

# **Microplastics Advanced Research & Innovation Initiative (MARII) - A Global Perspective -**

**June 2023**





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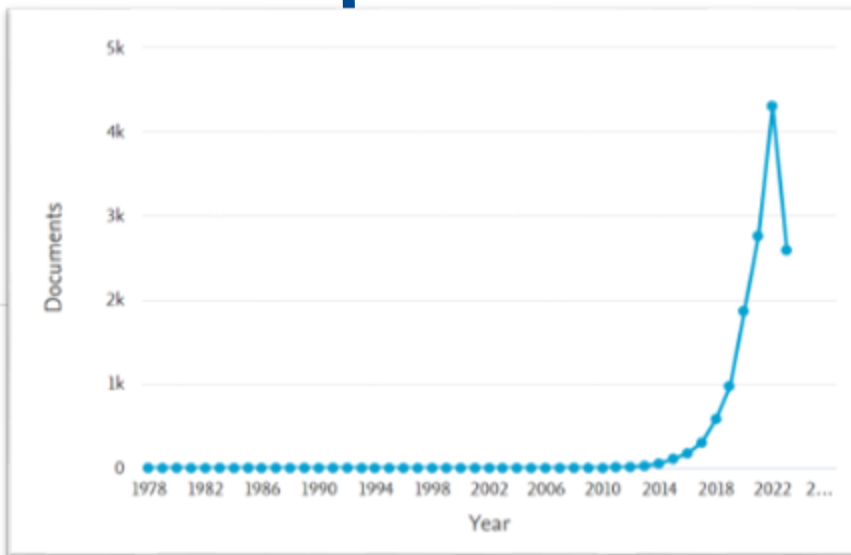
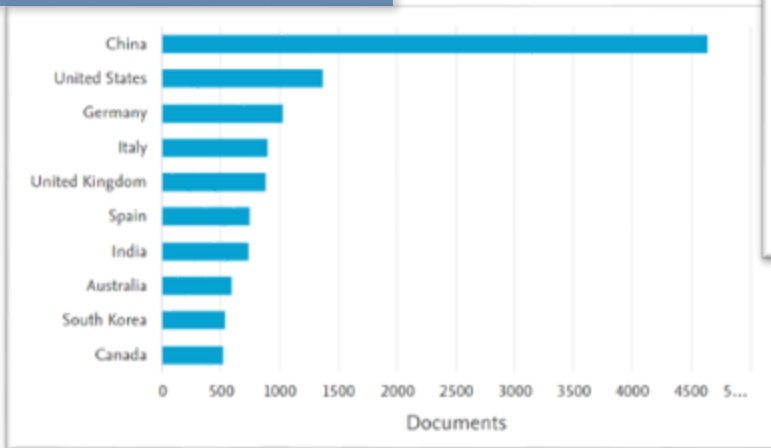
# Issue Landscape

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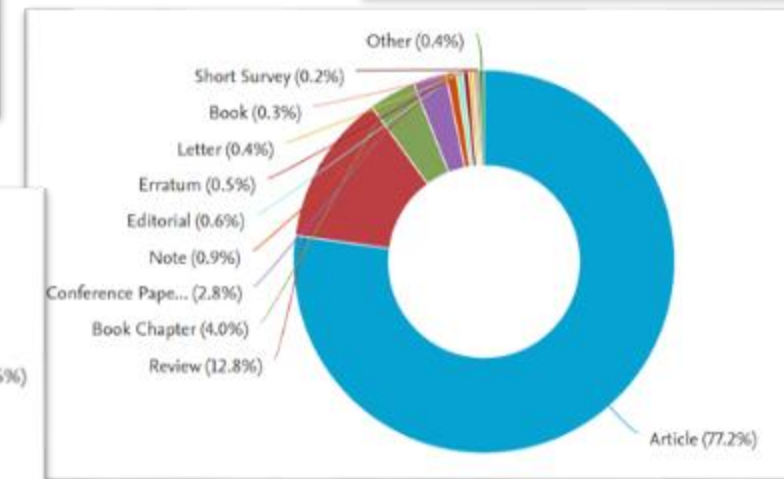
# Increased Microplastics Information

