

Carpet Recycling in the UK

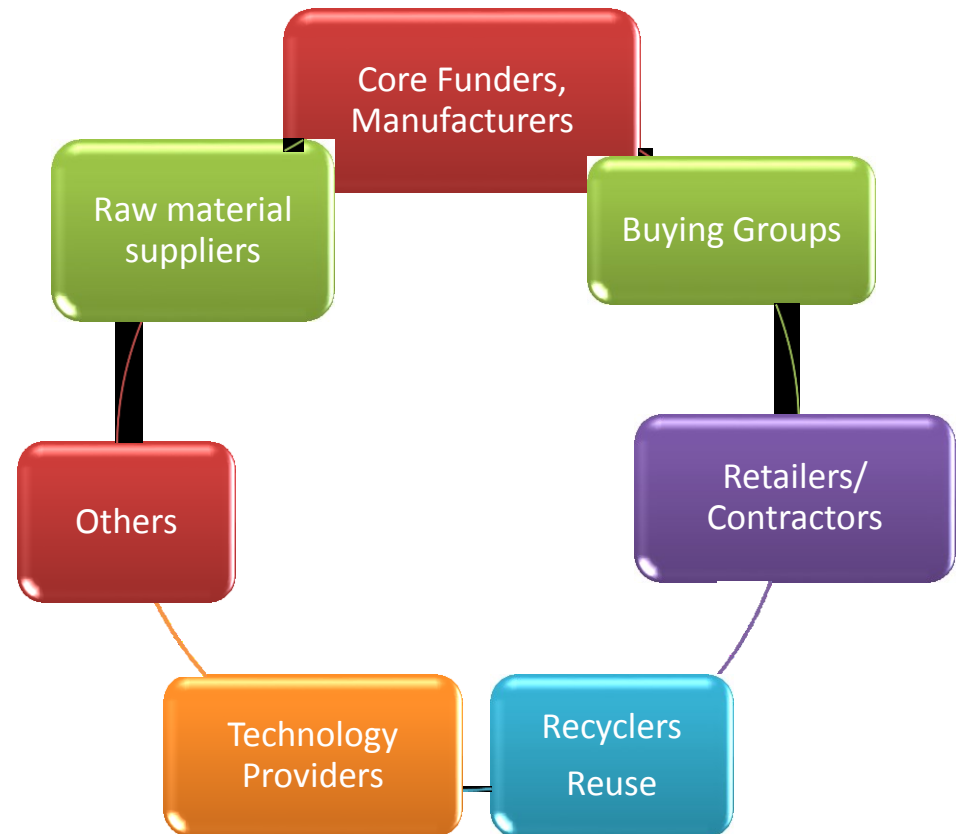
Recovering value from carpet fibres

June 2017

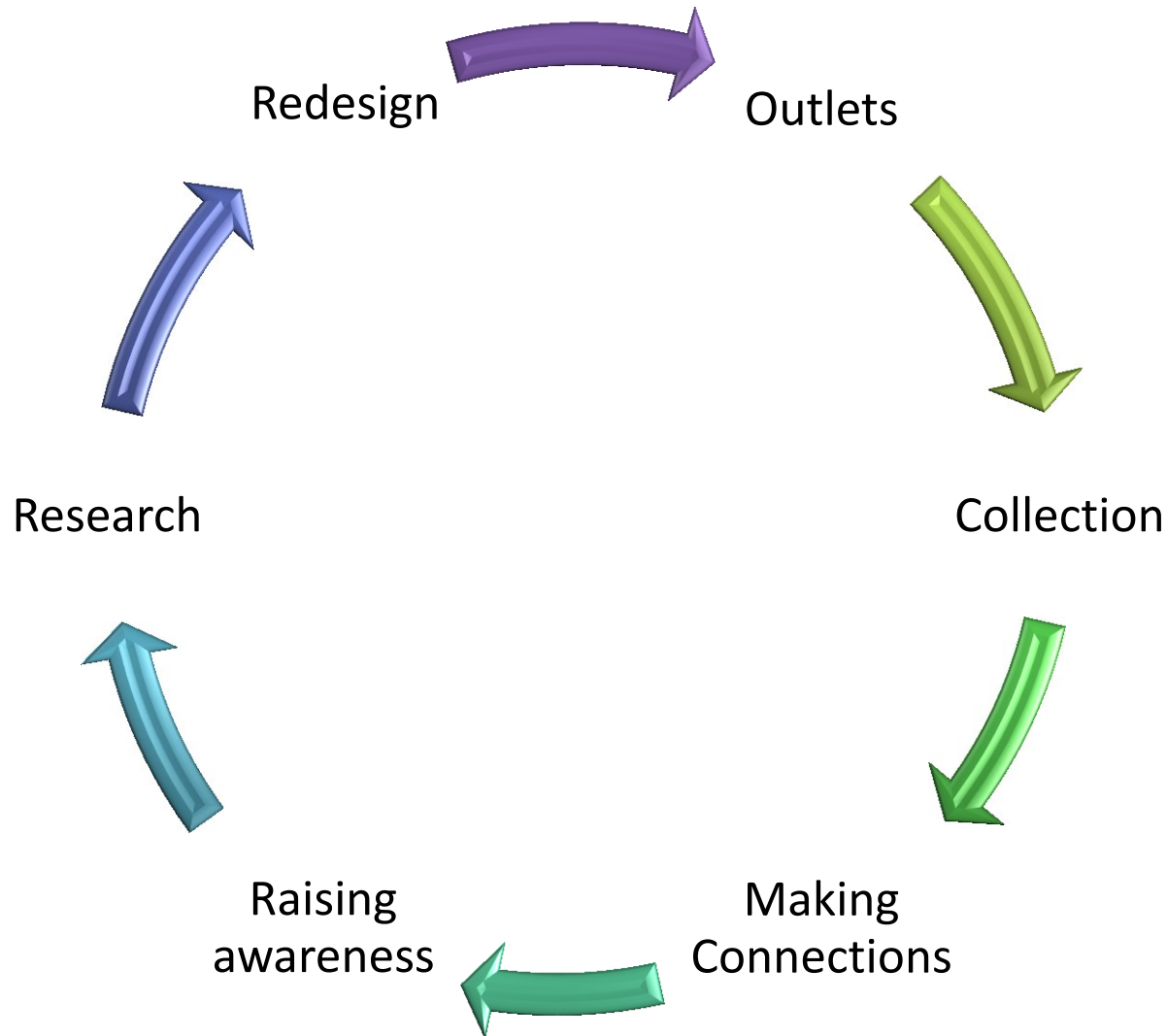


Carpet Recycling UK

- Voluntary producer responsibility scheme for the carpet sector
- 99 members from across the supply chain



Carpet Recycling UK remit



The industry's challenges





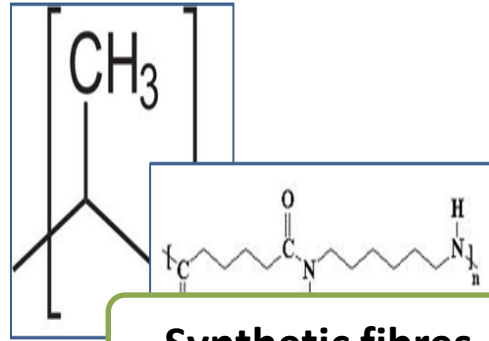
400,000

tonnes/yr

Carpet arises from

- Household waste recycling centres:
 - Often wet and mixed construction.
- Construction projects:
 - Can be sorted on site
- Strip out or flooring contactors:
- Separate
- Retailers:
 - Take back materials from customers

