

# Resources & Waste

Improvement and Scrutiny - Climate Change, Biodiversity and Carbon Reduction 3 July 2023

## Agenda



- Overview of resource and waste management
- Review of historic performance (locally and nationally)
- Summary of objectives and actions for 2022/23
- Review of outcomes for 2022/23
- Overview of national waste strategy landscape
- Future actions

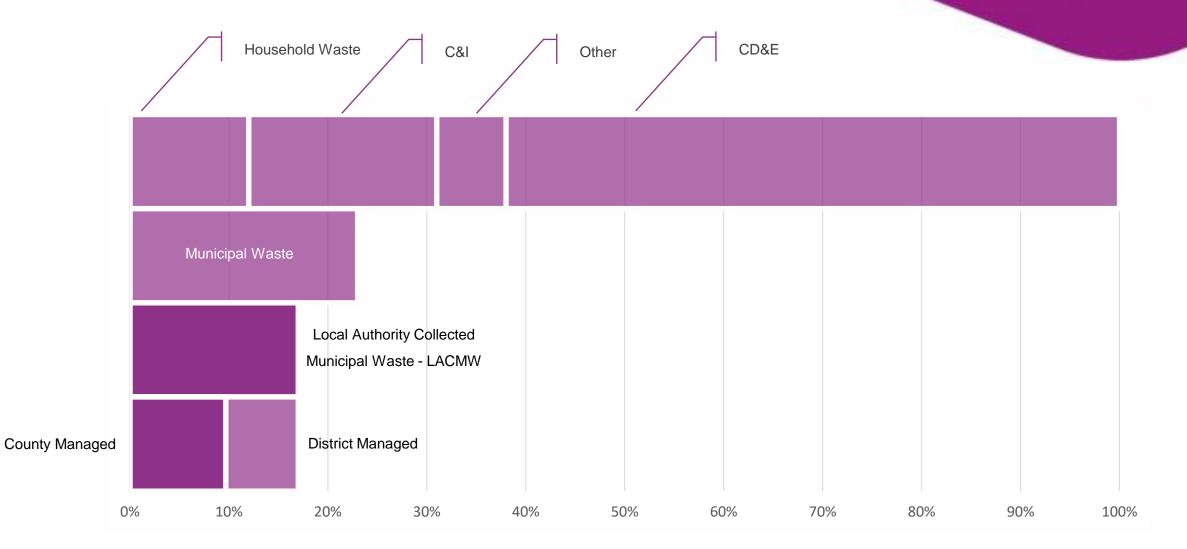
#### **Responsibilities**



	District	County	Unitary
Waste Collection	Yes – Duty to collect household waste and commercial waste of a similar composition		Yes
Recycling	Yes – Duty to collect separately and ability (not duty) to source own recycling outlets	Yes – Duty to arrange disposal of all waste (including recycling) delivered to it by a WCA	Yes
HWRCs		Yes – Duty to provide location for free disposal of household waste for residents	Yes
Disposal		Yes – Duty to arrange disposal of all waste (including recycling) delivered to it by a WCA	Yes
Waste Strategy	Yes – Duty to have in place a Waste Strategy, including publicizing and consulting	Yes – Duty to have in place a Waste Strategy, including publicizing and consulting	Yes