Documents by Country

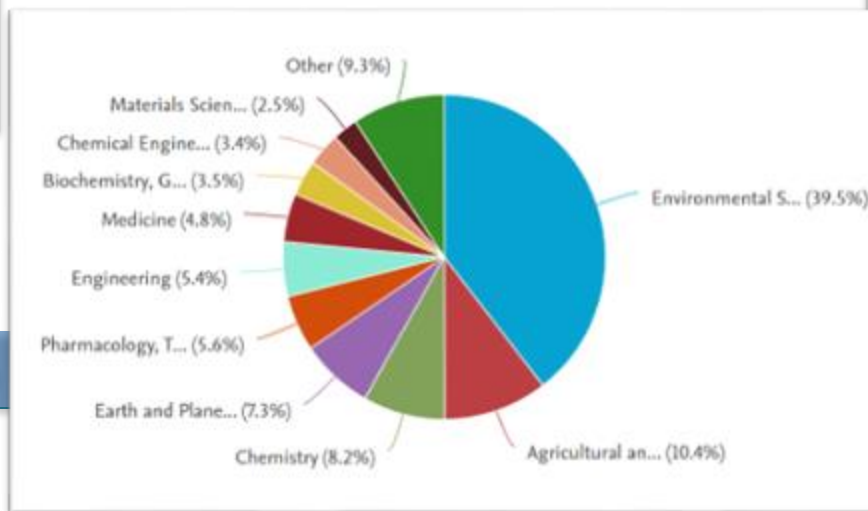


Documents by Year

Documents by Type



Documents by Subject Area



# Some Regulatory Initiatives

- **Europe**
  - Restriction on Intentionally released MP, Initiative on unintentionally released MPs
- **U.S. State Activity**
  - California, Hawaii, Minnesota – testing protocols for drinking water
- **Stockholm**
  - Persistent Organic Pollutants Review Committee (UV328)
- **Plastics Treaty**
  - Microplastics is part of the discussions and of the UNEP options paper for an Internationally Legally Binding Instrument on Plastics Pollution

# Need for Risk Based Approaches

- We need to have science developed when regulatory and public interest is sustained

