

Analysing effectiveness pursuant to UNEA Resolution 4/6 paragraph 7(d)

Webinar 2: Ad Hoc Open-Ended Expert Group on Marine Litter and Microplastics



Introduction – Microplastics

- 1. The context
- 2. Method
- 3. Scope
- 4. Operational controls Bowtie analysis
- 5. Management controls Indicator analysis



Pilot: Microplastics

Context

- Existing response option
- Policy hierarchy:
 - National level
 - Primary role = implementation at the national level
 - Implementing BEP, adopting policy & legislation and industry standards
 - Monitoring
 - National reporting of monitoring results



Pilot: Microplastics

Method

Pressure	Example	Relevant life cycle phase	
Production losses	 pre-production pellets 	life cycle phase – source material (includes	
		recycling), product manufacture	
Intentionally added	 microbeads in cosmetics 	life cycle phase – product manufacture	
Abrasion	car tyres	life cycle phase – use	
Abrasion	• textiles	life cycle phase – use, end-of-life	



Pilot: Microplastics

Scope

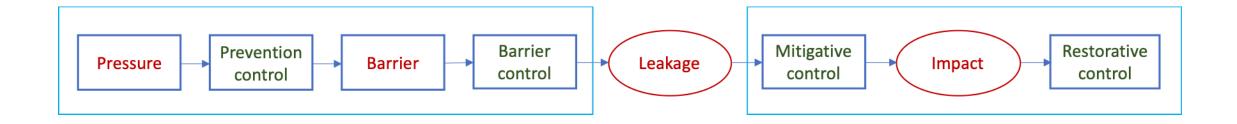
- Operation Clean Sweep (pellet loss)
- Legislation to ban microbeads in cosmetics (Canada, USA)
- Voluntary phase out of microbeads (Australia)
- General microplastics management EU, NOAAA, national action plans



Operational controls - Bowtie analysis

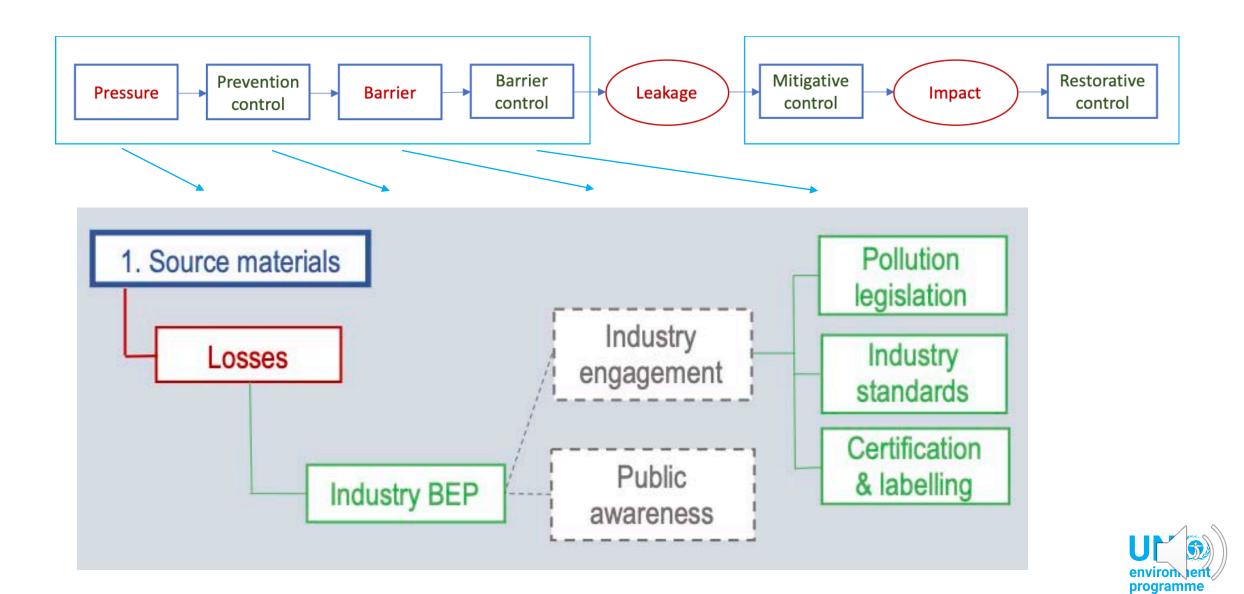
For each life cycle phase

- 1. Source materials
- 2. Product manufacture
- 3. Use
- 4. End-of-Life
- 5. Post event mitigation and restoration

