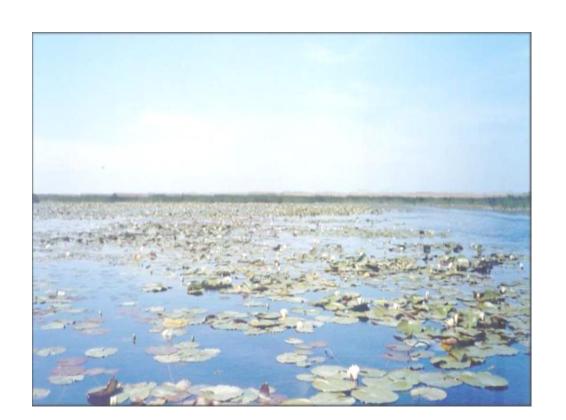






*david-anselmo.vignati@univ-Lorraine.fr; danubius.research@geoecomar.ro



Desirable features

Natural hydrological regime

Natural sediment budget

Naturally changing morphology

No harmful chemicals

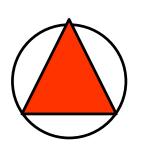
Functional and biodiverse ecosystems

Healthy River-Sea Systems (RSS)



Flood and drought management Navigation and impoundment Land-use policy and management Industry, agriculture and stockbreeding Fishing, energy and recreation

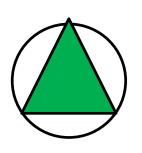
Anthropogenic pressures



The Nodes

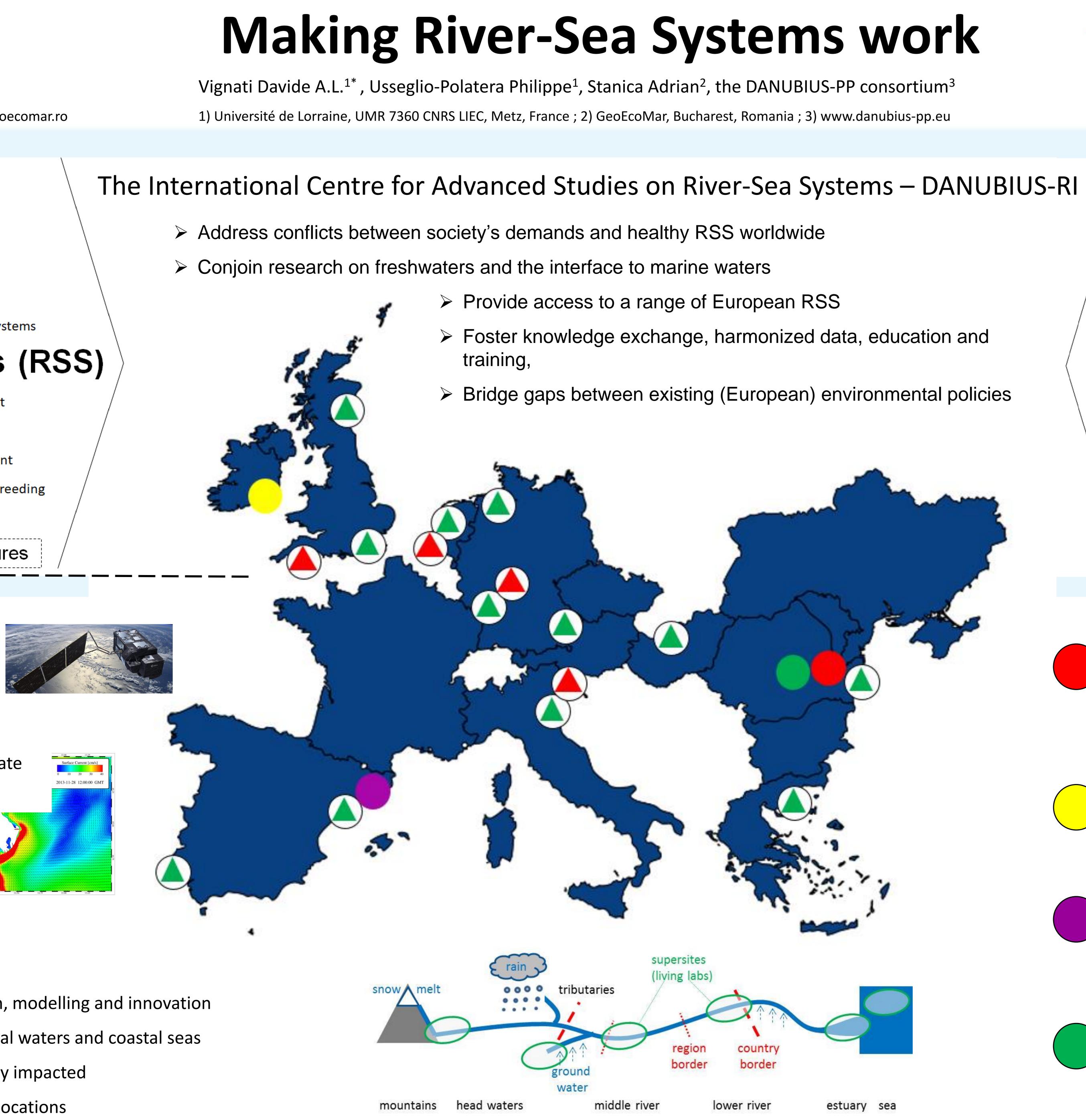
- > Observation: *in situ*, satellite, real-time
- > Analysis: biogeochemistry, life sciences
- Modelling: simulate, interpolate, elaborate Impact: from knowledge to healthy RSS





