



International Centre for Advanced Studies on River-Sea Systems



A new pan-European distributed Research Infrastructure for the study of river-sea systems and the opportunities and risks they represent to society

Addressing the conflicts between sustainable development, environmental change and environmental conservation in river-sea systems globally

A platform for interdisciplinary research, inspiration, innovation, education and training

www.danubius-ri.eu

Surface waters are key for global biogeochemical cycles, food and energy production, and societal wellbeing. Biodiversity hotspots at the interface between land and water provide essential ecosystem services. However, pressures from natural and manmade environmental perturbations at local, regional and global scales exert a significant and growing threat to functionality.

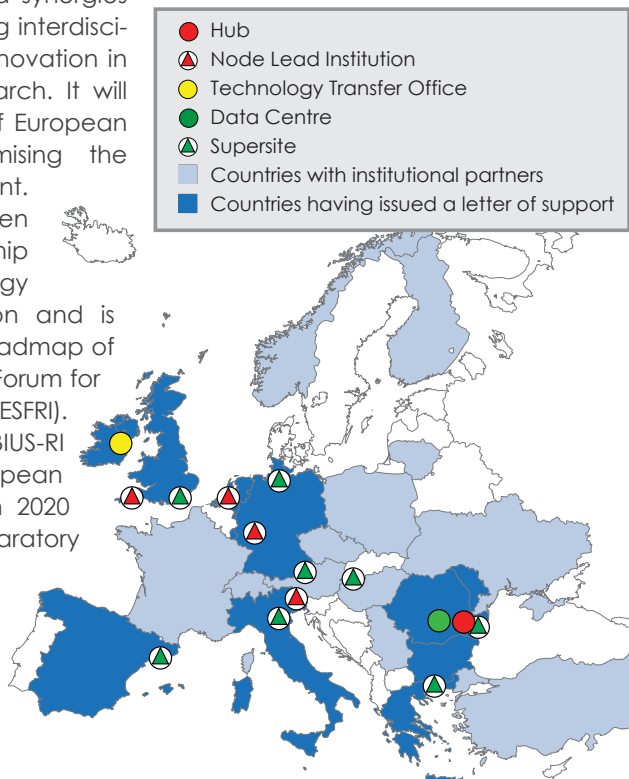
European research on river-sea systems and their transitional environments is world-leading but fragmented, largely discipline-specific and often geographically isolated. The lack of interdisciplinary Research Infrastructures has fuelled this fragmentation.

DANUBIUS-RI (named after the world's most international river) will provide a pan-European Research Infrastructure to fill the gap and facilitate research on river-sea systems in Europe and worldwide. It will provide access to a range of European river-sea systems, facilities and expertise.



DANUBIUS-RI will have a Hub and Data Centre in Romania, a Technology Transfer Office in Ireland, and Supersites and Nodes at a range of locations across Europe. The Hub will provide leadership, coordination, and key scientific, educational and analytical capabilities. Supersites will be designated natural sites providing the focus for observation, research and modelling at locations of high scientific importance and utilizing a range of opportunities to study river-sea systems from source to sea. Nodes will be centres of expertise providing facilities and services, data storage and provision, experimental and in situ measurements facilities, state-of-the-art analytical capabilities and implementation of standardised procedures and quality control.

Led by Romania, researchers from 16 European countries have been actively involved in developing the project. DANUBIUS-RI will bring together research on different environmental sectors, in an interdisciplinary approach to river-sea systems. It will build on existing European expertise and synergies to support world-leading interdisciplinary research and innovation in freshwater-marine research. It will enhance the impact of European research while maximising the return on investment. DANUBIUS-RI has been designated as a flagship project of the EU Strategy for the Danube Region and is included in the 2016 Roadmap of the European Strategy Forum for Research Infrastructures (ESFRI). In June 2016 DANUBIUS-RI applied to the European Commission for Horizon 2020 funding for the preparatory phase of the project.





For further information, please contact the project team:
Dr Manuela Sidoroff
Dr Adrian Stanica
Dr Michael Schultz
danubius-ri@danubius-ri.eu
www.danubius-ri.eu

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