

A Forward Look to a Roadmap for Solid Earth Science in Europe

Introduction

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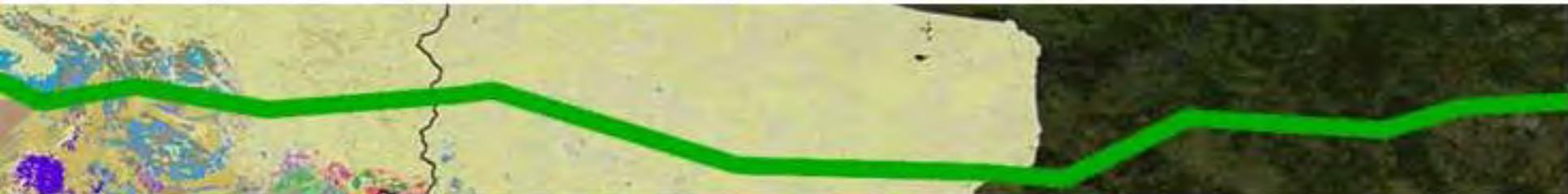




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Mission

- To enhance the scientific credibility of Earth science by establishing a **coherent road-map** for earth science, to deliver the science Europe needs.
- The target area is **earth sciences** [geology, geophysics and geochemistry applied to the solid Earth] and its interactions with the hydrosphere and atmosphere.
- Broad areas of impact of the research are principally in Earth's resources and their secure exploitation and natural hazards associated with the Earth system.

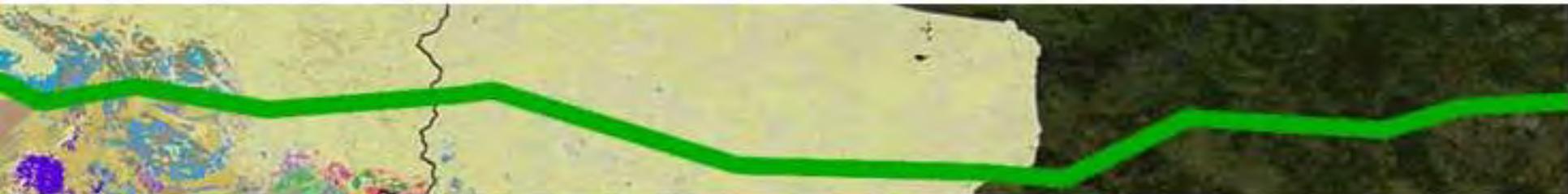




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Why now? Who was invited and why

- The launch of [Horizon2020](#) with a strong focus on the excellent science via the European Research Council ([ERC](#)), training programmes and infrastructure in addition to grand societal challenges;
- A number of infrastructure programmes and joint programming initiatives in European nations in the earth science sector that are in the preparation phase and will be planning for the engineering and/or implementation phase;
- Renewal and review processes in some key international programmes such as [IODP](#), [ICDP](#), [IGCP](#), [TopoEurope](#), [ILP](#), etc;
- Publication of national earth science infrastructure and science plans by Germany, UK, Australia, USA and Chinese governments, etc;
- New Earth observing satellite systems
- An increasingly robust science base in the [BRICS](#) countries with which we can now develop partnerships.
- Invitees – infrastructure deliverers, ERC fellows, Eurogeosurveys expert groups, EAGE industry





