



CESAB
CENTRE FOR THE SYNTHESIS AND ANALYSIS
OF BIODIVERSITY

NAVIDIV

Inland navigation infrastructures and biodiversity: impacts and opportunities for waterwayscape management

PRINCIPAL INVESTIGATORS:

Alienor JELIAZKOV - INRAe (FR) /
Jean-Nicolas BEISEL - ENGEES/
CNRS (FR)

POSTDOC:

Aaron SEXTON - FRB-CESAB (FR)

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11 PARTICIPANTS :

CYBILL STAENTZEL - ENGEES (FR) /
EVELYNE TALES - INRAE (FR) /
CHRISTIAN WOLTER - LEIBNIZ-
INSTITUTE OF FRESHWATER ECOLOGY
AND INLAND FISHERIES (GR) / **SONJA
JÄHNIG** - LEIBNIZ-INSTITUTE OF FRESH-
WATER ECOLOGY AND INLAND FISHERIES
(GR) / **KARL M. WANTZEN** - UNESCO,
UNIVERSITY OF TOURS (FR) / **VANESA
MARTÍNEZ FERNÁNDEZ** - NATION-
AL MUSEUM OF NATURAL SCIENCES (ES)
/ **CARLOS GARCIA DE LEANIZ** -
SWANSEA UNIVERSITY, CSAR (UK) / **TOM
BUIJSE** - DELTARES (NL) / **ASTRID
SCHMIDT-KLOIBER** - UNIVERSITY OF
NATURAL RESOURCES AND LIFE SCIENCES,
BOKU (AT)

Facing global change, inland navigation transport is a promising sustainable transport alternative to help reduce greenhouse gas emissions. **However, the development of infrastructures to promote this transport modifies eco-morphological characteristics of rivers with serious risk of disturbance of their biodiversity.**

NAVIDIV investigate how to mitigate the impacts of navigation and inland navigation infrastructures on biodiversity. After a literature state-of-the-art, we will synthesize and analyse data from multiple European sources (including 30 spatio-temporal datasets) to quantify the effects of and inland navigation infrastructures on biodiversity of fish, aquatic macroinvertebrates, and riparian/floodplain vegetation across various contexts and scales. The project will evaluate the general effects of navigation intensity depending on land-cover types (agricultural vs. urban vs. natural habitats) and territorial characteristics (e.g. protected areas) and investigate underlying mechanisms to identify management compromises.

NAVIDIV will provide useful synthetic knowledge and guidelines to prioritize management and restoration actions considering the various human uses of waterwayscapes.

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CESAB (CEntre for the Synthesis and Analysis of Biodiversity) is FRB's flagship program and an internationally renowned research center whose objective is to implement innovative work to synthesize and analyze existing data sets in biodiversity research.

