



Friday 2nd July 2021
EO4GEO High level capacity building Workshop organized by
NEREUS and the University of The Azores (The Azores, PT)
in The Azores /Portugal:

EO4GEO- Skills development in Earth Observation and Copernicus User Uptake: the present and future of Coastal and Maritime sector *“The Azorean case”*

Agenda

11:00 (CEST)*	Welcome by the Rector of University of the Azores Prof. João Luís Gaspar and Prof. Gabriela Queiroz (Vice-Rector)
11:10	Short Introduction on the workshop’s objectives by Roya Ayazi, NEREUS Secretary General and Francisco Wallenstein, The Azores region (15 minutes)
11:25	The integration of EO4GEO tools in The Azorean maritime ecosystem: presentations and discussion by Margarita Chrysaki, NEREUS Communication/Project officer
11:30	Current and future EO/GI skills needed in the Azorean coastal and maritime sector (round table discussion) moderated by Margarita Chrysaki (NEREUS) & Artur Gil, (University of The Azores) : <ul style="list-style-type: none"> - Views by LRAs: <ul style="list-style-type: none"> a. “Current state of Marine Spatial Planning (MSP) activities in the Azores: identified needs of EO products, services and workforce” by Pedro das Neves, Regional Director of Sea Affairs; (10 minutes) b. Testimonies by Antoni Jez (Podkarpackie region, PL) and Adam Sieczka (Mazovia region, PL) (NEREUS regions) that will host the next EO4GEO workshops (10 min) - Views by the Academia: “Local and regional education: new developments on the training material based on needs of the future EO/GI workforce” Ana Martins, Professor at the Ocean and Fisheries Department / OKEANOS R&D group, (10 minutes) - Views by the private sector: “Fostering the Azorean business ecosystem: Employers’ challenges to find the right EO/GI profile in the coastal/maritime sector” by Pedro Freire da Silva, CTO of the EO Lab at Air Centre (10 minutes) - Case based scenarios: capacity building in using marine platforms until the final product by Marine EO specialist, Fábio Vieira, DRCT (10 min) Discussion (15 min).
12:35	Coffee break
12:50	EO4GEO Solutions: Presentation and discussion BoK tools and EO tools supporting Copernicus education and training (discussion and interaction with the audience):

	<ul style="list-style-type: none"> - Introduction by Margarita Chrysaki - BoK tools by Rob Lemmens (University of Twente), Aida Monfort Muriach (Universitat Jaume I), Florian Albrecht (University of Salzburg) <ul style="list-style-type: none"> o The EO4GEO Body of Knowledge and its content for Marine applications (Florian Albrecht) o Editing BoK concepts in the Living TextBook (Rob Lemmens) o Designing a Marine related course with Curriculum Design Tool (Aida Monfort Muriach) o Defining a job offer using Job Offer Tool (Aida Monfort Muriach) o Using BoK Matching Tool to find most suitable matches between job offers and curricula (Aida Monfort Muriach) - EO tools by VITO (interaction with sentinel data, tools) by Hande Erdem, Vito technologies <ul style="list-style-type: none"> o A visual introduction to the most relevant Copernicus datasets o Exploratory analysis toolset o Advanced use case demonstration
13:20	Discussion with participants and conclusion (to participate in the discussion and evaluate the tools for the needs of your organization, we strongly advise you to test them in prior as it is described in the last page of the document)
13:35	Hands-on session <ul style="list-style-type: none"> - BoK tools (Florian Albrecht) - EO tools (Advanced users: cases in Jupyter notebook) (Hande Erdem)
14:20	End of the workshop

Background

Objectives of the Workshop:

The workshop has the overall objective to promote the EO4GEO sector skills alliance towards the relevant Azorean community but also to get their views on the initiative. Thus it will introduce the participants to the EO4GEO sector skills alliance, present and debate the Sector Skills Strategy with particular focus on local and regional authorities and end users. In a nutshell:

- Raise awareness on the EO4GEO initiative to relevant stakeholder communities;
- Promotion of the EO4GEO tools to the Azorean audience;
- Identify current and future needs of EO products/services and human resources in ICZM (Integrated Coastal Zone Management), MSP (Marine Spatial Planning) and coastal/marine economic activities for the Azorean landscape;
- Local capacity building at regional and academic level;
- Feed-back from the Azorean EO-Marine community on the EO4GEO SSS.

Logistics

- Conference language: English
- Date: 2nd July 2021
- Format: Online Workshop
- Workshop style: Online



Workshop comprised of a) the presentation of the EO4GEO initiative and new developments; b) the Coastal/Marine Earth Observation's current status in the Azores at the decision-making support, scientific, educational, operational and business levels; and c) an open discussion between experts and audience to gather input on current and future needs in terms of EO and services that could be fostered, implemented and integrated into the regional strategies.

