

Remanufacturing & Reuse

Removing the concept of waste

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Topics

- The Centre
- What is remanufacturing?
- Where is it happening?
- Why the interest?
- Where next?

About the Centre

- BREW-funded
- Mission
 - Promote appropriate remanufacture and reuse of PRODUCTS
- Activities
 - Understand sectors/products
 - Quantify benefits
 - Determine appropriate intervention
 - Supply side ↔ Demand side



Re-words

Reuse

Repair

Recycle

Remanufacture

Refurbish

Rebuild

Recondition

Repurpose

Remarket



Definition

“A series of **manufacturing steps** acting on an **end-of-life part or product** in order to return it to **like-new or better performance**, with **warranty** to match.”

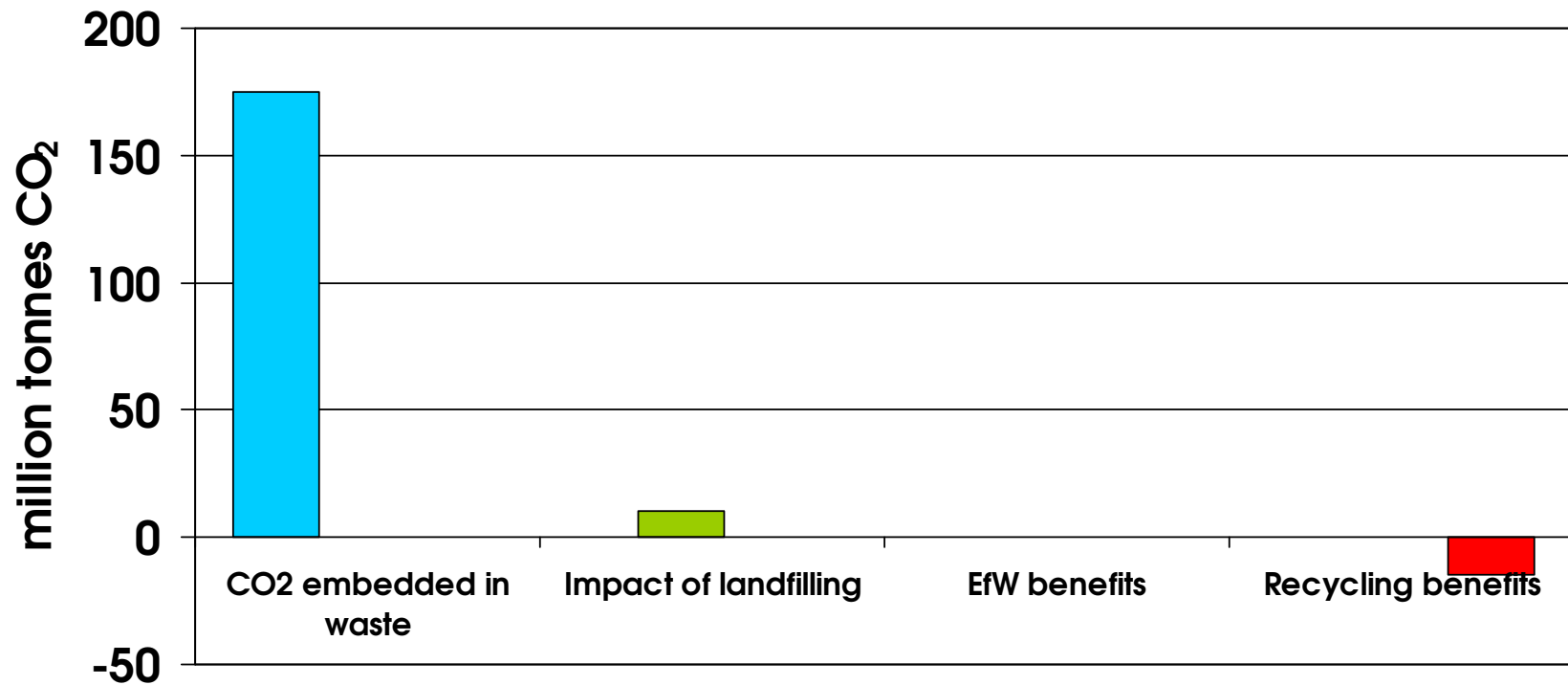
Preservation of embedded value
functionality
performance
longevity

