



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

Copernicus Programme Webinar

19 October 2022

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

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



Tarawa Atoll in the Republic of Kiribati

- Copernicus Sentinel-2 image
- one of the lowest-lying nations in the world



Module 2: How to work with Copernicus?

Copernicus implementing entities / tools to support the EU Delegations

How can EUDs interact with Copernicus?

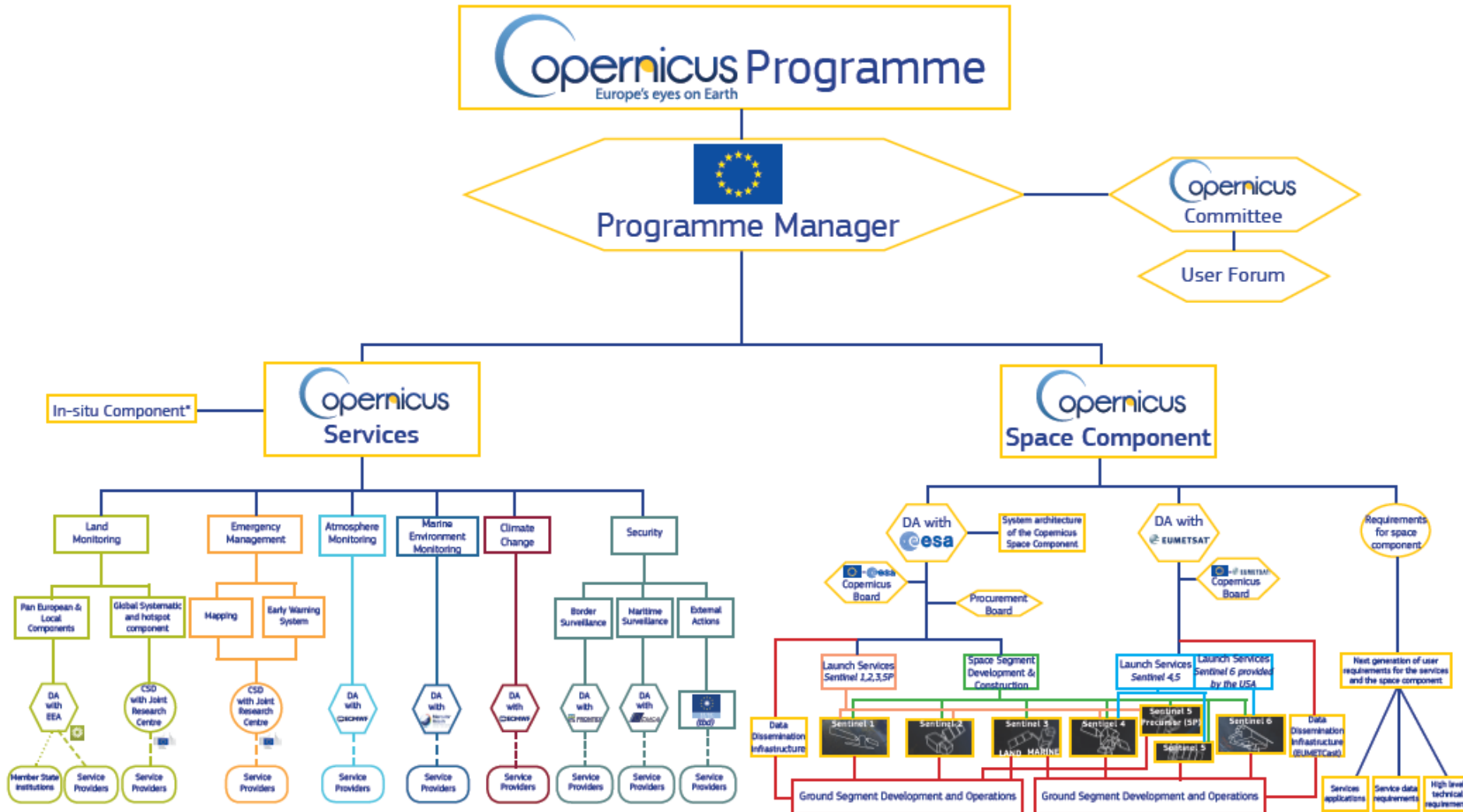
- Copernicus Services with global coverage
- Copernicus Relays in the Pacific region
- Copernicus Support Office



Who is who in the Copernicus Programme?

- **Copernicus** is the European Union's Earth observation programme, looking at our planet and its environment to benefit all European citizens. It offers information services that draw from **satellite Earth Observation and in-situ (non-space) data**.
- The European Commission manages the Programme. It is implemented in partnership with the **Member States**, the **European Space Agency (ESA)**, the European Organisation for the Exploitation of Meteorological Satellites (**EUMETSAT**), the European Centre for Medium-Range Weather Forecasts (**ECMWF**), EU Agencies (European Environment Agency (**EEA**), Joint Research Centre (**JRC**), European Border and Coast Guard Agency (**FRONTEX**), European Maritime Safety Agency (**EMSA**), European Union Satellite Centre (**EUSC**) and **Mercator Océan**.
- Since 1998

