**BACKGROUND**

- 85% of Earth’s land surface is connected to the ocean by rivers (Bianchi et al. 2013)
- 75% of the world’s population is expected to live in the coastal zone by 2025, with many of the remaining living near major rivers (Bianchi et al. 2013)
- 60% of the world’s international river basins lack a cooperative management framework (UN WWDR4, 2012)

**AIM**

DANUBIUS-RI’s aim is to overcome the current fragmentation of freshwater and marine research and to facilitate integrated research from the river source to the sea by:
- providing access to state-of-the art facilities, methods and tools, as well as samples and data;
- bringing together relevant expertise to advance process and system understanding and to enhance stakeholder engagement; and
- enabling the development of integrated management and policy-making in River-Sea Systems.

**RESEARCH**

DANUBIUS-RI’s identified key challenges and research needs in River-Sea Systems, which are related to global change incl. climate change and extreme events, changes in hydromorphology, the quantity and quality of water and sediment across the river-sea continuum, and the structure and functioning of associated ecosystems.

**APPROACH**

DANUBIUS-RI, **International Centre for Advanced Studies on River-Sea Systems**, is a distributed research infrastructure (RI) integrating studies of:
- rivers and their catchments,
- transitional waters, such as estuaries, deltas and lagoons, and their
- adjacent coastal seas (i.e. River-Sea Systems).

Its mission-oriented, integrated, interdisciplinary and participatory approach seeks to change the process and system understanding of River-Sea Systems and their respective management in order to achieve healthy River-Sea Systems.

**Research Missions & Priorities:**
- "Achieving Healthy Inland, Transitional and Coastal Waters" including the research priorities Water Quantity, Sediment Balance, Nutrients and Pollutants, Biodiversity and Ecosystem Services
- "Adapting to Climate Change: Enhancing Resilience of River-Sea Systems" including the research priorities Climate Change and Extreme Events

**MORE INFORMATION**

DANUBIUS-RI’s **Science & Innovation Agenda** is guiding the RI’s evolution as it progresses from preparation through implementation to operation. It describes DANUBIUS-RI’s vision, mission and approach, and provides a scientific framework for the RI’s design and highlights the research priorities for the first five years.

"Achieving Healthy Inland, Transitional and Coastal Waters" including the research priorities Water Quantity, Sediment Balance, Nutrients and Pollutants, Biodiversity and Ecosystem Services
"Adapting to Climate Change: Enhancing Resilience of River-Sea Systems" including the research priorities Climate Change and Extreme Events

Download the Science & Innovation Agenda here!

www.danubius-ri.eu

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