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Defragmentation of the European Earth observation ecosystem: The NexGEOSS data hub and platform serving science communities that create Earth observation based applications and services

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Both on a European and global scale, the ecosystem of Earth observation communities including their (e)infrastructures are fragmented and difficult to navigate in efficiently, finding what you need of data and services in a timely manner.

The H2020 project NextGEOSS is in the process of building a European data hub and platform to support the Earth observation communities with a set of tools and services through the platform. The suite of tools on the platform allows scalability, interoperability and transparency in a flexible way, well suited to serve a multifaceted interdisciplinary community. The development of NextGEOSS is organized around a set of 10 initial pilots. It contributes to Group on Earth Observation's (GEO) global priorities including support to the UN 2030 Agenda for sustainable development, the Paris Agreement on climate change, and the Sendai Framework for Disaster Risk Reduction. Running until mid-2020, the NextGEOSS project evolves the European vision of a user driven GEOSS data exploitation for innovation and business, relying on three main pillars: engaging communities of practice, delivering technological advancements, advocating the use of GEOSS.

These 3 pillars support the creation and deployment of Earth observation based innovative research activities and commercial services. Through a well structured and documented on-boarding process, the data hub and platform services are being made available to external pilots as well. NextGEOSS offers to catalogue data used by or from other projects as well as showcasing their applications and services making it easier to reuse and find the results of former investments in the Earth observations communities. In this presentation an overview of the NextGEOSS concept including the data hub and platform will be given. Special focus will be on the cataloguing and possible showcasing of results from other projects both from earlier and current projects. The NextGEOSS data hub and platform including the offers to catalogue data and results from other projects and initiatives across scientific fields, contributes to defragmentize the European Earth observation ecosystem.

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