## THE GREAT RECOVERY REDESIGNING THE FUTURE



Technology Strategy Board
Driving Innovation



### "Waste really is a design faw

- Kate Krebbs (ANRC)

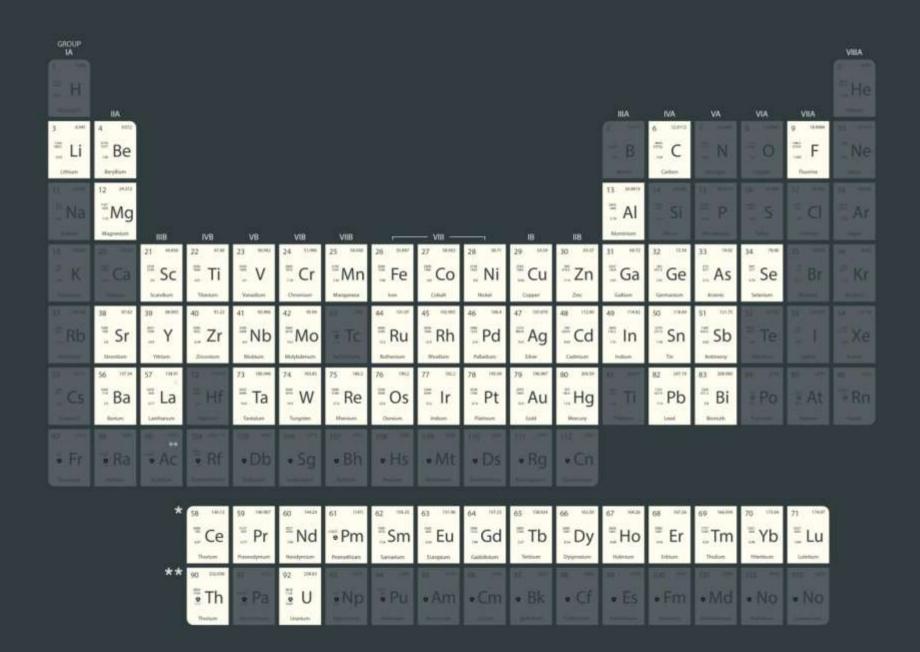
Approx. 80% of envionmental costs are pre-determined during the product conception and design stage.

Design Council report

For every tonne of household waste that we throw away, there's a further 5 tonnes of materials that have been used in the manufacturing of the products consumed:

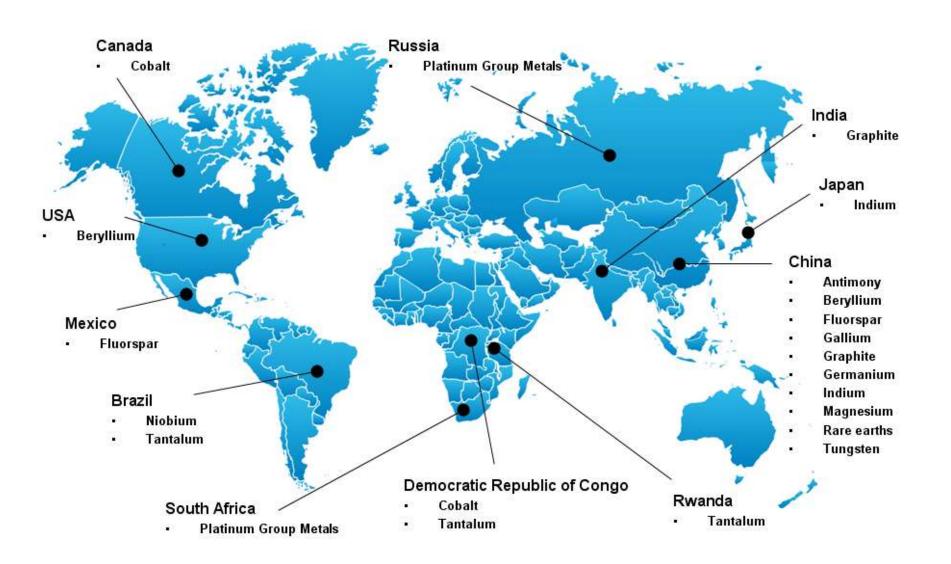
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5g gold ring = 2 tonnes of raw material
2g diamond = 106kg of raw material
12 wine glasses = 2kg of raw material
1 toothbrush = 1.5kg of raw material
1 pair of shoes = 8,000 litres of water
1 t-shirt = 2,700 litres of water
1 A4 sheet of virgin paper = 10 litres of water
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90% of all products are waste within 6 months of purchase.

