

CopHub.AC

Copernicus Academy Hub for Knowledge,
Innovation and Outreach

Copernicus Academy Telcon

19 September 2019

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UNIVERSITY
of SALZBURG

ZGIS



evenflow



Climate-KIC

EARSC

European Association
of Remote Sensing
Scientists



spatial services

WHERE GEOINFORMATION MEETS TECHNOLOGY

KU LEUVEN



UNIVERSIDAD
DE MÁLAGA

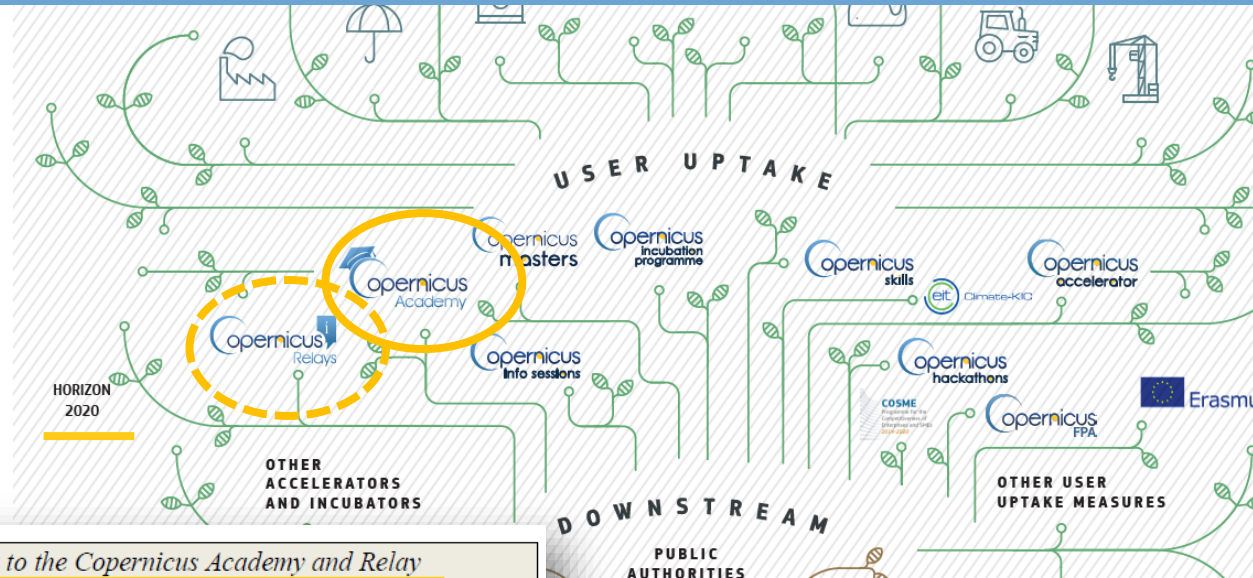
rasdaman
faster data manager

Cyprus
University of
Technology

KLAIPEDA
UNIVERSITY

Copernicus Ecosystem

- H2020 Call DT-SPACE-07-BIZ-2018
“Space hubs for Copernicus”



... the Commission wishes to provide financial support to the Copernicus Academy and Relay Networks in order to strengthen their R&D dimension. These networks need to be better linked with research and innovation activities and with the ESA Space Solutions. Moreover, the expertise and tools developed by the Copernicus Relays and the Copernicus Academy need to be used also at the service of research and innovation with a view to boosting their innovation potential: and the uptake of space in general.



Copernicus Academy Hub
for Knowledge, Innovation and Outreach

Copernicus Relays
for Digitalisation Spanning a Network



Consortium



CopHub.AC

Copernicus Academy Hub for Knowledge, Innovation and Outreach



- create a knowledge and innovation hub with **state of the art methods**
- to focus and **strengthen R&D** activities especially in Copernicus-relevant academic fields
- to **sustain the innovation process** from academia to business
- **boost** in demand-driven **uptake** of space technology

CopHub.AC



CopHub.AC SECRETARIAT

ADVISORY BOARD

COPERNICUS ACADEMY

INNOVATE & SUSTAIN + CSO

- Monitor CopHub.AC Ecosystem
- CopHub.AC Innovation Monitor
- Copernicus Academy Roadmap
- Copernicus Academy Champion Award

OUTREACH

- CopHub.AC Citizen App
- Training Elements

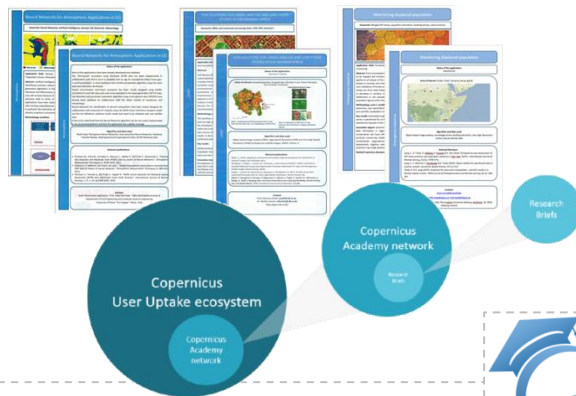
CONNECT + COPERNICUS RELAYS

- Joint-Events
- Success Stories
- Networks
- Skills Development / Education

✓ *dynamic visualisation of academy network*

✓ *dashboard of Copernicus stimulated innovations*

1 Invent ...

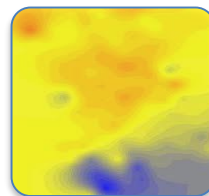


✓ *highlight of (individual and institutional) research development*

2 Interact ...



3 Innovate ...



Research Community

- Training
- Templated material
- Direct gateway to the "beneficiaries"
- Provide inputs and feedback
- Innovation, success stories & innovation components



