

RESPONSE

TOWARD A RISK-BASED ASSESSMENT OF MICROPLASTIC POLLUTION IN MARINE ECOSYSTEMS

Our Research Objectives

Identify possible accumulation zones in European coastal ecosystems by studying hydrological transport dynamics.

Analyse the abundance and type of micro- and nanoplastics found in marine species by sampling representative marine animals.

Identify how plastic particles, along with other environmental stressors, affect the health of species and food webs.

Synthesise this research into a quantitative model for assessing the potential impact of microplastics in the marine environment, considering the occurrence of multiple stressors.

Set up an analytical Smart Hub that will share innovative technologies and application expertise for analytical needs, along with contributing to methodological improvement and training.

Increase public understanding of the ecological risk of microplastics and nanoplastics and increase public action.

WP2

The Biological Fate of Microplastics and Nanoplastics

WP3

Biomarkers in the Ecological Risk of Microplastics

WP4

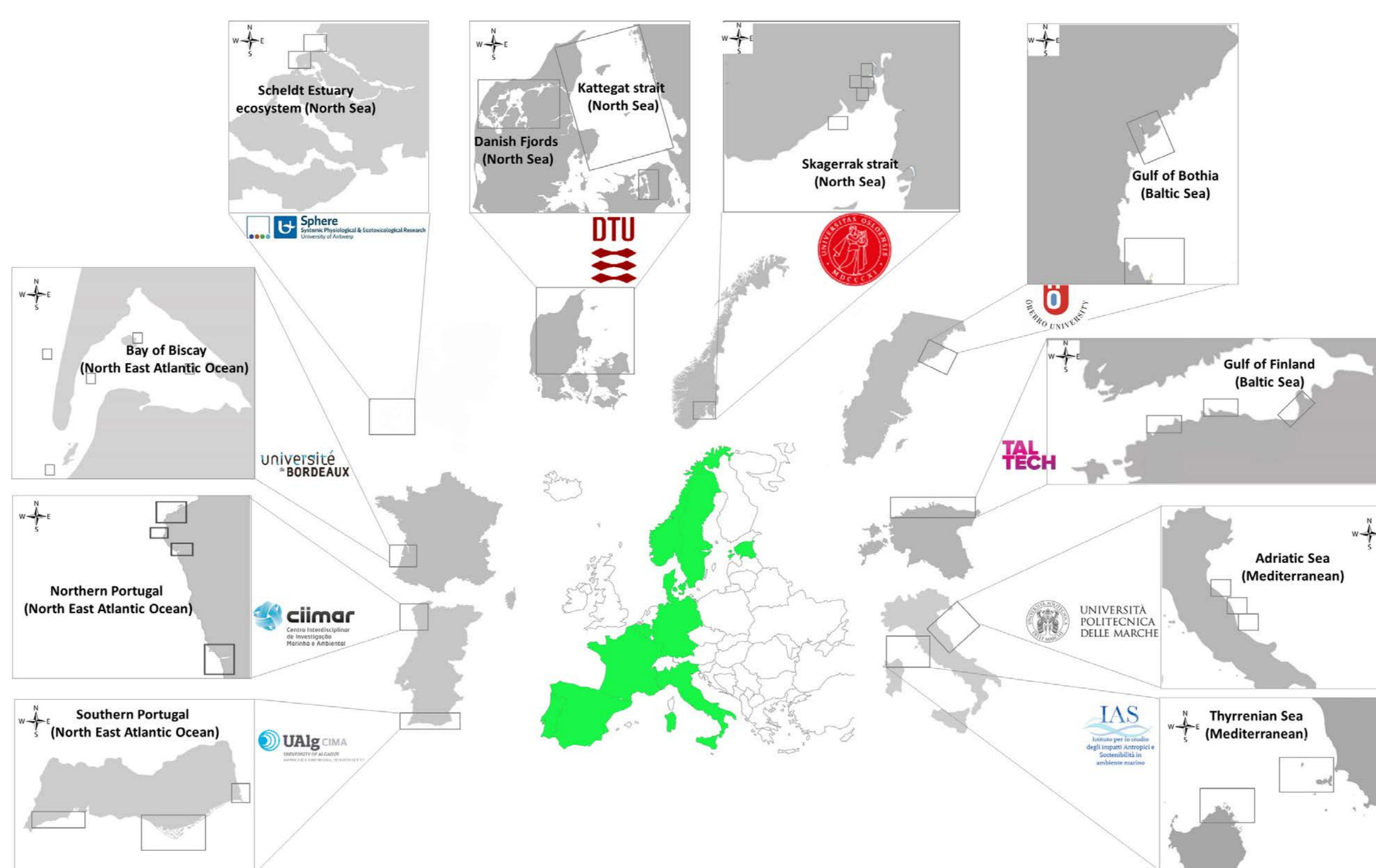
Bioassays in the Ecological Risk of Microplastics

WP5

Effects of Microplastics on Ecological Functioning

WP1

Monitoring microplastics in European Coastal Areas



RESPONSE brings together 14 partners across Europe with expertise in oceanography, environmental chemistry, ecotoxicology, experimental ecology and modelling for assessing micro- and nano-plastic ecological risk.

WP7

Smart-Hub of Analytical Facilities

WP6

Weight Of Evidence Model for Microplastics

WP8

Communication and Dissemination

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