Carpets are made from valuable resources



Synthetic fibres



Wool fibres

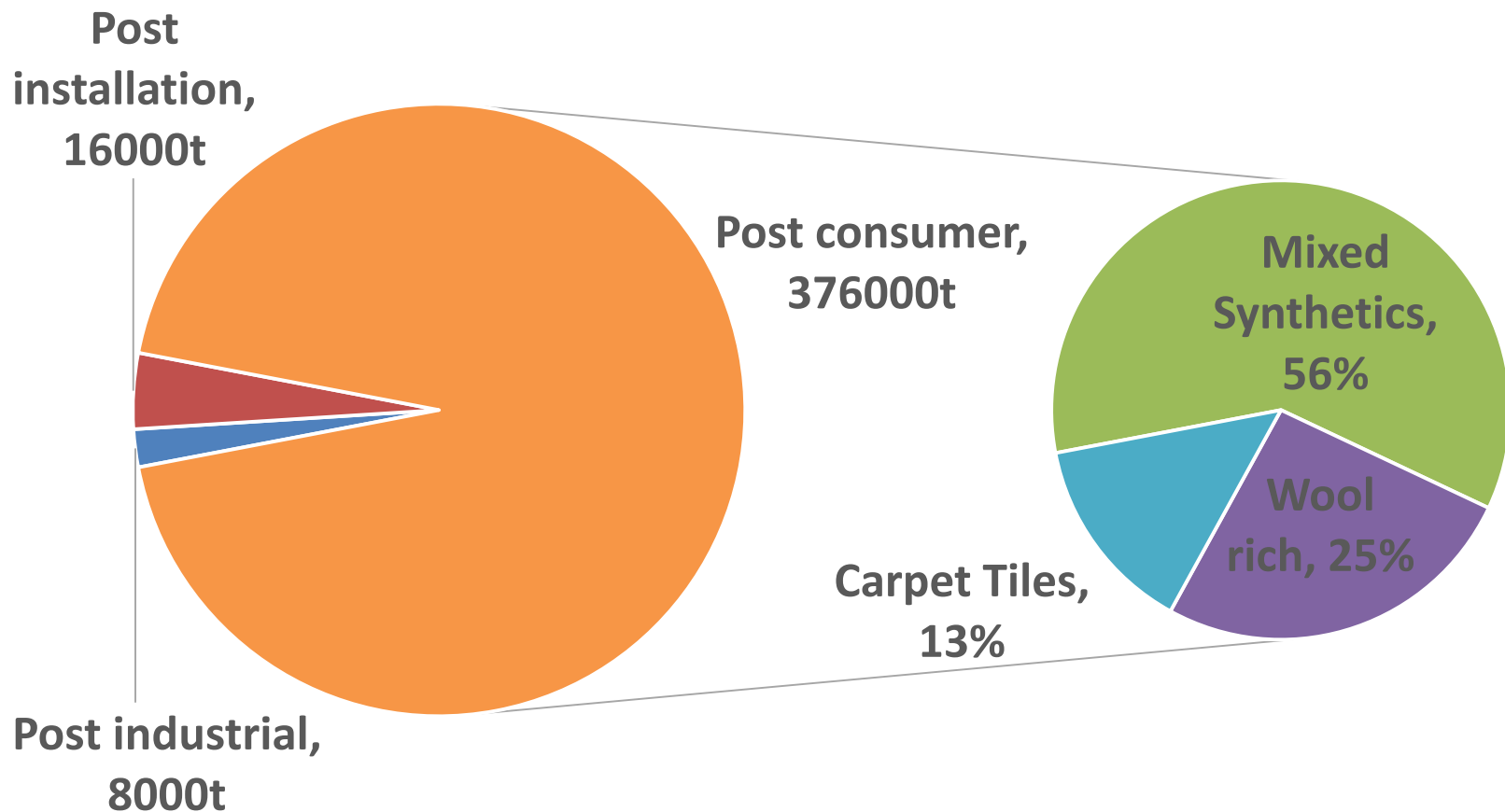


Bitumen



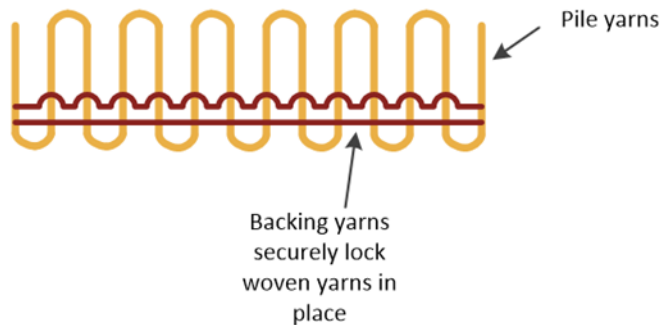
Synthetic latex

Breakdown of carpet waste by type

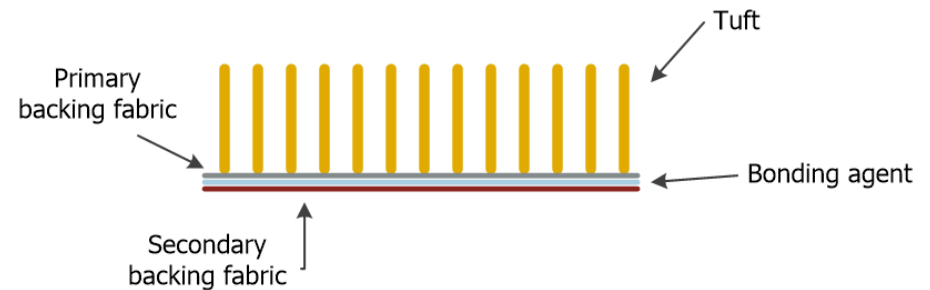


Recycling challenges

- Mix of construction types
- Short fibre length
- Presence of latex as a bonding agent



