



# Organic waste processing: Collection, Processing and Challenges

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# Who we are

## Our Subsidiaries





# Food and garden waste today



## Food waste:

- 9.5 MT total food waste
- 6.6MT from households
  - 4.5 MT still edible
  - 2.1MT inedible
- 18% reduction in food waste since 2007
- Approx 2.2MT recycled through composting and AD

Household garden waste:  
3.39MT going to composting





# Collections and treatment

A blue truck is shown from the rear, dumping a large amount of dark, moist organic waste (likely food and garden waste) into a large pile. In the background, a blue excavator is visible, and the setting appears to be an industrial waste treatment facility with large buildings and a paved area.

Local Authorities across UK = 360

LAs offering:

- Garden waste collection = 294
- Mixed food & garden waste collection = 60
- Food waste collection = 185
- No organic waste collection = 3



# Collections and Treatment

Composting sites:  
Approx. 300 sites  
around 40 sites approved  
to take food waste – In-  
vessel composting.

Composting sites  
processing  
approx. 6MT of biowaste  
every year



# UK compost sites

## Map Legend

-  Compost facilities (non ABP, non CCS)
-  Compost Certification Scheme certified (PAS100)
-  CCS and ABP sites
-  ABP (Animal by-product) approved facilities

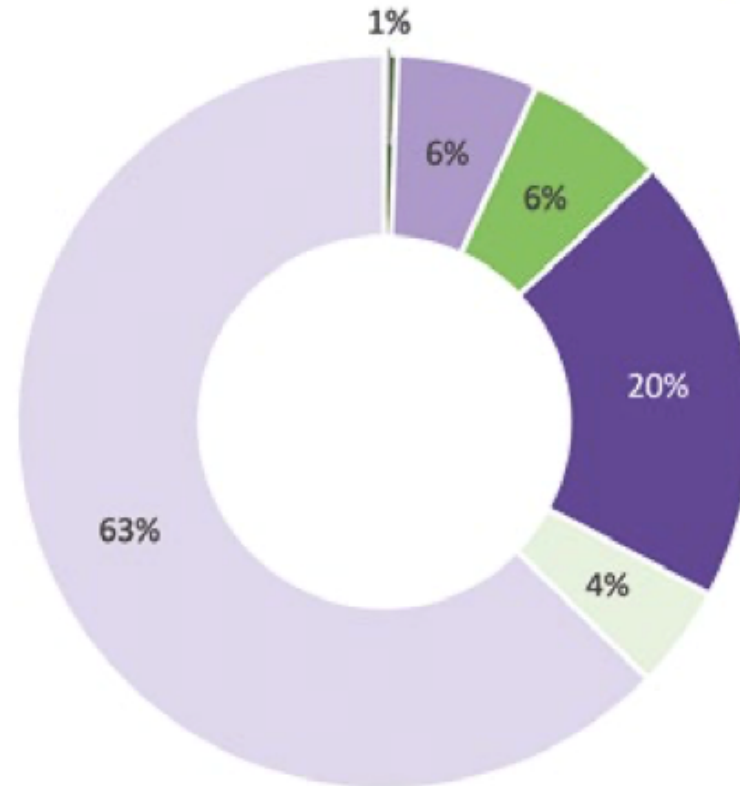




Compost sites approved for food waste



## Types of Certified composting facilities



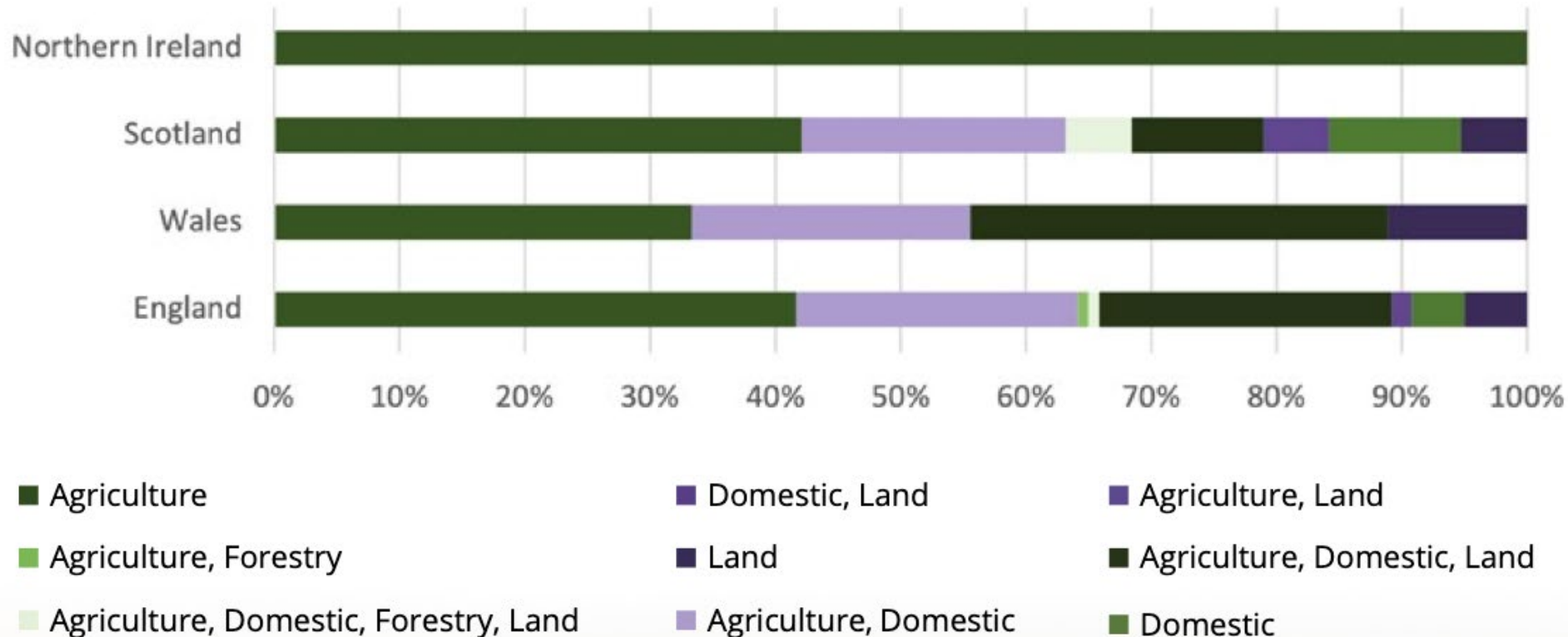
- EcoPods
- Aerated Static Piles
- In-Vessel Composting
- In-Vessel then Open Air, Turned Windrows
- In-vessel then Aerated Static Piles
- Open air, Turned Windrows





- 1.8 MT of certified compost produced
- Product types:
  - Soil improver (96%)
  - Mulch (1.7%)
  - Manufactured topsoil ingredient (0.6%), growing media ingredient (0.6%), landscape blend (0.6%).

