

# Resource Efficiency & the Circular Economy

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# The global challenges



# UK 2040

UK  
Population

**74.3M**  
**+10M**

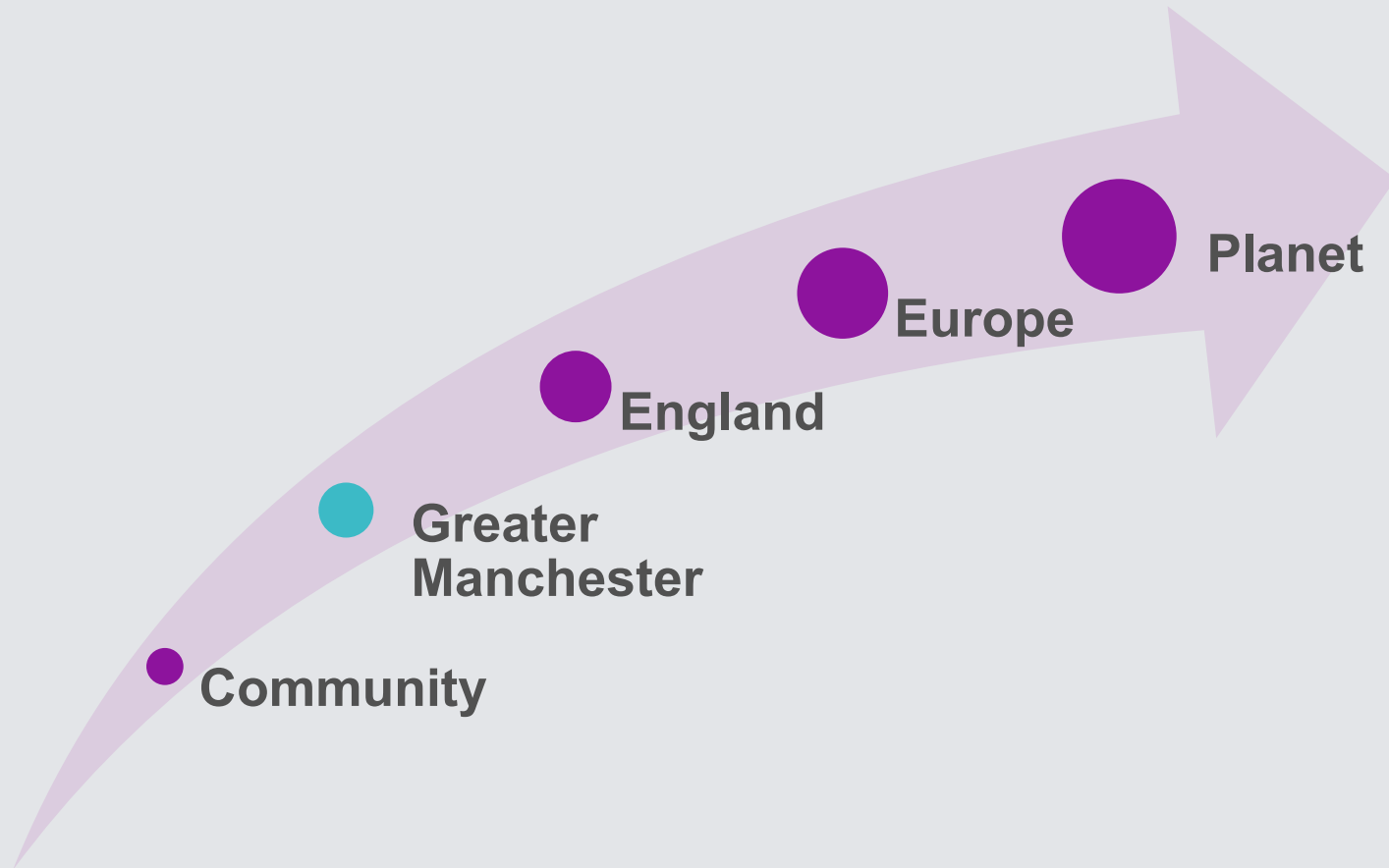
UK  
Households

**33M**  
**+6M**

UK  
Over 65s

**24%**  
**+7%**

# Scale of ambition



# Framing the debate

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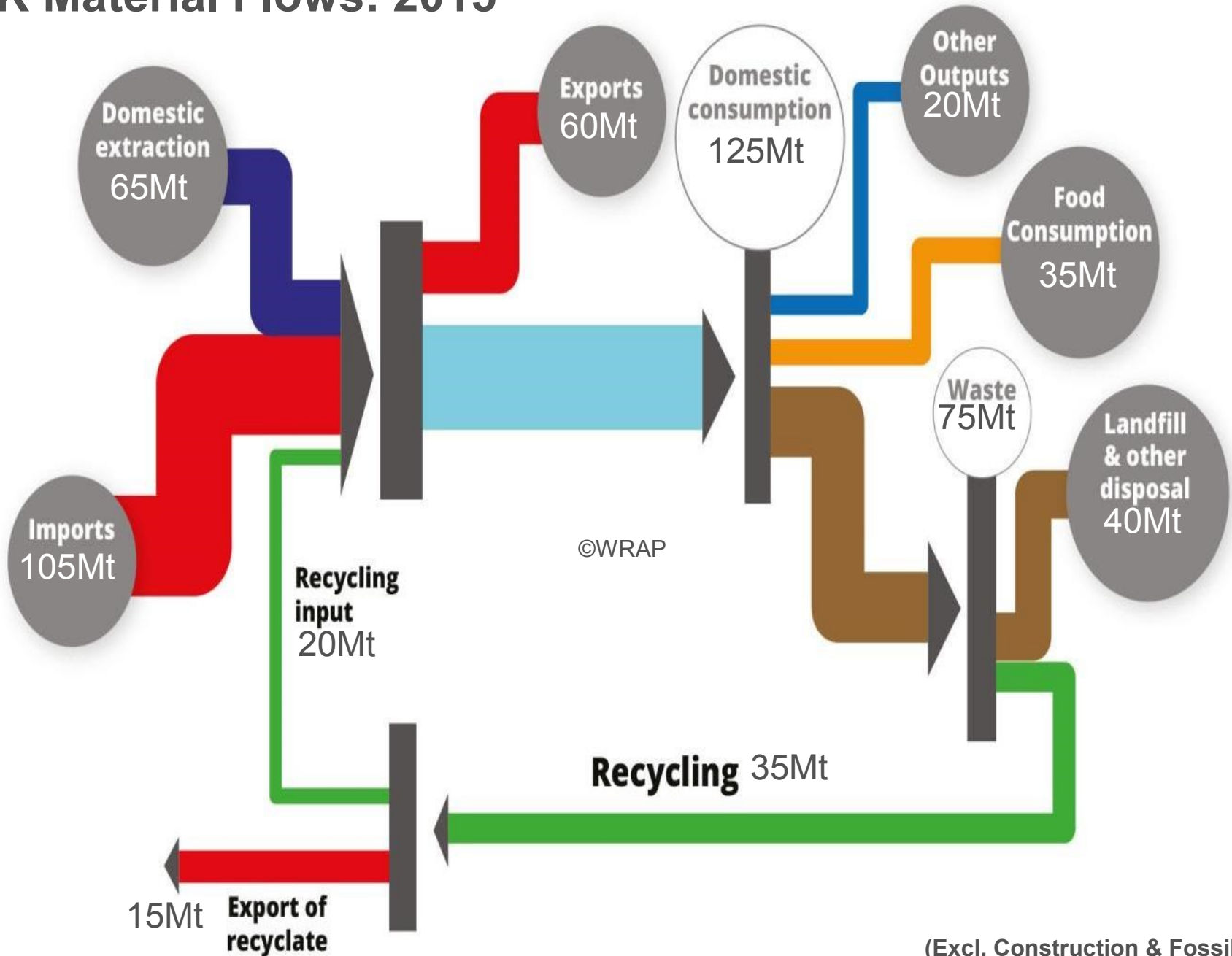


