



Open
Geospatial
Consortium

Innovation Days Europe 2024

Monday 09:00-10:30

Title	Speaker	Abstract
Opening Session		Future visions pushing transition.
Europe's vision on data sharing to push the green transition	Marco Minghini European Commission Joint Research Centre Directorate T. Digital Transformation and Data T.1 Digital Economy Unit	With the current European Commission (2019-2024), the EU has embarked on an ambitious pathway towards a twin green and digital transition. Interoperable, trustworthy and sovereign data sharing practices are at the foundation of this vision. The talk will explore the main milestones of this journey, highlight the main results achieved and present the ongoing work, which will continue under the next European Commission (2024-2029).
FAIR Climate Services	Marie-Francoise Voidrot Europe Director, Innovation Program Open Geospatial Consortium (OGC)	Opening the stage with a discussion led by OGC about how open standards, innovations in geospatial technologies, and location information is becoming more Findable Accessible, Interoperable, and Reusable (FAIR). Climate Resilience Information Systems, designed following these FAIR principles are leading to FAIR Climate Services. Ideas and concepts will be discussed here.
30 min Discussion	Moderation: Nils Hempelmann	

Monday 11:00 - 12:30

Title	Speaker	Abstract
Climate and Biodiversity		Regulations, Recommendations, Good Practice Guidance, needs and barriers. How do the policy frames push towards sustainability and resilience?
Digital Empowerment in Agriculture: Fostering Climate Resilience and Restoration with Smart Solutions for Smallholder Farmers	Anton Eitzinger Thematic Leader Digital Climate Action Alliance of Bioversity International and CIAT The Americas Hub – Cali, Colombia	Digital technology has the potential to empower farmers by integrating them into information flow and data ecosystems. This not only enhances their autonomy with access to tailored agricultural advice and knowledge, but also tackles climate change and biodiversity loss through actionable resilience and restoration strategies. However, challenges for the ongoing digital transformation in agriculture remain for the near future.
Data for nature conservation and restoration: new tools and opportunities.	Aveliina Helm Professor of Restoration Ecology, University of Tartu, Institute of Ecology and Earth Sciences	The presentation will discuss how to use data for nature conservation and restoration. It will also showcase some digital tools that can help citizens to better understand the condition of the ecosystem around their home and the nature restoration needs.
30 min Discussion	Moderation: Nils Hempelmann	

Monday 14:00 - 15:30

Title	Speaker	Abstract
Climate and Disaster Resilience		Data pipelines from raw data to information. Importance of FAIR principles for data and digital infrastructures. Which challenges are we facing to move toward FAIR Climate Services?
UN SDG 14.1.1b Plastic Debris in the Ocean: Understanding the Sources and Abundance through Remote Sensing	Samantha Lavender EO Scientist and Director Pixalytics Ltd	This SDG indicator focuses on floating plastic debris as a surrogate for the broader size distribution of plastics in the ocean, including microplastics. The floating plastic is difficult to detect as there are multiple sources of floating material, and it is often sub-pixel in size. Also, multiple input satellite data sources need to be combined to achieve a global view.
From Typhoon activity forecast to large landslide early warning systems	Gérald Fenoy CEO at GeoLabs PostGis Zoo-Project	The nexus from typhoon activity related to heavy rain events leading to a high risk of large landslides will be rolled out in this intervention. The data pipeline in place following FAIR principles is required and interoperable application packages ensure a reliable transformation from raw data to information and knowledge. A Taiwanese use case will be shown on how emergency management systems can reduce disaster risks.
30 min Discussion	Moderation: Marie-Françoise Voidrot	



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Monday 16:00 - 17:30

Title	Speaker	Abstract
Climate and Health		The bumpy road of data pipelines in the health domain. How are the medical and climate services linked?
Climate Monitoring and Decision Support Framework for Sand Fly-borne Diseases Detection and Mitigation	Danyang Wang PhD Candidate in Wageningen University Wildlife Ecology and Conservation Group	Here we discuss the use case of Climate Monitoring and Decision Support Framework for Sand Fly-borne Diseases Detection and Mitigation (CLIMOS-Project). The challenges and difficulties of merging data from different data sources for the data pipeline from raw data to information as well as the options for sustainable usage of the applications in free or commercial ways within the EU digital dataspace.
Geospatial modelling of vector-borne diseases: data challenges	Luigi Sedda Lancaster Medical School	Public health interventions for vector-borne diseases (but extendable to any disease) requires the identification of fine and accurate spatial and temporal risks scales. Ecological modelling can provide this information only if the geospatial data (outcome and predictors) are provided at a resolution coherent with the area heterogeneity (in terms of environmental conditions) and disease transmission.
30 min Discussion	Moderation: Marie-Françoise Voidrot	