CopHub.AC mechanism

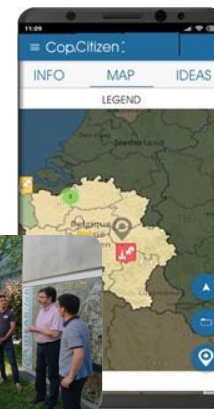
- Requirements elicitation

- Raise awareness on the CopHub.AC tools
- Disseminate outputs for various audiences

4 Impart ...



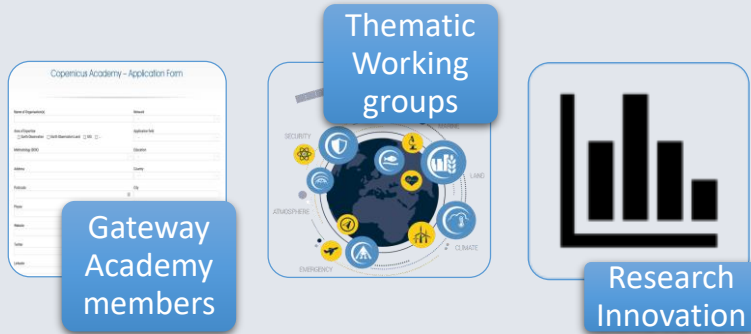
Beneficiaries
Industry
Academia



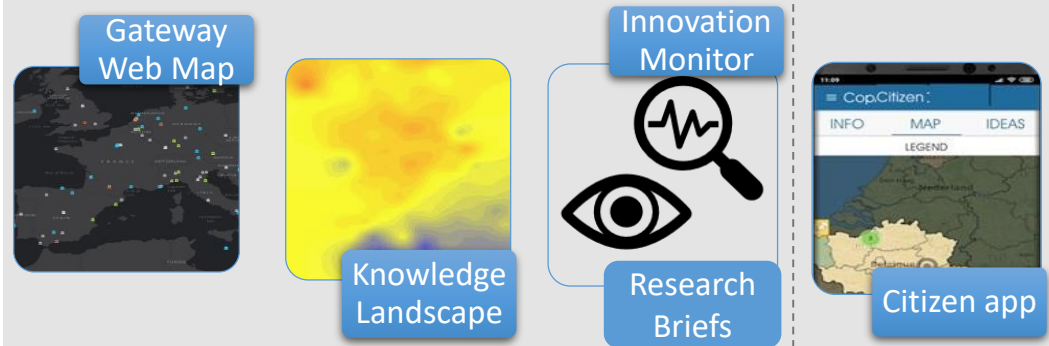
✓ *analytical tool to search for thematic competences & methodological expertise*

CopHub.AC technical innovations

Data collection network



Information visualization & harvesting



Data collection network



Including more information about

- ✓ methodological competences
- ✓ educational activities
- ✓ application fields

Core services & market taxonomy

- ✓ level of expertise
- ✓ existing partnerships

Suggestions for an extended application form

Information about your DEPARTMENT (institute, division ...)

Name of your department*

Number of staff at the department*

Website*

Address of your department*

Country*

Postcode*

City*

Methodological competence - knowledge areas of your department*

- | | | |
|---|--|--|
| <input type="checkbox"/> EO _ Physical principles | <input type="checkbox"/> EO _ Satellites, sensors and digital imagery | <input type="checkbox"/> EO _ Image processing and analysis |
| <input type="checkbox"/> EO _ Thematic and application domain | <input type="checkbox"/> EO _ Big Earth data | <input type="checkbox"/> GI _ Analytical Methods |
| <input type="checkbox"/> GI _ Conceptual Foundation | <input type="checkbox"/> GI _ Cartography and Visualization | <input type="checkbox"/> GI _ Design and Setup of GI Systems |
| <input type="checkbox"/> GI _ Data Modelling, Storage, and Exploitation | <input type="checkbox"/> GI _ Geo-computation | <input type="checkbox"/> GI _ Geospatial Data |
| <input type="checkbox"/> GI _ GI and Society | <input type="checkbox"/> GI _ Organizational and Institutional Aspects | <input type="checkbox"/> GI _ Geospatial Data |

Educational programmes of your department*

- | | |
|--|---------------------------------|
| <input type="checkbox"/> Bachelor | <input type="checkbox"/> Master |
| <input type="checkbox"/> Commercial course | |
| <input type="checkbox"/> Vocational and educational training | |

...in consultation with CSO and DG GROW!

