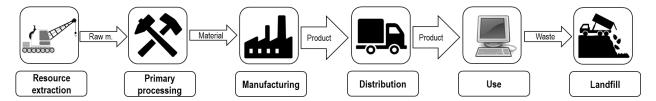
Enabling Repurposing

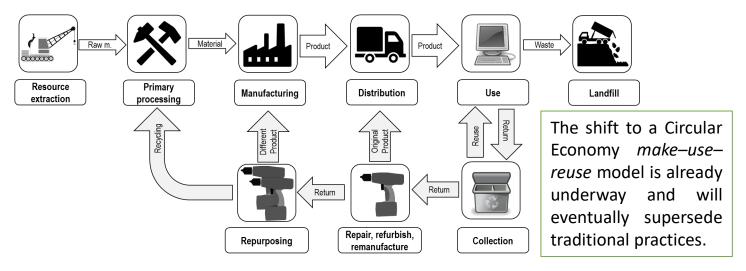
Product Transformation & Connected Collaboration

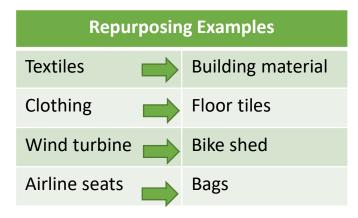
Responsible | Sustainable | Innovative

- **Sustainability** is at the top of the supply chain agenda as global resources are being depleted at an unprecedented rate in human history.
- **Repurposing** is an important, yet under researched Circular Economy strategy to keep products and materials in circulation.



The linear business model of *make-use-dispose* is leading to irreparable ecological damage and is no longer a viable option.









Cardiff Business School Ysgol Busnes Caerdydd

What is repurposing?

- Repurposing adapts end-of-life products, parts and materials for use in different applications and markets.
- Contrary to recycling (downcycling), it retains or adds value (up-cycling).
- It turns a supply chain's end-of-life waste into a valuable, carbonefficient input.







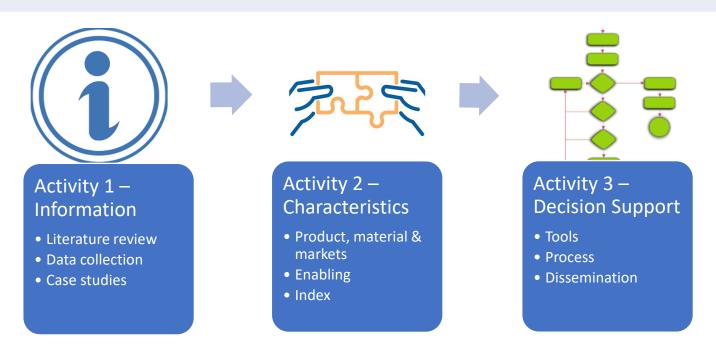






Enabling Repurposing

Project Specifics



What is the problem?

- Supply chains operate independently with no experience or access to potential markets.
- There exists little guidance on how to connect and manage inter-dependent supply chain operations.
- The answer comes through supply chain collaboration and making use of increasingly available digitalised information.

Partnership solution

- With our industrial partners, we are building a picture of contemporary repurposing projects.
- Partners will act as case studies to identify opportunities, issues and critical success factors for sustainable supply chain design.
- Providing information, data and ideas to understand structural parameters that influence daily operations and future strategy.

The People	The Partners	The Research
Cardiff Business School Professor Aris Syntetos Dr Thanos Goltsos Dr Daniel Eyers Dr Tim Ramjaun Dr Andy Treharne-Davies Michael Mead (3dGBIre) Chris Harrison (CREATE) Professor Mike Wilson (DSV) Dr Andy Lahy (DSV) Ellen Petts (Greenstream Flooring CIC) Becky Gordon (Interface) Greg Allen (Rj-Alpha)	3dGBIre: 3D printing company using repurposed filament. CREATE Education: Science education specialists. DSV: One of the world's largest logistics providers. Greenstream Flooring Welsh flooring recovery business. Interface: Manufacturer of sustainable flooring products. Rj-Alpha Advisory Services Ltd: Advising tech start/scale-up.	 This is exploratory research so the questions will evolve but we need to consider: How to identify alternative supply chains that can provide material input? Industrial or consumer end-of-life material suitability? Consistency of supply quality and quantity? Logistics and operations management of materials? Additional processing requirements?