

The outcomes of FP7 DANCERS project as guidelines for the BSH later stages

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The material contains topics proposed by FP7 DANCERS Project for the Danube River – Black Sea Region that may have regional importance for all river-sea systems around the Black Sea. The following topics are part of the Strategic Research and Innovation Agenda (SRIA). Selected and adapted ones could become the basis for future priority research and innovation topics dedicated to river-sea management at the wider Black Sea scale.

- 1.** Restoring ecosystem continuity throughout the Danube River – Danube Delta – NW Black Sea system
- 2.** Pathways of transport and accumulation of litter(plastic) and pollutants (including emerging pollutants (e.g. nanoparticles) in the Danube – Black Sea system and their impacts on local ecosystems
- 3.** Ensuring safe and continuous navigation while restoring the Danube green corridors (with strengthened natural protection from floods)
- 4.** Resource Recovery from Eutrophication in the Danube – Black Sea interaction zone
- 5.** Dealing with Eutrophication in the Danube – Black Sea interaction zone by using algae as 2nd Generation Biofuels
- 6.** Using and developing latest Earth observation (EO) technologies coupled with in situ measurements for an upgraded Danube – Black Sea environmental monitoring system
- 7.** Developing sustainable agricultural practices (crops, husbandry) while obtaining good water quality in the Danube - Black Sea system
- 8.** Understanding river-sea interaction processes in the Danube Delta transitional environments
- 9.** Managing dams and reservoir lakes as critical sediment traps and bottlenecks for river habitat continuity
- 10.** Restoring natural habitats in the Danube floodplains – Danube Delta and lagoon systems as support for fisheries revival
- 11.** Understanding Climate change impacts on the Danube - Black Sea System by applying the latest generation of models
- 12.** Managing water resources for human use by implementing new technologies for water abstraction, purification, distribution, collection, treatment, and reuse
- 13.** Harmonising scientific data and monitoring protocols in the Danube River - Danube Delta – BlackSea continuum

- 14.** Unfolding the cultural heritage potential of the Danube - Black Sea system by using scientific tools
- 15.** Reducing future risks of invasive species in the Danube River- Danube Delta – Black Sea system
- 16.** Innovative means to harness water energy
- 17.** Promoting Cross Border Environmental Stewardship through Citizen Science
- 18.** Dynamics of Dissolved Organic Matter in the Danube River – Danube Delta – Black Sea System

NB: DANCERS is the acronym of the "DANube macroregion: Capacity building and Excellence in River Systems (basin, delta and sea)" FP7 CSA Project (Grant agreement no: 603805 / 2013)

All project deliverables are freely downloadable at

<http://www.dancers-fp7.eu/project-outcomes/>