Target audience

- Representatives from private sector with technical expertise: inUAc (incubator of startup companies based at the University of the Azores), NONAGON (S. Miguel Island) and TERINOV (Terceira Island) Technological Parks managers; start-ups and companies (fisheries, aquaculture, maritime transports, offshore energy systems, coastal/nautical tourism, ICT)
- AIR CENTRE – EO Lab
- LRAs (Representatives of Azorean City Councils + Regional Directions of Sea Affairs, Fisheries, Science and Technology, Environment, Tourism, Civil Protection, Energy)
- Sectorial End-users (Representatives of fishermen associations, LRAs, coastal/nautical tourism associations, Environmental NGOs);
- Representatives of law enforcement corporations (Portuguese Navy, Maritime Police);
- Research Centres & Academia;
- Representatives from Copernicus-Academies and Copernicus-Relays.

The workshop is as an outreach activity embedded in the ERASMUS+-funded initiative **EO4GEO** (*Towards an innovative strategy for skills development and capacity building in the space geo-information sector supporting Copernicus user uptake*). As an Erasmus+ Sector Skills Alliance supported by EACEA (The EU Education, Audio-visual and Culture Executive Agency) under the Blueprint for Sectoral Cooperation on Skills schema, **EO4GEO** gathers 26 partners from 13 EU countries, most of which are part of the Copernicus Academy Network. Be they from academia, public or private sector, they are all active in the **education and training fields of the space / geospatial sectors**. The project involves also a strong group of **Associated Partners** mostly consisting of associations or networks active in space/geospatial ecosystem. The project started on January 1st, 2018 with a project duration of 4 years.

EO4GEO aims to help bridging the skills gap in the space/geospatial sector by creating a strong alliance of players from the sector/community reinforcing the existing ecosystem and fostering the uptake and integration of space/geospatial data and services. EO4GEO works in a multi- and interdisciplinary way and will apply innovative solutions for its education and training actions including: case based and collaborative learning scenarios; learning-while-doing in a living lab environment; on-the-job training; the co-creation of knowledge, skills and competencies; etc.

NEREUS is a European network of regions, currently comprised of 23 Member regions and 35 Associate members. The mission of the network is to spread the use and understanding of space technologies, in particular space based information. NEREUS offers its members a platform for networking and sharing information and knowledge but also to mobilize model projects and learn more about the potentials of space.

The University of the Azores is a Portuguese university created in 1976 and located in the Archipelago of the Azores, a Portuguese archipelago and European Outermost Region located in the Atlantic North, between Europe and America. It is organized in three campi located in different islands (Ponta Delgada campus is in S. Miguel Island; Angra do Heroísmo campus is in Terceira and Horta campus is in Faial). Inspired in the natural biodiversity and beauty of the islands, in their geographic location and geological features, the University of the Azores is committed to creating and promoting knowledge and technology on biodiversity, volcanology, tourism, marine and transnational issues, history and cultural features of the islands. Its



universal values and long history of emigration favor partnerships with more than 500 universities and research centers all over the world. The University of the Azores offers a significant number of license programs, masters, and doctorates, as well as different mobility opportunities, summer courses and internships.

- a) **Testing the tools.** Below you will find the list of the EO4GEO tools and training materials with their links. We kindly invite you and your organisation to test them and explore to what extent these outcomes can help you optimise some of your internal processes. After you test the tools, we kindly ask you to complete the template ([link](#)).

Tools	Audience	Link to evaluate
The Occupational Profile Tool (OPT) allows users to browse, create, edit, and share occupational profiles in the field of Earth Observation and Geographic Information.	Companies and public institutions	http://www.eo4geo.eu/tools/occupational-profile-tool/
The Job Offer Tool (JOT) allows users to create job and training offers in the field of Earth Observation and Geographic Information	Human Resources departments from private companies, public institutions, or academia	http://www.eo4geo.eu/tools/job-offer-tool/
The BoK Annotation Tool (BAT) allows to annotate documents such as CVs, cover letters with the skills they hold and later perform a match with the job offer thanks to the BoK Matching tool.	Human Resources departments from private companies, public institutions, or academia	http://www.eo4geo.eu/tools/bok-annotation-tool/
The BoK Matching Tool (BMT) allows to compare EO4GEO BoK-annotated resources with respect to knowledge and skills and visually discover (dis)similarities	All types of audiences	http://www.eo4geo.eu/tools/bok-matching-tool/
The Curriculum Design Tool (CDT) allows users to create, edit and find educational offers	Academia, training providers	http://www.eo4geo.eu/tools/curriculum-design-tool/



in the field of Earth Observation and Geographic Information		
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- b) **Online survey.** This survey is conducted among national and regional authorities and bodies across Europe to evaluate their interests in the uptake of EO4GEO project's outcomes and help us to develop tailored courses and online training materials based on your specific needs. Please find the survey here ([link](#)).