

# ONLINE COPERNICUS 'EYES ON EARTH' ROADSHOW & 2ND EARTH OBSERVATION SUMMIT

2-3 JUNE 2020

Tuesday 2<sup>nd</sup> June 2020

10:00 - 11:00	Introduction and welcome to the Copernicus 'Eyes on Earth' Roadshow and Earth Observation Summit online event	
	<p>Welcome address</p> <ul style="list-style-type: none"> <li>Miss Blaženka Divjak, Minister, Ministry of Science and Education, Croatia</li> <li>Mr Timo Pesonen, Director-General, DG Defence Industry and Space (DEFIS)</li> </ul> <p>Introduction to the Copernicus 'Eyes on Earth' Roadshow and Earth Observation Summit</p> <ul style="list-style-type: none"> <li>Mr Pascal Claudel, acting GSA Executive Director</li> <li>Mr Martijn Seijger, dotSPACE foundation, Eyes on Earth Consortium lead</li> <li>Mrs Milva Carbonaro, GISIG, EO4GEO Project Coordinator</li> </ul>	
	<b>The Copernicus 'Eyes on Earth' Roadshow</b>	<b>The 2<sup>nd</sup> Earth Observation Summit</b>
11:30 - 12:30	<b>SESSION I - Introduction to the Copernicus Programme [basic knowledge]</b>	<b>11:30 - 13:00</b>
	<p>If you are interested in satellites and space, but not sure how or where to start, join this session. Stijn Vermoote of the European Centre for Medium-Range Weather Forecasts (ECMWF) introduces Copernicus, the European Union's programme for Earth observation. Through the Copernicus products and services, vast amounts of data are turned into information that help us understand our planet. Federico Fierli of the European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT) shows how satellites work and what we can (and cannot) expect from these "Eyes on Earth". You will be able to ask questions to Stijn and Federico.</p> <p>Introduction to Copernicus and Services [illustrated by COVID19 examples]</p> <ul style="list-style-type: none"> <li>Mr Stijn Vermoote, User Engagement Manager Copernicus Services, ECMWF</li> </ul> <p>Satellite Do's and Don'ts [illustrated by COVID19 examples]</p> <ul style="list-style-type: none"> <li>Mr Federico Fierli, User Support and Climate Service Division, EUMETSAT</li> </ul>	<p><b>Round Table "Earth Observation Sector Education and Application for Future Jobs and Prospering Business"</b></p> <p>Panellists:</p> <ul style="list-style-type: none"> <li>Mr Tome Antičić, State Secretary, Ministry of Science and Education, Croatia</li> <li>Mrs Maria Vittoria D'Inzeo, Policy officer, DG for Defence Industry and Space (DEFIS)</li> <li>Mr Boris Drilo, President, Croatian Association of Employers - ICT Sectoral Association</li> <li>Mr Geof Sawyer, Secretary General, European Association of Remote Sensing Companies - EARSC</li> <li>Mr Danny Vandembroucke, Catholic University of Leuven SADL, EO4GEO Project</li> </ul>
12:30 - 13:30	Break	
13:30 - 15:30	<b>SESSION II - Maritime Spatial Planning (MSP) [basic knowledge]</b>	<b>13:00 - 13:30</b>
	<p>The maritime space is under increasing demand for different purposes such as shipping, fishing, energy production (from oil and gas to offshore wind and tidal), aquaculture, tourism and raw material extraction. The European countries have agreed to implement maritime spatial planning to organize these - often competing - claims. Breda University of Applied Science demonstrate their serious game in support of the planning process, while Mercator Ocean presents the marine data products available for integration into such platforms as well as the Data and Information Access Service (DIAS) WEKEO. The experts will be on hand to answer your questions.