.



## WP3 Plan

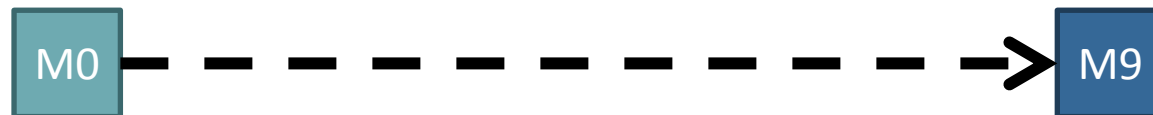
Task	Task Leader	Task Participants	Time Frame
<b>T3.1 – Gap Analysis</b> D3.1 – Gap Analysis Report	<b>INS</b>	NOA, IBEC, CEDARE, CERT, IPB, CIMA, EARSC, EURISY, EGS	M5-M9
<b>T3.2 – Maturity Indicators</b> D3.2 Maturity Indicators and country (G)EO profile I D3.4 Maturity Indicators and country (G)EO profile II	<b>EARSC</b>	NOA, CEDARE, CERT, TAU, CUT, UZAY, SRTI, INOE, UCSM, INCA, INS	M6-M26
<b>T3.3 – Priorities in Relation to Regional Challenges</b> D3.3 Priorities Action Plan	<b>CERT</b>	NOA, IBEC, CEDARE, INS	M7-10



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## Task 3.1 – Gap Analysis

Task Leader – InoSens





## Task 3.1 – Gap Analysis

T2.1

Inventory:

T2.2

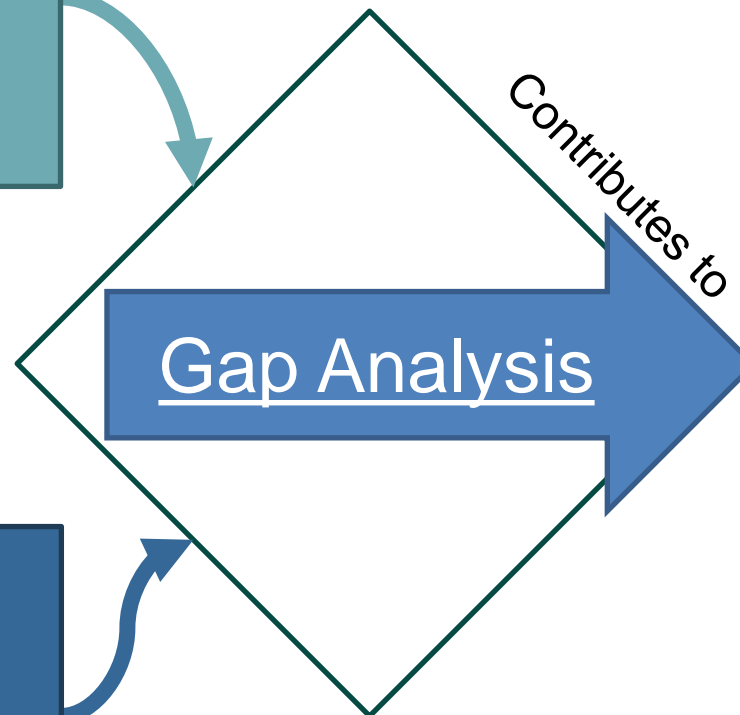
Infrastructure  
& Technical  
Capacities

T2.3

T2.4

EO user  
needs:

Intermediate  
and end-users



GEO Sub-task  
CB-09-04a

Identifying Best  
Practices, Gaps and  
Needs for the RoI

To create conditions and  
the enabling  
environment for  
engaging the EO global  
user base with capacity  
building providers and  
developers



## Task 3.1 – Gap Analysis

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**Collaborative research between countries seen as good starting point towards an integrated operation Africa-wide network**



## Task 3.1 – Gap Analysis

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Need to move towards a continent level community to apply EO potential for marine and coastal areas, long-term natural resource management, & water management.





## Task 3.1 – Gap Analysis

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B.GN  
BALKAN  
GEO  
NET



Need for cohesion and coordination within and between countries/fields, start with a top-down approach to drive enabling policies and common standards



## Task 3.1 – Gap Analysis

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Need to overcome fragmentation by promoting GEOSS advantages and to provide higher-quality products to end-users.



