

Ireland's Municipal Waste Characterisation Study – 2022

Waste Advisory Group Meeting

Karen Creed Waste Statistics Team, 19 October 2023

# What is Municipal Waste?



Municipal Waste is the waste we all produce everyday in our home, offices, businesses and schools.



- ▶ Ireland generates 3.2 million tonnes of municipal waste each year.
  - ▶ ~20% of all waste generated
  - ~ 41% of municipal waste is recycled
    - On track to miss recycling target of 55% by 2025.



### Introduction to MWC



- ▶ The 2022 national municipal waste characterisation (MWC) study looked at the composition of municipal waste collected at kerbside.
  - i.e. What is in our household and commercial bins?



- Enable waste statistics reporting
- Inform circular economy & waste policy
- Plan waste management & waste infrastructure
- Support regulatory & enforcement activities





# 2022 MWC – Methodology

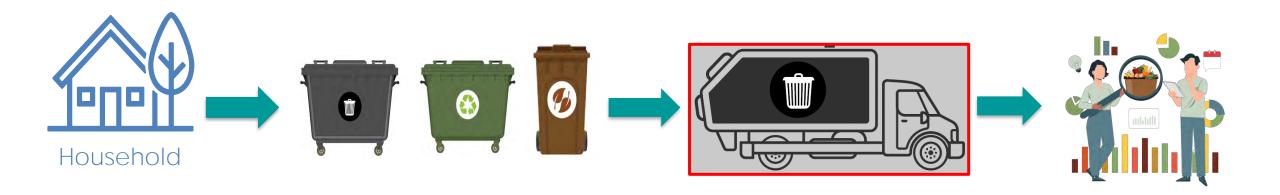


- Engaged to two companies to characterise the household & commercial mixed municipal waste streams collected at kerbside:
  - General waste bin
  - Recycling bin
  - Organic waste bin
- Waste is sorted into 81 different material categories.



# 2022 Household MWC – Methodology





- Household waste samples collected at waste collection centres.
- i.e. collected samples of mixed waste from the bin lorry rather than directly at kerbside.

# 2022 Commercial MWC – Methodology



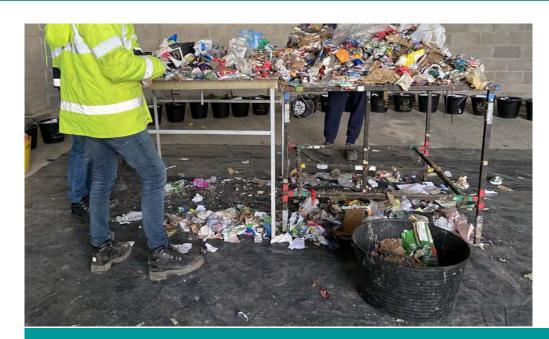


Commercial waste samples collected directly from kerbside bins at commercial premises.
 Waste collected at 'sector level' as waste generated by different sectors is different

 (e.g. offices/restaurants/shops/hospitals)

# Onsite sampling







Each waste sample put onto a sorting table, hand sorted into 81 material categories (buckets), bucket contents weighed & weight recorded.

## 2022 MWC - Results



### So what is in our bins?





What is in the Household General Waste Bin?





What is in the Household Recycling Waste Bin?



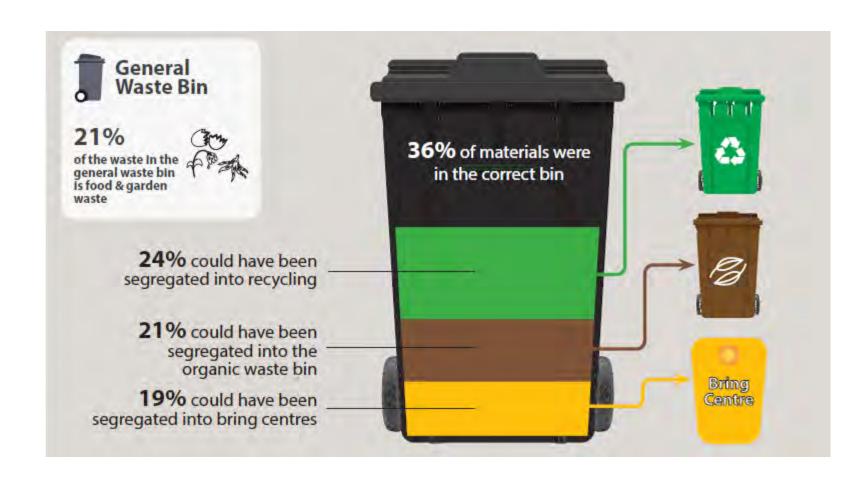


What is in the Household Organic Waste Bin?