Data collection network



- ✓ develop a working plan identifying priority themes for new research main target groups

Join the Copernicus Academy Working Groups

The Coordination & Support Action CopHub.AC strives to develop and recommend certain elements to support the effective operationalisation of the Academy. To act as the knowledge and innovation hub of the Copernicus Ecosystem, the collective expertise of its members is called for. Towards this objective, the establishment of thematic working groups is envisaged.



The Copernicus Core Services

Personal data

First name

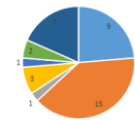
Surname

Email address

Get involved: <http://www.cophub-ac.eu/twg/>

☐ Land
☐ Emergency
☐ Security

Participating Experts



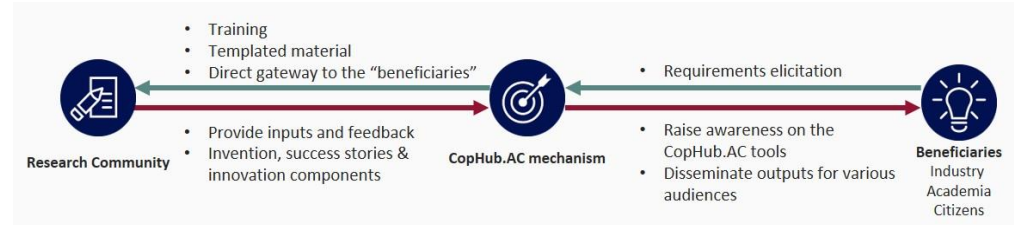
Climate Change • Land • Marine • Emergency • Atmosphere • Security • Others

39 experts from 21 Copernicus Academy members registered

Data collection network



under development.....



COLLECT INFORMATION ABOUT

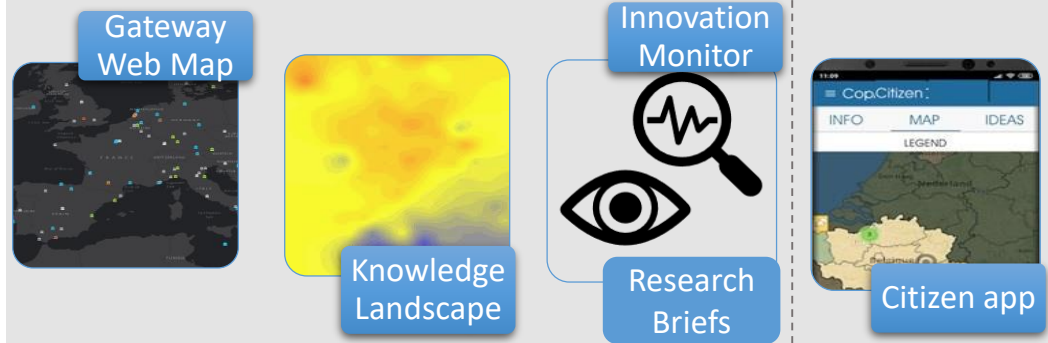
- ✓ individual and institutional research highlights
- ✓ innovation of services
- ✓ revise the concept of existing Research briefs
- ✓ how to make these information best available to industries and authorities

CopHub.AC technical innovations

ideas.....



Information visualization & harvesting



CopHub.AC technical innovations

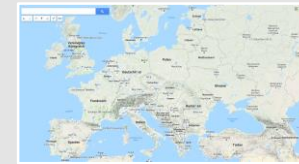
This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement No. 821952



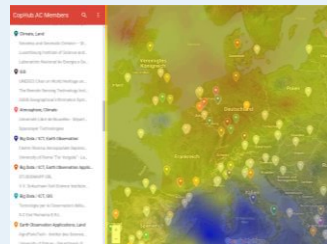
Copernicus
Europe's eyes on Earth



- ✓ core information about academy members



- ✓ illustration of the Academy network
- ✓ analytical tool to visualise and search for thematic competences in combination with methodological expertise



- ✓ dashboard of Copernicus stimulated innovations
- ✓ embedded in the Knowledge landscape



- ✓ access to Copernicus information layers
- ✓ interactive involvement of user



CopHub.AC networking & outreach

Academy & Citizen

- information events for citizens



- skills development & education



tight link to EO4GEO project

27 September in 300 locations



CopHub.AC networking & outreach

22 October in Bergen, Norway



Possibilities and challenges using Copernicus data and services in Norwegian marine industry, research, and management



2019 winner
Orbital EO Solutions,
SeaPulse, Valencia University
(IPL) & Go Hub
for a satellite-based
monitoring system
for oil spills & plastic pollution

Industry & Authorities

- connect with industry through joint workshops with Copernicus Relays, especially together with CoRdiNet
- yearly awards
Partnership award Academy-Industry
for outstanding collaboration of public-private (academy-company) sector for the Copernicus user-uptake



Horizon 2020
European Union funding
for Research & Innovation



THANK YOU!

www.cophub-ac.eu



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