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Mapping and environmental monitoring in the EU-cooperation with the Indo-Pacific region

19 October 2022

Copernicus Programme Webinar

Objectives of this webinar

- Introduce you to Copernicus Programme
- Promote awareness of the many potential uses of its data and information
- These can benefit EU’s international partnerships and its actions

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Agenda of the webinar: 3 modules

- Welcome
- Introduction
- 1. Earth observation examples
- 2. How to work with Copernicus?
- **3. Features of the Copernicus Programme**
- Evaluation & closure

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Module 3: Overview of the Copernicus Programme

Main features, operational services and mission

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Main features

- Europe’s eyes on Earth – Collaboration between European countries
- Member States Germany, France, UK have important space programmes. They collaborate in the European Space Agency since 1975 (22 countries).
- Copernicus streamlines the delivery of 6 types of services
- Earth observation from the air or space, but also in situ, field data
- Information packed as services to users and public in general

Six thematic information services provided by the Copernicus Earth Observation Programme

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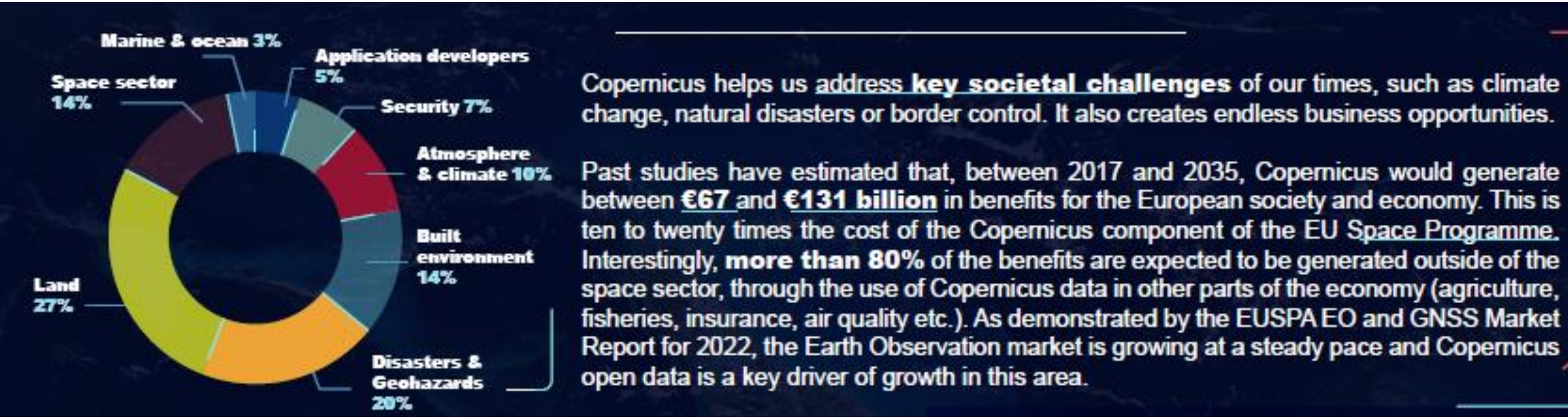
Users of the data and information services

- Local and regional authorities
- Decision makers
- Downstream users:
  - private sector,
  - academia,
  - Civil Society Organisation

Advantages of Copernicus

- Free
- Open
- Full accessibility
- Web pages in 24 EU languages
- Transparent decision making

Benefits for the European society and economy



EU budget: A €16 billion Space Programme to boost EU space leadership beyond 2020

- For the next long-term EU budget 2021-2027:
- the European Commission is proposing to devote €16 billion to help maintain and further enhance the EU's leadership in space.
- Allocated as follows:
  - €9.7 billion for Galileo and EGNOS, the EU's global and regional satellite navigation systems
  - €5.8 billion for Copernicus, the EU's Earth Observation Programme
  - €500 million to develop new security components

ESA’s video on the Copernicus Programme

Practical use for private sector

- Use already available and develop new commercial applications based on freely available data: innovation boosts the economy, ‘made in Europe’
- Climate and weather data
- Precision agriculture
- Water management
- Health, insurance, energy, transport, infrastructure, coastal zone, shipping, tourism, disaster response

Examples of use by private companies in New Caledonia

- Bluecham: mapping and monitoring for decision support
- Digital imaging for land and coastal management

Practical use for public authorities

- Develop added-value information services/products tailored to specific, local needs;
- Governments need operational data to manage society:
  - Public services
  - Spatial planning
  - Pollution surveillance

Examples of use by public authorities

- Forest monitoring for forest management in Fiji
- Papua-New-Guinea: a lot of field work still needed

Practical use for decision-makers

- Monitoring of policies and evidence-based decisions
- Politics is about looking ahead, thus knowing what is likely to happen
- Trend analysis allows to predict in the future.
- Learning from the past, extreme event statistics

Examples of use for decision-making

- Response to disappearing islands in Kiribati Republic
- Adapt to extreme weather events: cyclones, drought in Fiji
- Use of Copernicus Marine Service products to describe the State of the Tropical Western Pacific Ocean around the Islands
- El Nino Southern Oscillation studies
- Monitoring sea-surface height is critical to understanding the changes taking place so that decision-makers have the evidence to implement appropriate policies

Module 3: Overview of the Copernicus Programme

Quiz time!

Questions & Answers

- Ask your questions
- Remarks
- Suggestions on Module 3

Webinar’s evaluation

5 minutes

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Thank you

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