

# European Commission Knowledge Centre on Earth Observation

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# **Space Strategy**

**Space strategy for Europe COM(2016) 705** mandates the Commission to encourage the uptake the use of Earth Observation, the KCEO aims to address this for EU Policy:

> "The Commission will thus <u>encourage the use</u> of space services, data and applications <u>in EU</u> <u>policies</u> whenever they provide effective solutions..."

> *"The Commission will promote the uptake of Copernicus, EGNOS and Galileo solutions in EU policies where justified and beneficial"*





# The Copernicus for EC - C4EC study

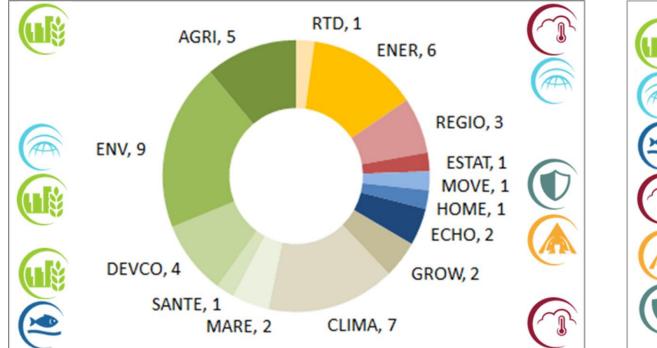
#### Background: Space strategy for Europe COM(2016) 705

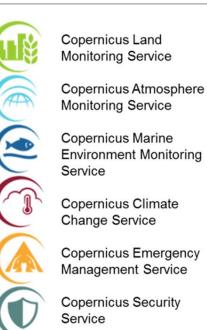
- The Commission will encourage use of space services, data & applications in EU policies
- The Commission will promote the uptake of Copernicus, EGNOS and Galileo solutions in EU

Objectives: Analyse current/potential use of EO/Copernicus in EC

#### Results: 33 policy units of 17 DGs

3





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COPERNICUS AND EARTH OBSERVATION IN SUPPORT OF EU POLICIES Part I: Copernicus Uptake in the European Commission



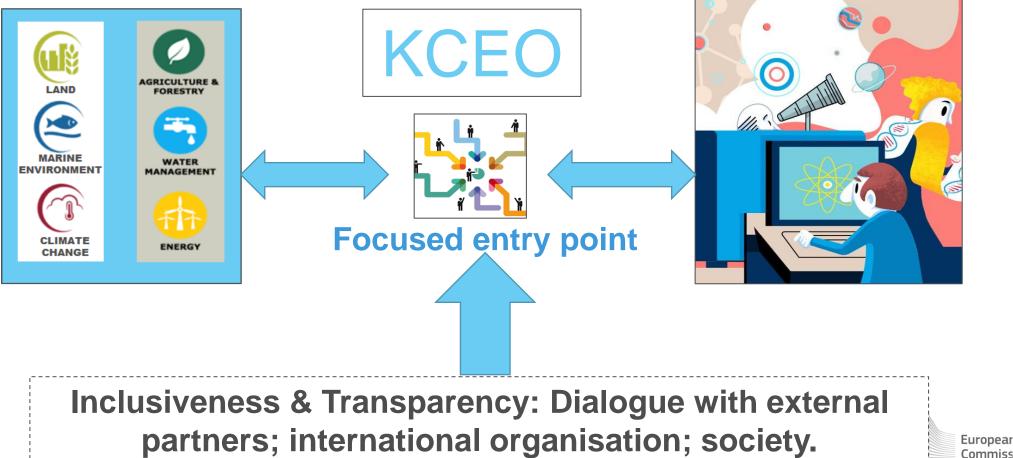


## **KCEO** Focus

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#### **Pillar 1**: Policy Uptake & Coherence

**Pillar 2**: Mainstreaming R&I



### Different types of needs assessment

- Maintain a broad overview of needs cross all services (i.e. update 2018 C4EC study) - provide a live web representation of this
- Consider the extension of this type of assessment to other stakeholders e.g. EU Delegations
- Undertake dedicated targeted assessments for new specific needs
- <u>Deep Dive assessments</u>: comprehensive studies for specific policy areas, 2-3 at a time for ~ 8month / study – we need a roadmap.

