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Environmental Research Infrastructures providing shared solutions for science and society (ENVRIplus)

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ENVRIplus is a Horizon 2020 project bringing together Environmental and Earth System Research Infrastructures, projects and networks together with technical specialist partners to create a more coherent, interdisciplinary and interoperable cluster of Environmental Research Infrastructures (RIs) across Europe. The objective of ENVRIplus is to provide common solutions to shared challenges for these RIs in their efforts to deliver new services for science and society. To reach this overall goal, ENVRIplus brings together the current ESFRI roadmap environmental and associate fields RIs, leading I3 projects, key developing RI networks and specific technical specialist partners to build common synergic solutions for pressing issues in RI construction and implementation. ENVRIplus will be organized along 6 main objectives, further on called "Themes":
1) Improve the RI's abilities to observe the Earth System, particularly in developing and testing new sensor technologies, harmonizing observation methodologies and developing methods to overcome common problems associated with distributed remote observation networks;
2) Generate common solutions for shared information technology and data related challenges of the environmental RIs in data and service discovery and use, workflow documentation, data citations methodologies, service virtualization, and user characterization and interaction;
3) Develop harmonized policies for access (physical and virtual) for the environmental RIs, including access services for the multidisciplinary users;
4) Investigate the interactions between RIs and society: Find common approaches and methodologies how to assess the RIs' ability to answer the economical and societal challenges, develop ethics guidelines for RIs and investigate the possibility to enhance the use Citizen Science approaches in RI products and services;
5) Ensure the cross-fertilisation and knowledge transfer of new technologies, best practices, approaches and policies of the RIs by generating training material for RI personnel to use the new observational, technological and computational tools and facilitate inter-RI knowledge transfer via a staff exchange program;
6) Create RI communication and cooperation framework to coordinate activities of the environmental RIs towards common strategic development, improved user interaction and interdisciplinary cross-RI products and services.
The produced solutions, services, systems and other project results are made available to all environmental research infrastructure initiatives.