



State of the
science
on **plastic**
chemicals

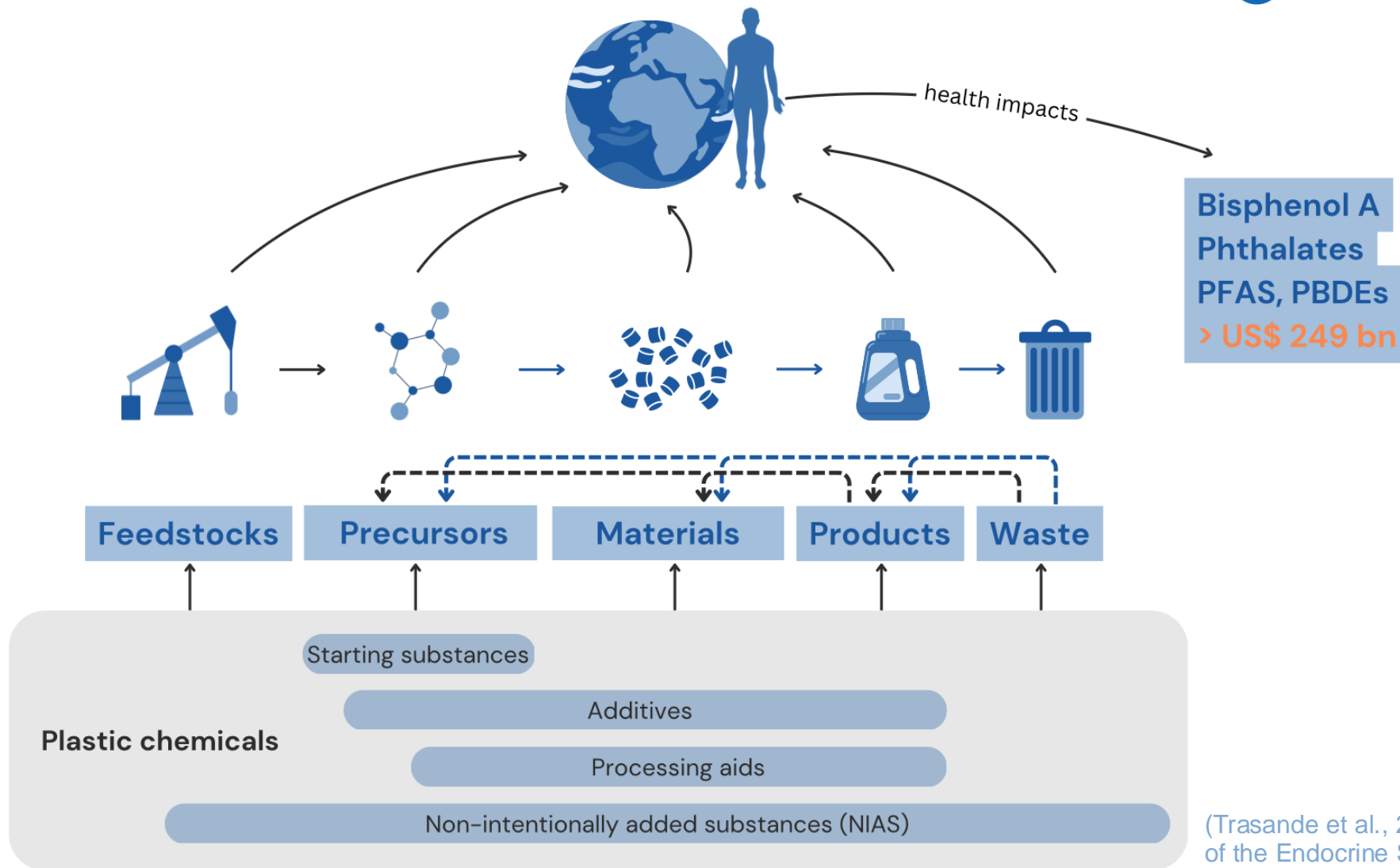
Identifying and addressing chemicals and polymers of concern

