

Bridging Environmental Research Infrastructures in Europe, ENVRI-Hub Next

Thursday, March 20, 2025 11:45 AM (45 minutes)

Europe hosts a vibrant cluster of Environmental Research Infrastructures (ENVRIs), serving a diverse community committed to tackling today's most pressing environmental challenges. These infrastructures play a crucial role in advancing Europe's strategic actions to achieve climate neutrality. The project ENVRI-Hub NEXT builds on years of collaboration to provide interoperable datasets, services, knowledge base supported by AI driven search engine and training across key Earth system domains—atmosphere, marine, ecosystems, and solid Earth—while leveraging advanced distributed e-infrastructures such as EGI.

This keynote will explore the technical foundations of the ENVRI-Hub gateway and its role in enabling environmental research infrastructures (RIs) to jointly investigate the full chain—from essential climate variables to global climate indicators and Earth system feedback mechanisms. The ENVRI-Hub is evolving towards establishing an Environmental Node, aligning with Europe's vision of building the European Open Science Cloud (EOSC) Federation as a network of Nodes to support cross-disciplinary scientific research and innovation.

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Bio:

Marta Gutierrez works for the EGI Foundation as a Community Support Specialist. She collaborates with scientific communities, facilitating their integration into the EGI Federation, and ensuring access to compute, cloud, and data analytic services offered by providers of the federation. Marta is actively engaged in EU-funded projects focused on promoting FAIR data principles and advancing analytics via cloud and HPC infrastructures. With prior experience at international organizations like ECMWF and research facilities such as STFC, Marta has a strong background in working with climate and meteorological communities. Her expertise lies in building federated data infrastructures and providing data and services to a global audience. Marta is currently focused on supporting environmental Research Infrastructures and pilot activities for the European Open Science Cloud Federation. She holds a master's degree in Theoretical Physics from Universidad Autónoma de Madrid.

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