## Task 3.1 – Gap Analysis

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Very specific recommendations to improve integration of European atmospheric probing capacities: transparency and commonly defined measurements.



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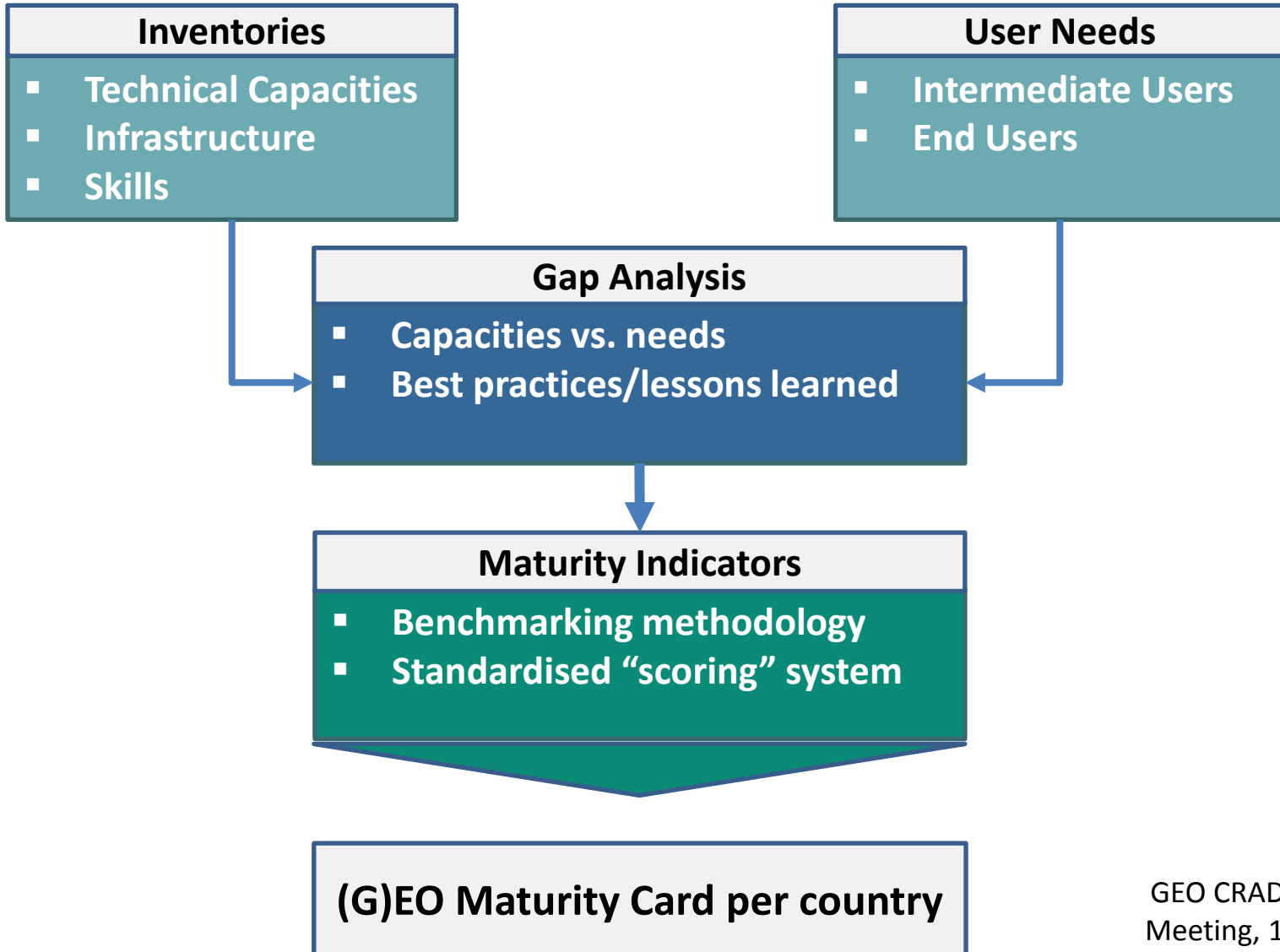
## Task 3.2 – Maturity Indicators

Task Leader – European Association of Remote Sensing  
Companies





## Task 3.2 – Maturity Indicators





# Task 3.2 – Maturity Indicators

Maturity Table per country	Awareness				Capacity				GEOSS & Copernicus Implementation				OVERALL SCORE	
	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
Example														
Albania														
Bulgaria														
Cyprus														
Egypt														
Greece														
...														
...														
...														
...														