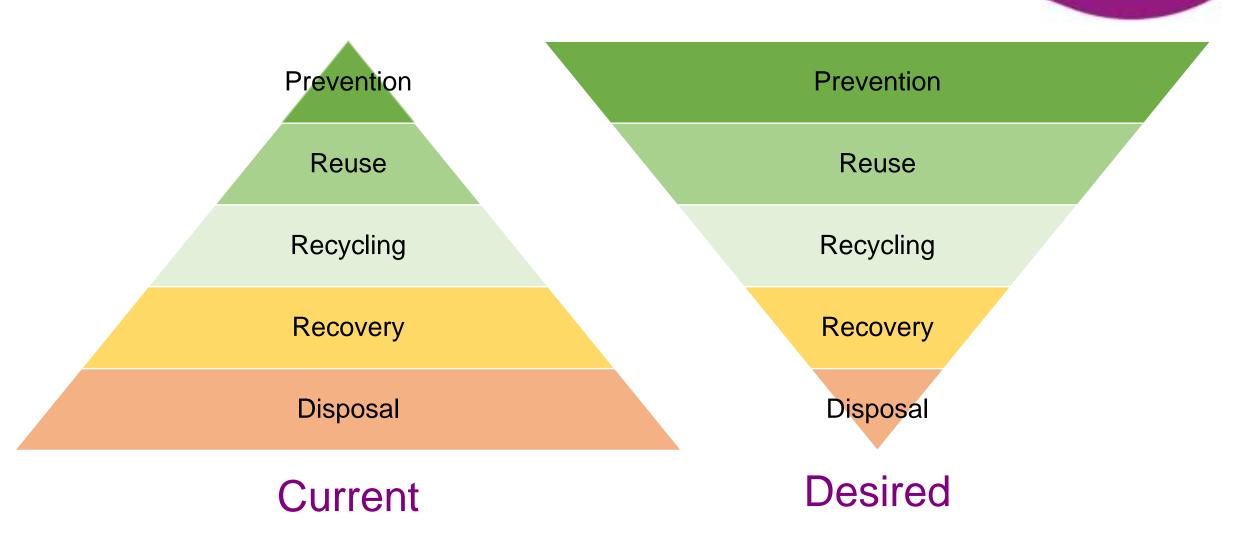
#### **Waste Classifications**





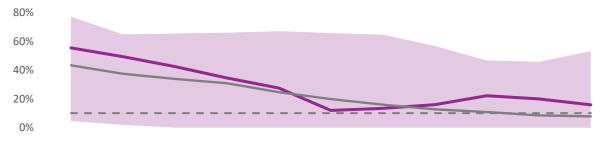
### **Waste Hierarchy**



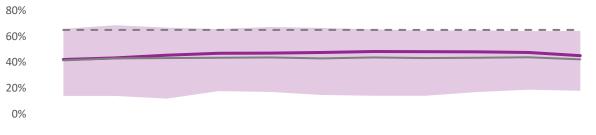


#### **Historic Performance**

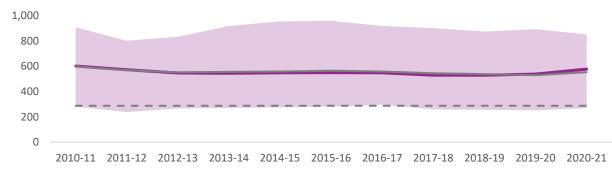
#### Landfill Rate



#### Reuse and Recycling Rate



#### Residual Waste / Household (kg)



- Steady decline in the proportion of waste being landfilled locally and nationally.
- No improvement in recycling at a national level over the last decade.
- 1.8 percentage point improvement locally but recycling rates are still lower today than in 2012-13.
- Almost no reduction in residual waste per person nationally or locally.

### **Climate Change Strategy**



#### **County-wide targets**

- Derbyshire's county-wide target is net zero by 2050.
- To be on course to deliver net zero by 2050 requires a 47% reduction in emissions by 2025 against a 2005 baseline.

#### **County-wide targets for Resources and Waste**

- Reduce household waste production by 20% by 2025 against 2015 baseline.
- Less than 10% municipal solid waste sent to landfill by 2035, with 100% waste diverted by 2050.
- No more food and garden waste sent to landfill by 2030.

