

21<sup>st</sup> -22<sup>nd</sup> October 2021

EO4GEO High level capacity building Workshop organized by  
NEREUS and Podkarpackie/Mazovia regions:

## Shaping the future workforce of the space / geospatial sector in Poland: EO/GI Skills needed & EO4GEO solutions

### Agenda

Part 1: Tackling the needs of the Polish business community: an overview of EO4GEO tools (21 <sup>st</sup> October, Podkarpackie)	
09.15	Opening of the meeting
<b>09.30</b>	<b>Opening Session</b>
09:30	Welcome by Podkarpackie region by , <b>Anna Huk – Member of the Board of the Podkarpackie Region</b> (10 min) Short Introduction on the workshop’s objectives by <b>Roya Ayazi, NEREUS Secretary General</b> (5 min) Short Introduction on the EO4GEO project & tools by <b>Margarita Chrysaki, Comm/Project officer (NEREUS)</b> (5-7 min)
<b>09:50</b>	<b>Current status of EO/GI sector in the business community: new developments, challenges and solutions</b>
	- Testimony by The Azores region that hosted an EO4GEO workshop in 2021(10 min) by <b>Professor Ana Martins, The University of The Azores</b> - A presentation of the space/geospatial business activities in region: new trends and technological developments by Podkarpackie regional representatives (10 min) by <b>Mr. Jacek Kubrak – CEO of the Podkarpackie Innovation Centre</b>
<b>10:10</b>	<b>Meeting the needs of the public and private sector: exploring the know-how of EO*GI data in Poland:</b>
	- Current and future skills needed for a business to remain competitive in the changing market/economy <b>views by the private sector, the regional authorities and the academia;</b> <ul style="list-style-type: none"> <li>• <b>Mr Jakub Dzik – Vice-Director of Security and Crisis Management Department of Podkarpackie Voivodship Office (10 min)</b></li> <li>• <b>Mr Jakub Ryzenko - Head of Crisis Information Centre, SRC PAS (10 min)</b></li> <li>• <b>Michał Pilecki- Polish Space Agency (10 min)</b></li> <li>• <b>Mr Kamil Obłodecki - Exatel (communication technologies) (10 min)</b></li> <li>• <b>Mateusz Maślanka - Business Development Lead in Poland, Satim company (10 min)</b></li> <li>• <b>Prof. Andrzej Majka, Head of the Department of Aerospace Engineering, Rzeszów University of Technology (10 min)</b></li> </ul> <p>Discussion (10 minutes)</p>

11:20	Coffee break
11:25	<b>EO4GEO Solutions: Presentation (discussion and interaction with the audience)</b>
11:25	<ul style="list-style-type: none"> <li>- Introduction;</li> <li>- 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"> <li>o The EO4GEO Body of Knowledge and its content for applications in agriculture, forestry and regional planning</li> <li>o Editing BoK concepts in the Living TextBook</li> <li>o Defining a job offer using Job Offer Tool</li> <li>o Using BoK Matching Tool to find most suitable matches between job offers and curricula</li> </ul> </li> <li>- EO tools by VITO (interaction with sentinel data, tools) by Hande Erdem (VITO) <ul style="list-style-type: none"> <li>o A visual introduction to the most relevant Copernicus datasets and derived products</li> <li>o Exploratory analysis toolset</li> <li>o Data processing tools</li> </ul> </li> </ul>
12:10	Discussion with participants and conclusion <b>(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)</b>
12:30	End of the workshop

