

PlastChem | State-of-the-science of hazardous chemicals in plastic

A sneak preview of our upcoming report

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**The Research
Council of Norway**

In a nutshell



Outputs

State-of-the-science report on hazardous chemicals in plastic



PlastChem database



January 2024

Building on UNEP report

- up-to-date evidence base of plastic chemicals and polymers
- groups of chemicals based their structure
- criteria and conceptual framework to address chemicals of concern
- priority lists of chemicals and polymers
- policy needs

Team



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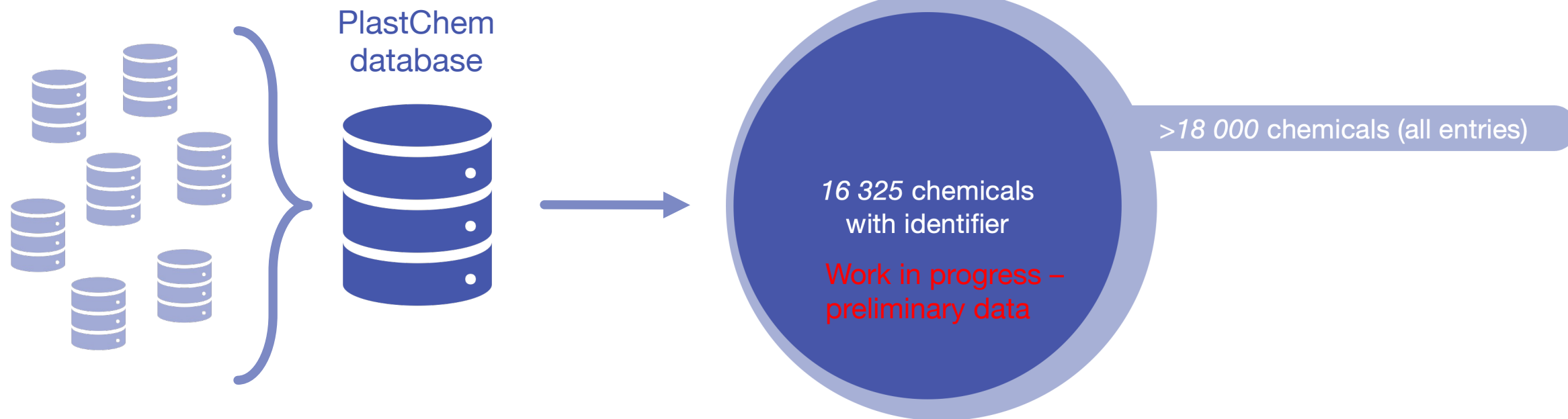


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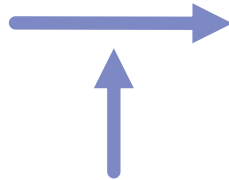
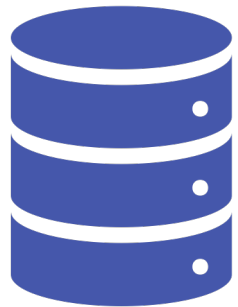
Universe of known plastic chemicals



