



Maximizing the socio-economic benefits of Copernicus

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Space



 **Copernicus**
Europe's eyes on Earth

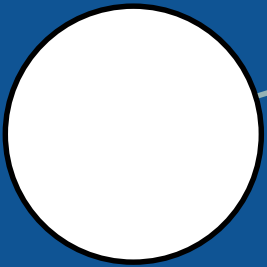
**I. Socio-economic
assessment of Copernicus**



II. Barriers to uptake

III. Action Plan

I. Socio-economic assessment of Copernicus



- ★ **Significant EU investment in Space**

- ★ **Need to ensure maximum return**

- ★ **Space upstream: 16 Bn€ vs. mid-downstream: 160 Bn€**

- **Study on the socio-economic benefits of Copernicus**
 - Launched in Sept 2015
 - Final results June 2016

3 OBJECTIVES

- ★ **Update of the study on the impact of Copernicus upstream activities**
- ★ **Evaluation of downstream impact**
- ★ **Copernicus Market Report**

Competitive dynamics on the EO downstream market

★ **Massive increase in supply of data**

- Open data public programmes
- UAVs
- EO 2.0 (PlanetLab)
- Open data movement

★ **"Digitization of downstream"**

- Big data, Cloud computing, Open source movement...
- Platforms become central (Google/Terra Bella)

➔ **Vertical integration / Fast growth / Higher competition**
(e.g. Airbus DS geo)

Socio-economic impact of Copernicus

★ 10 value chains / 10 case studies

- Insurance, Renewable energies, Agriculture...
- Current use of EO, Market trends, SWOT
- Quantitative and Qualitative impact of Copernicus

★ Examples

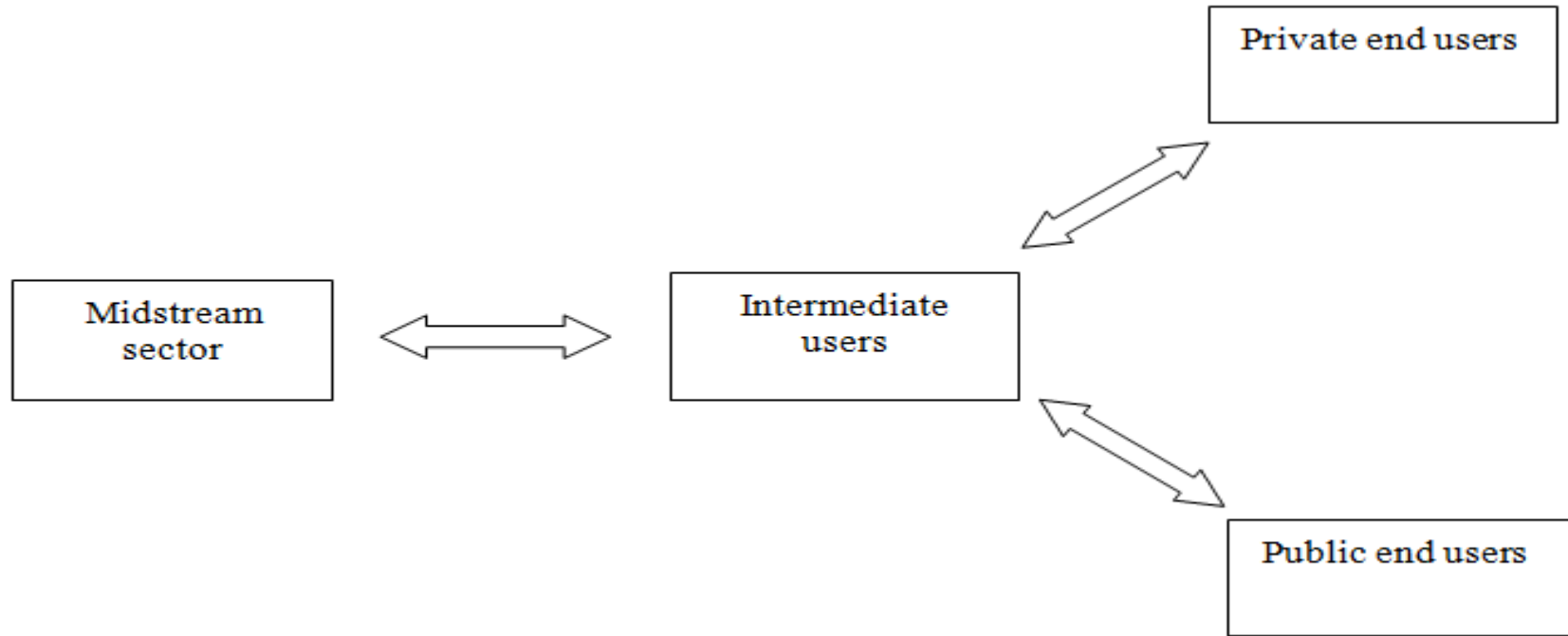
- Ocean: Asimuth (Harmful Algal Blooms monitoring) led to 5% increase in fish farmer productivity
- Forestry: 15% of VAS sales directly attributable to Copernicus data