Organigram of the programme

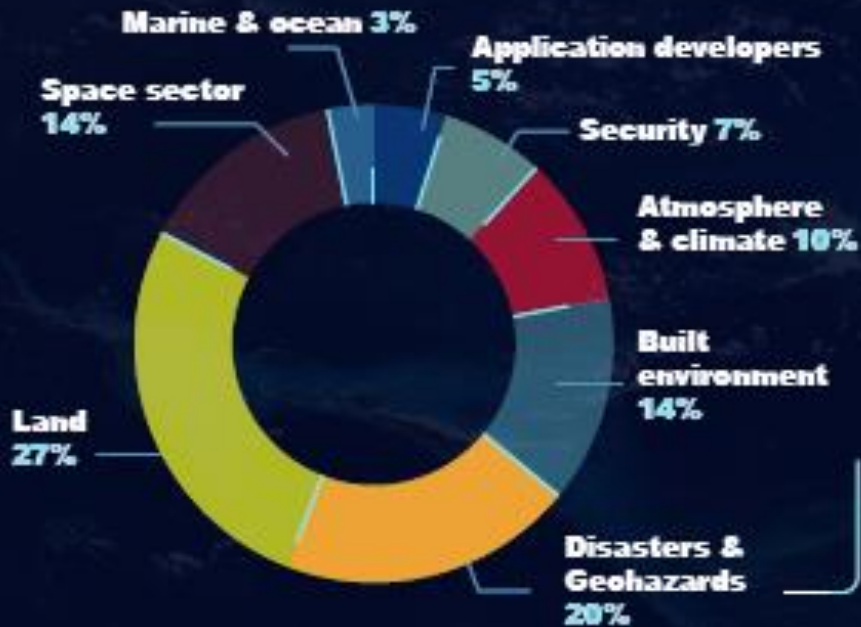


The Copernicus services

- [Copernicus Programme Services.pdf](#)
- Partner organisations implementing the Copernicus Programme:
 - Land Global, Emergency : EU **Joint Research Centre** (JRC, Europe), European Protection and Humanitarian Aid Operations (**ECHO**)
 - Atmosphere, Climate Change: European Centre for Medium-Range Weather Forecasts (**ECMWF**, Reading, UK)
 - Marine: **Mercator Ocean**, Toulouse, France
 - Security: **Frontex**, Warsaw, Poland, European Maritime Safety Agency (**EMSA**), Lissabon, SatCen, Spain



Benefits for the European society and economy



Copernicus helps us address key societal challenges of our times, such as climate change, natural disasters or border control. It also creates endless business opportunities.

Past studies have estimated that, between 2017 and 2035, Copernicus would generate between **€67** and **€131 billion** in benefits for the European society and economy. This is ten to twenty times the cost of the Copernicus component of the EU Space Programme. Interestingly, **more than 80%** of the benefits are expected to be generated outside of the space sector, through the use of Copernicus data in other parts of the economy (agriculture, fisheries, insurance, air quality etc.). As demonstrated by the EUSPA EO and GNSS Market Report for 2022, the Earth Observation market is growing at a steady pace and Copernicus open data is a key driver of growth in this area.

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

Video



[Copernicus Programme: Galápagos Islands](#)
Sentinel-2 images, 2021

Services with products that have global coverage

- Copernicus [Global Land Service](#) (CGLS), by EU JRC and VITO, Belgium
- Copernicus Marine Environment Monitoring Service (CMEMS) by **Mercator-Océan**: <https://marine.copernicus.eu/>
- Copernicus Atmosphere Monitoring Service (CAMS) by European Centre for Medium-Range Weather Forecasts (**ECMWF**, Reading, UK): <https://atmosphere.copernicus.eu/>
- Copernicus Climate Change Service (C3S), also by **ECMWF**, <https://climate.copernicus.eu/>
- Copernicus Emergency Management Service (CEMS): <https://emergency.copernicus.eu/>, by EU **JRC**

Tree Copernicus relays: open for application!

- A network of Copernicus **ambassadors**, since 2017, local champions, coordinating and promoting activities around the Copernicus Programme, its benefits, and opportunities for local residents and businesses
- the Pacific GIS & Remote Sensing Council [PGRSC](#) (Fiji), at the University of South Pacific (USP)



- and the two private sector companies [BlueCham](#) and [INSIGHT](#) (Nouméa, New Caledonia)



Copernicus Support Office

- Operates a helpdesk which is open to anyone interested in obtaining information about the programme. Questions are answered by a team of Copernicus experts or referred to the Copernicus Entrusted Entities.
- EU and non-EU citizens, businesses and entrepreneurs, as well as academics and researchers from all over the world can contact the Support Office through the helpdesk and a hotline. The service is provided in several EU working languages (EN, SP, IT, DE, FR, NL), between 09:30 and 18:00 (Central European Time Zone) on weekdays, with the exception of official Belgian holidays.
- support@copernicus.eu

Reach in 30 countries for the price of a local call

- <https://www.copernicus.eu/en/copernicus-support-office>
- Based in Brussels and Munich

Copernicus Academy: open call!



- Connects universities, research institutions, business schools, both private and non-profit organisations, in the Copernicus Participating Countries (EU27 + Norway & Iceland) and beyond.
- Over 210 members, Visit the [Copernicus Academy Address Book](#) and [Member List](#).
- [Copernicus Skills Programme](#)
- Copernicus Massive Open Online Course ([MOOC](#)) with 12 modules

Module 2: How to work with Copernicus?

Quiz time!

Questions & Answers

- Ask your questions
- Remarks
- Suggestions on Module 2

End of Module 2