Global momentum to address problem

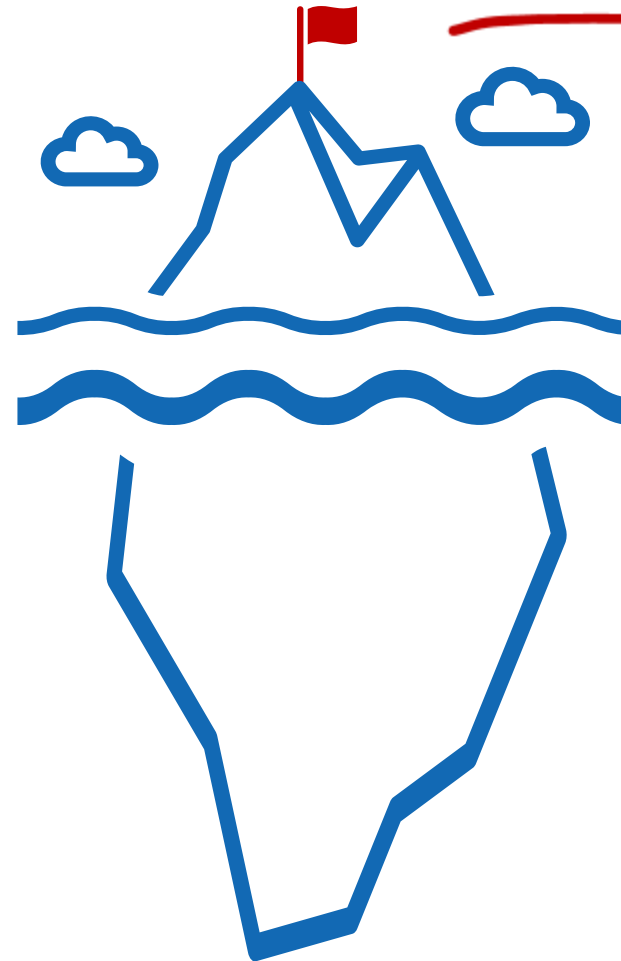
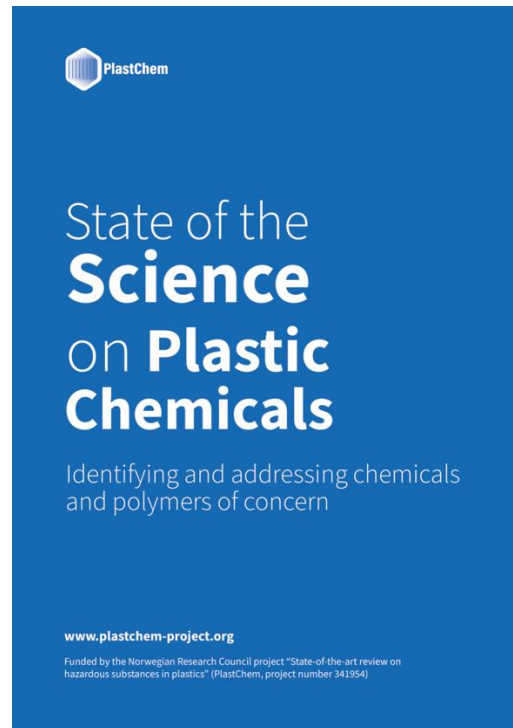


(Duncan Moore for UNEP)

Why do plastic chemicals matter?