General
Waste
Segregation
Assessment



### National Household Waste Profile





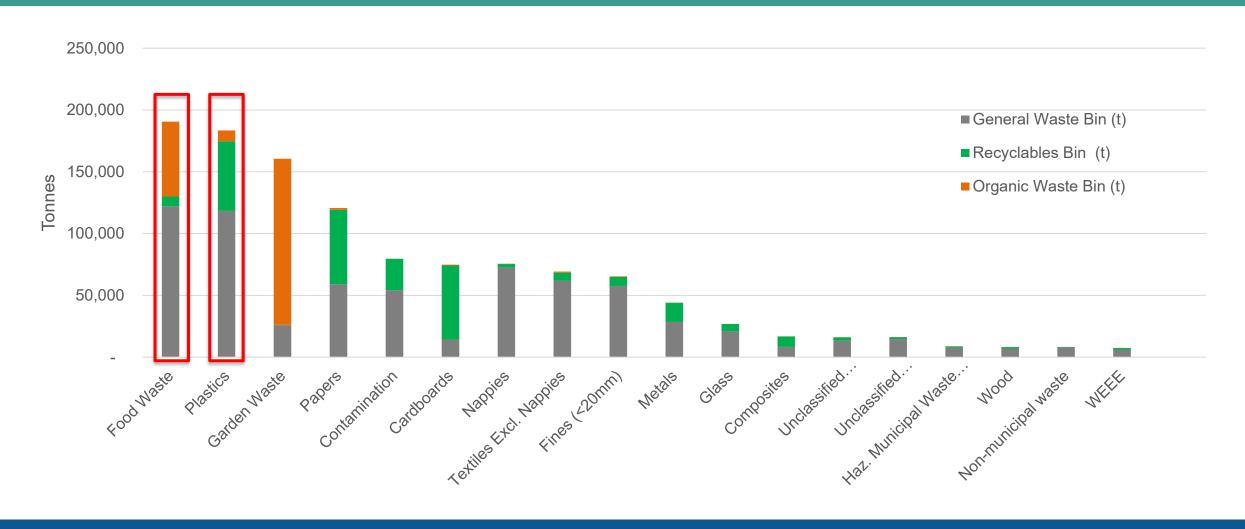
**Waste Composition** 

**Annual Household Waste Tonnages** 

**National Household Waste Profile** 

### National Household Waste Profile





### 2022 MWC - Results



### So what is in our commercial bins?





What is in the General Waste Bin?





What is in the Commercial Recycling Bin?



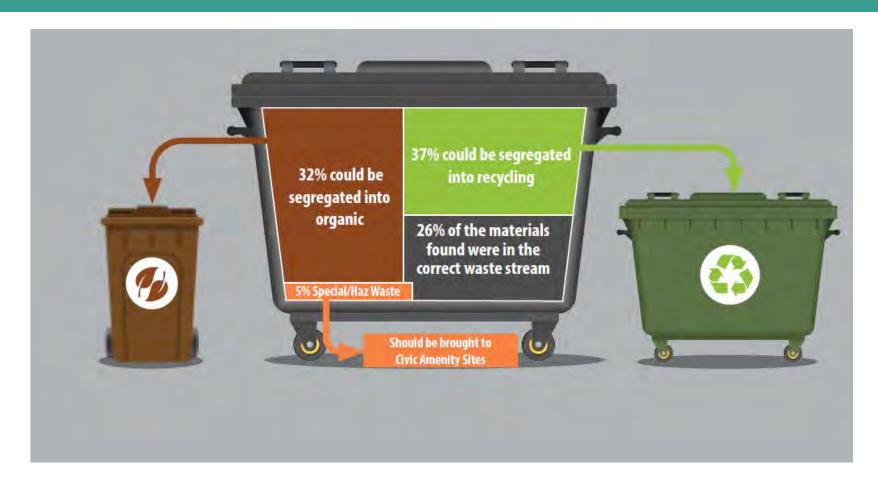


What is in the Commercial Organic Waste Bin?