→ Thematic and transversal recommendations



II. Barriers to uptake

3 problems:



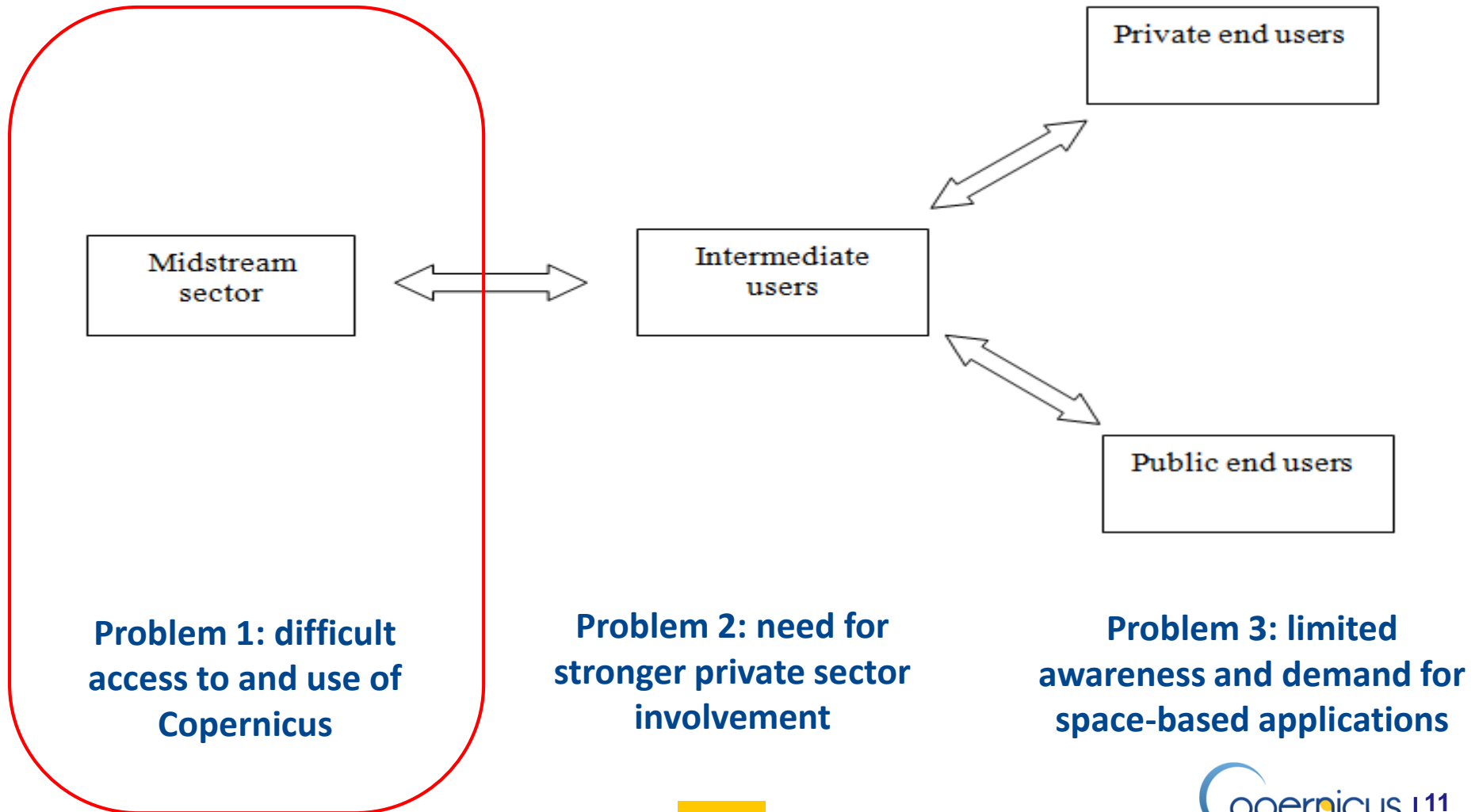
Problem 1: difficult access to and use of Copernicus

