

Challenges in reducing waste generation from construction



The construction industry is moving towards a circular model to reduce raw material use and waste generation





Understanding the challenges faced by stakeholders in the construction industry is crucial to minimising waste and carbon dioxide emissions in the long term



- ### Catalysts to overcome the current waste reduction challenges in the UK
- ✓ Adopt a systematic approach across all life cycle stages
 - ✓ Have early waste planning and reuse strategies
 - ✓ On-site waste segregation for recycling
 - ✓ Eliminate waste disposal or landfilling



Key challenges faced by stakeholders in reducing waste generation

 <p>Inadequate incorporation of waste reduction strategies from the early design stages of the project life cycle</p>	 <p>Lack of digital innovation, data management, and communication among stakeholders</p>
 <p>Lack of granularity in construction waste (CW) information within the context of life cycle assessments</p>	 <ul style="list-style-type: none"> • Limited communication and collaboration among the supply-chain members • Lack of defined CW objectives

Increased emphasis on CW reduction from early design stages, increased use of digital tools, granular and clear CW data, and seamless communication and collaboration would support the built environment to shift from recycling to prevention and source reduction