

Tiziana Ferrari, EGI

Bio:

Tiziana Ferrari is Technical Director at the EGI Foundation, the coordinating body of EGI, the federated e-Infrastructure set up to provide advanced computing services for data-driven research and innovation. Through its partners at European and international level and strategic collaborations with research infrastructures, EGI leads innovation in high-throughput computing, cloud, data management and security.

Since January 2018, she is project coordinator of EOSC-hub, the EC funded project bringing together an extensive group of national and international service providers and research infrastructures to create the EOSC Hub: a central contact point for European researchers and innovators to discover, access, use and reuse a broad spectrum of resources for advanced data-driven research. Tiziana was formerly Chief Operations Officer of EGI, taking care of the operations coordination of the technical infrastructure, one the largest computing platforms for research in the world. She is a promoter of the Open Science Commons and participated in the definition of the EGI governance and service portfolio in the framework of the EGI_DS project. Tiziana holds a PhD in Electronics and Data Communications Engineering from the Università degli Studi in Bologna.

Abstract:

The European Open Science Cloud and its Use Cases for Climate, Weather, Earth and Environmental System research

The European Open Science Cloud (EOSC) initiative has been proposed in 2016 by the European Commission as part of the European Cloud Initiative to build a competitive data and knowledge economy in Europe. According to the EC vision, the EOSC will offer researchers and professionals in science, technology, the humanities and social sciences a virtual environment with open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines by federating existing scientific data infrastructures, currently dispersed across disciplines and the EU Member States.

It is expected EOSC will change the paradigm of research data sharing and exploitation by providing all researchers, innovators, companies and citizens with seamless access to an open-by-default, efficient and cross-disciplinary environment for storing, accessing, reusing data, tools, publications and any EOSC Resource for research, innovation and educational purposes.

In this presentation, we will provide an overview of EOSC use cases in the areas of science, evidence-based policy making and commercial exploitation of open data for Climate, Weather, Earth and Environmental System research.

We will also show how exploitation of open data through distributed computing has been instrumental to make groundbreaking scientific discoveries possible, and how the opening of data and computing infrastructures at international level will be necessary to deliver unprecedented compute capacity and advance data analytics tools to international research collaborations.