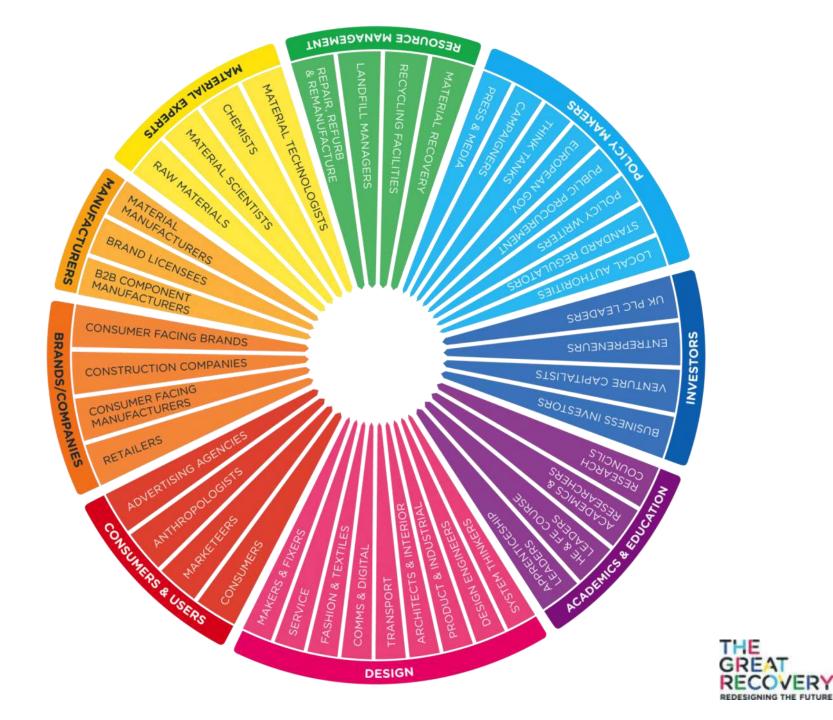


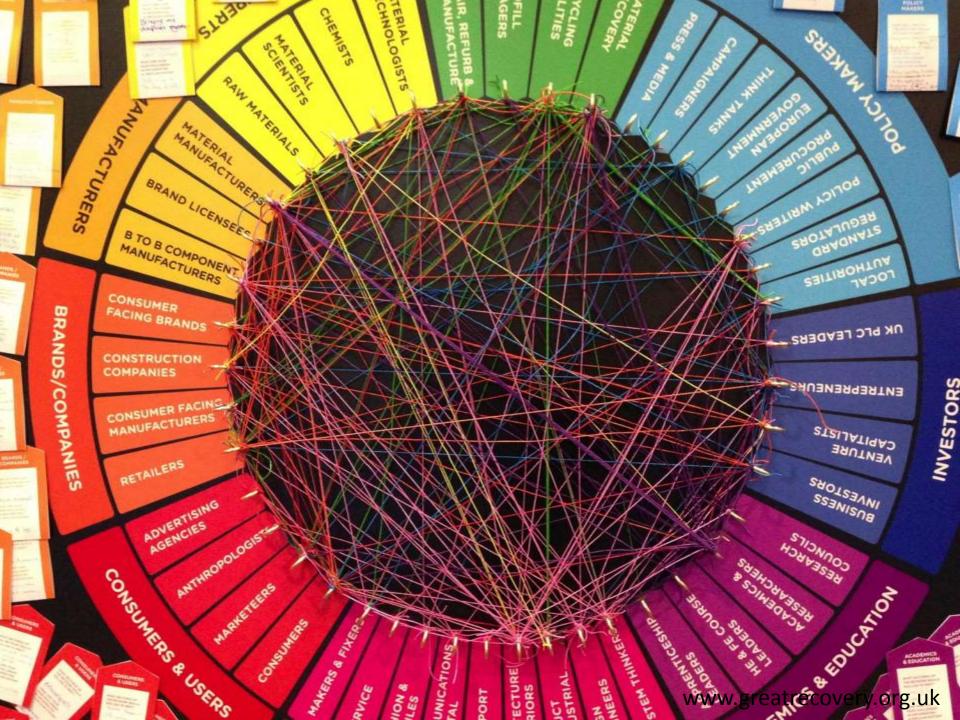


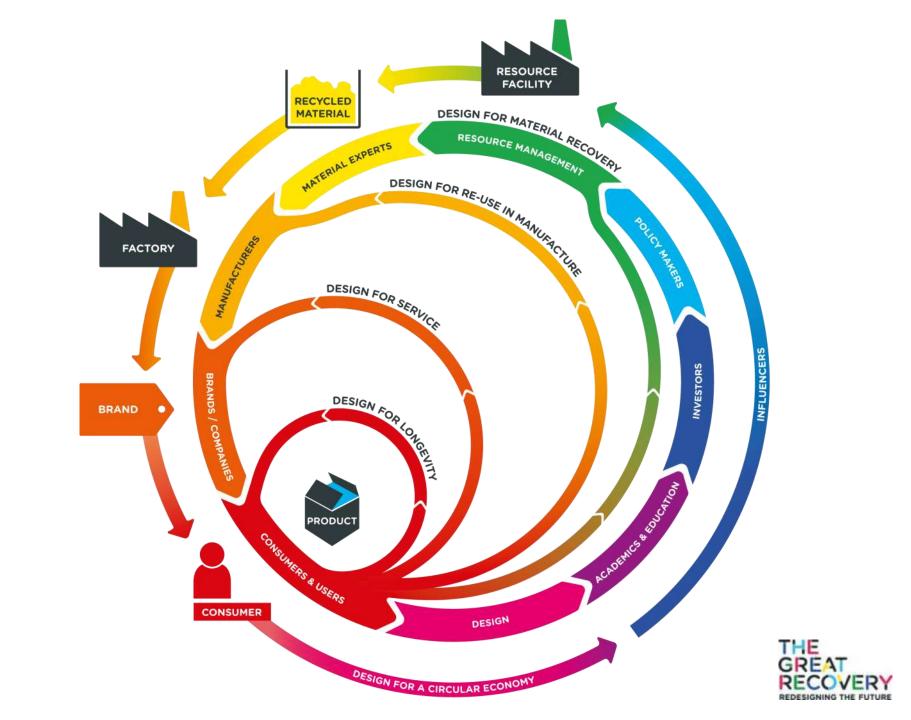
#### Concentration of critical minerals





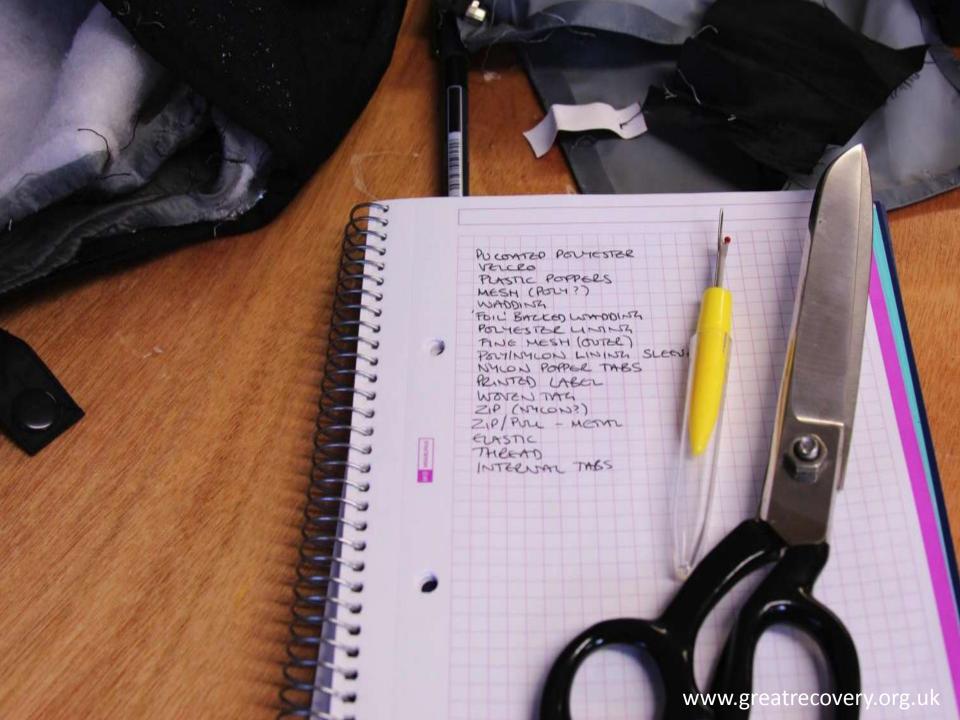
















#### **Opportunities for Scotland**

- EMF: 'Scotland and the Circular Economy'
  - £2.3 £3bn material savings across manufacturing sectors
- Green Alliance: 'Circular Economy Scotland report'
  - 3 key sectors
  - Oil & Gas; Food & Drink; Finance
- ZWS: 'Remanufacturing Study'
  - Additional potential by 2020: £620m, 5700 jobs
  - 4 high-growth-potential sectors

#### **Moving Forward**

- Future research focussed around the economic impact within specific systems
- At the RSA we function as a knowledge dissemination funnel, looking for partners to collaborate with
- Success requires new forms of working -'big business' and government enabling, not necessarily doing
- New tools could include brokerage between producers and entrepreneurs; and badging opportunities for recognising circularity in practice

# THE GREAT REDESIGNING THE FUTURE

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