Plastic chemicals – An iceberg problem

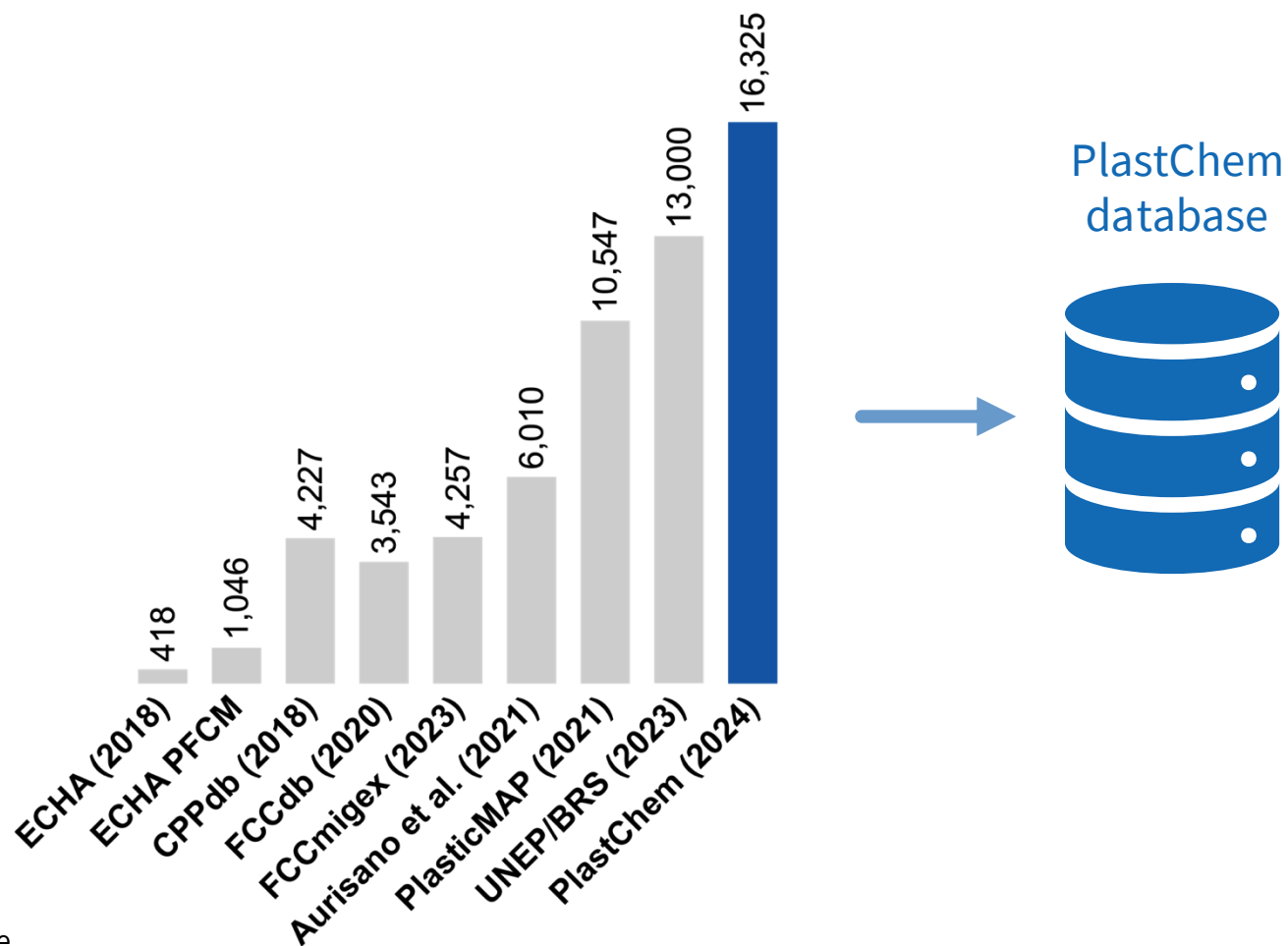


Bisphenol A
Few phthalates



Plastic **chemicals**:
What are the **key findings**?