Problem 2: need for stronger private sector involvement

Problem 3: limited awareness and demand for space-based applications



III. Action Plan





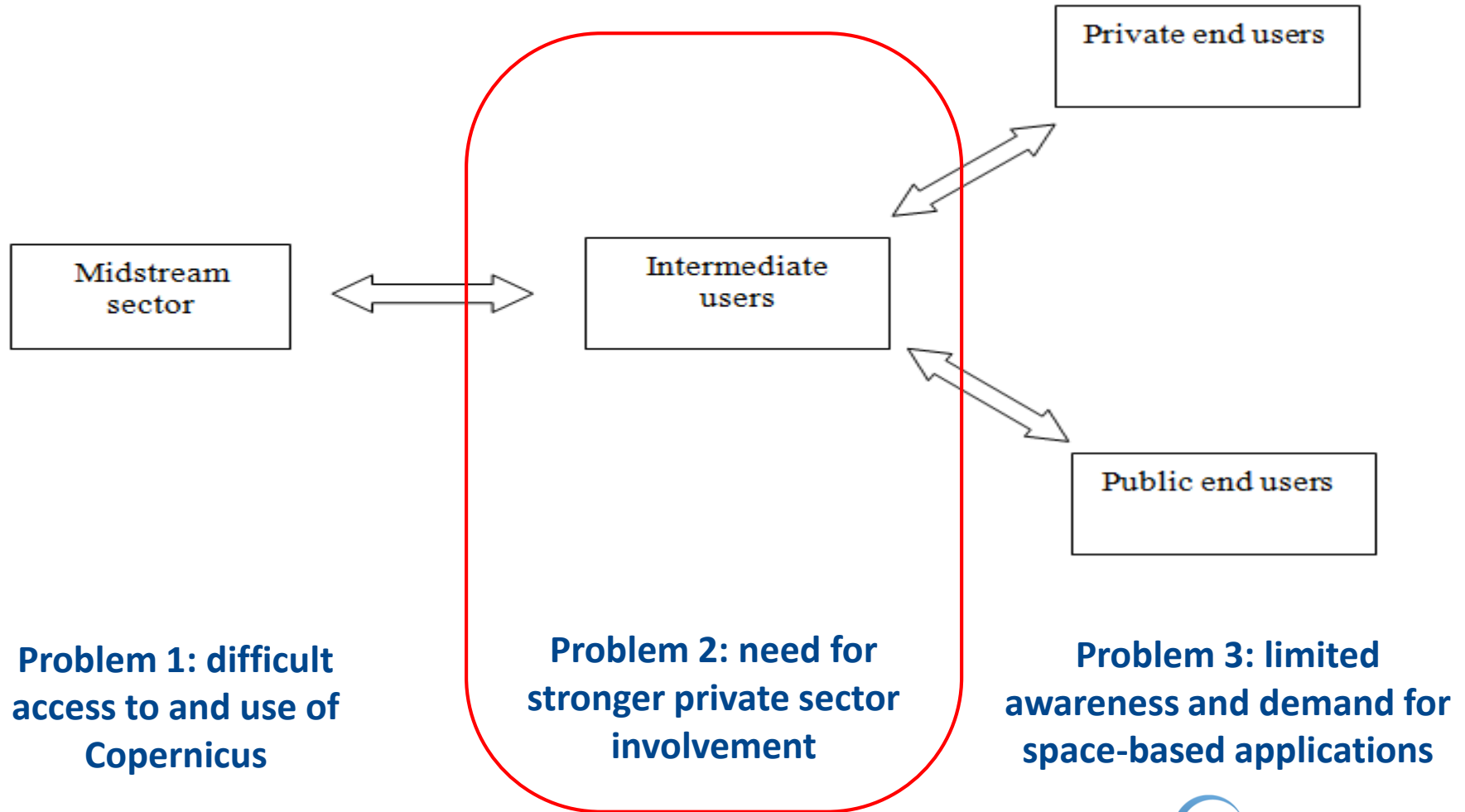
OBJECTIVE: EASY ACCESS & USE OF COPERNICUS