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

- Define common methodology for country (G)EO Maturity Assessment
- Introduce indicators that will help monitoring within and beyond the project
- Provide standardised “scoring” tool to GEO
- Enable monitoring of progress against regional priorities

Mock-up of Maturity table and relevant criteria



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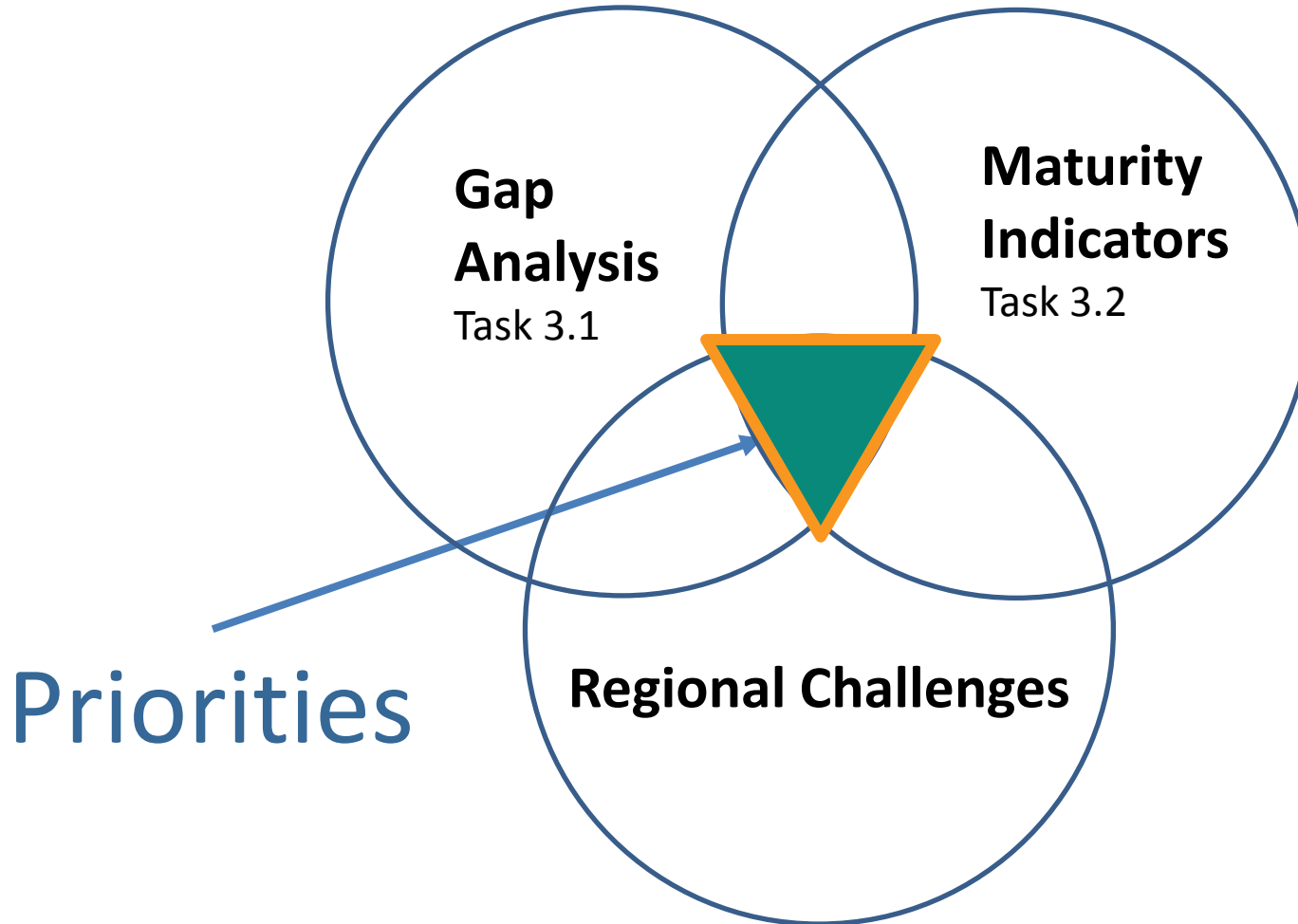
## Task 3.3 – Priorities in Relation to Challenges