More than 16 000 known plastic chemicals



Based on scientific literature

Identifying chemicals of concern



The 4 PBMT hazard criteria

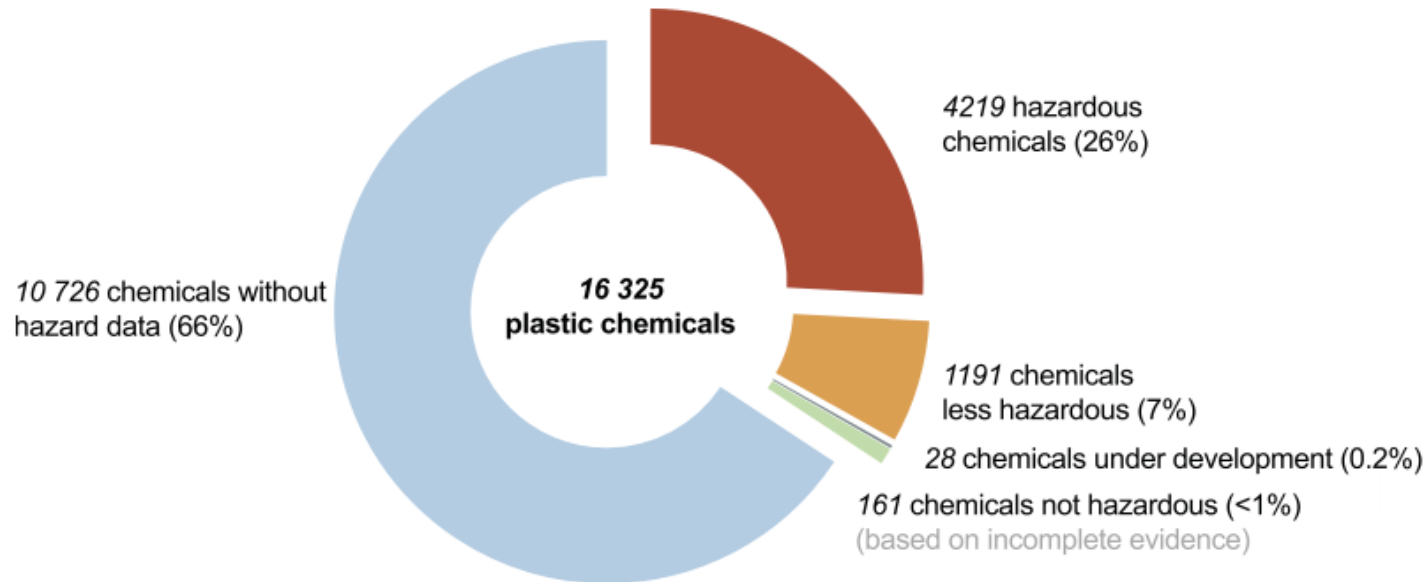
Persistence

Bioaccumulation

Mobility

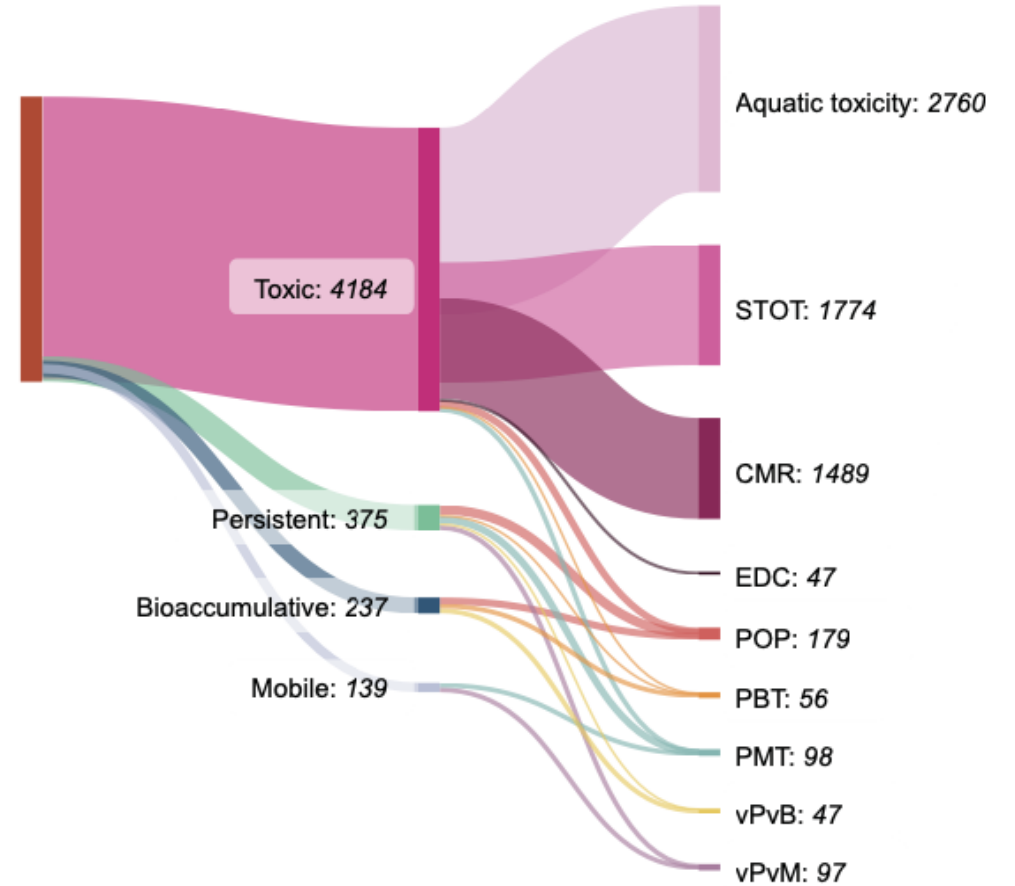
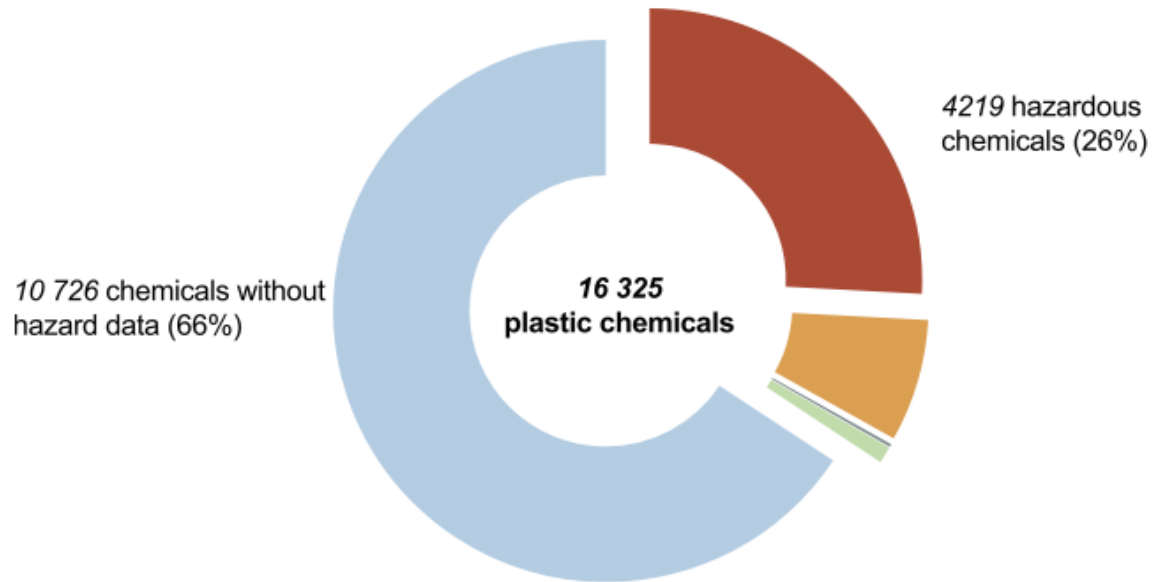
Toxicity