★ **Development of at least 3 industry-led platforms**

- With hosted processing
- Interoperability
- Open to other data and service providers

★ **Technical assistance**

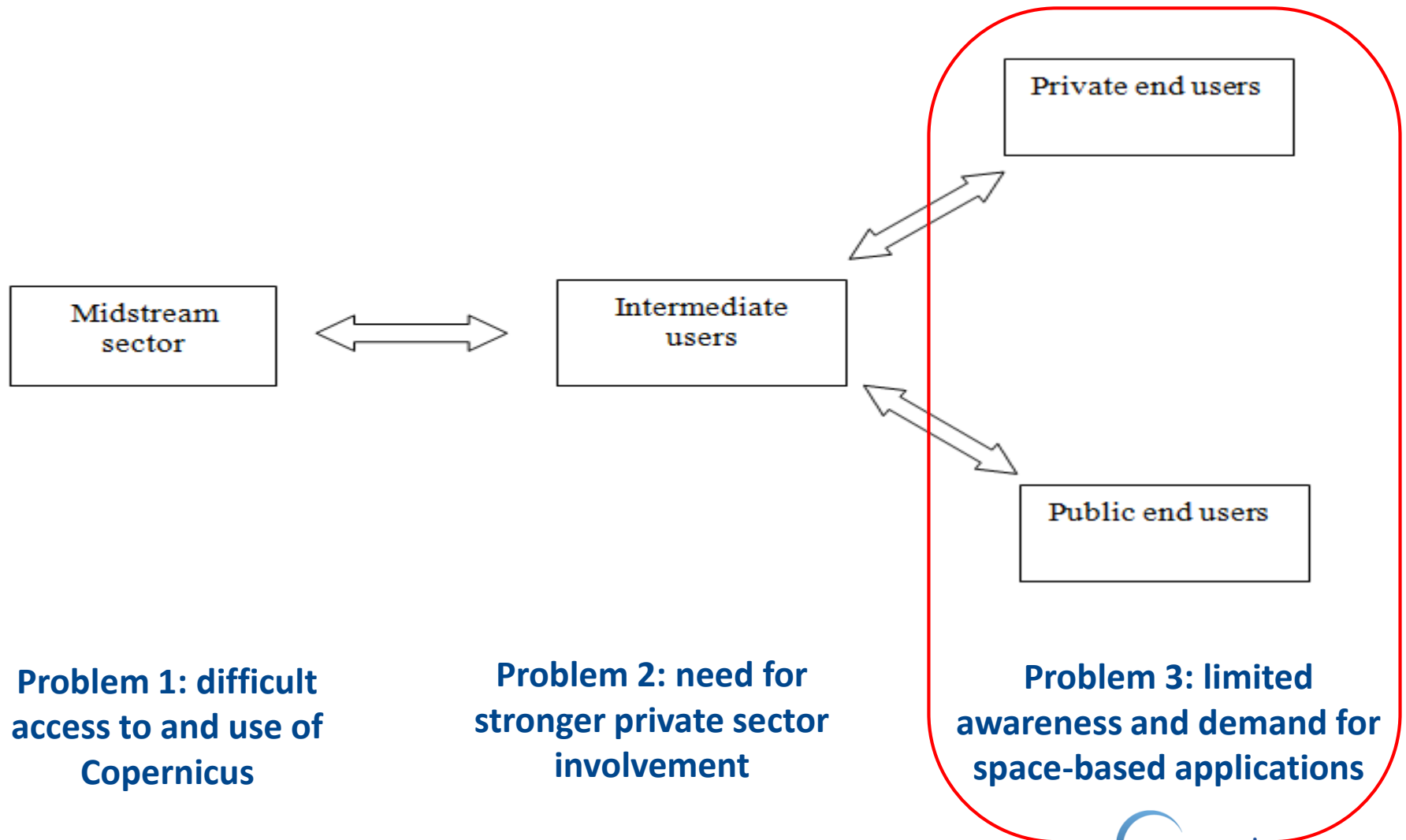
- Info sessions
- Copernicus Support office



