## Informing (plastic) policy through science

#### Tobias Dan Nielsen | CUSP workshop | 7 February 2023

#### **European Environment Agency**

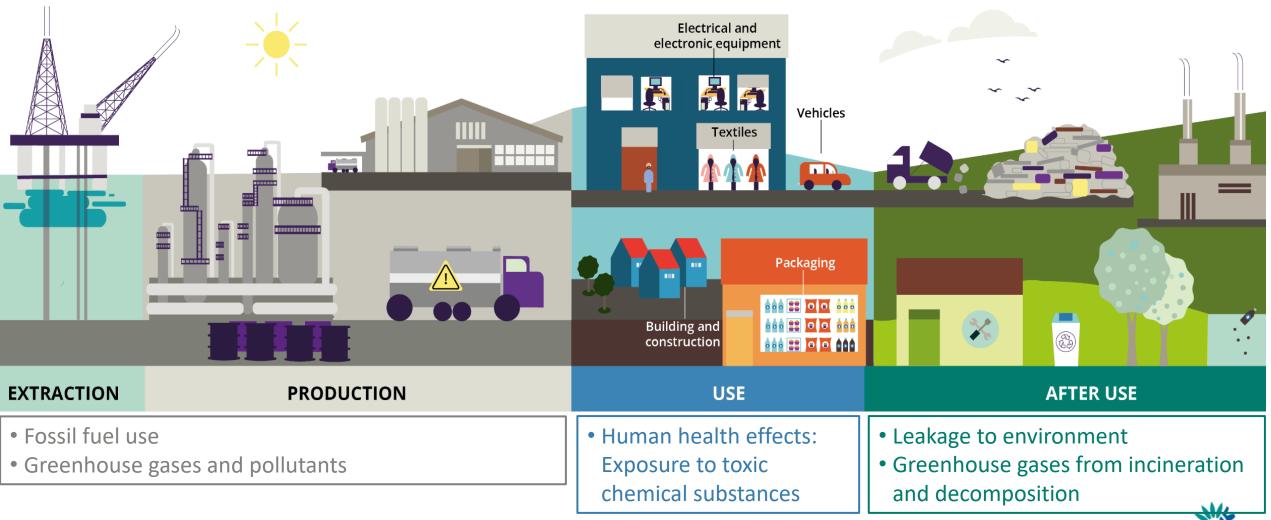




#### Areas of work

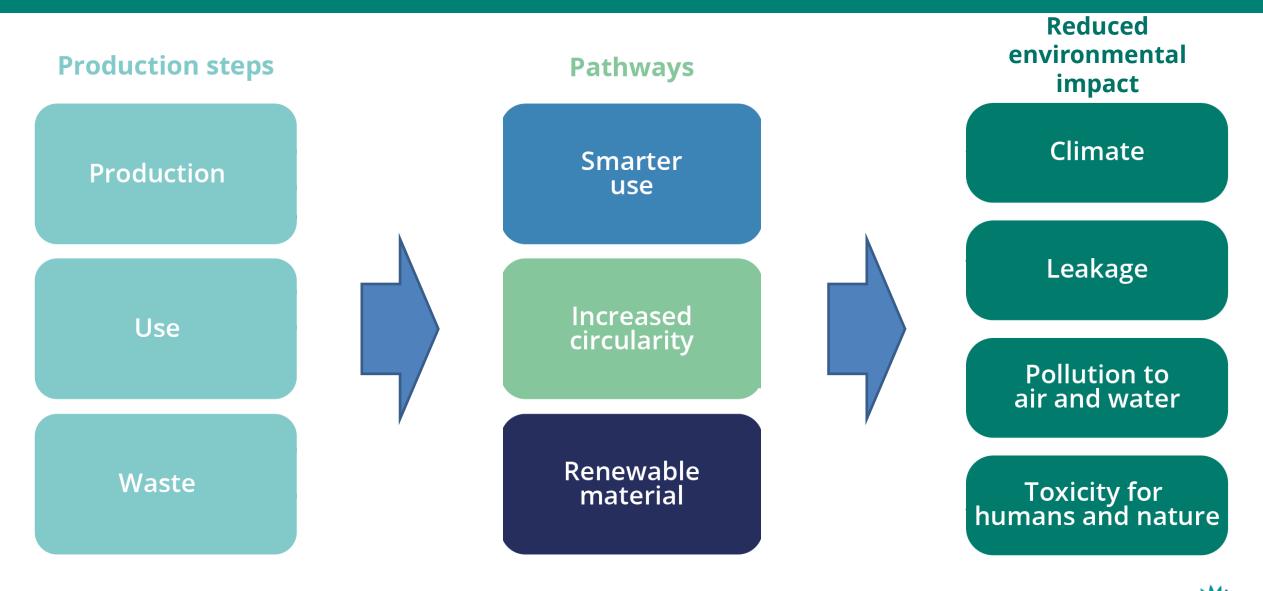


## Environmental and climate impacts across the plastic life cycle



Source: EEA (2020) Plastics, the circular economy and Europe's environment.

#### Pathways towards a circular plastic system



Sources: EEA (2020) Plastics, the circular economy and Europe's environment.