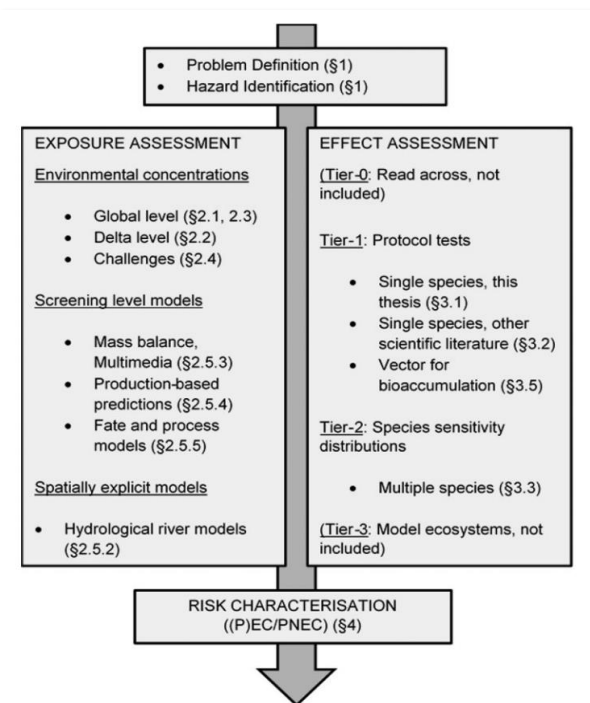
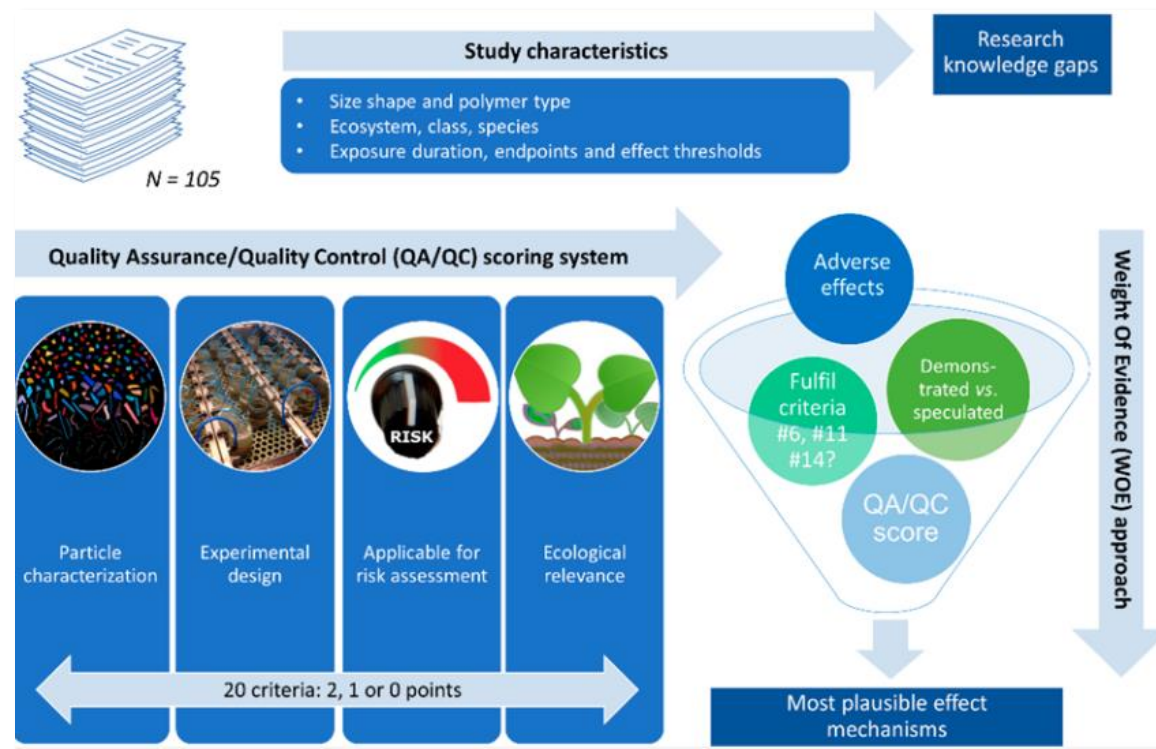


Figure 1. Tools for exposure and effect assessment as part of the general environmental risk assessment framework for micro- and nanoplastic. Based on Koelmans et al. (2017). The symbol § marks the section in which each tool is discussed.