Products



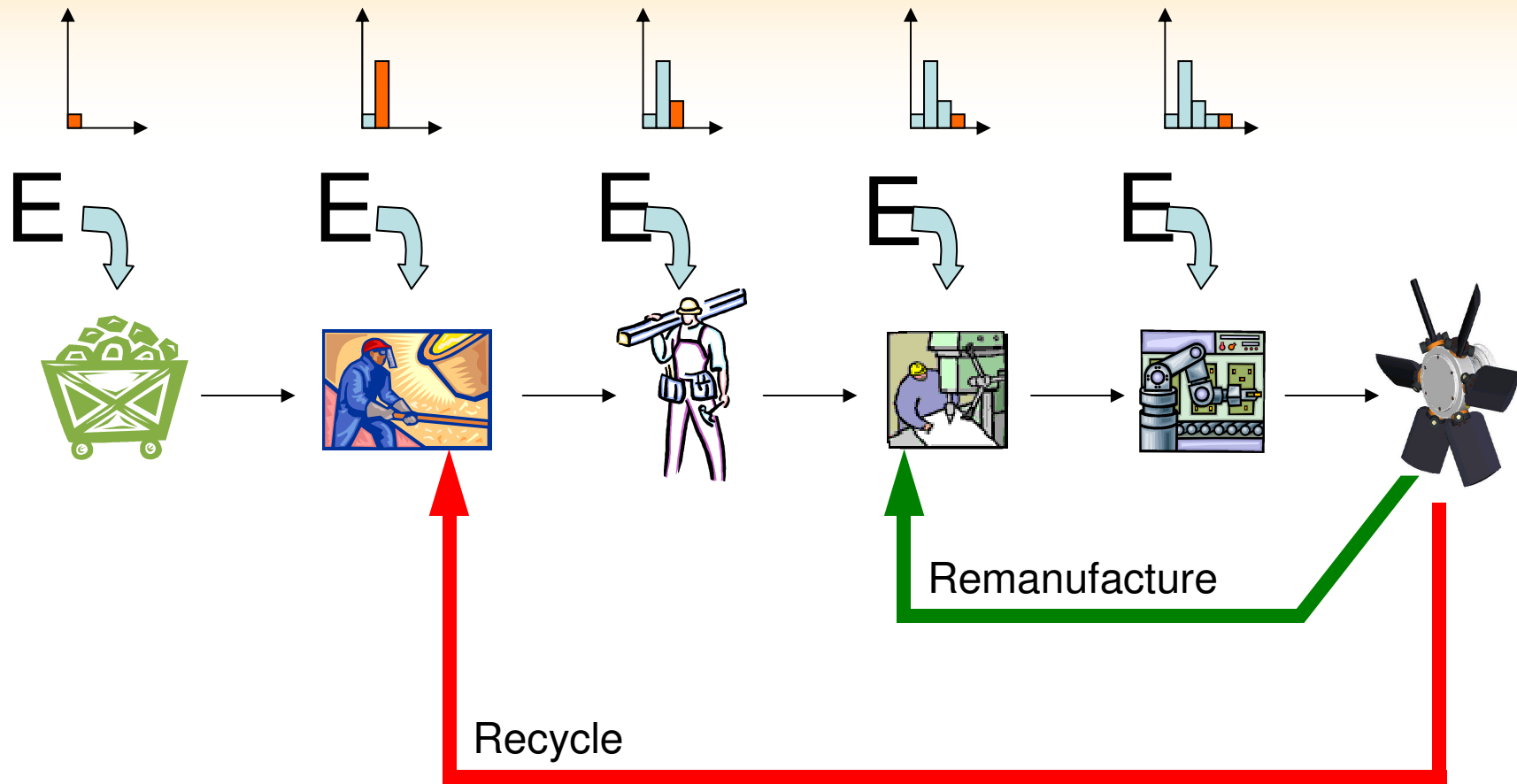
Where We Are

Waste & CO₂ - MSW, C&I Waste Totals