OBJECTIVE: FOSTERING INNOVATION IN THE DOWNSTREAM SECTOR

- ★ **Delineation between the Copernicus services and the downstream sector**
- ★ **Copernicus start-up programme**
- ★ **H2020** (SME instrument)
- ★ **Geomatics skills** (cooperation with EIT-KIC)





OBJECTIVE: INCREASING AWARENESS OF END USERS

★ **Cooperation with Member States**

- Copernicus Relays
- Framework Partnership Agreement
- Public procurement

★ **Uptake from the Commission**

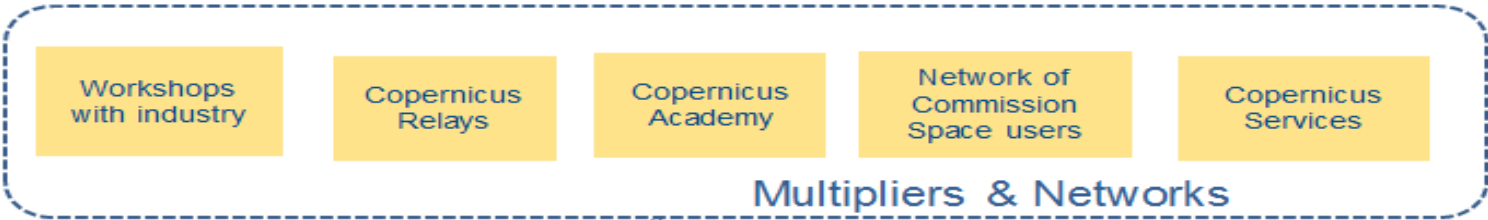
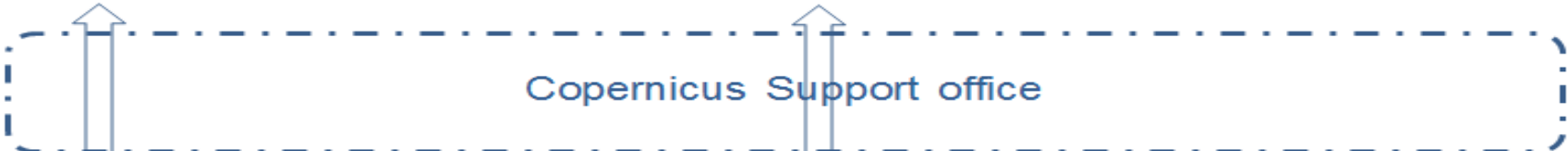
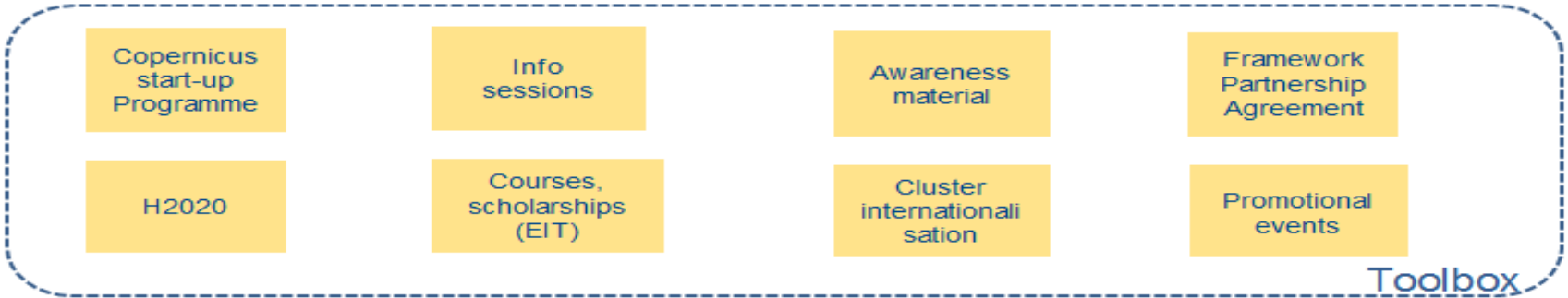
★ **Communication campaign**

- Success stories
- Cross-sectoral dimension





European Commission



Users





Thanks for your attention

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