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Key Questions

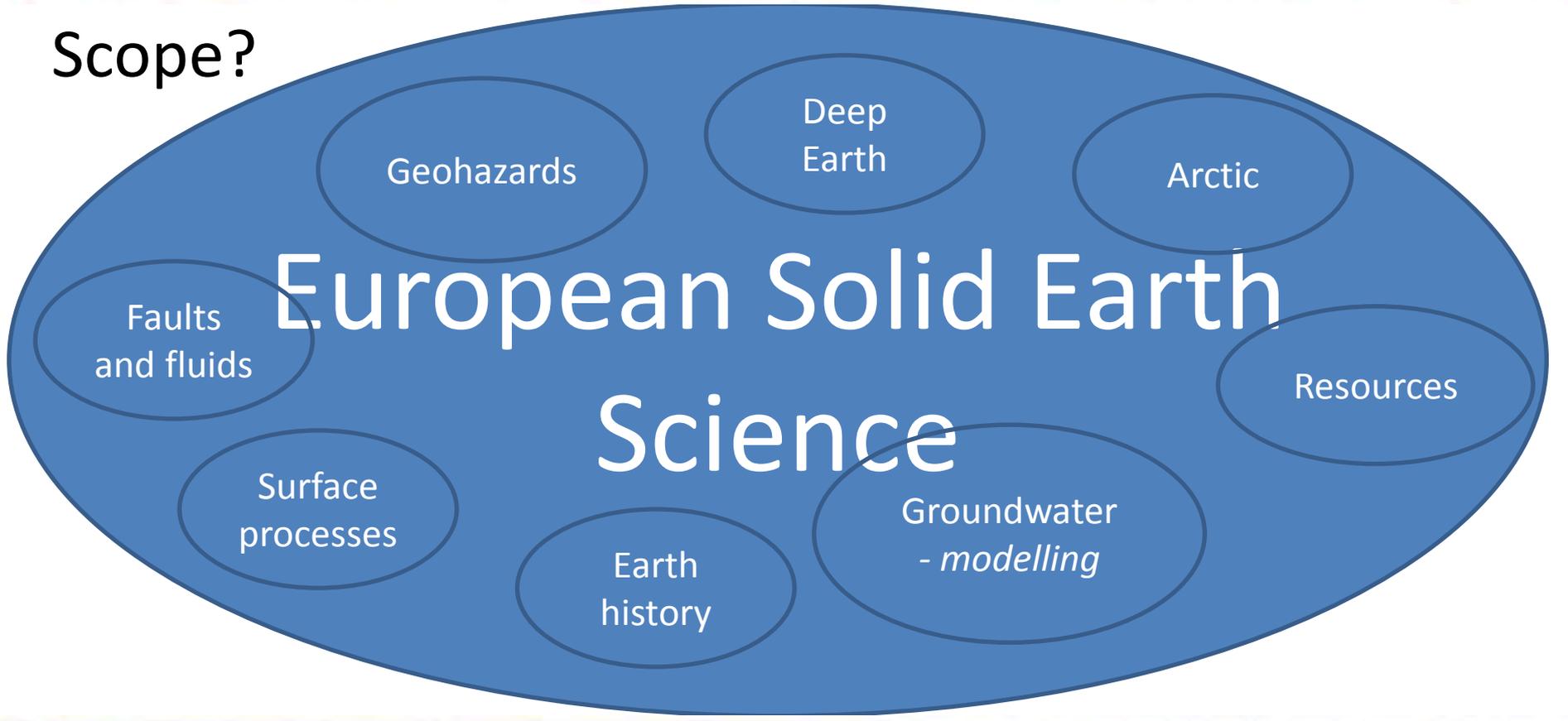
- *What do we think are the top research priorities in the Earth Sciences?*
 - *What is the expected impact of the Earth Sciences research?*
 - *What infrastructure do we need to undertake the research to address these priorities?*
 - *What specific research programmes would be of value for Earth Sciences in Europe?*
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Scope?

European Solid Earth Science



Geohazards

Deep
Earth

Arctic

Faults
and fluids

Resources

Surface
processes

Earth
history

Groundwater
- *modelling*

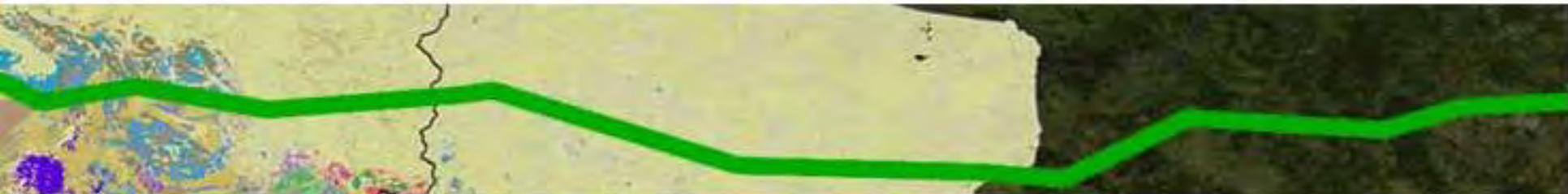




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Outputs

- A working document for consultation by the wider earth science community in Europe and its stakeholders.
- A final roadmap document for release at EGU in April 2013.





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Plan for the duration of this meeting

- Introduction
 - Presentations on key Infrastructure initiatives
 - Breakouts – *address key questions*
 - Presentations by rapporteurs
 - Discussion
 - Identification of writing team
- 



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- We ask the community to decide if the ***Earth Science Europe*** banner can be used effectively as a platform for the diverse actors in our science on the same way as some other science boards have been developed in Europe.

