

# **Geo-INQUIRE**

## **Geosphere INfrastructures for QUestions into Integrated Research**



*Newsletter 1 June 2022*

### ***Welcome***

Welcome to the first newsletter of the Geo-INQUIRE project. We plan to disseminate such a note every two months or so to favor the communication within the project and throughout the earth science community, so your contributions are more than welcome.

Geo-INQUIRE is setting out to enhance the access to key datasets, "big" data streams, and high-performance computing codes to encourage and support curiosity-driven research. Such resources are becoming ever more critical to studying the temporal variation of the solid Earth, forecasting multi-hazards, and understanding the processes occurring at the interface between the solid Earth and its fluid envelopes. Geo-INQUIRE is supported by the European Commission's Horizon Europe program, within their infrastructure call.

Geo-INQUIRE is made up of 51 partners from 13 countries across Europe. This includes 5 test sites where not only will scientists have access to the resulting data sets, but also, via a competitive process, the opportunity to implement their own experiments. Other activities such as workshops for scientists at all stages of their career will allow them to better understand and exploit what is available.

With the project starting on the 1<sup>st</sup> October this year, and continuing until September 2026, we look forward to the message of Geo-INQUIRE spreading throughout the earth science community, especially those involved in natural hazard and georesource research, and hope that not only the project members, but anyone interested will find way to be involved with the project.

We are pleased that this project is supported by such a large community and look forward to the discoveries that will emerge from the exploitation of these new observations and models.

Best regards,  
The Geo-INQUIRE Project Management Team,  
Prof. Fabrice Cotton (coordinator),  
Dr. Angelo Strollo (director),  
Dr. Kevin Fleming (manager)

### ***Grant agreement signed!***

The Grant Agreement between the European Commission and GFZ was signed on May 30<sup>th</sup>, with the Consortium Agreement between all Beneficiaries and Associated Partners soon to be finalized.

Already, the leaders of the various work packages have been sorting out those responsible for the various tasks and associated deliverables. With over 200 individual scientists and researchers directly involved in the project and the intention of improving the quality and dissemination of over 150 data products, the challenges faced by the Geo-INQUIRE consortium are more than apparent, but thanks to an already existing strong sense of purpose, there is great confidence in the success of the project.

## ***Introducing the Geo-INQUIRE team***

A project as complex as Geo-INQUIRE calls for a diverse range of activities covering project management, data protection, the acquisition of different types of data and the subsequent development of data products and software tools, an openness to new ideas to better exploit the test sight facilities, and a genuine willingness to make these resources available.

The project, therefore, has as its work package leaders renown experts from across Europe to ensure that Geo-INQUIRE's activities are fruitfully guided throughout its four-year time span.

### Work Package Leadership

<p>WP2 Access to enhanced game changing observables of the geosphere Prof. Helle Pedersen and Dr. Angelo Strollo</p>		<p>WP3 Access to products enabling curiosity-driven sciences for geohazard and multi-risk assessment Dr. Helen Crowley</p>	
<p>WP4 Access to products enabling curiosity-driven science for georesources exploration and exploitation Dr. Marc Urvois</p>		<p>WP5 Access to the next generation of software and workflows as a service Dr. Stefan Lorito</p>	
<p>WP6 Access and harmonization of integrated research infrastructures services for next generation data, services, and products Dr. Daniele Bailo</p>		<p>WP7 FAIR data management, legal compliance, and impact assessment Dr. Otto Lange</p>	
<p>WP8 Fostering interoperability and cross-disciplinary research of the geosphere through test beds and the integration of VA/TA activities Prof. Gaetano Festa</p>		<p>WP9 Fostering cross-disciplinary research of the Earth through training and workshops Dr. Mariusz Majdanski</p>	

## ***Making Geo-INQUIRE known***

At the recent RISE (Real-time earthquake rIsk reduction for a reSilient Europe) meeting in Florence, Italy, Geo-INQUIRE was presented by Fabrice Cotton, and he was immediately struck by the interest shown in the project, especially among early stage researchers, seeking opportunities to expand their experience following the covid lock downs. The first calls for the planned research opportunities and workshops are expected to be announced in the second year of the project (2023-2024) and will involve a competitive process. Geo-INQUIRE will also be involved in the kickoff meetings of several EU projects with strong connections to Geo-INQUIRE: ERIES (Engineering Research Infrastructures for European Synergies, Pavia, June 8th) and DT-Geo (A Digital Twin for Geophysical Extremes, Barcelona, 19-20th).

## ***Kick-off-meeting***

The kick-off meeting for Geo-INQUIRE is set for between the 4<sup>th</sup> and 5<sup>th</sup> October, 2022, at the historic Telegrafenberg Science Park campus. Given the turmoil of the previous few years with the corona crisis, the Geo-INQUIRE participants are looking forward to again being able to meet in person and to plan out the final stages of the project. The meeting will include tours of the park, with famed scientific landmarks such as the Einstein Tower and the Great Refractor.

Further details (meeting program, registration) will be passed on by the end of June.



*The Einstein Tower (left) and the Great Refractor (right), just two of the historical buildings located on the Telegrafenberg Science Park campus.*

## ***A project for all***

Of utmost importance to Geo-INQUIRE will be to ensure that it embraces the richness that the diversity in its participants, and in those benefiting from its outcomes, promises. The project will have a panel made up of consortium members who are dedicated to ensuring Equality, Diversity, and Inclusion within the project. Furthermore, data protection, as would be implied by such a project, will be at the forefront of the project's management with every effort made to ensure FAIR principles are followed. An advisory board is also being organized, with international experts being approached to provide advice to the consortium and to help ensure the high quality of its products.



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Further information may be obtained from the project coordinator, Prof. Fabrice Cotton ([fcotton@gfz-potsdam.de](mailto:fcotton@gfz-potsdam.de)), project director, Dr. Angelo Strollo ([strollo@gfz-potsdam.de](mailto:strollo@gfz-potsdam.de)), or the project manager, Dr. Kevin Fleming ([kevin@gfz-potsdam.de](mailto:kevin@gfz-potsdam.de)).

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