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New Web-Based services for Earth Observation applications

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Since the beginning of 2017, the NextGEOSS project implements a pragmatic pilot-driven approach to integrate progressively the complexity of the existing global Earth Observation ecosystem, leveraging previous investments, adding new cloud technologies and resources and engaging the diverse communities to address all types of Sustainable Development Goals (SDGs).

It contributes to support 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 2020, the NextGEOSS project evolves the European vision of a user-driven GEOSS data exploitation for innovation and business, relying on the 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.

Based on a first initial set of 10 pilots defined by the project partners to address the main challenges and include as soon as possible contributions to SDGs associated with Food Sustainability, Bio Diversity, Space and Security, Cold Regions, Air Pollutions, Disaster Risk Reduction, Territorial Planning, Energy, the project has developed and validated a set of basic services useful to any type of application needing Earth Observation data or services.

The data hub and the services have been made available to external pilots as well as a structured and documented onboarding process. This process is now on good tracks to bring short term benefits to several pioneers who will help us in return to expand the concepts and services delivered by the project.

Recently NextGEOSS has opened two new types of services to catalogue and give access to the data and services produced by other European projects.

In 2019 the project will get involved into an Architecture Implementation Pilots (AIP-10), opened worldwide, to increase discoverability, accessibility and usability of data with a strong User Centric approach for innovative GEOSS powered applications for multiple societal areas.

This presentation will introduce the process of development of the project and the multi-shape deliverables: pilot applications supporting SDGs, Earth Observation services made available to develop new EO applications, and the data and services cataloguing proposals. It will then provide all needed information to become a new partner.

All initiatives with an interest in and need of Earth observations (data, processes, models, ...), all European projects wishing to advertise the data they produce, the applications and services they have developed, are welcome to contact the project via its website: https://nextgeoss.eu/engage-with-nextgeoss-3-2/.

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