**Part 2: EO/GI skills development and capacity building in the Polish education (22<sup>nd</sup> October, Mazovia)**

09.15	Opening of the meeting
09.30	<b>Opening Session</b>
09:30	<p>Welcome by Mazovia region by Adam Struzik, Marshal of the Mazowieckie Voivodeship (10 min);</p> <p>Short Introduction on the workshop's objectives by Roya Ayazi, NEREUS Secretary General (5 min)</p> <p>Short Introduction on the EO4GEO project &amp; tools by Margarita Chryski, Comm/Project officer (NEREUS) (5-7 min)</p>
09.50	<b>Current status of EO/GI field in Academia: Science, Education and Training: Can the current education meet the new trends in EO/GI job market?</b>
	<ul style="list-style-type: none"> <li>- A presentation of the Earth Observation/Geoinformation training programmes/activities in Poland;</li> <li>• Sc.D., Ph.D. Eng. Piotr Wężyk associate professor of University of Agriculture in Krakow (10 min)</li> <li>• Sc.D., Ph.D. Eng. Przemysław Kupidura, associate professor of Warsaw University of Technology (10 min)</li> <li>• Kinga Gruszecka , Polish Space Agency (10 min)</li> </ul>
10:20	- Round table discussion with Academia and students on the skills gap between supply and demand of education and training in the EO/GI sector (30 min)

	<p>- EO4GEO training offers</p> <p>By Eva-Maria Missoni-Steinbacher (University of Salzburg) and Markus Kerschbaumer (Spatial Services) (15 min)</p>
11:05	Coffee break
11:20	EO4GEO Solutions: How students and professors can use the EO4GEO tools for their benefit (discussion and interaction with the audience)
11:20	<p>Hands-on session</p> <ul style="list-style-type: none"> <li>- EO4GEO Body of Knowledge tools by Rob Lemmens (University of Twente), Aida Monfort Muriach (Universitat Jaume I), Florian Albrecht (University of Salzburg)</li> <li>- EO tools <ul style="list-style-type: none"> <li>• EO data processing using Jupyter Notebook and OpenEO Datacubes by Hande Erdem (VITO)</li> </ul> </li> </ul>
12:10	Discussion with participants and conclusion <b>(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)</b>
12:30	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 Polish business and academic 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:

- Identify the right EO/GI occupational profile for the Polish business community;
- Current and future needs in EO/GI educational training for business activities/ administrations;
- Raise awareness on the EO4GEO initiative to relevant stakeholder communities;
- Promotion of the EO4GEO tools to the Polish audience;
- Feed-back from the Polish community on the EO4GEO SSS.

### Logistics

- Conference language: English (with Polish translation)
- Date: 21&22 October 2021
- Format: 2 days online Workshop
- Venue: Online
- Workshop style: live

Workshop comprised of a) the presentation of the EO4GEO initiative and new developments; b) EO/GI current status in Poland 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: start-ups and companies;
- LRAs;
- ESA BIC;
- Representatives of business associations;
- Research Centres & Academia;
- National space experts;
- 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.

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](#)).

<b>Tools</b>	<b>Audience</b>	<b>Link to evaluate</b>
<b>The Occupational Profile Tool (OPT)</b> allows users to browse, create, edit, and share occupational profiles in the field of Earth Observation and Geographic Information.	Companies and public institutions	<a href="http://www.eo4geo.eu/tools/occupational-profile-tool/">http://www.eo4geo.eu/tools/occupational-profile-tool/</a>
<b>The Job Offer Tool (JOT)</b> 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	<a href="http://www.eo4geo.eu/tools/job-offer-tool/">http://www.eo4geo.eu/tools/job-offer-tool/</a>
<b>The BoK Annotation Tool (BAT)</b> allows to annotate documents such as CVs, cover	Human Resources departments from private companies, public	<a href="http://www.eo4geo.eu/tools/bok-annotation-tool/">http://www.eo4geo.eu/tools/bok-annotation-tool/</a>

<i>letters with the skills they hold and later perform a match with the job offer thanks to the BoK Matching tool.</i>	<i>institutions, or academia</i>	
<b>The BoK Matching Tool (BMT)</b> allows to compare EO4GEO BoK-annotated resources with respect to knowledge and skills and visually discover (dis)similarities	All types of audiences	<a href="http://www.eo4geo.eu/tools/bok-matching-tool/">http://www.eo4geo.eu/tools/bok-matching-tool/</a>
<b>The Curriculum Design Tool (CDT)</b> allows users to create, edit and find educational offers in the field of Earth Observation and Geographic Information	Academia, training providers	<a href="http://www.eo4geo.eu/tools/curriculum-design-tool/">http://www.eo4geo.eu/tools/curriculum-design-tool/</a>

- 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](#)).