Woven carpet construction

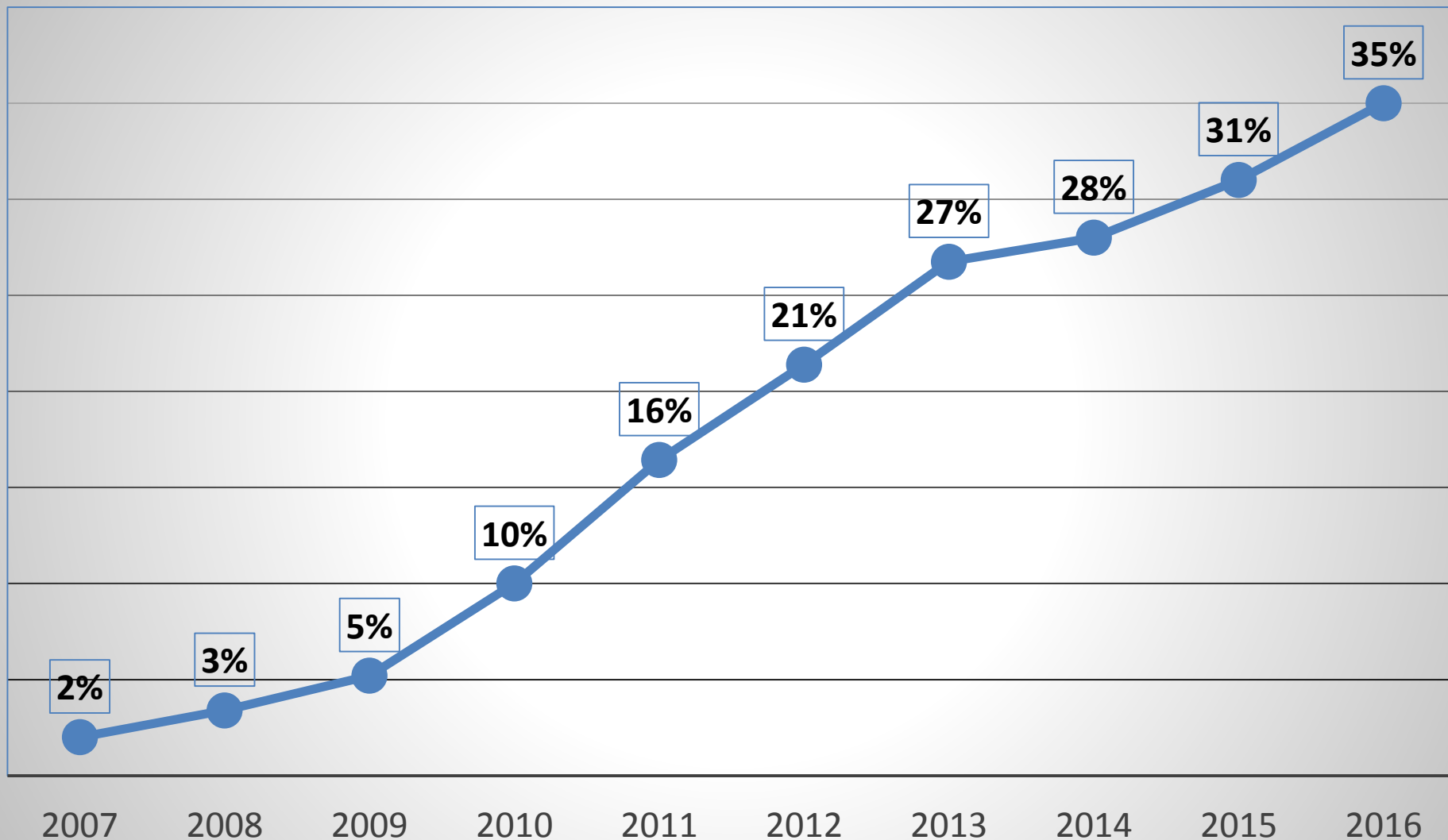


Tufted carpet construction

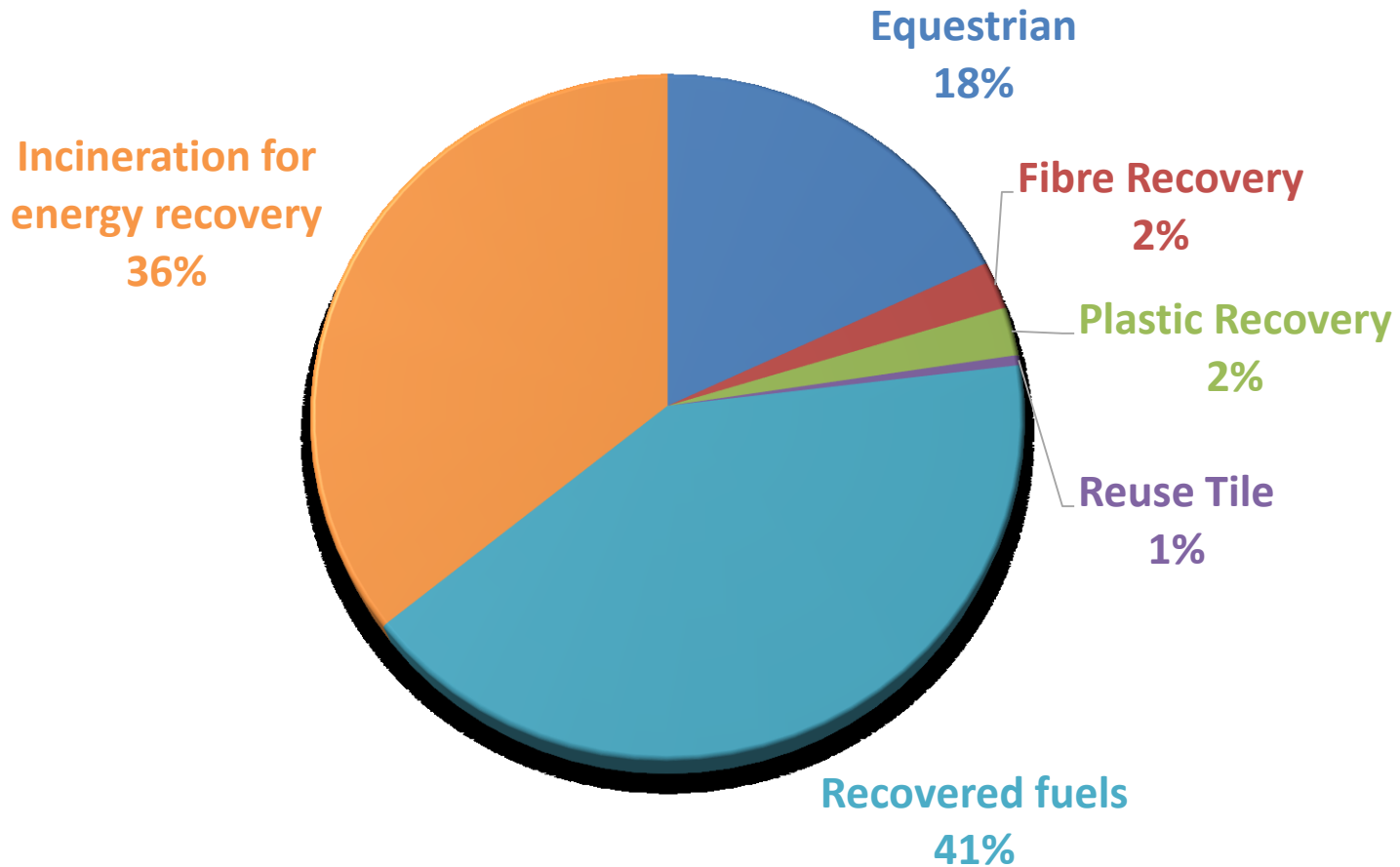
