Plastics workstream: achievements 2019/2020

Implementation: September 2019

Speaker:
Katrin Wendt-Potthoff, UFZ

January 27/28, 2021

Main outcome: Two guidelines

Sponsored by Norway

Water Pollution by Plastics and Microplastics:

A Review of Technical Solutions from Source to Sea

← Published in 2020

Josiane Nikiema, Javier Mateo-Sagasta, Zipporah Asiedu, Dalia Saad and Birguy Lamizana

In press ↓

Monitoring Plastics in Rivers and Lakes:

Guidelines for the Harmonization of Methodologies

Katrin Wendt-Potthoff, Tamara Avellán, Tim van Emmerik, Meike Hamester, Sabrina Kirschke, Danielle Kitover and Christian Schmidt

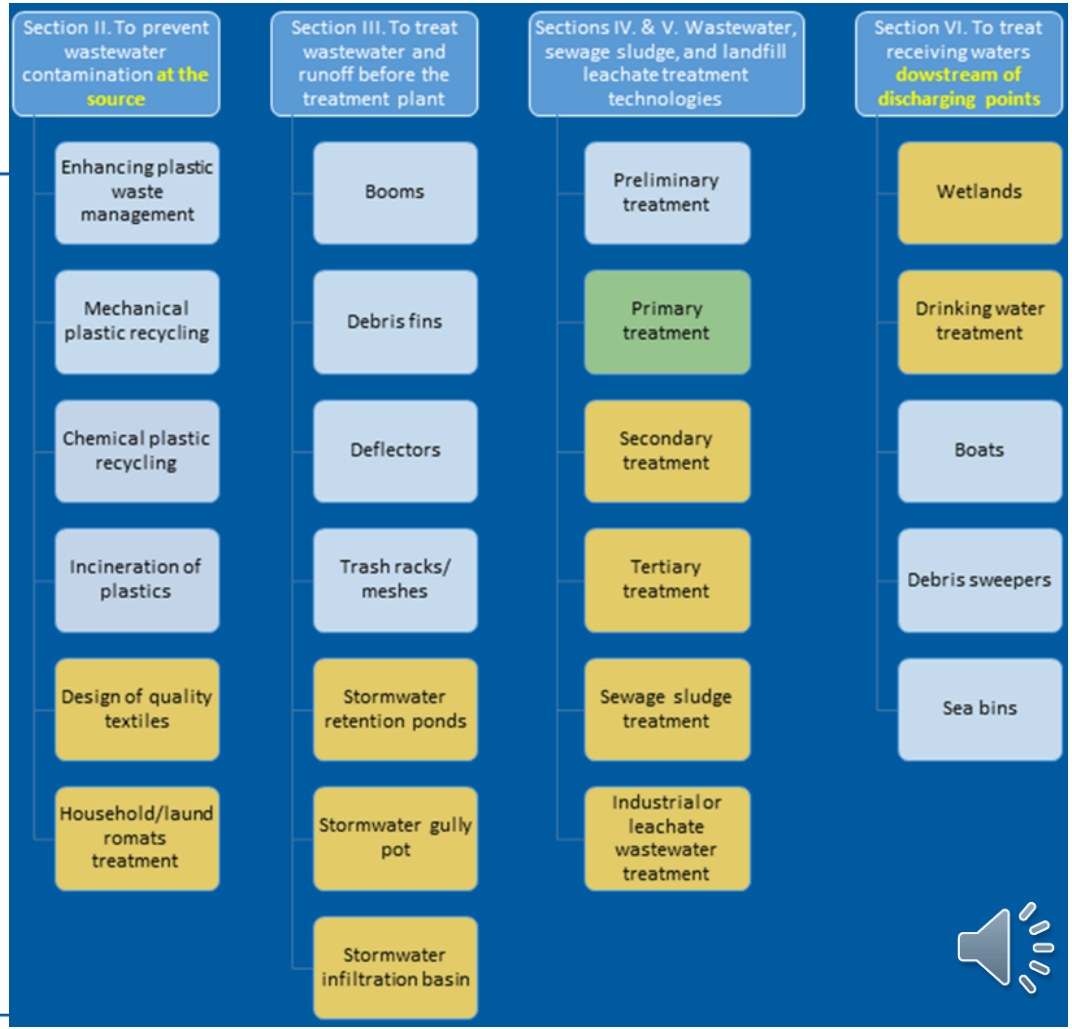
Solutions and technologies for waste management