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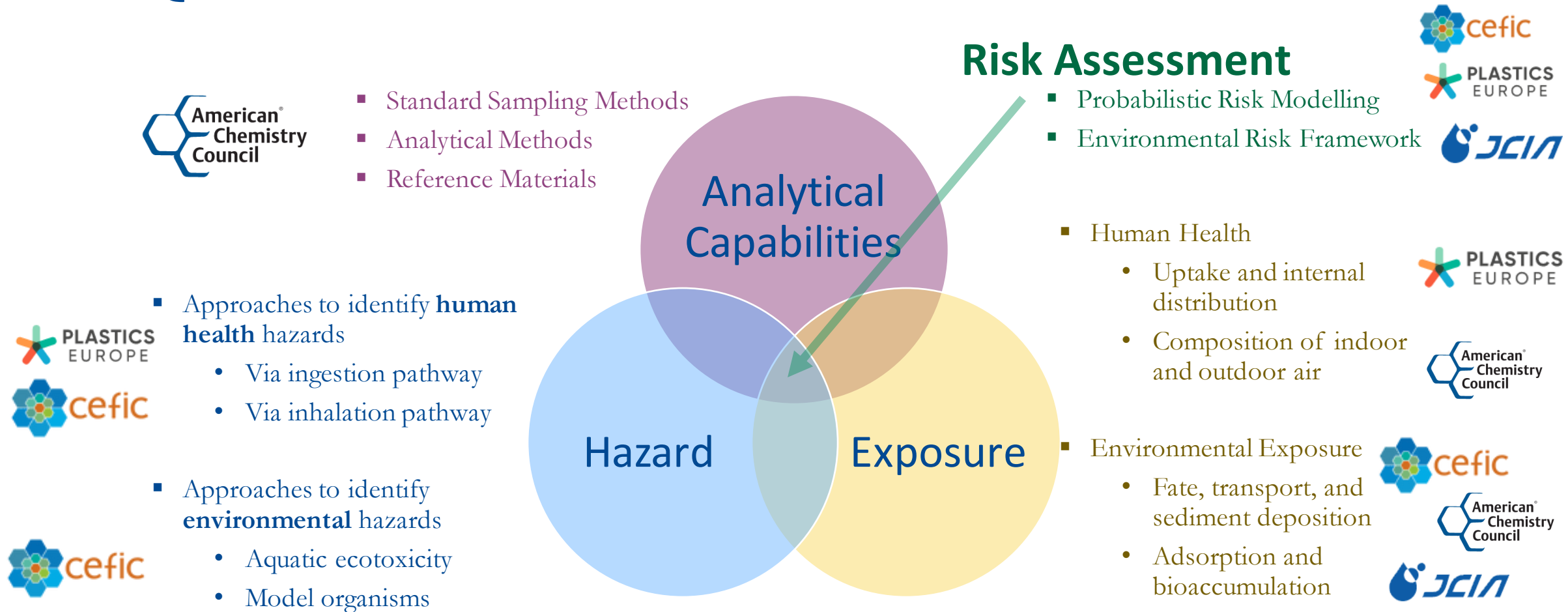
# Closing the Research Gaps

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# Information Needs for Microplastics

- **Standardized methods and high-quality information is necessary to inform risk-based decisions**
  - QA/QC Needs - Sampling Protocols, Analytical Standards, Reference Materials
  - Exposure - Routes of Exposure and Environmental Fate
  - Hazard - Human v. Ecological Targets
  - Risk Assessment - Framework to Inform Regulatory Actions

# Translating Information Needs into a Quantitative Risk Assessment Framework





# Microplastics Advanced Research and Innovation Initiative

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# Ongoing Industry Microplastics Research

## ICCA Microplastics Cross-Cutting Group

Coordination

Management

Global Timelines

ACC



CEFIC



PEu



JCIA



MARII

Microplastics Advanced  
Research and Innovation  
Initiative

Scientists in

Academia

Agencies

Industry





# A global forum on exchange for microplastics research

**MARII is a global forum for industry, academic, agency, and renowned research institutions to exchange on microplastics research.**



**Exchange forum for industry on microplastic research**

Provide the full picture on microplastics research across industries and regions.



**Organize global meetings to facilitate information exchange**

Annual or bi-annual meetings adjoining SETAC or SOT



**Engagement with world-renowned academics to complement industry research**

Demonstrate active commitment by industry on the research topic.



# Where to meet MARII

## Society of Toxicology Annual Meeting

- March 2023 - Symposium on Microplastic Risk Assessment
- Microplastic Meet and Greet Reception

## Workshop on Human Health

- May 2023 – Sessions on Human Health & Microplastic by Plastic Europe's Brigid

## SETAC Europe 33<sup>rd</sup> Annual Meeting

- May 2023 - Three sessions supported
- Microplastic Meet and Greet Reception

## Second MARII Symposium

- June 12-13 – Focus on progressing risk assessment

## SETAC North America Annual Meeting

- November 12-16

**More to come in 2024...**



International Council of  
Chemical Associations

12-14 JUNE 2023

# 2023 ICCA MARI workshop

Alexis Royal Sonesta Hotel  
**Seattle, USA**

#microplastics



**Thank you**

**...and all global collaborators!**