Description

PRIORITY stands for 'Plastics monitoRIng detectiOn RemedIaTion recoverY'. PRIORITY is a science and technology research network focused on developing, implementing, and consolidating strategies to tackle the global challenges of micro- and nanoplastics in the environment.

This COST Action combines expertise in chemistry, physics, life science, engineering, standards, economy, and law. The network creates a robust infrastructure for scientific communication, exchange, and collaboration to foster new research activities and citizen science.

PRIORITY aims to enhance the technical standards for sampling and analysis of micro- and nanoplastics in the environment, to develop a more reliable assessment of exposure and biological effects, and to advance activities in terms of environmental remediation and recovery.

The Action will support the harmonization of European regulation associated with microplastics. It will assist the European Commission in critical aspects of environmental and ecosystems protection, food safety, and life science.

Objectives

The overarching aim of PRIORITY is to create and coordinate a transnational and multidisciplinary team of scientists and experts to address the challenges in the field of environmental nano- and microplastic pollution. This aim will be achieved through collaboration, sharing of know-how, discussions and training activities.

The Action has a total of 17 specific objectives divided into 10 objectives on research coordination and 7 objectives on capacity building.

Action Leaders

Dr **Stefania FEDERICI**
Action Chair

Dr **Aleksandra TUBIĆ**
Action Vice Chair

www.ca-priority.eu

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PRIORITY

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Plastics Monitoring Detection Remediation Recovery

Description of Working Groups

PRIORITY is organised in seven specific while highly interconnected WGs, with clear objectives and activities, namely:

WG1 – Impacts and risks on human health and environment related to N/MPs

Objectives: To identify, develop and hence increase the capability of European and other countries to have standardized hazard testing methods N/MPs for different environmental matrices.


Dr **Mónica Amorim**
WG1 leader


Dr **Gabriela Kalčíkova**
WG1 co-leader

WG2 - Monitoring and sampling MPs

Objectives: To help European and developing Countries to assess harmonized monitoring methods and sampling procedures for the different compartments and environmental matrices.


Dr **Liam Morrison**
WG2 leader


Dr**Zahida Ademovic**
WG2 co-leader

WG3 - Instrumentation, modelling, data evaluation, software, & analytical procedures

Objectives: To understand the potentiality of the tools available for the analysis, to help European and developing Countries to assess harmonized methods, to facilitate and encourage access to the EU research infrastructures and facilities.


Prof **Wolfgang Fritzsche**
WG3 leader


Prof **Moritz Bigalke**
WG3 co-leader

WG4 - Nanoplastics

Objectives: To define suitable and validated analytical methods for detection and quantification of NPs; To produce hazard and fate data accounting for toxicity aspects and interaction of NPs with biomes.


Dr **Denise Mitrano**
WG4 leader


Dr **Nanna Bloch Hartmann**
WG4 co-leader

WG5 - Remediation, recovery & development of sustainable alternative to plastic materials

Objectives: To identify reuse, recycling, and recovery alternatives for environmental plastics; To define technological approaches for new recycling and recovery alternatives.


Dr **Mariacristina Cocca**
WG5 leader


Mr **Jean-Marie Raquez**
WG5 co-leader

WG6 – Metrology and standardization

Objectives: To validate protocols for sample preparation, both in the range of N/MPs, by means of interlaboratory studies and comparison with different independent techniques.


Dr **Thomas Meisel**
WG6 leader


Dr **Denise Mitrano**
WG6 co-leader


Prof **Joydeep Dutta**
WG6 co-leader

WG7 - Develop new strategies to increase the synergies with society and education

Objectives: To develop tools to increase awareness in society and education about the environmental issues in particular related to N/MPs


Dr **Milica Velimirovic Fanfani**
WG7 leader


Dr **Nanna Bloch Hartmann**
WG7 co-leader

Are you Interested in Taking Part?

The COST Action **PRIORITY** welcomes research-active scientists working in the field. There are many ways to get involved.

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