European Environment Agency

## Sources of microplastic pollution



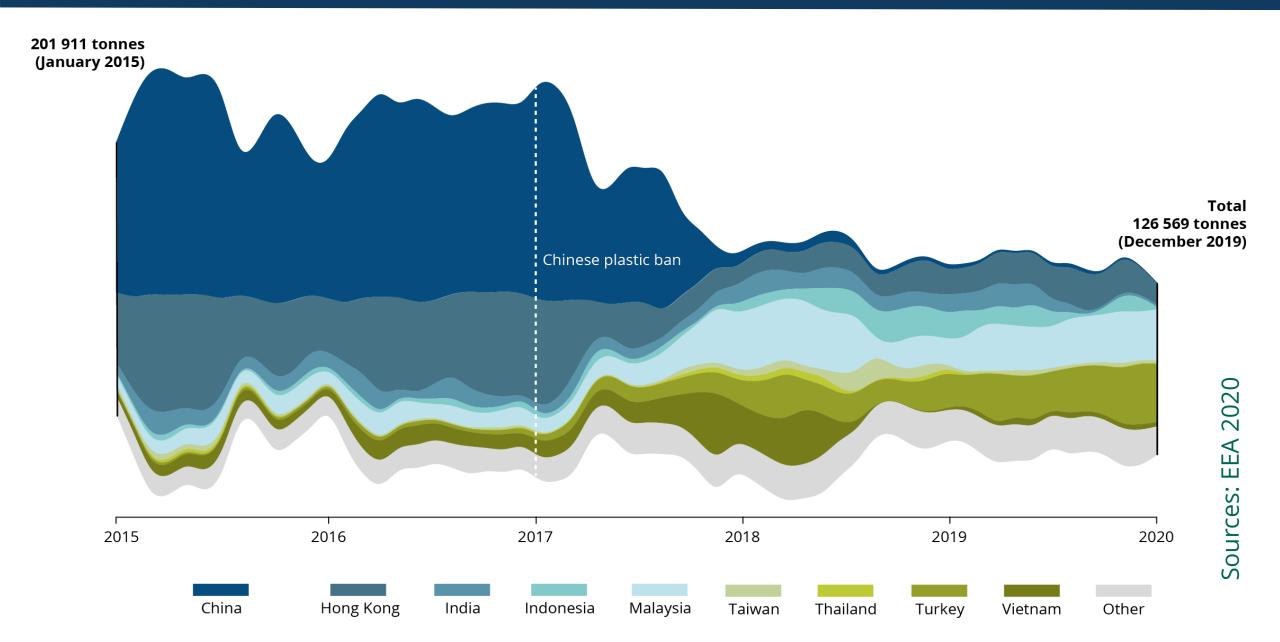
## Non-packaging plastics (74%)