… address four sections of the water system

Macroplastics only

Microplastics only

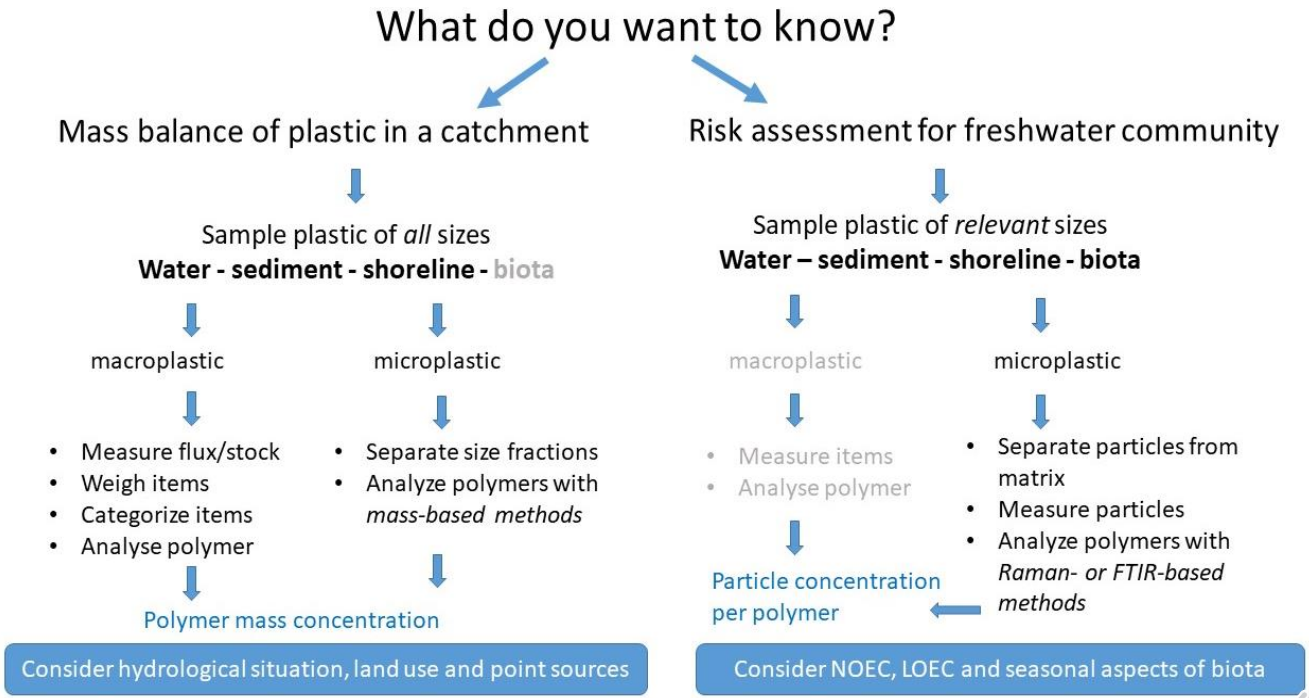
Both macro- and microplastics



Types of plastic-related assessments in freshwater environments

Depending on the expected outcome or decision to be taken

- Light grey elements are considered less important for the specific purpose
- Hydrological situation: weather extremes and dams are important

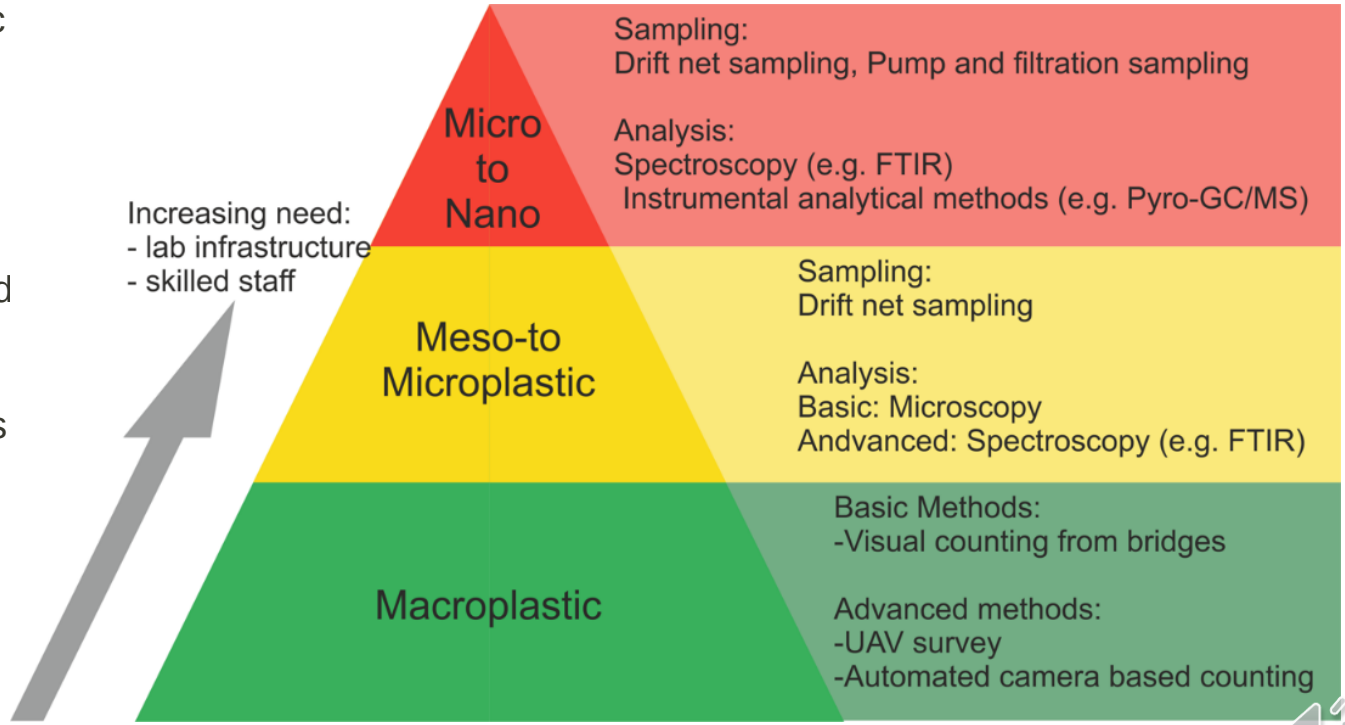


NOEC / LOEC: no observed effect /lowest observed effect concentration

Sampling and analysis methods for freshwaters from macro- to microplastics

Decreasing particle size, increasing complexity

- Macro- and mesoplastic sampling can be supported by itizen scientists
- The need for lab infrastructure and skilled personnel are driving the costs and the time needed to obtain results



Perspective of the Plastics workstream

- Renew workstream for 2021
- Advertise and pilot the guidelines (networks, conferences)
- Initiate and plan case studies in different selected catchments in a participative manner (seed funding application)
- Collect feedback from stakeholders (intensity also depending on additional funding)

Thanks for your attention!