Zero  
Waste

Low  
Carbon

Circular

# UK Material Flows: 2015



# More sustainable use of resources

Making things last longer

Getting material back into economic use



# The challenges & opportunities ...



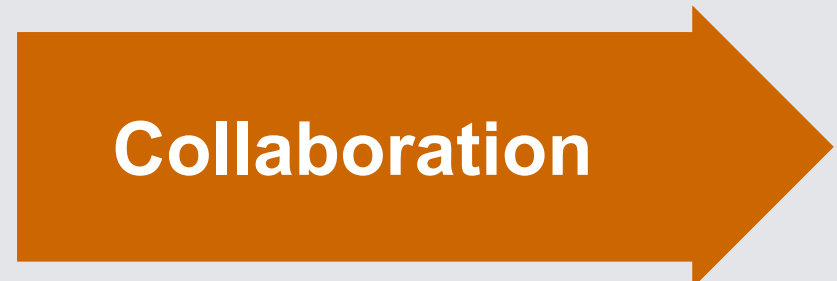
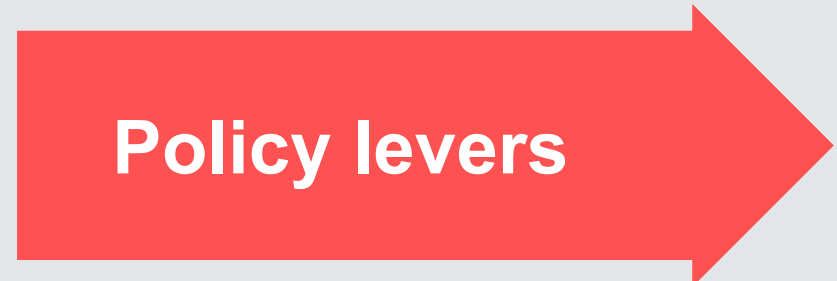
**Business unusual  
as the new normal**