</p> <p>Introduction to MSP</p> <ul style="list-style-type: none"> <li>Professor Igor Mayer, Lecturer of Applied Games, Innovation and Society at NHTV Breda University of Applied Sciences</li> </ul> <p>Simulation game MSP</p> <ul style="list-style-type: none"> <li>Doctor Harald Warmelink, Senior Research Project Leader at NHTV Breda University of Applied Sciences</li> </ul> <p>Copernicus Marine data for Maritime Spatial Planning</p> <ul style="list-style-type: none"> <li>Mrs Marta Bertran, Mercator Ocean</li> </ul>	<p><b>13:30 - 15:00</b></p> <p><b>14:00 - 15:30</b></p> <p><b>Real-world problems and work processes as starting point for case-based learning scenarios</b></p> <p>Designing GI and EO curricula in support of Copernicus - introduction and methodology</p> <ul style="list-style-type: none"> <li>Prof. Barbara Hofer, University of Salzburg, Department of Geoinformatics Z_GIS</li> </ul> <p>Rapporteur:</p> <ul style="list-style-type: none"> <li>Mrs Eva Missoni-Steinbacher, University of Salzburg</li> </ul> <p>Business processes and occupational profiles</p> <ul style="list-style-type: none"> <li>Mrs Maria Iona Vlad Sandru, Romanian Space Agency</li> </ul> <p>The sequence of business process analysis, curriculum design and training material development</p> <ul style="list-style-type: none"> <li>Mrs Eva Missoni-Steinbacher, University of Salzburg</li> </ul> <p>How to get from BPMN to occupational profiles and skills - the landslide documentation example</p> <ul style="list-style-type: none"> <li>Mr Florian Albrecht, University of Salzburg</li> </ul> <p>Discussion</p>
		<b>Agency Workshop Session</b>
		<p>Introduction to the GSA mission and services</p> <p>Synergies between Galileo and Copernicus</p> <p>Funding Opportunities (H2020, FE, Prizes)</p> <p>Future Perspectives - New EU Space Programme</p>
15:30 - 16:30	<b>SESSION III-A - Copernicus Services in depth CEMS [basic knowledge] The role of Earth observation in emergency situations</b>	<b>15:30 - 17:00</b>
	<p>During the COVID-19 pandemic, on 22 March 2020 Croatia was hit by an earthquake with a magnitude of 5.3 followed by a series of aftershocks. The epicentre was 7 kilometres from Zagreb city centre, and this was the strongest earthquake in Zagreb since 1880. Igor Magdalenic of the Croatian Crisis Management Association shares his experiences of the last three months and presents the role of the Copernicus Emergency Management Service (CEMS) in supporting emergency response.</p> <ul style="list-style-type: none"> <li>Mr Igor Magdalenic, founder and president of the Croatian Crisis Management Association, Copernicus Academy member - Emergency Management and Copernicus Expert in charge of EMS Satellite Imagery Products Development for 3D EMS.</li> </ul>	<p><b>SESSION III-B - Round table Discussion, Skills and strategy for space sector entrepreneurs</b></p> <p>Looking through a magnifying glass at entrepreneurship with an expert panel. Have you got what it takes to be an entrepreneur or running a space start-up? What kind of skills set, and strategy do you need to convert ideas to products and services? Are you ready to commit to a start-up as a stakeholder or investor? Join our Round Table discussion.</p> <ul style="list-style-type: none"> <li>Mrs Marleen Bax, Erasmus Centre for Entrepreneurship</li> <li>Mr Andrei Bocin-Dumitriu, BrainMill</li> <li>Mr Joris Jeelof - Chief Commercial Officer at RoadEO</li> <li>Mr Kartik Kumar - Co-founder at satsearch.co</li> <li>Mr Maneesh Kumar Verma - Team Leader at Lunar Zebro, Lead Robotics at Stellar Space Industries, Regional Manager at Hyperion Technologies B.V.</li> </ul>
		<b>How to design curricula based on the work processes modelled. Curriculum Development in different steps for academic and vocational training</b>
		<p>Design of EO and related curricula</p> <ul style="list-style-type: none"> <li>Prof. Željko Bačić, University of Zagreb, Faculty of Geodesy</li> </ul> <p>Curriculum design - academic curriculum example</p> <ul style="list-style-type: none"> <li>Ass. Prof. Andrija Krtalić, University of Zagreb, Faculty of Geodesy</li> </ul> <p>Curriculum design - VET educational offer</p> <ul style="list-style-type: none"> <li>Mrs Marijan Grgić, PhD, University of Zagreb, Faculty of Geodesy</li> </ul> <p>Courses and modules as modular building bricks for curriculum design</p> <ul style="list-style-type: none"> <li>Mrs Ana Kuveždić Divjak, PhD, University of Zagreb, Faculty of Geodesy</li> </ul> <p>Discussion</p>

