



PROGRAMME OF THE  
EUROPEAN UNION



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# Sentinel Benefits Study Workshop

June 2024

A transversal view on the benefits derived from the use of Copernicus Sentinel data for roads infrastructure management, forests management and lake water quality monitoring

## WHO SHOULD ATTEND

Anyone with an interest in the use of EO services and how they may deliver benefits for public bodies, with particular regards to:

- Public bodies with responsibilities in any of the 3 thematic topics.
- EO value-adding companies supplying products or services addressing any of the three focus topics.
- Practitioners / economists interested in value assessment.
- Agencies and public bodies with an interest in the EO sector.

By registration only as part of ExpandEO



JUNE 2024





# Sentinel Benefits Study Workshop

**PRELIMINARY PROGRAMME**

**JUNE 2024**

**SESSION 1** The European users' perspective | (virtual, 6 June | AM)

09:30	<b>Welcome</b>	Tobias Biermann (European Commission)
09:35	Introduction to the event and to the meeting objectives	Alessandra Tassa (ESA)
09:40	SeBS introduction and highlights	Geoff Sawyer (EARSC)
<b>10:00</b>	<b>ROADS INFRASTRUCTURE MANAGEMENT</b>	
	Introduction to the session (session rapporteur)	Joanna Balasis-Levinsen (EEA)
	An experience from Norway (SeBS benchmark case)	Dag Anders Moldestad (Norwegian Space Agency)
	An experience from Italy (SeBS benchmark case)	Flavio Capozucca (ANAS)
	An experience from Portugal (SeBS benchmark case)	Paulo Barreto (EGIS)
	Findings from the SeBS transversal analyses	Geoff Sawyer (EARSC)
	EO usage experiences from other agencies	Agencies are invited to present their relevant experience
	Moderated discussion	
<b>10:40</b>	<b>FORESTS MANAGEMENT</b>	
	Introduction and perspective of an international forest certification agency (session rapporteur)	Rob Shaw (Programme for the Endorsement of Forest Certification - PEFC)
	Policy perspective on forests monitoring in Europe	Annemarie Bastrup-Birk (EEA)
	An experience from Sweden (SeBS benchmark case)	Anders Persson (Swedish Forest Agency)
	Findings from the SeBS transversal analyses	Geoff Sawyer (EARSC)
	EO usage / experience from other agencies	Agencies are invited to present their relevant experience
	Moderated Discussion	
<b>11:20</b>	<b>LAKE WATER QUALITY MONITORING</b>	
	Introduction and perspective of international water association agency (session rapporteur)	Erin Jordan (International Water Association- IWA)
	Policy perspective on lake water quality monitoring in Europe	Jenni Attila (ETC on Biodiversity and Ecosystems)
	An experience from Finland (SeBS benchmark case)	Jenni Attila (SYKE)
	An experience from Germany (SeBS benchmark case)	Thomas Wolf (LUBW)
	An experience from The Netherlands (SeBS benchmark case)	Jannes Schenkel (Noorderzijlvest Water Board)
	Findings from the SeBS transversal analyses	Geoff Sawyer (EARSC)
	EO usage / experience from other agencies	Agencies are invited to present their relevant experience
	Moderated Discussion	
<b>12:00</b>	<b>OVERALL DISCUSSION</b>	
	Copernicus as a tool to support public administrations for policy implementation (focus on forest monitoring, lake water monitoring and roads infrastructure management)	Mark Dowell (EC JRC Knowledge Centre on Earth Observations - KCEO)
	Moderated discussion	
	Concluding Remarks	

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## SESSION 2 The Public Authority uptake perspective | (hybrid, Brussels, 13 June | AM)

11:00	<b>Welcome and introduction</b>	Guillaume de La Brosse (European Commission)
	Background and Meeting Objectives	Alessandra Tassa (ESA)
	The societal impacts of the use of EO space data within the public sector: an overview from the OECD	Marit Undseth (OECD)
	Enabling the positive societal impacts of the use of EO space data: uptake from the public sector (i.e. findings from the SeBS transversal analysis).	Geoff Sawyer (EARSC)
	Uptake of EO space data in the public sector: experiences from the regional perspective	Roya Ayazi (Network of European Regions Using Space Technologies - NEREUS)
	• An experience from Veneto region	Salvina Sist (H/Spatial Planning Regione Veneto)
	• An experience from EO in the Azores region: an Atlantic perspective	Duarte Cota (Azores Region)
	• An experience from Brittany region	Ana Sanchez Lofficial (IRISPACE)
	Uptake of EO space data in the public sector: challenges and opportunities viewed from the private sector.	Marc Tondriaux (EUGENIUS/EARSC TerraNIS)
	Moderated discussion	Roya Ayazi (NEREUS)
13:00	Session wrap-up	