Tuesday 09:00 - 10:30

Title	Speaker	Abstract
Spatial Data Infrastructures and Data Spaces		Technical Solutions - Are they answering the requirements?
Location Europe - Linking National Spatial Data Infrastructures to EU Dataspace	Antti Jakobsson Chief Engineer at Maanmittauslaitos	How national data infrastructures could be linked to European Data Spaces. Locationeurope.eu shows how this could be done. Location Innovation Hub host this platform supported by the European Core Data Provider network which is open for all national data providers.
The Green Deal Data Space Journey	Nevena Raczko EU Projects Manager @ IDC Policy, Sustainability & Green Growth	By harnessing the power of digital innovation and sustainable practices, the Green Deal Data Space (GDDS) serves as a cornerstone in the EU's journey towards climate neutrality by 2050. Through a comprehensive outline of its objectives, key components, and implementation strategy, attendees will explore how the GDDS fosters collaboration, empowers decision-making, and drives impactful action across sectors.
30 min Discussion	Moderator: Mayte Toscano	

Innovation Days Europe 2024

Tuesday 11:00 - 12:30

Title	Speaker	Abstract
Tools, Gaps, and Challenges		Addressing the gaps between stakeholder requirements and technical solutions - Where do we need to find new or better recipes?
Data Spaces Technical Building Blocks	Jari Reini National Land Survey of Finland, and ISO/TC211–AHG10	European Common Data Spaces will be based on International Data Space Association (IDS) building blocks. This session reveals technical building blocks and potential standards to be used for geospatially enabled European Data Spaces.
DGGS for Climate Resilience planning	Alexander Kmoch Researcher Landscape Geoinformatics, University of Tartu, and OGC DGGS Europe co-chair	This session will discuss how Discrete Global Grid Systems (DGGS) can improve climate resilience planning and policy through better geospatial data handling. We will give an overview of the state of available technology and show examples on DGGS has been employed in climate adaptation, emergency and disaster management.
30 min Discussion	Moderator: Mayte Toscano	

Tuesday 14:00 - 15:30

Title	Speaker	Abstract
Tools, Gaps, and Challenges		How can the current climate services be improved?
New Climate Data Store (CDS)-Engine powering the Copernicus Health Hub	Angel Lopez Alos CDS Team Manager en European Centre for Medium-Range Weather Forecasts	CDS-Engine is a modern and versatile framework infrastructure fostered by FAIR principles powering Copernicus services (C3S,CAMS, CEMS), platforms (WEkEO, Climate Adapt) and initiatives as the Thematic Hubs for Health and Energy.
ESA Climate Change Initiative (CCI) in support of the Paris Agreement and the Global Stocktake	Clement Albergel Climate Applications Scientist Climate and Long-Term Action Division European Space Agency - ESA	ESA's Climate Change Initiative is a major research and development effort that generates global, decades-long satellite data records to track and understand key aspects of the Earth climate system, and known as Essential Climate Variables.
30 min Discussion	Moderator: Joana Simoes	

Tuesday 16:00 - 17:30

Title	Speaker	Abstract
Climate and Land		Droughts, Desertification and Land Degradation.
Digital infrastructures, tools and data standards for UNCCD national reporting on SDG 15.3.1	Brian O'Connor Programme Officer Geospatial Information Officer Science, Technology and Innovation Unit	Five United Nations Convention Combat Desertification (UNCCD) strategic objectives underpin the 2018-2030 UNCCD Strategic Framework. In order to facilitate national reporting, the pipeline from raw data to information and knowledge requires standardisation and optimised infrastructures. Known bottlenecks will be discussed.
Quo vadis? Where to go?		Future priorities to enhance, improve and realize climate services.
Panel Discussion: Data-Driven Solutions for Environmental Challenges: From Monitoring to Action	Evert Van Bever Marco Minghini Marie-Françoise Voidrot Stefanie Lumnitz Milvari Alieva Aveliina Helm	Climate change demands global action, and data sharing is a crucial tool. Experts will explore how to bridge the gap between data and actionable solutions. The discussion will focus on policy frameworks and data standards that address cross-disciplinary data collection, efficient data sharing, and facilitate international collaboration for better information integration.
Closing words	OGC	