At least 4200 chemicals of concern



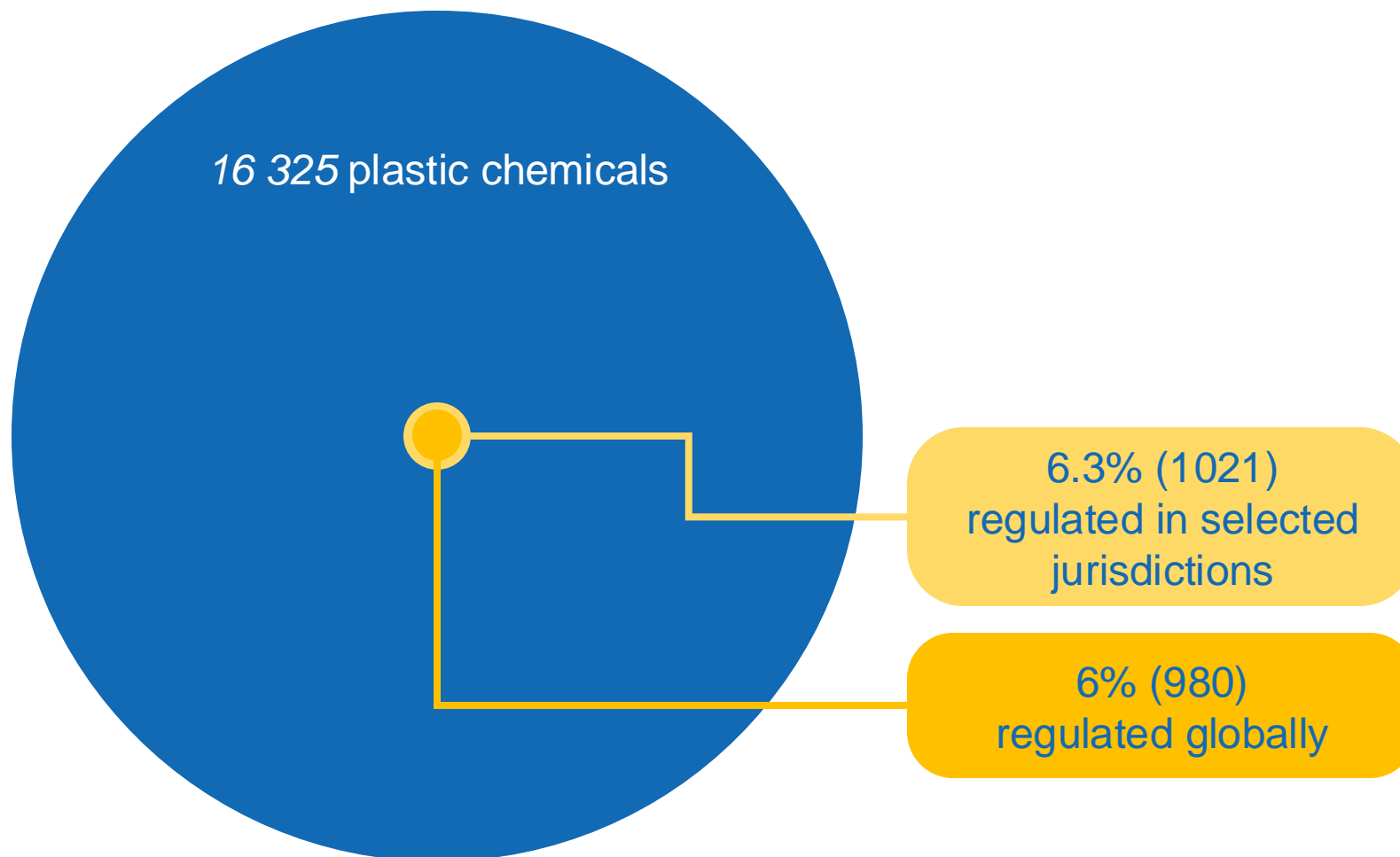
Based on GHS/CLP regulations

At least 4200 chemicals of concern