Core Activity: Definition and implementation of Policy/User Requirement Database

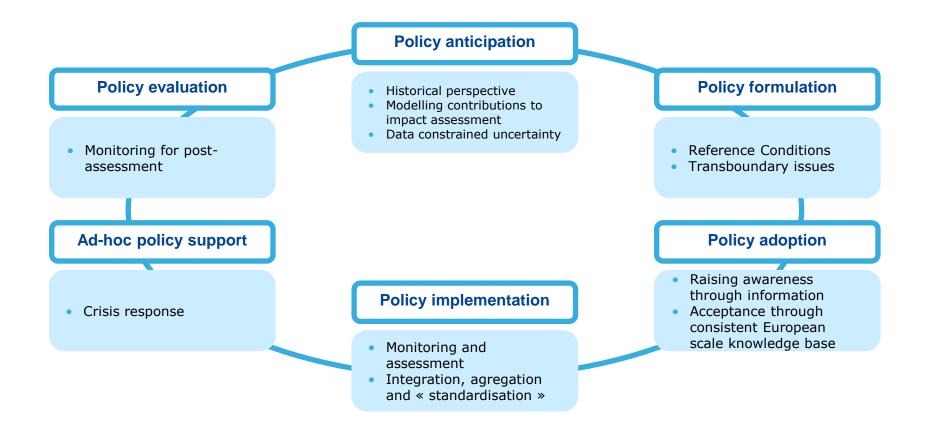


## Space Programme/Copernicus Uptake Roles

- Member States: Copernicus User Forum (in Regulation), MS needs, (Core Users)
- Copernicus Entrusted Entities/Services: ECMWF, Mercator Ocean, EEA, EMSA, Frontex, SatCen, (EUMETSAT, ESA) – link to their own thematic users
- EUSPA (ex GSA) & Cassini: Uptake by non-Core Users (e.g. Private Sector)
- **KCEO**: Focus on uptake for EU Policy, Core Users

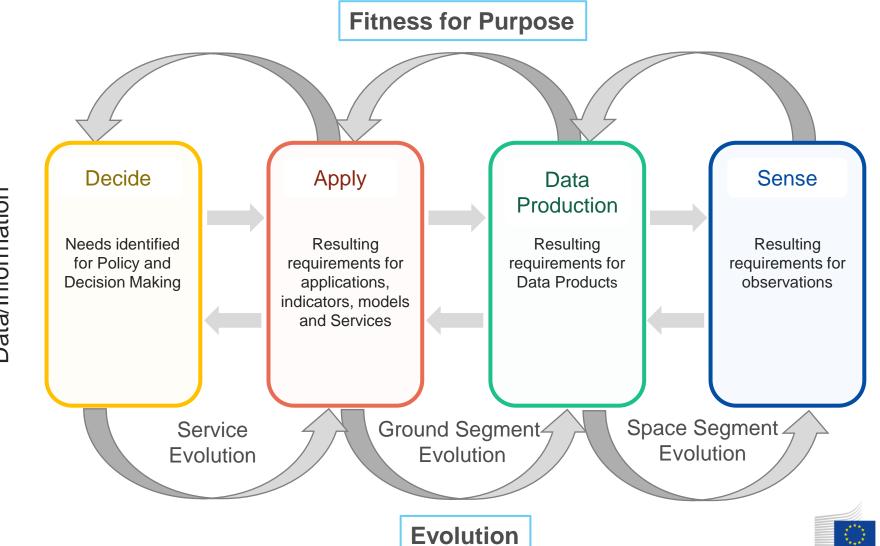


### Uptake throughout the policy cycle





### **Efficient Evolution**



European

Commission

Data/Information

# Taxonomy of policy areas in KCEO

28 relevant policy areas identified (in red those with Thematic Hubs correspondence)

- n Policy area
- 1 Agriculture
- 2 Food security
- 3 Forestry
- 4 Biodiversity
- 5 Plant health
- 6 Soils
- 7 Raw materials
- 8 Inland Water
- 9 Coastal zones
- 10 Fisheries and aquaculture
- 11 Marine pollution
- 12 Marine strategy and Maritime Spatial Planning
- 13 Climate change mitigation
- 14 Climate change adaptation

**Policy area** n 15 Arctic and polar regions Air quality 16 **Environmental compliance** 17 18 Transport 19 Energy 20 Regional and urban policies 21 Health 22 Tourism 23 Cultural and natural heritage Support to natural and man-made disasters 24 International development and cooperation 25 26 Sustainable Development Goals 27 Migration and Home affairs **Defence and Security** 28