### Progress in 2022/23



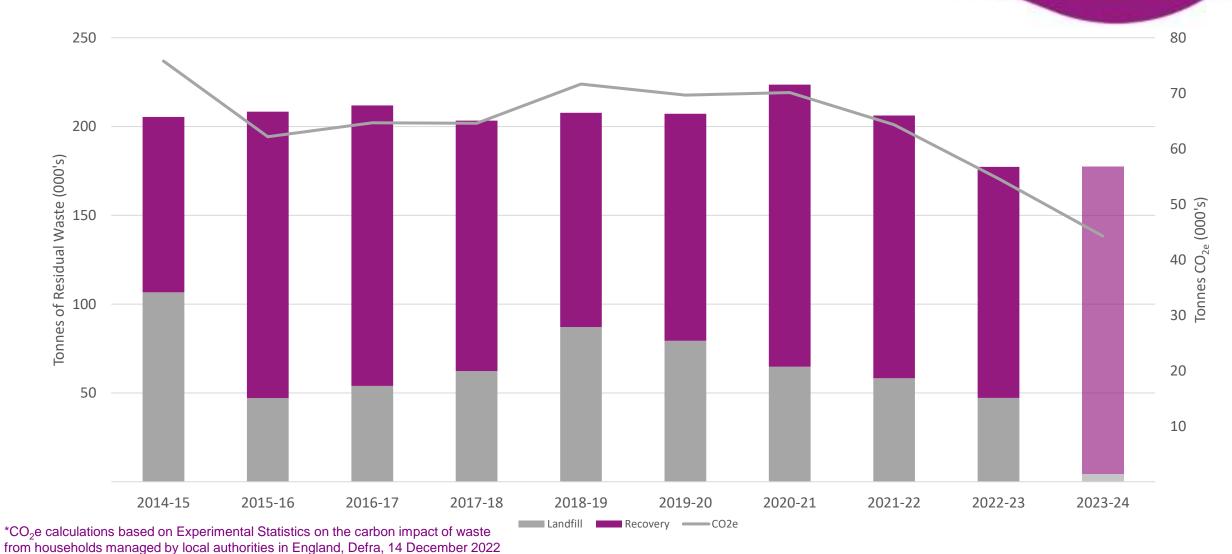
#### Actions

#### **Objectives**

Procurement and mobilisation of new	•	Secure capacity at Energy from Waste facilities to recover value from the County's residual waste streams. (LTA1)
Residual Waste Treatment and disposal contract	•	Reduce the amount of the County's residual and organic waste that ends up in landfill. (T2, T3)
	•	Reduce the carbon intensity and total CO <sub>2</sub> e emitted as a result of the County's waste. (STA4)
Procurement and	•	Improve recycling rates at the County's HWRCs. (STA4, T3)
mobilisation of new		Develop new recycling solutions for household waste materials. (PA1)
Household Waste Recycling Centre Contract	•	Increase re-use in the County (T2, PA4)
Review long-term planning and preparedness for	•	Identify impacts and opportunities arising from national waste policy developments. (STA4)
legislative and broader	•	Review anticipated resource requirements and funding sources (STA4)
sectoral change	•	Develop high-level milestones for 2023/24 – 2024/25 (STA4, LTA1)

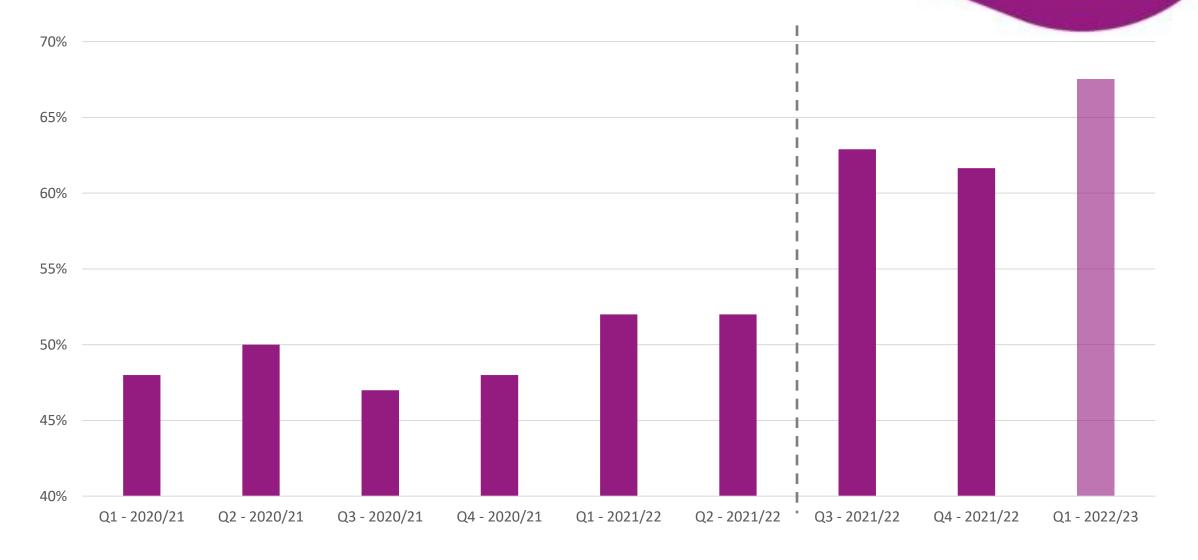
#### **Diversion from Landfill Performance**