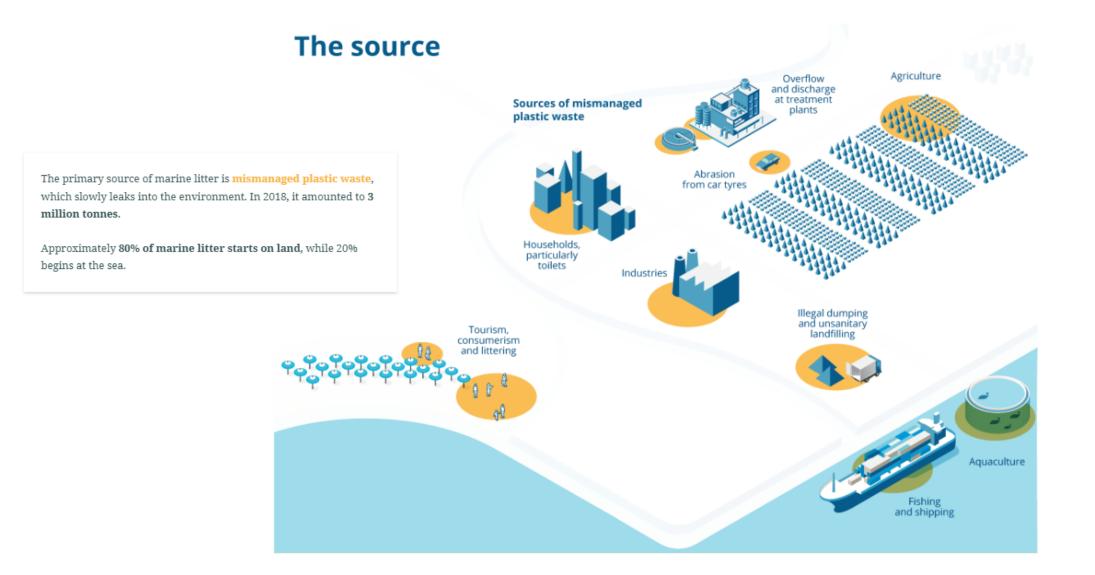
Sources: EEA 2023; Plastic Europe 2022

Plastics demand Plastic waste collection

#### **Plastic waste exports**



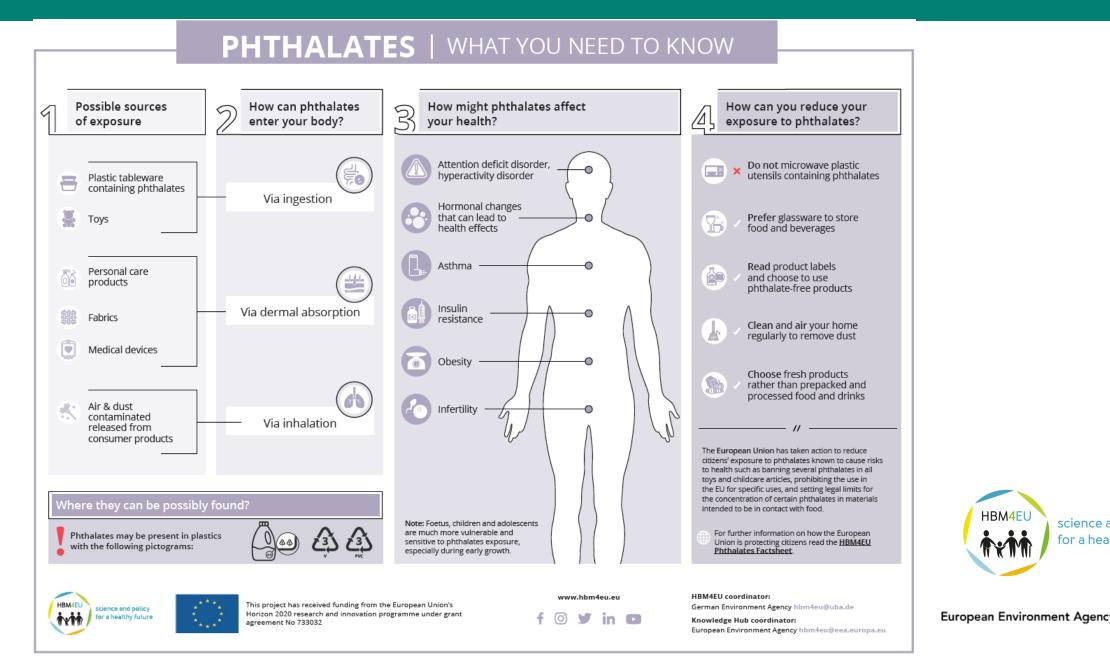
#### From source to sea — The untold story of marine litter



European Environment Agence



### Impact on human health (Phthalates)





science and policy for a healthy future

#### Input to policy processes

- Part of the EU delegation at INC
- Close interaction with DG ENV plastics teams (and others)
- Cooperation with EIONET (states)
- Engage with civil society and industry actors.

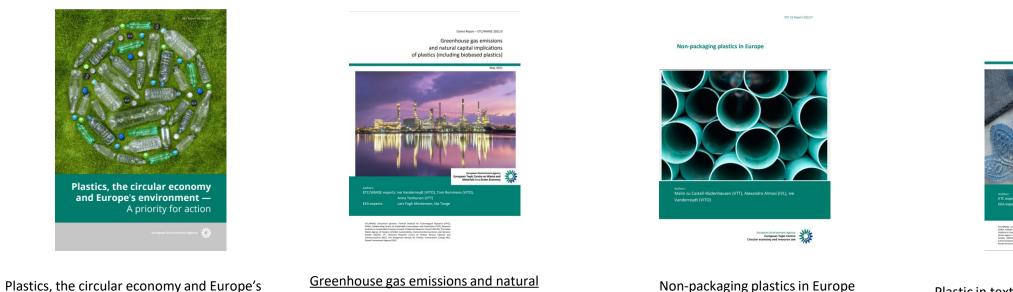


## What do we do want from academia, NGOs, and industry

- Overview of new topics, impactful findings, and info on topics
- Intersections between circular plastics, chemicals & health, leakage, env pressures...
- Data streams/indicators for measuring plastics and plastic impacts.
  - Circular Metrics Lab for plastics.
  - Input plastic treaty (data, monitoring techniques, ...)
- More knowledge on exposure and key risks associated with (MPNs)
  - Thresholds
  - Overview of exposure (human)
  - Impacts (beyond smoking guns)
  - Participation in expert events
- What works in terms of preventing release
  - Assessments and good examples from countries



# Thank you

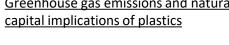


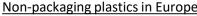
environment — European Environment Agency



Marine LitterWatch – Citizens helping to monitor marine litter



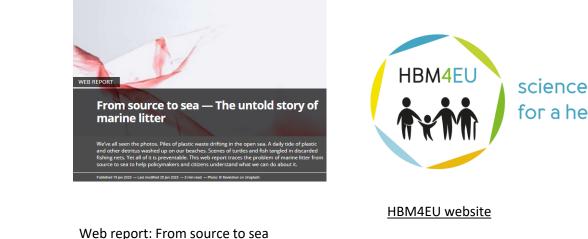




Plastic in textiles: potentials for circularity and reduced environmental and climate impacts



Plastic in textiles: potentials for circularity and reduced environmental and climate impacts



science and policy for a healthy future

**European Environment Agency** 

Zero Pollution website