## Compost output and markets





# Tackling contamination





## COMPOSTING FEEDSTOCKS RECEIVED IN ENGLAND, AND CONTAMINATION RATES

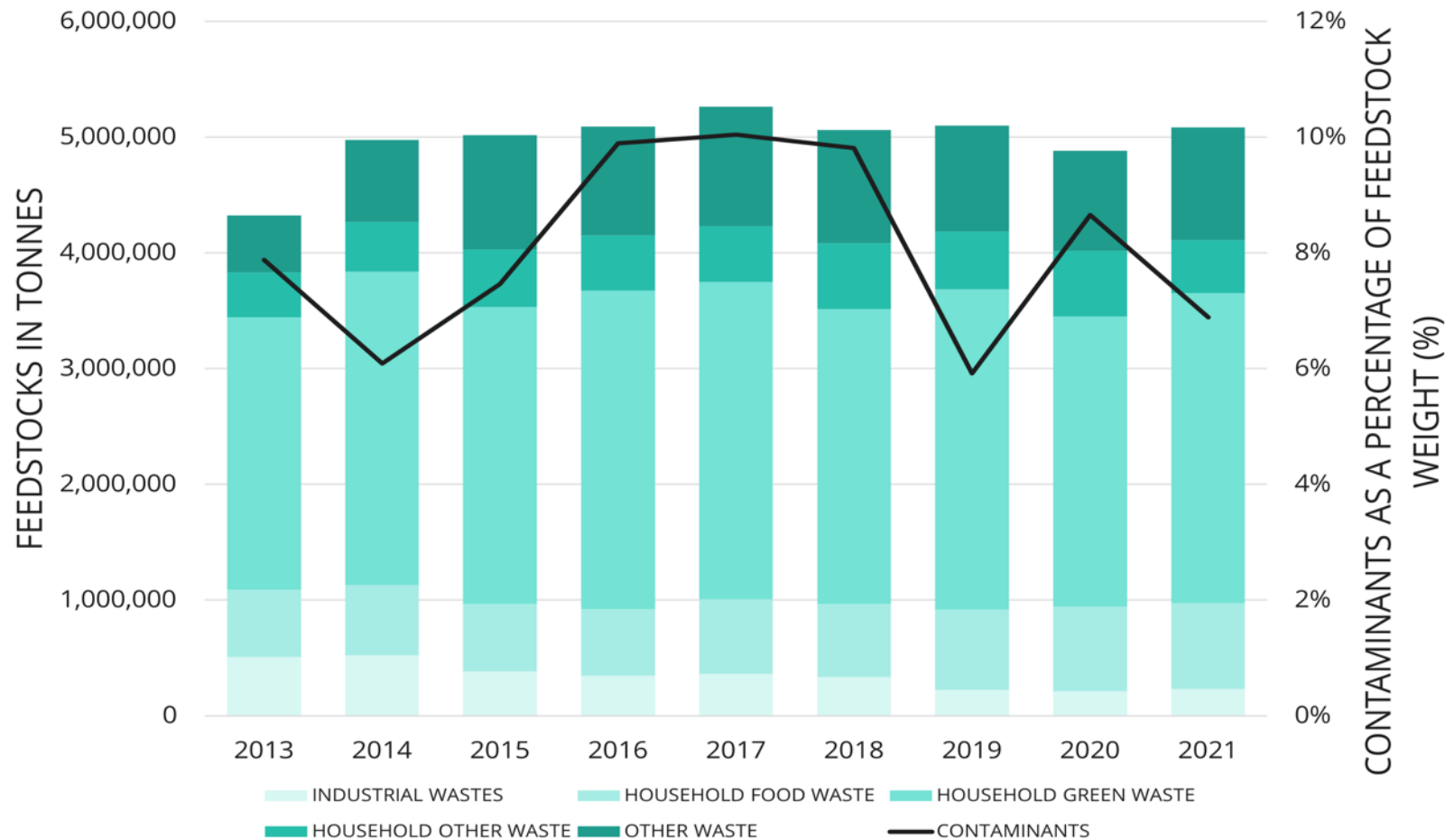
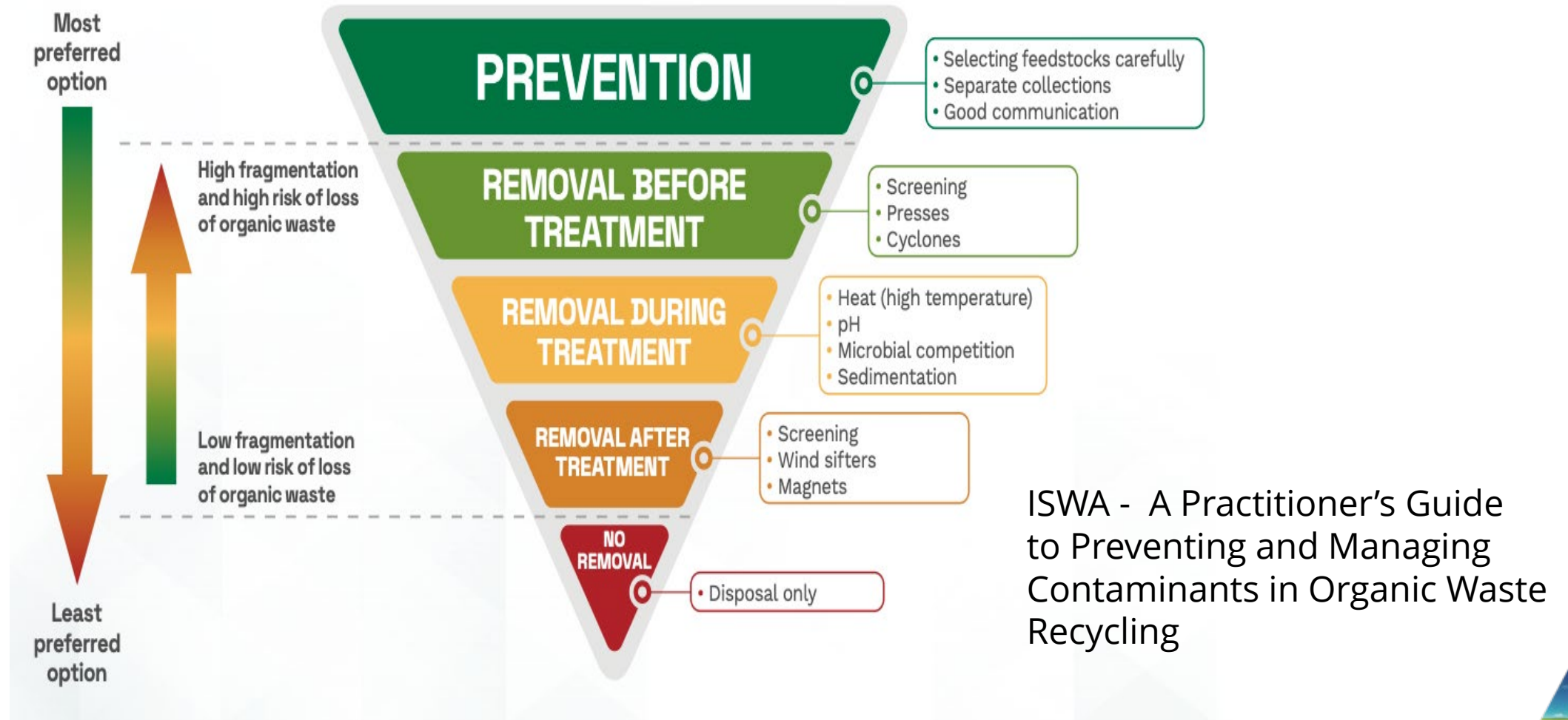


Figure 6: The contaminant management hierarchy





# Quality Standards

PAS 100:2018

Specification for composted materials

Total contamination (glass, metal, plastic and other non-stone fragments) >2mm  
0.25% w/w

Plastic >2mm 0.12% w/w

Scotland:  
Plastic >2mm 0.06% w/w  
**50% of PAS100 limit**





## Opportunities

- Simpler recycling and other policy reforms
- Phasing out of peat / peat bans
- Recognition of value of outputs
  - Increase crop yields
  - Provides valuable readily available nutrients (digestate)
  - Compost increases soil organic matter, improves soil structure and useful source of nutrients
- Organics play vital roles in:
  - Changes to soil health policies
  - Carbon footprint reduction
  - Enabling reduction of peat usage





## Getting it right

- Investment in sector to deal with increased volumes
- Consistent approach with education and communication
- Compostables
  - Bags and liners
  - Compostable products in appropriate applications
  - Certification and Labelling
  - Extended Producer Responsibility
- Integration of AD and Composting
- Novel technologies





**Thank you!**

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