

The path to waste chemical risk assessment

A multi-year research strategy

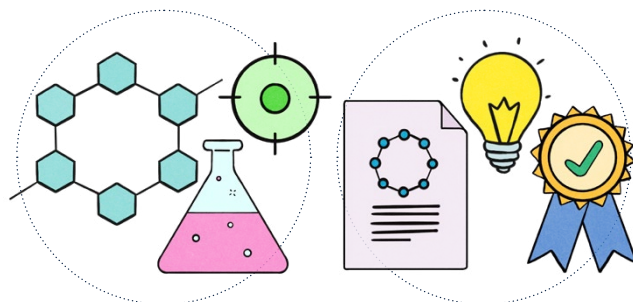
Version 1

The co-designed research strategy has four key research themes to advance our knowledge of chemical hazards in waste materials and recovered resources and to identify potential risks for reuse.



Analytical capability development and uplift

for qualitative and quantitative assessment or chemical composition of tyre and e-wastes.



High quality data sets

for recycled rubber materials and e-wastes (case study materials).

Guidelines for sampling and assessment of complex waste materials

that underpin high quality data generation.



Methodology frameworks

for characterisation, leaching and ecotoxicology assessments.

Using priority waste materials identified through our co-design process, we have developed **transferrable guidelines, frameworks and methods** to advance our understanding of chemicals associated with waste and recovered resources.

Guidelines, frameworks and methods can assist stakeholders to **design relevant and robust sampling and chemical analysis campaigns**.

Sampling and analytical campaigns will generate **high-quality and traceable data and information** related to chemicals of potential concern in complex waste materials and products with recycled content, enabling appropriate risk mitigations and broader reuse uptake.

End of life tyres, electronic and battery waste, and electronic cable sheathing materials produced from recycling are a focus as case study materials.