**Winning the food  
waste fight**

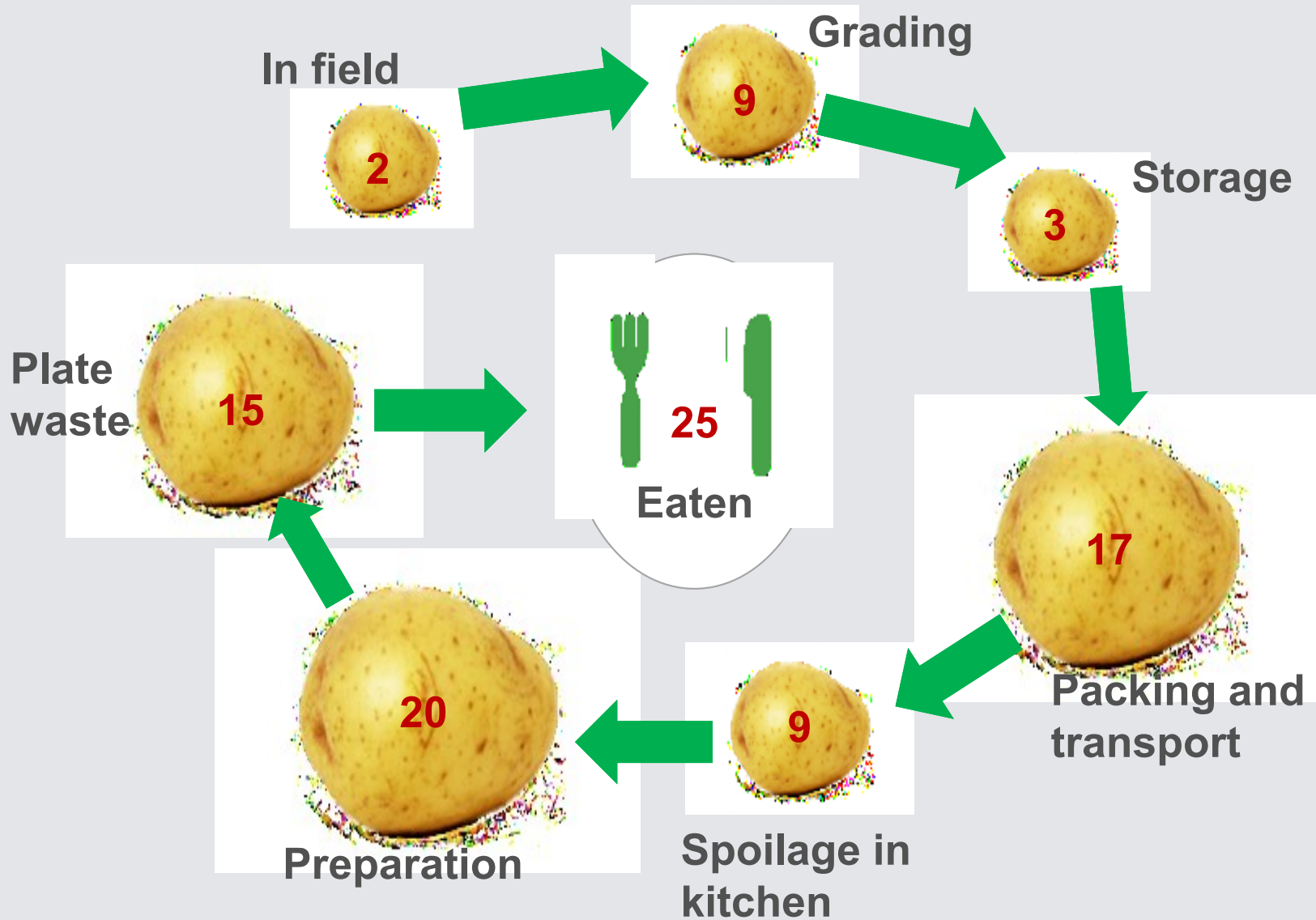
**Creating a zero  
waste society**



# Addressing the challenges; realising the opportunities



# Collaboration – the story of 100 potatoes



# Collaboration – making recycling easier



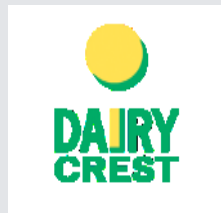
[www.wrap.org.uk/consistentrecycling](http://www.wrap.org.uk/consistentrecycling)



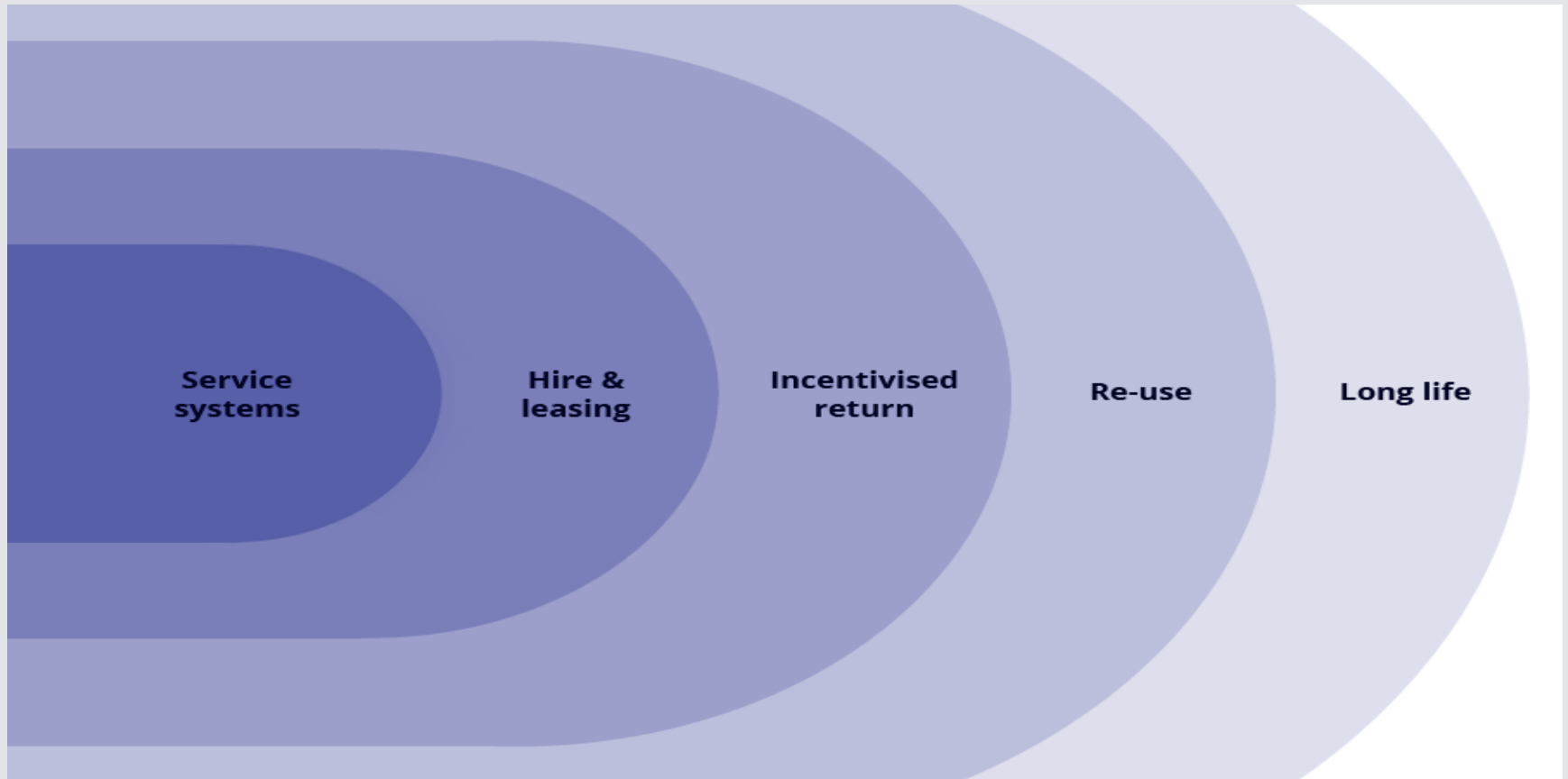
# Innovation - Waste Valorisation – Dairy Sector