#### **HWRC Recycling Performance**



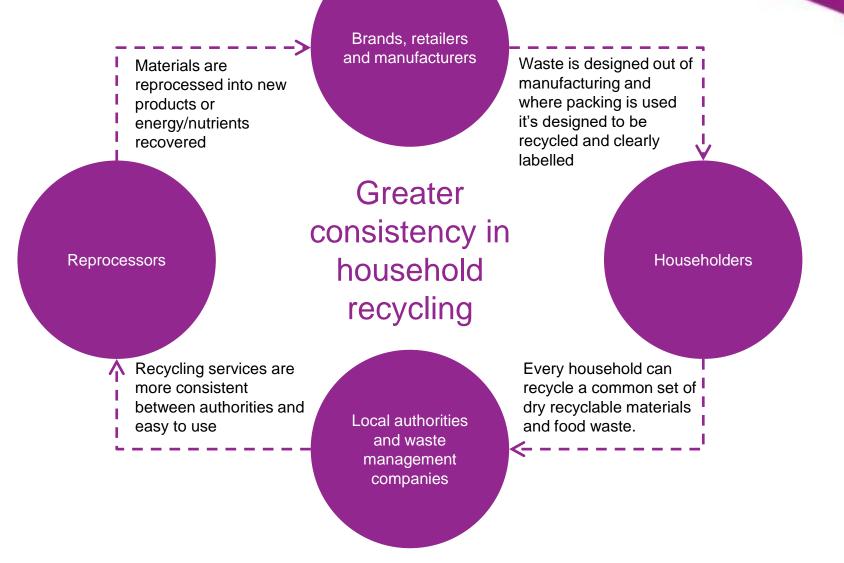
#### **Climate Outcomes**



- 11,000 tonnes less household waste going to landfill (2021/22 v 2022/23).
- Forecast to reduce by a further 43,000 tonnes in the first full contract year (based on current diversion performance).
- c.20% reduction in  $CO_2e$  emissions per tonne of residual waste compared to 2021/22.
- 20,000 tonne reduction in CO<sub>2</sub>e emissions.
- CO<sub>2</sub>e emissions from residual waste are now 42% lower than in 2014/15.
- HWRC recycling rates have increased by over 11 percentage points.
- Introduction of carpet recycling at HWRCs.
- No household waste has been landfilled under the new HWRC contract since its commencement in October 2022 and only 21.34 tonnes of non-household contract waste.
- Contract includes provision for the development of 1<3 re-use shops at our HWRCs over the next two years.
- Creation of new Waste Strategy and Engagement team (5 FTE).

## **National Strategy**





#### **Government Interventions**



- Extended Producer Responsibility (EPR) April 2024?
- Mandatory separate weekly food waste collection March 2025?
- Greater consistency of recycling at national and regional level.
- Incineration within scope of UK Emissions Trading Scheme (UKETS).
- New systems for digitally tracking waste from source.
- Deposit return scheme.
- Recycling targets of 65% and aim to reduce residual waste per capita by half.

### **Projected Benefits – UK\***



- Financial benefits for local authorities of the order of up £400 million over eight years.
- Up to £478 million of materials returned to the economy from the sale of dry recyclables.
- Up to **11.6mt of materials and food waste collected for recycling**, adding approximately 7 percentage points to the household waste recycling rate for England.
- Up to £33 million in reduced costs to reprocessors from not having to remove contamination from materials before processing.
- Up to 8mt of organic fertiliser available to the agri-sector, with a nutrient value of £30 million
- Supplying around **682,000 homes with renewable energy** generating sales of up to £280 million a year, improving the UKs energy security.
- Improved environmental outcomes with up to 5.1mt CO<sub>2</sub>e avoided, benefiting the environment directly and supporting the UK's overall carbon budget targets.

### High Level Plan (STA4)



1	2	3
Resourcing (9 months)	Building an evidence base (6 months)	Identifying delivery options (3-6 months)
<ul> <li>Realigning revenue budgets to create additional</li> </ul>	Waste composition analysis	Evaluation of shortlist policy/operational options
capacity for strategy development, infrastructure	Creation of As-Is waste management system model	Cost/Benefit analysis
management and contract/commercial	Mapping costs	Development of critical success factors
management.	<ul> <li>Carbon intensity assessment and waste mass</li> </ul>	
<ul> <li>Identifying funding for building an evidence base.</li> </ul>	balance of current system	

- Procurement of external support.
- Recruitment of internal resource.

 Long-list of policy/operational interventions and delivery mechanisms

4	5	6
Business case development (4 months)	Governance model (6-8 months)	Delivery (TBD)
Mapping the financial and non-financial impacts of	Establishing clear governance arrangements to put	
local options and government policy (winners and	the DWP on a more formal footing.	
losers)	Agreeing commercial principles / pain gain sharing	
<ul> <li>Public consultation and engagement</li> </ul>		

#### **Questions?**

