Current Project Overview

area, etc.) and compilation of issues



- Background: There is concern about the impact of microplastics (MicP) on organisms and ecosystems. <u>There is a need for quantitative data that sheds light on hazards and risk as much as possible.</u>
- Objective: After collecting scientific knowledge on the MicP exposure and environmental fate, hazards to aquatic organisms, among others, the project <u>aims to establish a preliminary risk assessment method</u> to quantitatively assess the impact on organisms and ecosystems and thereby <u>estimate the risk so as to inform government decision-making in the future.</u>

 (Although there are concerns regarding the impact of MicP particles and chemicals on organisms and ecosystems, this study focused on the effects of particles on aquatic organisms.*

Trial risk assessment [Risk Assessment Committee] Trial and study of the risk assessment methodology for MicP using Particle effects exposure and hazard results Chemical MicP effects substances (additives) Cross-sectional study for trial risk assessment (adsorbed) [Expanded Subcommittee (2024) / Joint Subcommittee (2023)] *Primarily anticipate the impact of Improvement of the risk assessment methodology for MicP using exposure particles on aquatic organisms (e.g., fish) and hazard results Summary of the respective tasks towards improving exposure and hazards Hazards Physicochemical properties Exposure [Hazard Assessment Subcommittee] [Exposure Subcommittee] Examination of key considerations for literature review and ☐ Summary of the estimation method for fine MicP (particle size compilation of issues pertaining to review <330 µm) and compilation of issues Study towards the refinement of conversion with parameters Examination of effect concentrations of MicP in aquatic comparable to hazards (particle number, mass, volume, surface organisms [fish, crustacea, other (bivalves)]