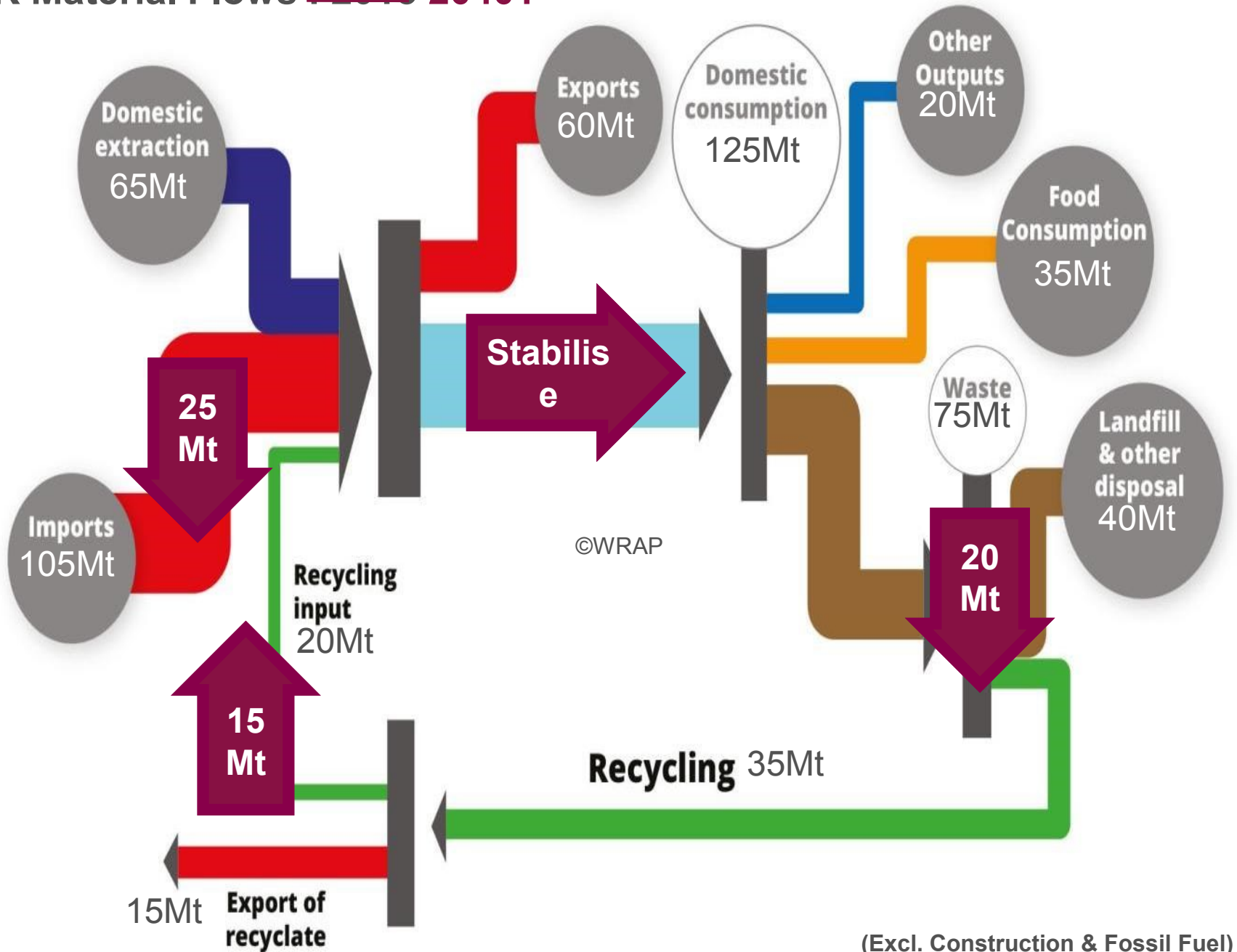
- In depth waste audits in 13 factories
- Top 3 wastes prioritised for detailed quantification and characterisation
- Technology appraisal / outline business case
- Chemical precursors for medicines and vitamins
- New fertilisers
- Protein supplements



# Innovation – new business models



# UK Material Flows : 2015 2040?



# The Prize – economic growth, employment, reduced carbon emissions



Waste & Recycling



Remanufacture



Repair & Re-use



Leasing &  
Service Models

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