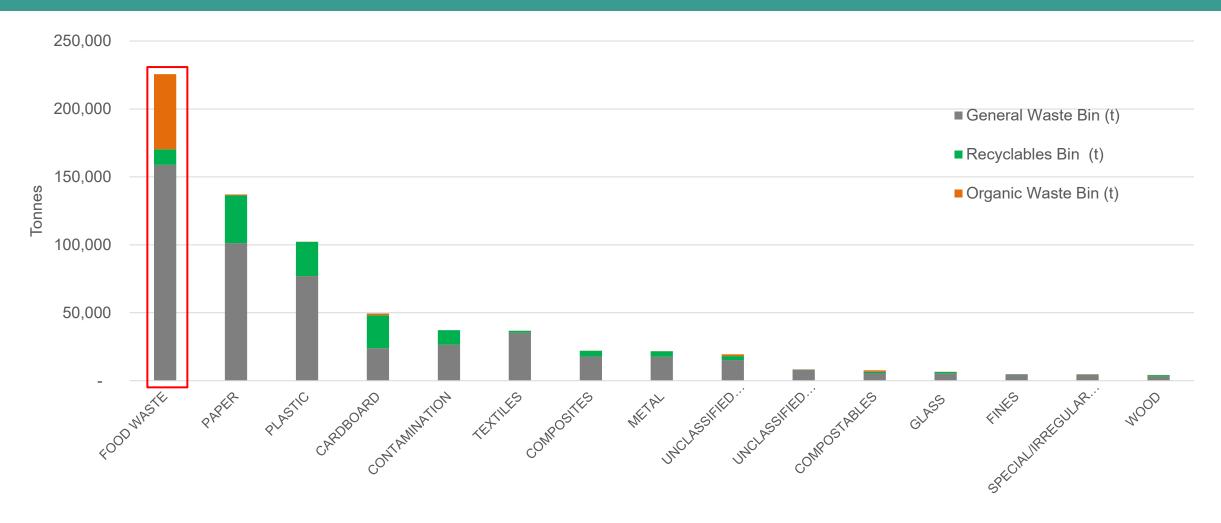


General
Waste
Segregation
Assessment



## National Commercial Waste Profile





# Municipal Waste Changes since 2018



What has changed since the last MWC in 2018?



- Two thirds of waste still in the wrong bin.
- Food waste & plastics still most common wastes in municipal bins.
- Papers down in household and commercial bins



### Waste Characterisation - Conclusion



#### **Household Bins**



#### **Commercial Bins**



Urgent action is needed to improve household and commercial waste segregation particularly **food wastes and plastics.** 

# Actions to improve segregation





- Organic waste bins to be provided to all households and commercial premises.
- Enforcement of
  - Organic waste bin roll out to ensure the same level of service for all customers
  - Segregation of food waste, initially in food services sector & then all sectors.



▶ Targeted awareness campaigns to motivate and support householders and the commercial sector to segregate food waste and plastics.



Improved waste collection charging to **incentivise** and **reward** waste better segregation and waste reduction practises.



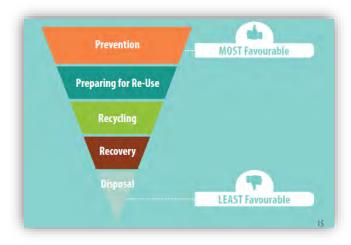
▶ Improved recycling infrastructure to support householders to use civic amenity sites, recycling centres and bring banks correctly.

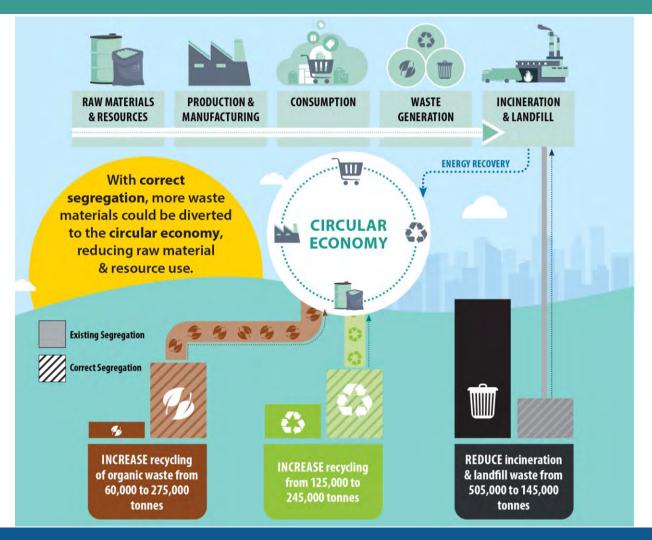
# The Future of Municipal Waste



Currently in our linear economy the majority of municipal waste are disposed in our general waste bins and are mostly incinerated or landfilled.

But the future could be different......







# Thank you

Latest Municipal Waste Characterisation published @ www.epa.ie/nationalwastestatistics