Based on GHS/CLP regulations

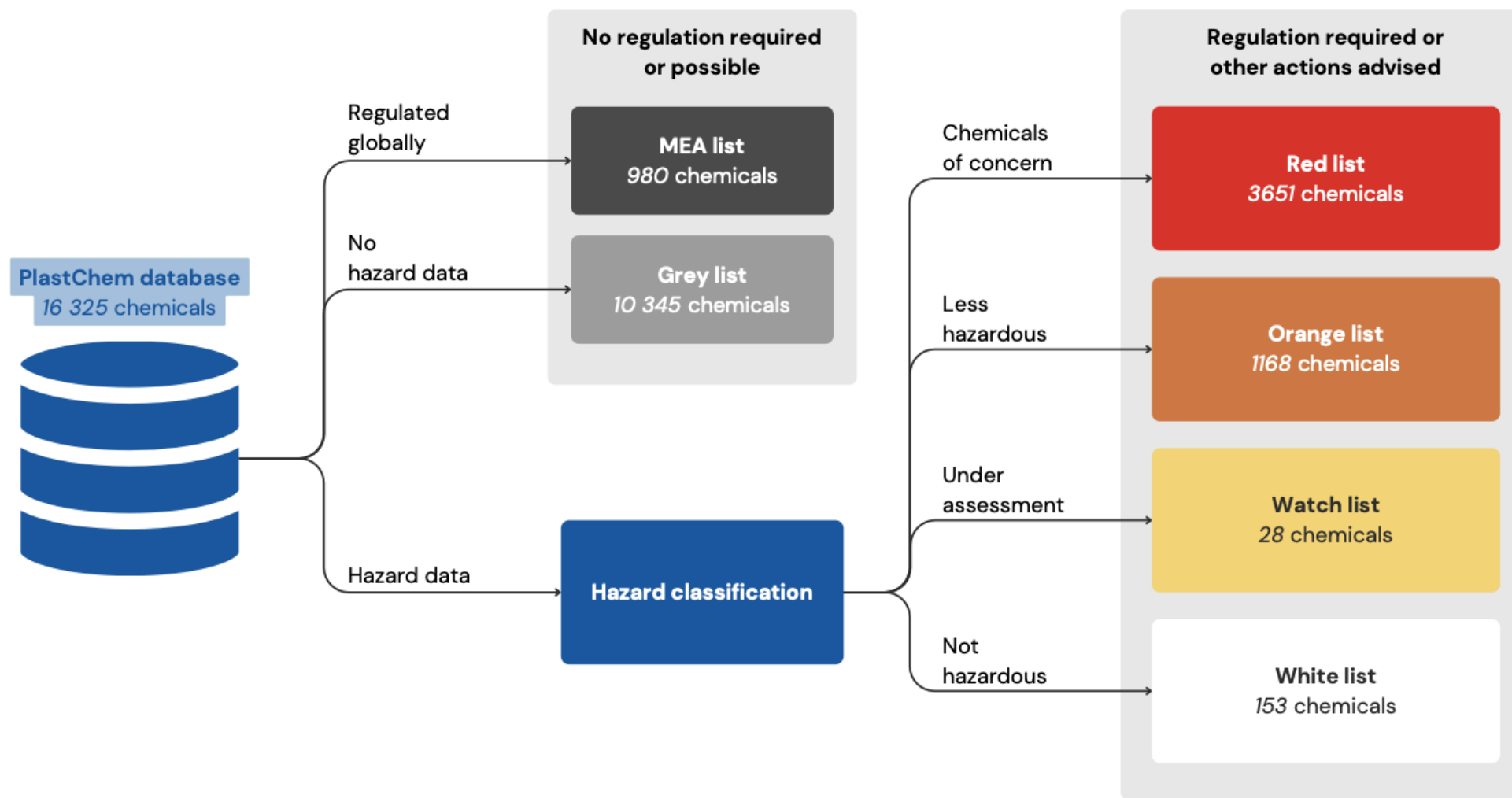
Global governance gap persists





Plastic **chemicals**: What can **policymakers** do?