Achievements



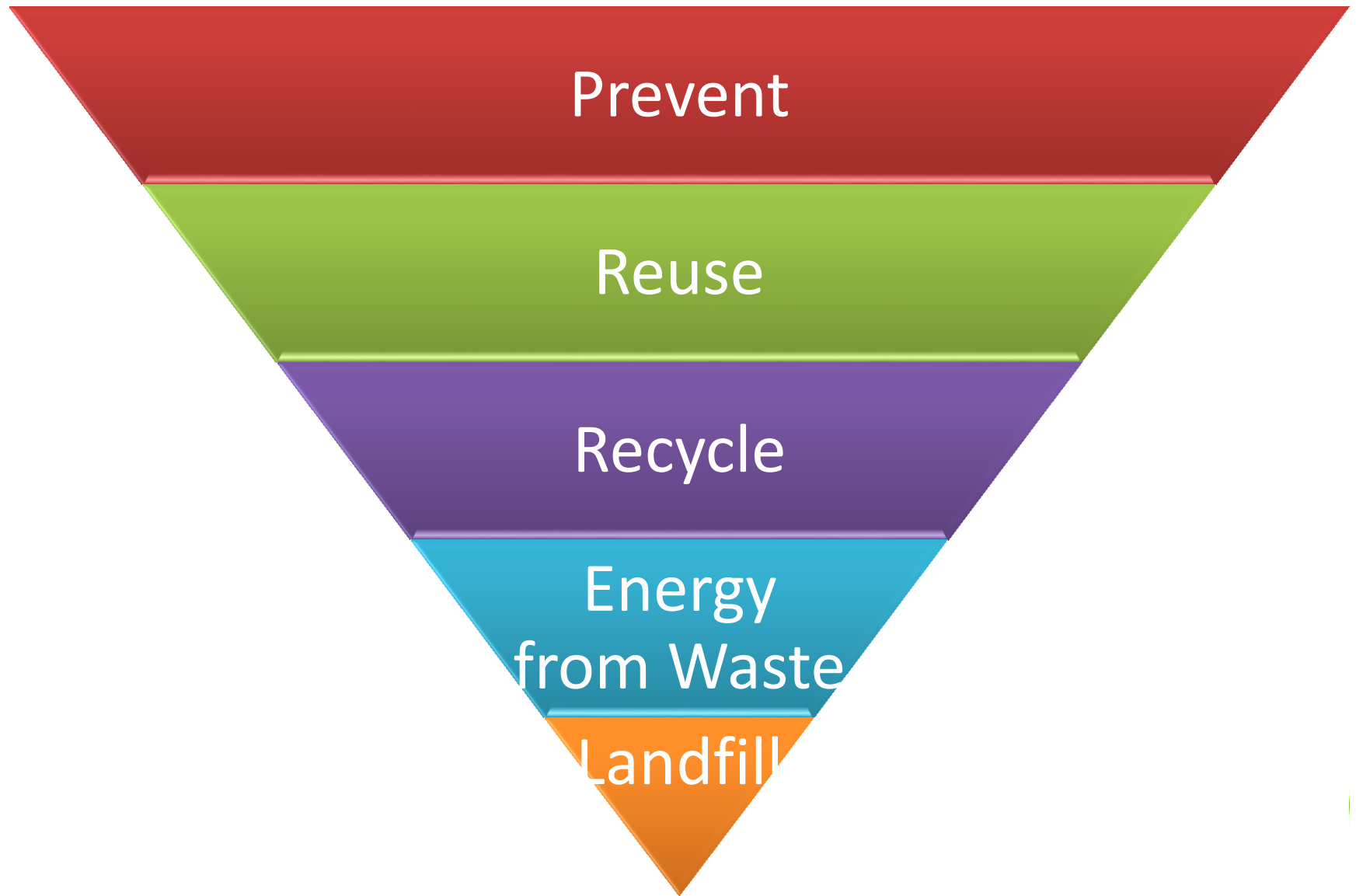
UK Carpet Landfill Diversion 2007 - 2016