Task Leader – Le Centre d'Etudes et de Recherche des  
Télécommunications





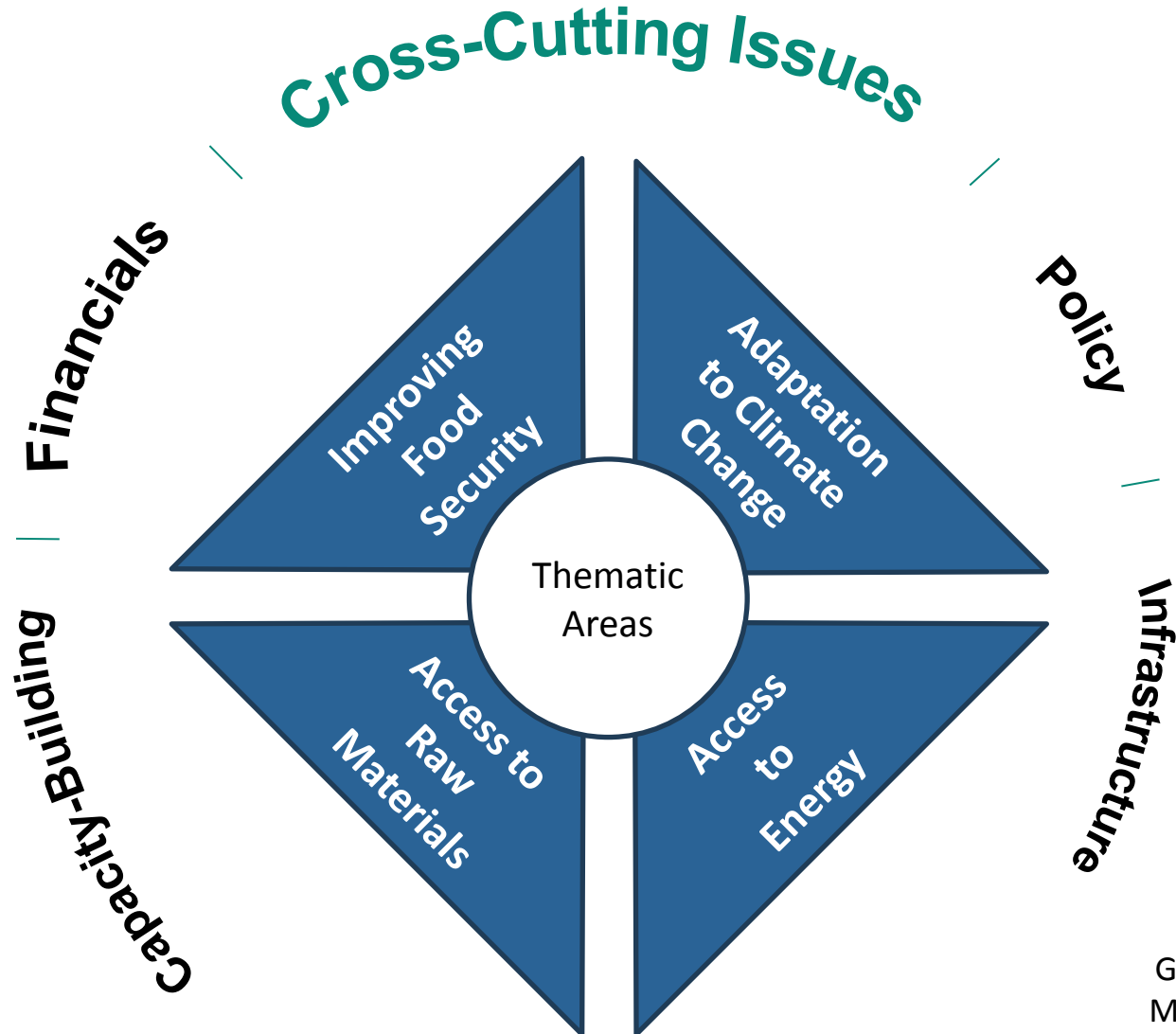
## Task 3.3 – Priorities in Relation to Reg. Challenges