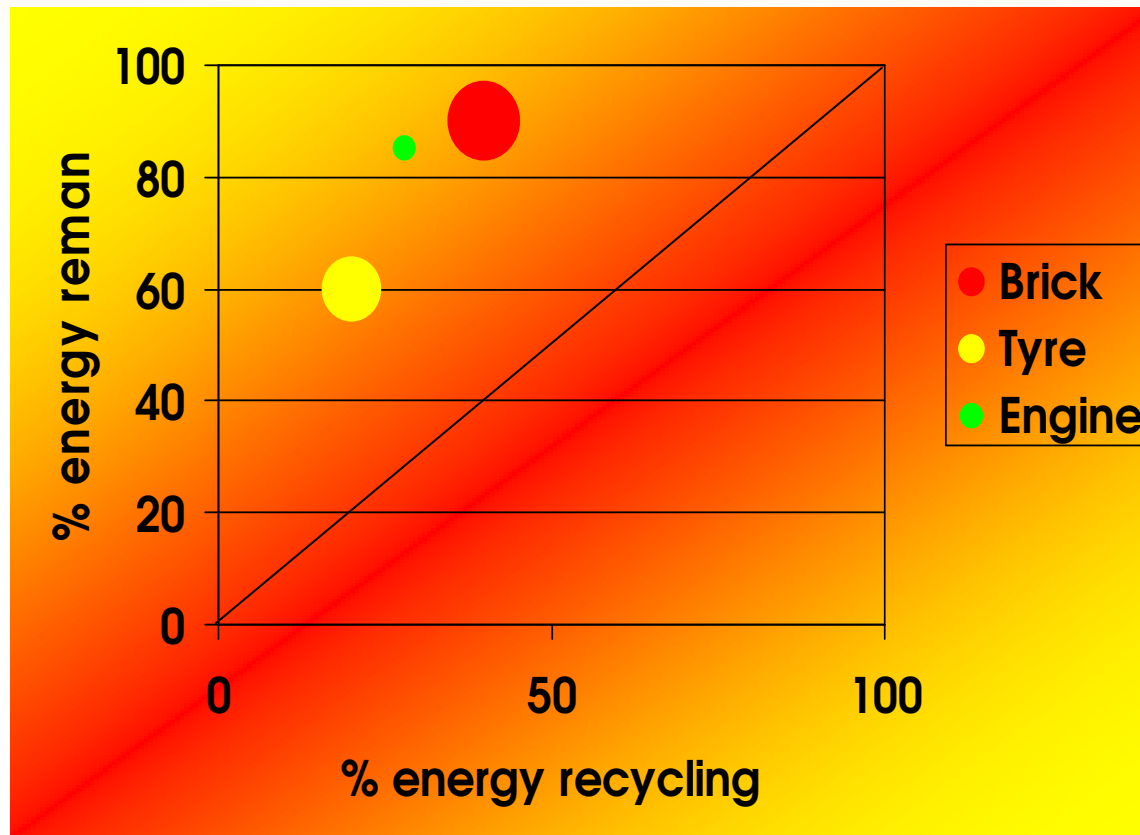
Source: Defra indicative numbers; work in progress