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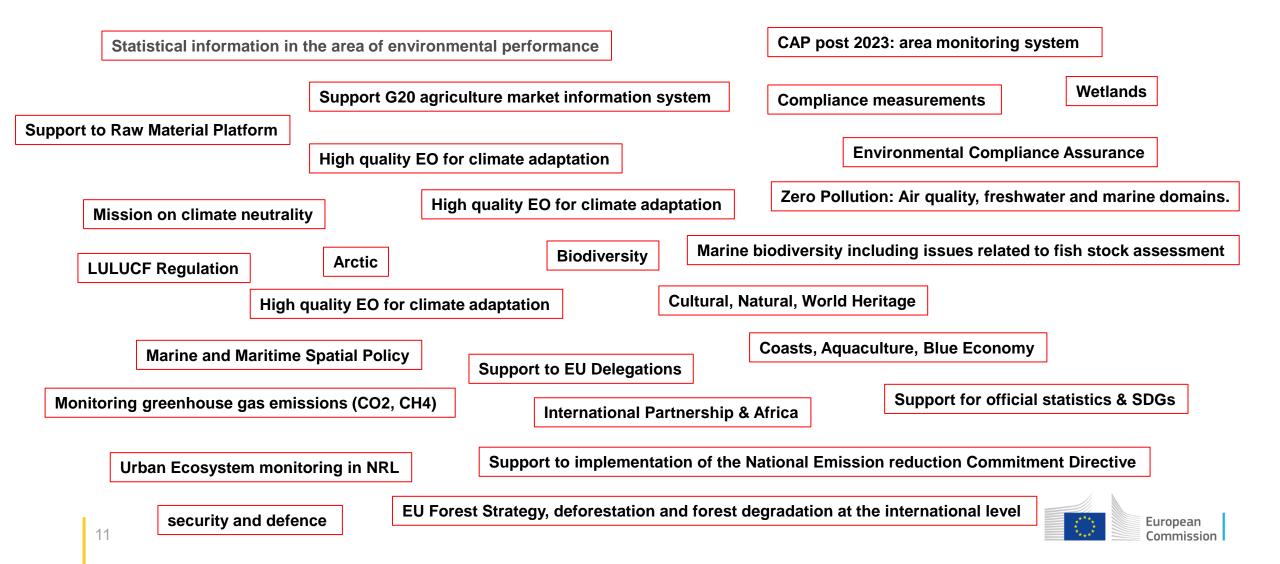
# KCEO Deep Dive steps

- 1. Overview of Policy needs: interviews, workshops
- 2. Value chain assessment
- 3. Translation of needs into quantitative requirements
- 4. Assessment of fitness-for-purpose with regard to existing products/services/infrastructure
- 5. Gap Analysis & Recommendations for evolution





# **Summary of Previous Expressed Priorities**



## Roadmap layout and options

		Q2 22	Q3 22	Q4 22	Q1 23	Q2 23	Q3 23	Q4 23	Q1 24	Q2 24	Q3 24	Q4 24
	Deep Dive 1 Biodiversity											
	Deep Dive 2 Climate Adaptation											
	Deep Dive 3Compliance Assurance	)										
	Deep Dive 4 Cult/World Heritage											
	Deep Dive Coastal											
	Deep Dive 6 Energy											
	Deep Dive 7SDGs											
	Deep Dive Health											



#### KCEO web presence (https://knowledge4policy.ec.europa.eu/earthobservation)

#### KNOWLEDGE FOR POLICY

#### **Knowledge Centre on Earth Observation**

We enable the uptake of state-of-the-art knowledge from Earth Observation for EU policies and better regulation.

What we do

#### PAGE CONTENTS

What we do

Brief me

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- The Knowledge Centre on Earth Observation helps EU policymakers to fully exploit the growing amount of EO data, products and applications by
- assessing needs of EU policies and translating these into technical requirements for EO products and
- services
- analysing research needs and priorities for innovating EU Earth Observation programmes
- bringing together an active community of scientists. policymakers and specialists

#### Brief me

The policy uptake of products and information from Copernicus, the Earth Observation programme of the EU, can be maximised by providing

- in depth assessments of needs/priorities for Copernicus products and services in support of EU policies and establishing best practices to translate policy needs into concrete requirements for products and services
- · a continuous scanning of research needs and priorities and raising awareness on next generation EO science and associated technologies to enhance the exploitation on Copernicus throughout the policy cycle
- · opportunities for dialogue among policymakers, scientists and technical implementing entities associated with Copernicus and Earth Observation in general, bridging policy and scientific perspectives

Knowledge Centre on Earth Observation - infographic English (1.14 MB - pdf)

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#### PAGE CONTENTS **Browse Earth Observation by topic**

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What we do

topic

Featured content



#### EU policies and Earth Observation

Explore how EU policies can benefit from Earth Observation and maximize its uptake for better regulation.

#### Featured content





SDGs



EU international partnership and EO

Earth Observation for User uptake case REDD+







Guided navigation into the vast catalogue of Copernicus products and services

#### Fitness for purpose of EO products

Today there is a lot of EO data and products available from Copernicus and other sources. Which data/products best meet user needs? Are these fit for purpose?

#### Explore the latest trends and developments of Earth Observation, research agendas, projects and outlook.

## **Research & Innovation**

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