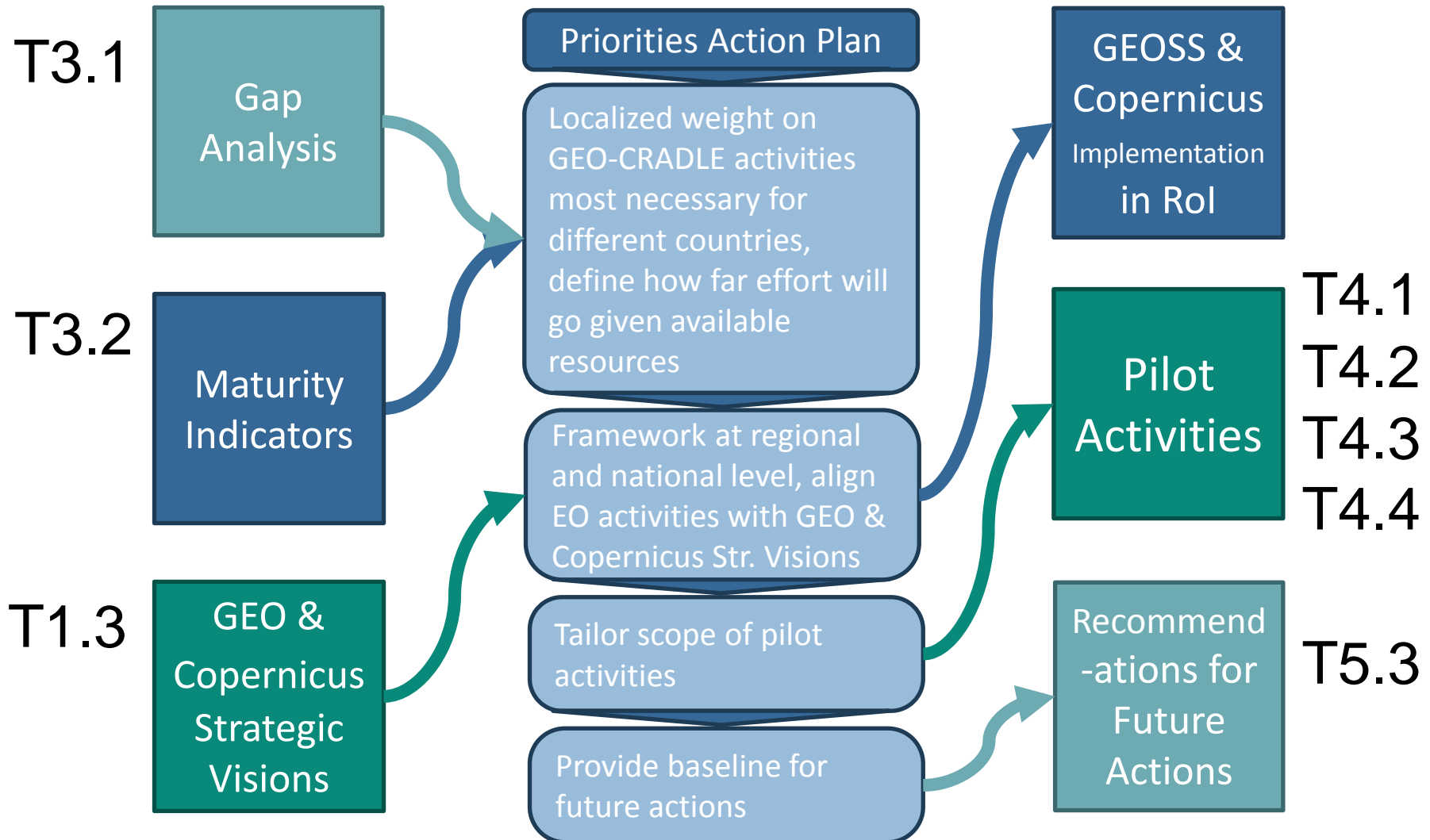


## Task 3.3 – Priorities in Relation to Reg. Challenges





## Task 3.3 – Priorities in Relation to Reg. Challenges





Your Questions are Welcome

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# Thank you

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