

# little book of big facts

Revealing the role of GEOSS as the default digital portal for building climate change adaptation & mitigation applications

EIFFEL is a game changer in the domain of climate change adaptation and mitigation by harvesting the benefits of the GEOSS data.

The project will offer to the Earth Observation community the ground-breaking capacity of exploiting existing GEOSS datasets and will also build upon prior knowledge, with minimal new data collection activities. Added-value services interoperable with GEOSS will be designed, using cognitive search and metadata augmentation tools based on Artificial Intelligence, including Natural Language Processing. These tools will leverage advanced cognitive features to extract meaningful information from and enrich GEOSS metadata.

## The project will promote the development and uptake of 5 pilot applications from different geographic areas and climate regions,

addressing the UN Sustainable Development Goals, the Paris Agreement and the Sendaï Framework for Disaster Risk Reduction and aligned with GEO Societal Benefit Areas:

- > Water and Land Use Management
- > Sustainable Agriculture
- > Transport Management
- > Sustainable Urban Development
- > Disaster Resilience

- > **Exploit** the untapped potential of available GEOSS datasets, i.e. satellite, in-situ, modelling, crowd-sourced, by creating Al-based cognitive search tools;
- > Leverage techniques of Explainable AI to develop tangible indicators for Climate Change impacts;
- > **Contribute** to GEO's new infrastructural feature, the GEO Knowledge Hub, a digital repository providing access to knowledge needed to build GEOSS-driven applications;
- > Foster the co-design of Climate Change adaptation and mitigation applications by bringing onboard the decision makers who are working towards the Paris Agreement goals at local, regional and national scales;
- > **Develop** using co-creation, a set of Climate Change adaptation and mitigation applications in different and quite diverse GEO Societal Benefit Areas, in order to demonstrate the project innovations.

## Behind the project

- >19 partners
- >8 European countries











































Starting date → 1.06.2021

Project information → 36 months | 19 partners | EU contribution 4.999.466,25  $\in$ 

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Topic → LC-CLA-19-2020-Building a low-carbon, climate resilient future:

climate action in support of the Paris Agreement

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