Chemicals of concern in plastics



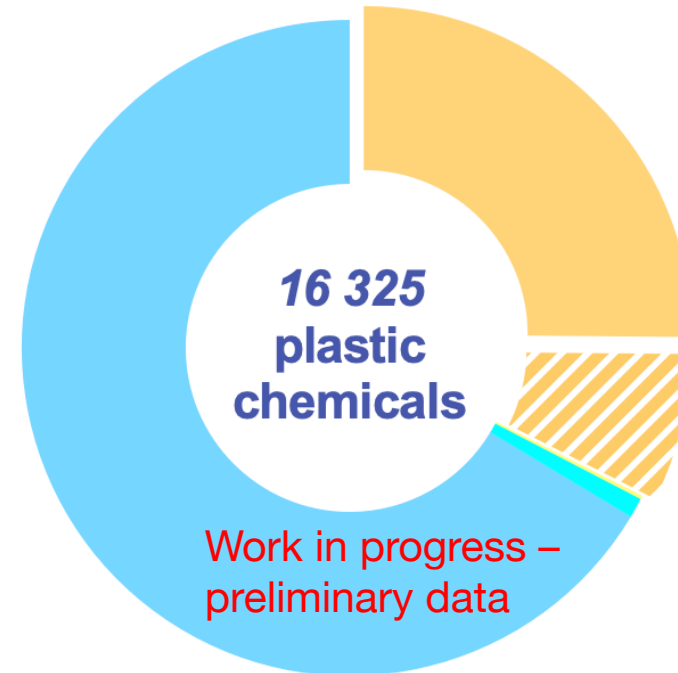
PlastChem
database



10 839 (66%)
not assessed



Persistence
Bioaccumulation
Mobility
Toxicity

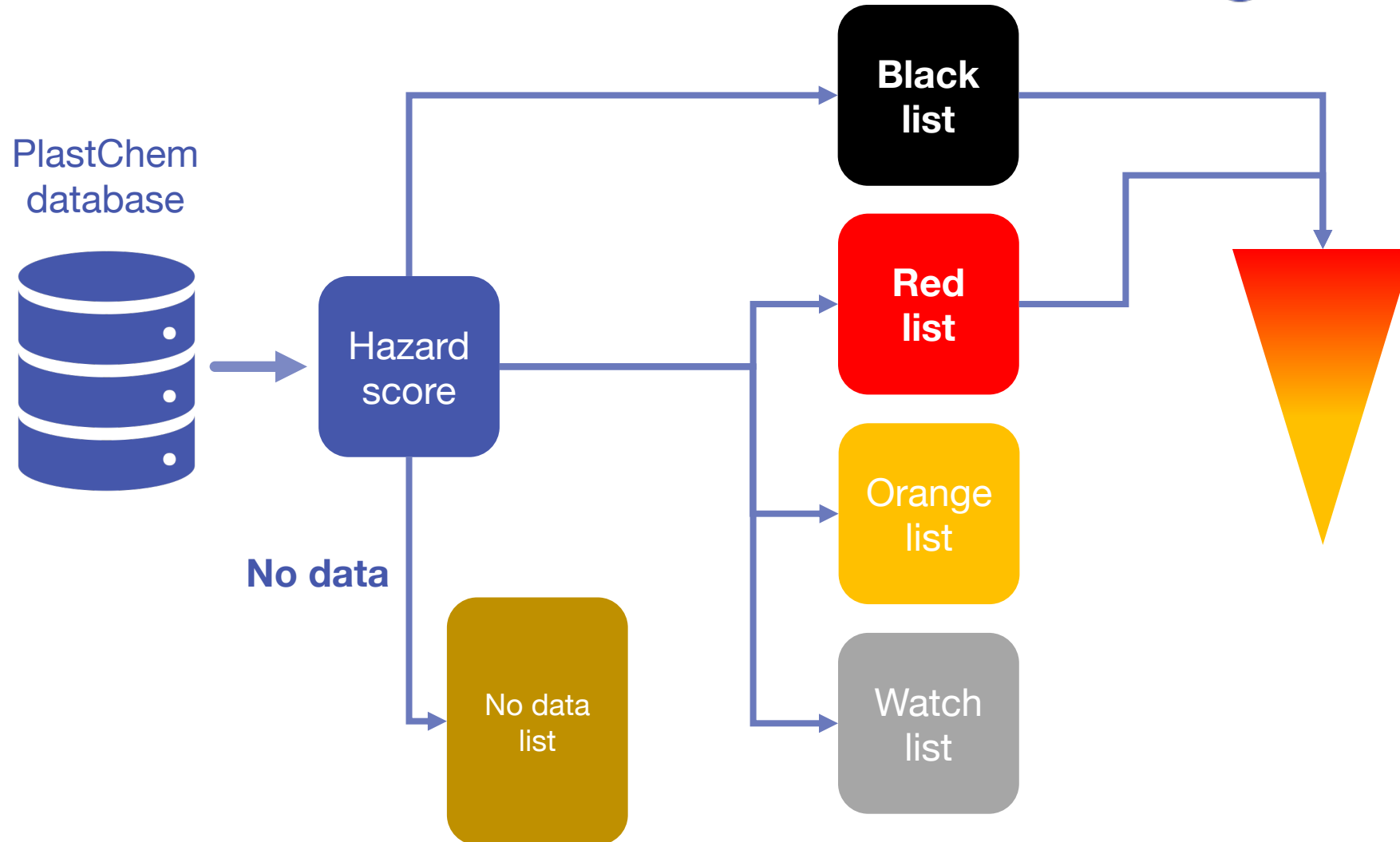


4 105 chemicals (25%)
classified hazardous

1 192 chemicals (7%)
less hazardous

161 chemicals (1%)
not classified hazardous
but not fully assessed

Framework to prioritize chemicals



Key messages

- 1 >16 000 plastic chemicals, 25% of which classified hazardous
- 2 No plastic chemical classified as “safe”
- 3 Evidence-based classification and prioritization of chemicals and polymers of concern is possible
- 4 January 2024: State-of-the-science report**



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