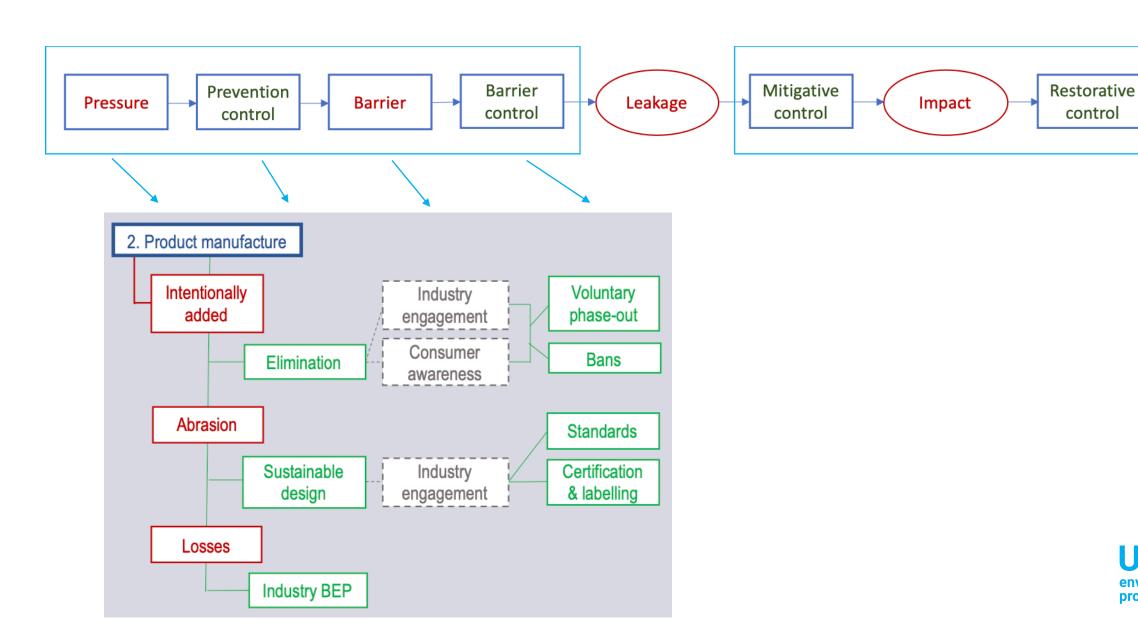




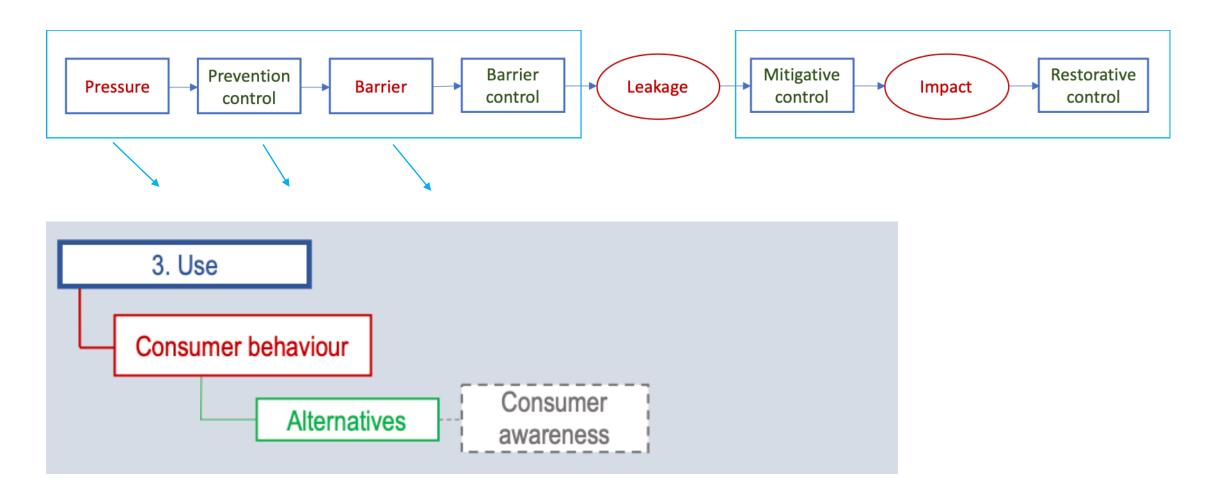
Life cycle phase: Source materials



Life cycle phase: Product Manufacture

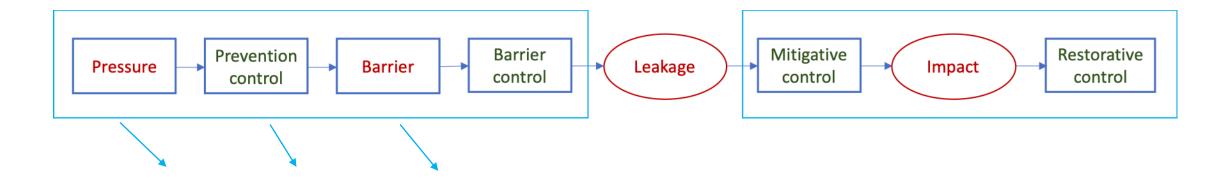


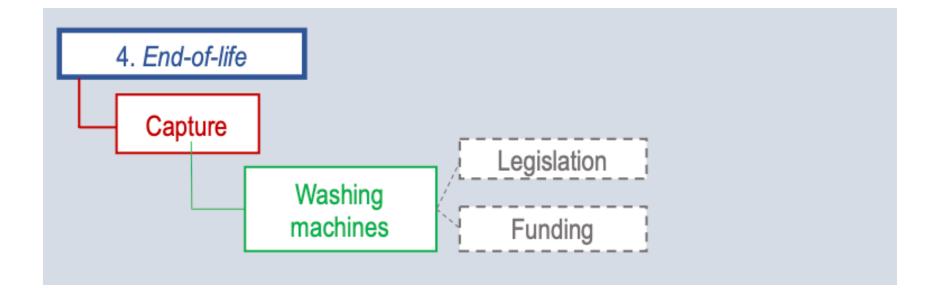
Life cycle phase: Use





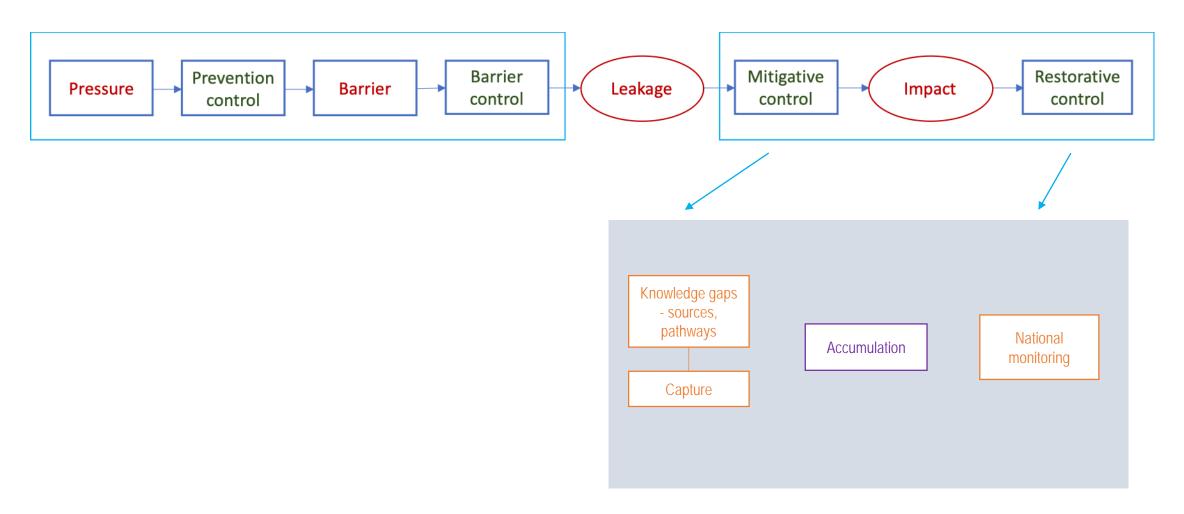
Life cycle phase: End-of-Life







Post event mitigation & restoration





Indicator analysis - Management controls

Findings

Introductory overview

- Primary objective elimination of discharge or reduction to a minimum
- Types of actions preventive, mitigative, monitoring and evaluation
- Geographic range land-based
- Environmental zones marine areas, some freshwater, early recognition of soil and air.
- Generally binding, with some voluntary programmes agreed with industry



Indicator analysis – Management controls

Findings

Indicator Type	Indicator	Description	Evaluation
INPUT	Scope	International, regional or national	National
	Maturity	Operational years - high, medium, low	Medium
	Scale	Level of adoption	Low
PROCESS	Governance	Management targets	Low
		Operational targets	Low (applies mostly to microbeads and pellets)
	Management	Local capacity building	Yes
		Ongoing funding secured	Yes - limited
		Monitoring in place	Yes - limited at national level
		Reporting in place	Yes – inferred in general reporting
			requirements
		Review process defined	Yes - inferred in general reporting
		-	requirements
	Co-operation	Domestic stakeholder inclusion	Yes – limited to microbead bans
		International capacity building	Yes - limited
	Co-benefits	Environmental	Yes
		Social	Yes – limited
		Economic	Yes – limited
PERFORMANCE	Outputs	Qualitative and avantitative	Yes – not clearly reported
	Outcomes	Qualitative and quantitative	Yes – mostly for leakage rates.



Thank you



Send comments to:

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