The Supersites

- Living laboratories for observation, research, modelling and innovation
- Covering RSS from river source to transitional waters and coastal seas
- Ranging from the near pristine to the heavily impacted
- Supporting and fostering research at other locations



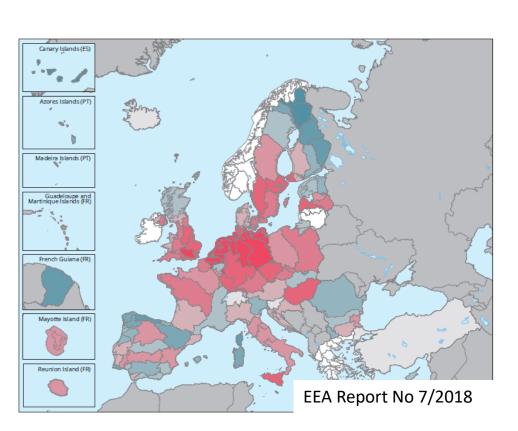




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Scientific challenges

- Healthy RSS in a changing climate
- Water sufficiency (quality and quantity)
- Sediment management
- Ecosystem health
- Societal acceptance



Mitigate

Take

Repair

Healthy River-Sea systems (RSS)

- Interdisciplinary research on RSS
- Ready-to-use facilities
- Equipped sites with long-term operation <
- Cross-system studies
- Capacity building and learning





Implementation framework

The Hub

Management, coordination and capacity building

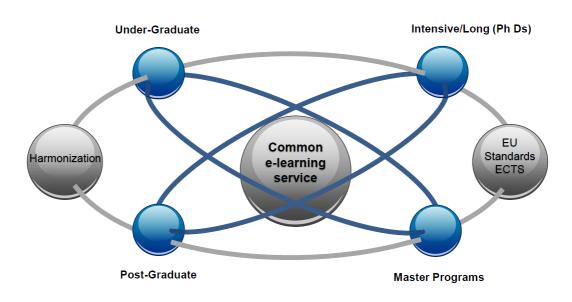


Protect

The Technology Transfer Office

Balancing research freedom, green economic growth and employment

The E-learning Office Common e-learning services, virtual laboratories



The Data Centre

Data availability (including non-digital data and metadata), data processing and access