

## Interoperable solutions for common challenges in environmental research infrastructures

*Friday, 8 April 2016 11:40 (20 minutes)*

To understand the impact on our global environment of societal challenges such as climate change or pollution, scientists need to measure the environment on a large scale, and to understand the interactions between different environmental systems involving the atmosphere, oceans and geosphere. However, the complexity of environmental systems makes this task very difficult. This is despite all the existing information and communications technologies used so far to support research on environmental and earth sciences. Most RIs are constructed to address specific research areas, and so using data and software across different RIs has proven challenging.

The data for science theme in the EU H2020 ENVRIPLUS project will establish an ICT approach for handling the lifecycle of scientific data based on the latest technologies offered by e-Infrastructure providers such as EUDAT and EGI. This approach will inspire interoperable solutions that can benefit research infrastructures (RI).

**Speaker's biography**

Dr. Zhiming Zhao is currently a senior researcher in University of Amsterdam. He leads research and development activities in the data for science theme in the EU H2020 ENVRIPLUS project. He is the scientific coordinator of the H2020 SWITCH project and is also involved in the H2020 VRE4EIC project.

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**Session Classification:** Environmental and health data services