Breakdown by application



Working with the waste hierarchy



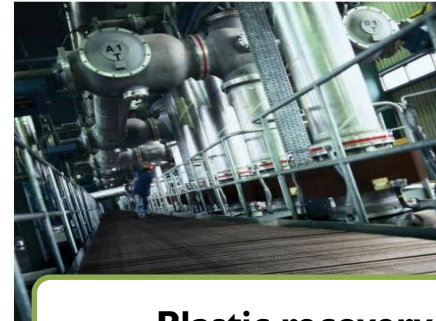
Outlets



Reuse



Underlay/Mattress pads



Plastic recovery



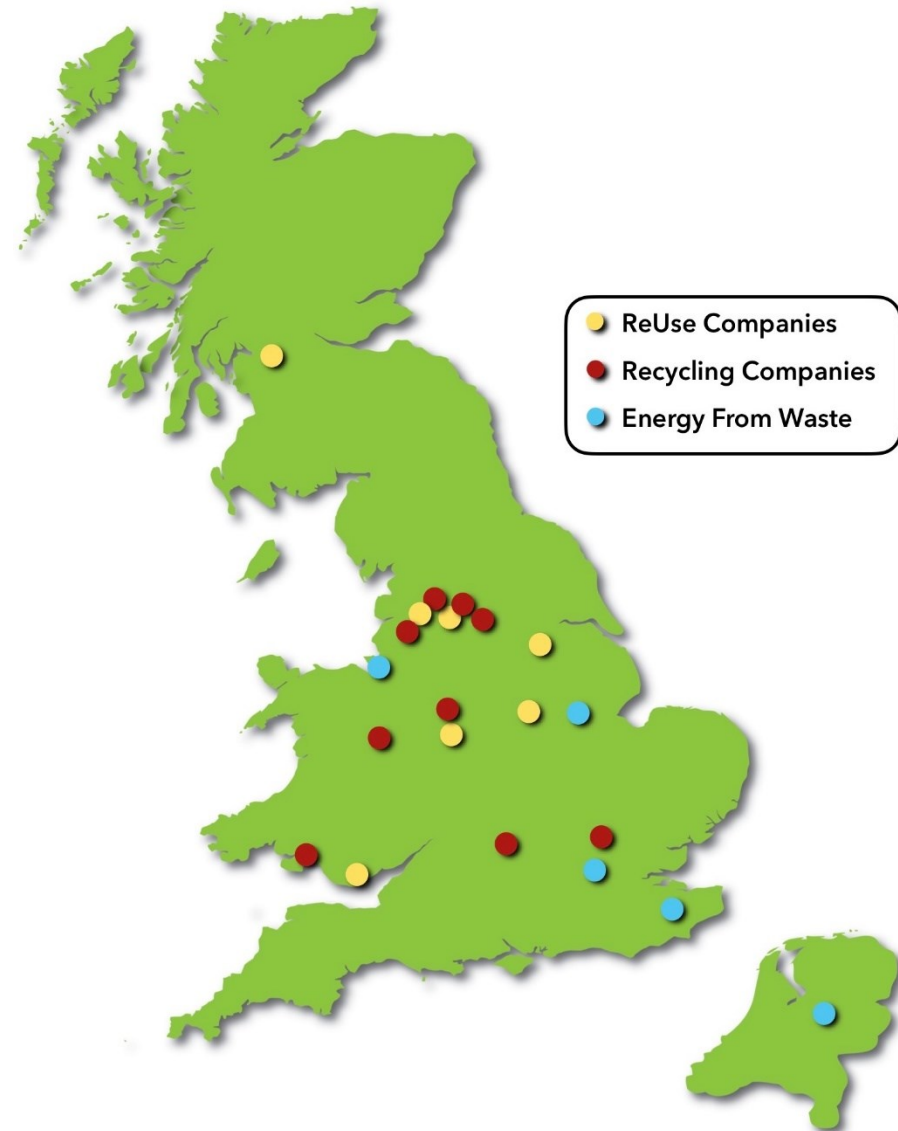
Fibre based equestrian surfaces



EfW

Reuse and Recycling Network

- 19 outlets:
 - 7 reuse organisations
 - 12 recyclers & fuel flock specialists



Key Drivers

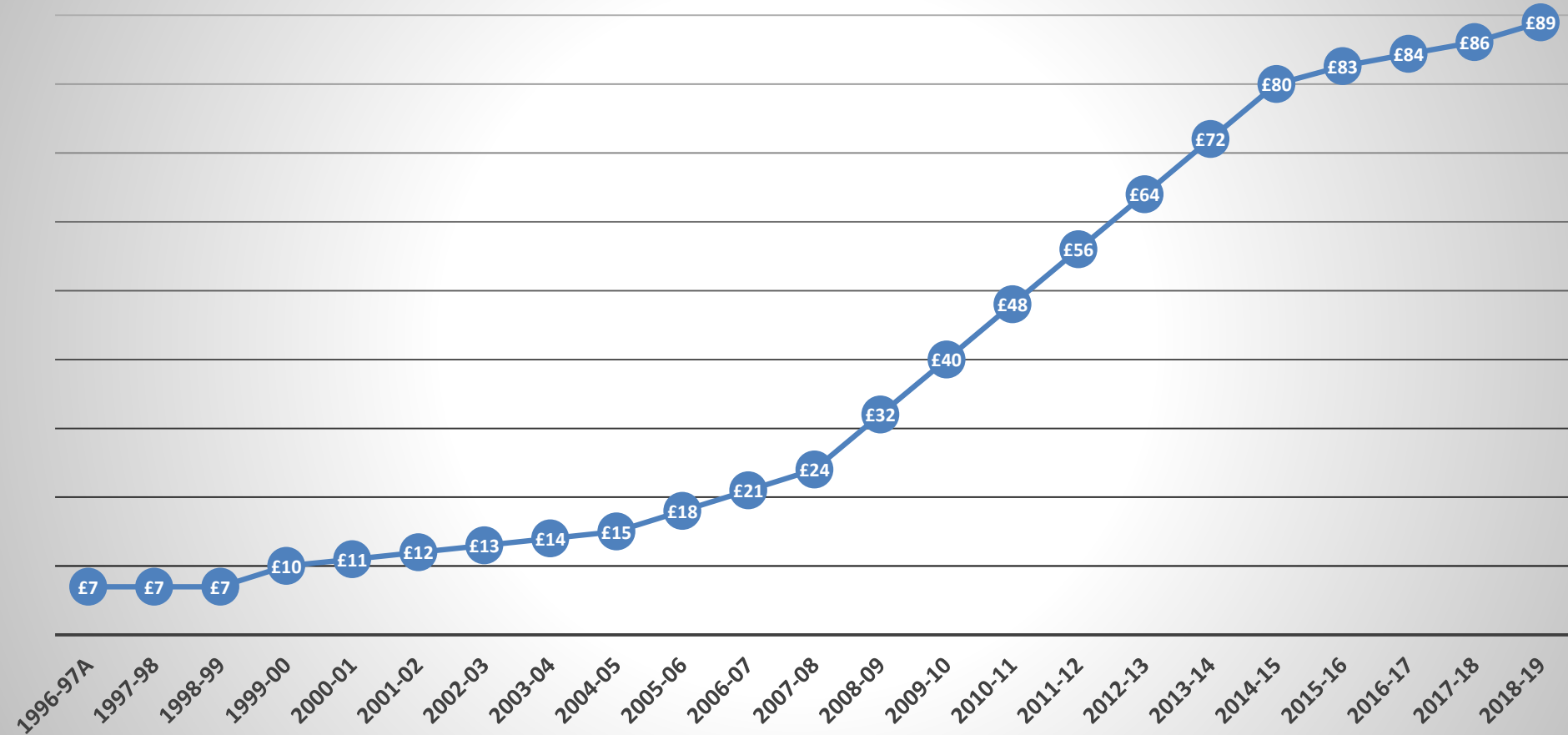


CARPET RECYCLING UK
recovering carpet value 

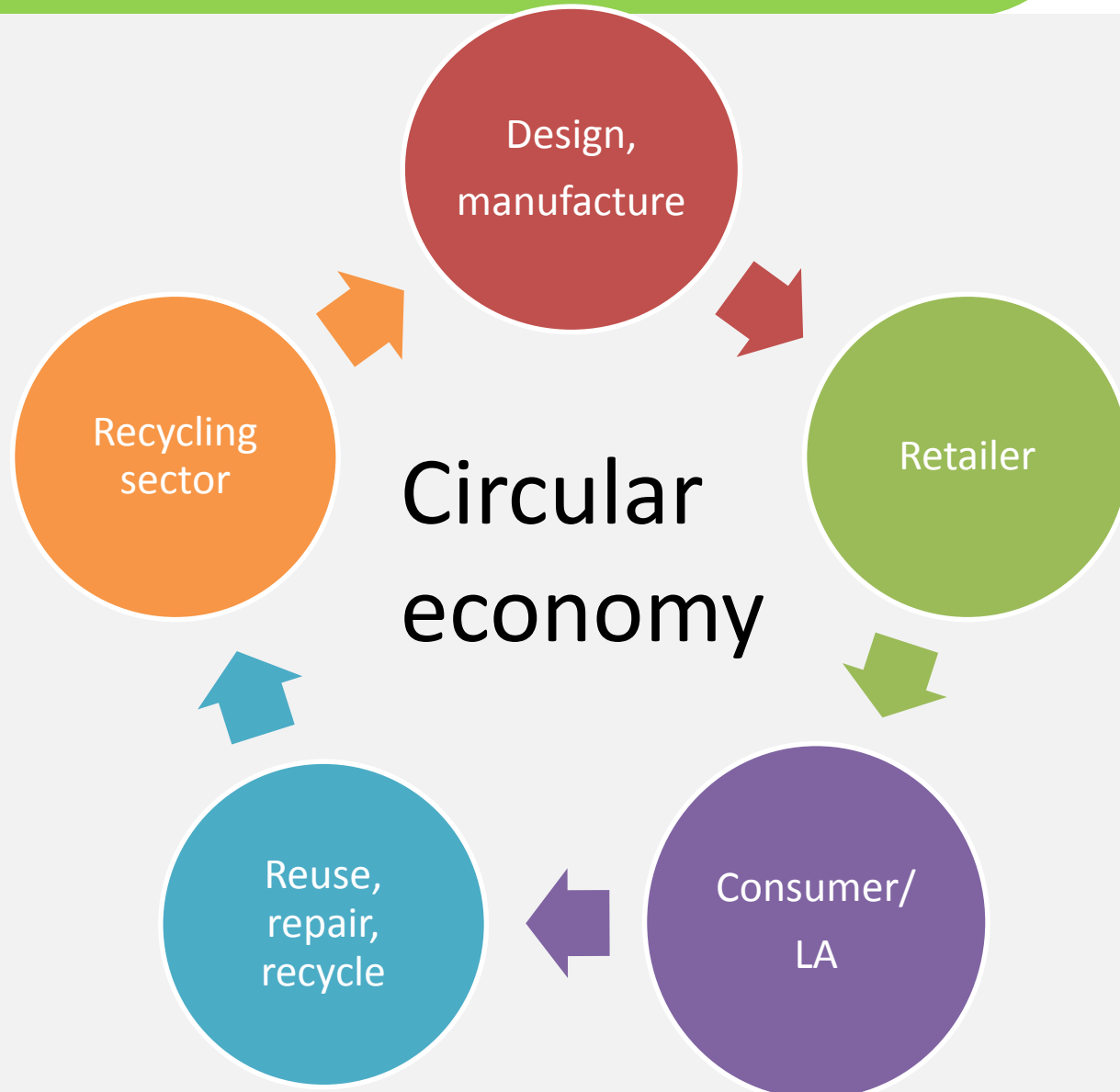
Landfill Tax

- Landfill tax from April 1st 2017 = £86.10/tonne
- Average cost including gate fee and transport £140/t
