

Making the Norwegian fishing industry more sustainable

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Why is this important?

- Plastic waste from the fishing industry = 20% of marine waste
- Chemicals of plastics = potentially severe health impacts
- **SDG targets 12 and 14:** “Responsible consumption and production” and “Life below water”



Figure 2: Lost fishing gear at shoreline (NTNU, 2024)

Project and master thesis

- Collaboration between NTNU and NORSUS and DSolve
- Vision: Mapping additives in plastic components of fishing gear to learn how they affect the marine environment
- Will only look at conventional plastics

Current findings

- Data on additives is hard to find
- Current impact categories does not include marine ecotoxicity



Summerjob at NORSUS



- NORSUS – Norwegian Institute of Sustainability Research
- Researching the bioavailability and marine toxicity of lead
- Results: Lead is highly toxic and should be monitored



DSOLVE - CRI

- CRI = Center of Research-based Innovation
- Vision: Reducing plastic waste and the issues that follow caused by the fishing industry
- Biodegradable, non-biodegradable and sustainable
- Research area 5: Circularity of biobased, biodegradable and non-degradable plastic for fisheries and aquaculture