## SESSION 3 The international perspective | (hybrid, Brussels, 13 June | PM)

14:15	<b>Welcome from EC/ESA/Belgian presidency (TBC)</b>	Astrid Koch (European Commission)
	Meeting Objectives	Alessandra Tassa (ESA)
	Assessing the benefits derived from Earth Observations: a perspective from the GEO	Wenbo Chu (GEO Secretariat)
	Introduction of GEOValue	Monica Grasso/Joseph Conran (NOAA)
	The Sentinel Benefits Study: general findings and focus transversal analysis	Geoff Sawyer (EARSC)
14:45	<b>ROADS INFRASTRUCTURE MANAGEMENT</b>	
	Benefits of EO/Copernicus for Highways Management in Europe: outcomes from the SeBS User Experts workshop (Session 1)	Joanna Balasis-Levinsen (EEA)
	Benefits of EO/Copernicus for Highways Management: an experience from Turkey	Paulo Barreto (EGIS)
	<b>Q&amp;As</b>	
15:05	<b>FORESTS MANAGEMENT</b>	
	Benefits of EO/Copernicus for Forests Management in Europe: outcomes from the SeBS User Experts workshop (Session 1)	Rob Shaw (PEFC)
	Benefits of EO/Copernicus for Forests Management: an experience from Japan	Yoshihiko Aga (Japan Forestry Agency)
	Benefits of EO/Copernicus for Forests Management: an experience from Brazil	Gilvan Sampaio de Oliveira (INPE)
	Benefits of EO/Copernicus for Forests Management: an experience from the USA	Carl Norlen (USGS)
	<b>Q&amp;As</b>	
15:45	<b>coffee break</b>	
16:00	<b>LAKE WATER QUALITY MONITORING</b>	
	Benefits of EO/Copernicus for Lake Water Quality Management in Europe: outcomes from the SeBS User Expert workshop (Session 1)	Erin Jordan (IWA)
	Benefits of EO/Copernicus for lake water quality management: an experience from Canada	Caren Binding (Environment and Climate Change Canada - ECCC)
	Benefits of EO/Copernicus for lake water quality management: An experience from South Africa	Caroline Tlowana (Inkomati-Usuthu Catchment Management Agency - IUCMA)
	<b>Q&amp;As</b>	
17:00	<b>OVERALL</b>	
	Societal benefits of EO/Copernicus for public administrations: perspective from the morning session	Marit Undseth (OECD)
	Overall discussion	Mark Dowell (EC JRC)
	Session wrap-up	Geoff Sawyer (EARSC)
17:30	Close of workshop	Alessandra Tassa (ESA)



## BACKGROUND: WHAT IS THE SEBS TRANVERSAL ANALYSIS?

Building on a wealth of over 25 use cases, the Sentinel Benefits Study engaged in a transversal analysis aimed at understanding how far the benefits for a single case can be considered applicable for other (similar) ones. The analysis, performed for the three application areas for which more use cases had been reported, leads to a deeper understanding of the particularities of each case and about how far each of these can be considered representative of the situation across Europe. The findings also suggest a reflection on the processes that lead public administrations to adopt (or not) innovative solutions such as the one provided by Copernicus.

### ROADS INFRASTRUCTURE MANAGEMENT

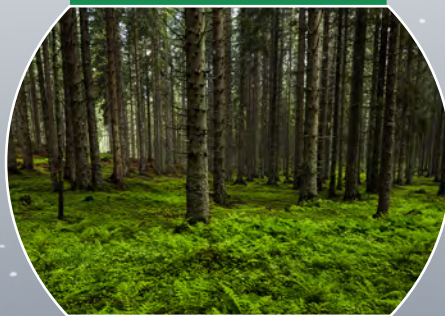


Highways Management in Italy

Ground motion monitoring in Norway

Highways management in Portugal

### FORESTS MANAGEMENT



Forestry Management in Sweden

Forest Monitoring in Portugal

### LAKE WATER QUALITY MONITORING



Water Quality in Germany

Water Quality in Finland

Water Quality in the Netherlands

## ABOUT THE PROJECT

Through a series of case studies, EARSC aims to gather quantitative evidence that the usage of Copernicus Sentinel data provides an effective and convenient support to various market applications. These studies are undertaken in the frame of the project "Showcasing the benefits brought by the usage of Sentinels data

to society, Environment and economy: a bottom-up assessment based on traceable impacts along selected value chains", under an assignment from the European Space Agency (ESA) funded by the European Union as part of the Copernicus programme.