Listing plastic chemicals of concern



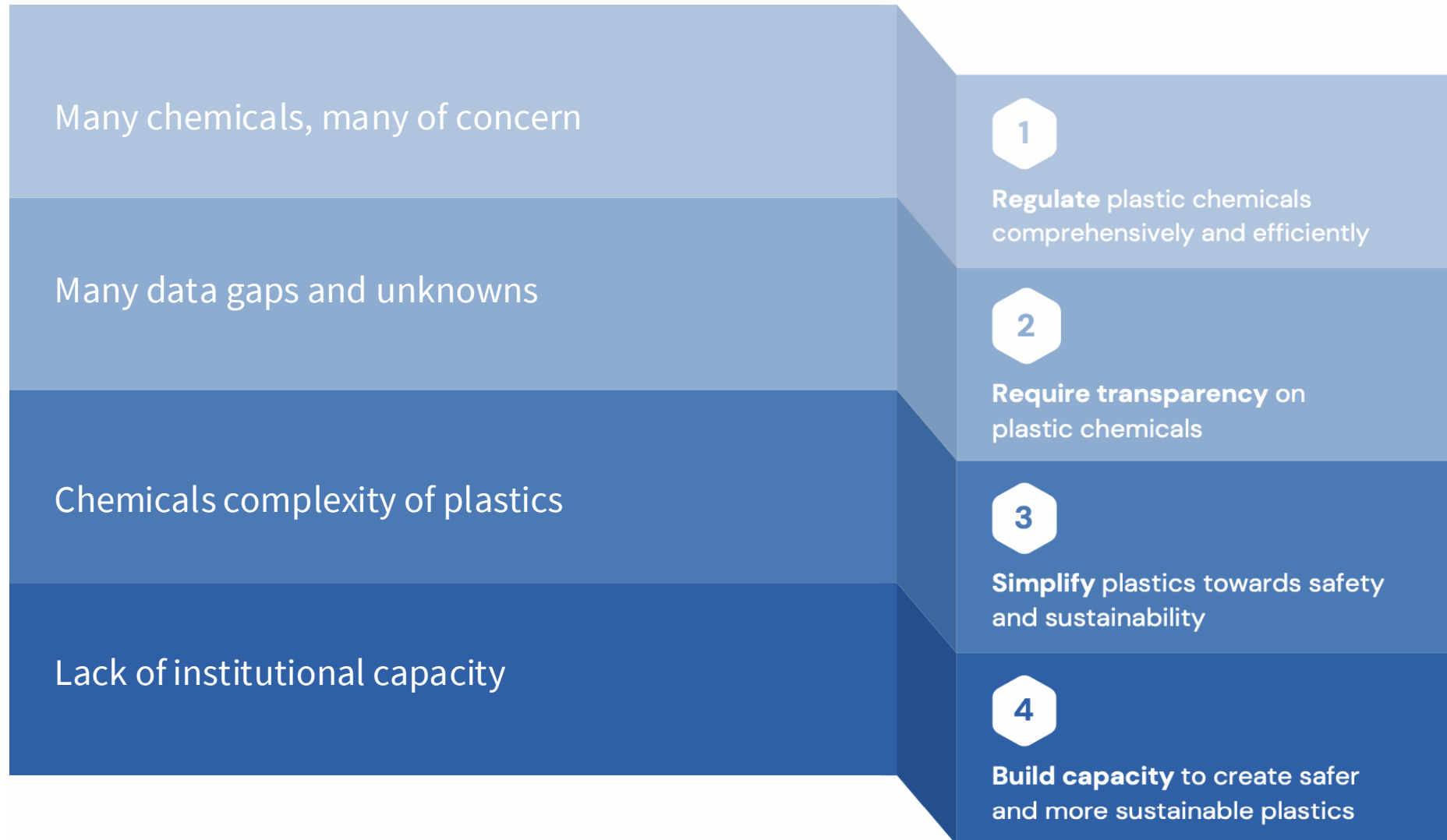
15 priority groups of plastic chemicals



- » Aromatic amines
- » Alkyl aldehydes
- » Alkylphenols
- » Salicylate esters
- » Aromatic ethers
- » Bisphenols
- » Phthalates
- » Benzothiazoles
- » Benzotriazoles
- » Organometallics
- » Parabens
- » Azodyes
- » Aceto/benzophenones
- » Chlorinated paraffins
- » PFASs

At least 40% of members in each group are of concern

Four key recommendations





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