- Drive to save money by recycling

UK Landfill Tax 1996-2018



Circular economy



Tile Reuse



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recovering carpet value 

Reuse case study



- Greenstream Flooring, Cardiff
- Collection and grading of carpet tiles
- Resale of tiles
- Creates UK jobs for disadvantaged people— supporting social values



Keeping carpet out of general waste stream optimises end of life potential



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recovering carpet value 

Anglo Recycling circular story

Installation off - cuts



Collection



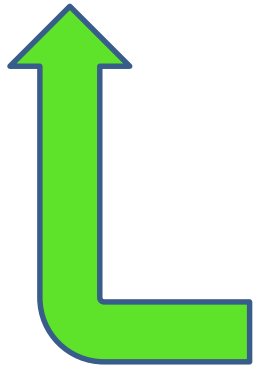
Baling



Underlay



Felt



Further developments

- Trials into recovering plastic from carpet
- Designing recyclable carpet:
 - DSM/Niaga 100% recyclable carpet
- Find out more at our annual conference:



Summary

- Diversion of carpets from landfill has increased from 2% to 35% since 2008
- Carpet Recycling UK is working with its members to achieve highest value outlets
- Further research and development needed to further circular economy in the sector



Many Thanks

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CORE FUNDERS



Carpets, Carpet Tiles and Stair nosings

www.carpetrecyclinguk.com