**The Copernicus ‘Eyes on Earth’ Roadshow**

**The 2<sup>nd</sup> Earth Observation Summit**

10:00 - 11:00

**SESSION IV-A - Planet - providing insights at the speed of change**

**SESSION IV-B - Heat islands and Air Quality**

10:00 - 11:30

**The Body of Knowledge as the basis for curriculum design and other activities. What will you find in the BoK for GI\*EO (examples and demonstration with real cases)**

Get inspired by industry! Founded in 2010 by three NASA scientists, the company Planet designs, builds, and operates over 150 satellites. The data their satellites generate, coupled with online software and tools, provides businesses and government with insight in the speed and magnitude of change on which to base their decision-making. With these insights, organisations can develop new technologies, drive revenue, power research, and solve our world’s toughest challenges.

- Mr Luis Peraza
- Doctor Rene Griesbach

Urban heat islands happen when surfaces of roofs, pavement, building facades and roads in densely built urban areas absorb and hold heat. This raises the local air temperature significantly compared to rural areas, and - while invisible to the eye - causes health problems and air pollution. In this session, you will learn how satellite images can “see” these heat islands and the quality of the air, allowing mitigation measures to be put in place.

- Doctor Alexander Los, Institute for Housing and Urban Development Studies
- Stijn Vermoote, User Engagement Manager, Copernicus Services, ECMWF

EO\*GI BoK, its concept and role in curriculum design

- Mr Danny Vandenbroucke, Catholic University of Leuven, Spatial Applications Division Leuven

EO\*GI BoK content, where does it lead us

- Mr Marc Olijslagers, Research Associate, GI and ICT expert at the Spatial Applications Division of KU Leuven (SADL)

Zoom in on cases -demonstration

- Prof. Rob Lemmens, University of Twente, Faculty of Geo-Information Science and Earth Observation (ITC)

Discussion

11:00 - 12:30

**SESSION V - NO2 Air Pollution Monitoring**

11:30 - 13:00

**REA - Space Research Unit**

**How could companies make use of BoK and tools: Occupational**

During this session you will be introduced to Sentinel-5p data addition, you will learn how to generate Level-3 products using HARP for a multi-temporal evaluation of NO2 over a study area. We will show you how to access the RUS Service and how to download, process, analyse and visualize the free data acquired by the Copernicus satellites. This session is suitable for participants with advanced knowledge of remote sensing and programming languages.

- Mr Miguel Castro Gómez, Remote Sensing Specialist, Copernicus Research and User Support for Sentinel core products

Experiences with the Implementation of the Space programme in Horizon 2020 and lessons for the future applicants in Horizon Europe

- Mr. Marko Curavić, Research Executive Agency, Head of Unit Space Research

Moderator & Rapporteur

- Mss Vesna Poslončec-Petrić
- Mss Ana Kuveždić Divjak

Seeking for new skills and knowledge in EO\*GI business sector

- Mrs Monica Miguel-Lago, Executive Secretary, EARSC

Use of EO\*GI BoK and tools for companies and public sector

- Prof. Sven Casteleyn, University Jaume I Castello, GEOTEC Department

Demonstration of a real case

- Mr Giacomo Martirano, Epsilon-Italia srl.

Discussion

12:30 - 13:10

Break

13:00 - 14:00

Break

13:10 - 13:30

**Assistant Minister in the Ministry of Environmental Protection and Energy, Mr. Aljoša Duplić.**

13:30 - 14:30

**SESSION VI - Copernicus Services in depth [basic knowledge] OIKON Ltd. case studies**

14:00 - 15:00

**Scenarios for learning actions: what is planned**

The Croatian environmental consultancy and research institute OIKON Ltd. presents three case studies where they demonstrate how satellite data, often combined with other data, is of value for agriculture, nature conservation and monitoring of forests for detection of fire and diseases. The OIKON Ltd. experts will be available to answer your questions about the applications and about their own background, skills, and career choice.

PLUS contributions to the session:  
The CopHub.AC innovation pipeline and the GEOBIA virtual summer school

- Mr Stefan Lang, University of Salzburg

Objectives and design of the GEOBIA summer school

- Mss Barbara Riedler, University of Salzburg

SpaSe contributions to the session:  
Designing learning scenarios and planning related training actions

- Mr Peter Zeil, Veronika Krieger, Spatial Services Ltd

Discussion

14:30 - 14:40

Break

14:40 - 15:45 [session VIIA]

**SESSION VII-A - Support Session for getting EO knowledge and Business support [basic knowledge]**

**SESSION VII-B - Information on Other support programmes [basic knowledge]**

15:00 - 16:00

**Conclusions and next steps; how can you get involved?**

13 more incubation vouchers worth 50.000 EUR are still available as support from the Copernicus Incubation Programme. We will provide insights on the start-ups that have gone through the programme and achieved growth and commercial success. Also, new tools that can be used to help you to design your business proposition with Copernicus data will be presented (Copernicus brainstorming kit and Copernicus business design book)

ESA has several programmes supporting businesses from all sectors to foster innovation and competitiveness of European industry. Join the session to find the best support and funding opportunities for your business in ESA.

One of these opportunities is business incubation, to help turn your idea into a start-up. ESA Business Incubation Centre Austria explains the application process and support mechanisms, including the Copernicus Masters competition, where Austria offers a regional prize.

EO4GEO Next steps

- Mr Danny Vandenbroucke, Catholic University of Leuven, Spatial Applications Division Leuven

How can you get involved?

- Mrs Milva Carbonaro, GISIG, EO4GEO Project Coordinator

Closing

- Prof. Željko Bačić, University of Zagreb, Faculty of Geodesy

Presentation and Q&As

- Mr Nicolas Helssen, Verhaert

Contributors:  
ESA space solutions

- Ms Joana Kamenova, Outreach and Business Analyst at the Innovation and Ventures Office at European Space Agency’s Space Solutions programme

ESA BIC and Copernicus Masters

- Mr Jeremiah Hranjec, Project Manager and Innovation Consultant at the European Space Agency Business Incubation Centre for Austria

Regional Copernicus Winner

- Mr Armin Schöpf, Co-Founder and CEO of the startup Audili