Embedded impacts



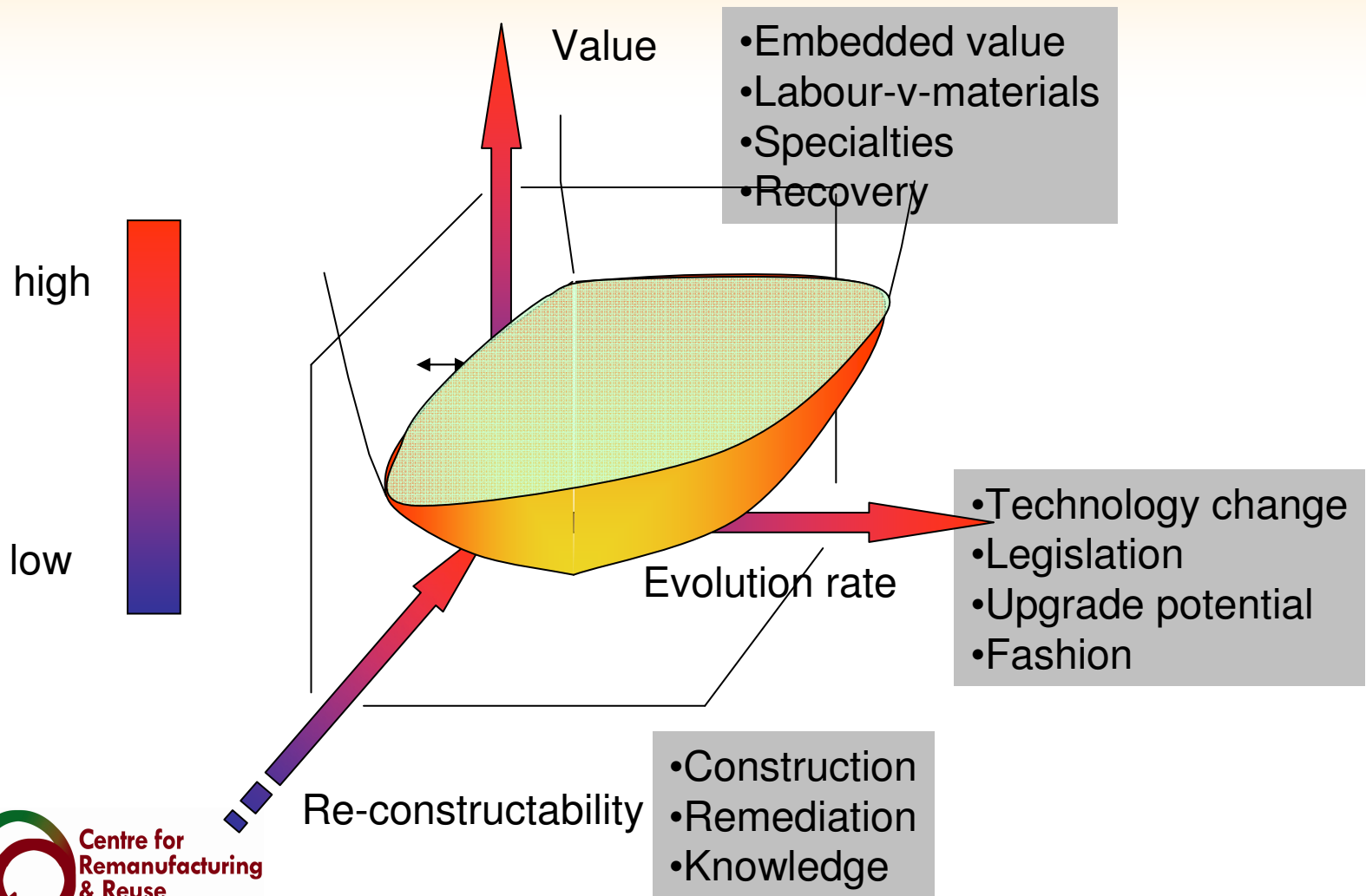
What Might Be

Comparative embedded energy recoveries



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Landscape



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Why is this interesting?

- Direct benefits
 - financial, growth strategy
 - material, energy
- Up-skilling
 - diagnostics, remediation, design
- Servicisation
 - products ↔ services
 - producer responsibility
- Political
 - economic defence
 - resource dependency
 - public perceptions

Challenges

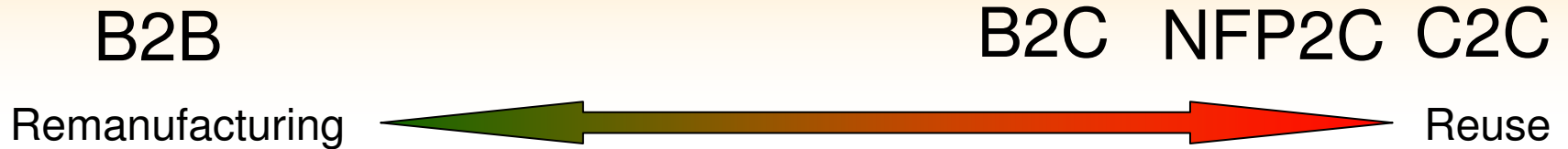
- Increase market pull
- Communicate strategic benefits
- Convince reuse \neq 2nd rate
- Improve return channels

Regional, community aggregation & remediation
Logistics and core broking
Incentivisation



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Actions



- **Purchaser derisking**
 - Standards
 - Purchaser awareness
 - Provenance
 - Incentivising returns
 - Technology & practice
 - Design for reman
- **Appropriate design**
 - Warranty/credibility
 - Promotion/information
 - Incentivising returns
 - Ethical export

- Policy, metrics

More Info

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