

EP Policy Workshop on the Integrated Nutrient Management Action Plan

Closing nutrient cycles: reshaping the EU agri-food system for greater autonomy and sustainability

# Increasing recycling and better separation of waste as means to support self- sufficiency

Presented by

**Stefanie Siebert, Executive Director of ECN**



# ECN

Compost and Digestate  
for a Circular Bioeconomy



European Compost Network



@ECNnetwork

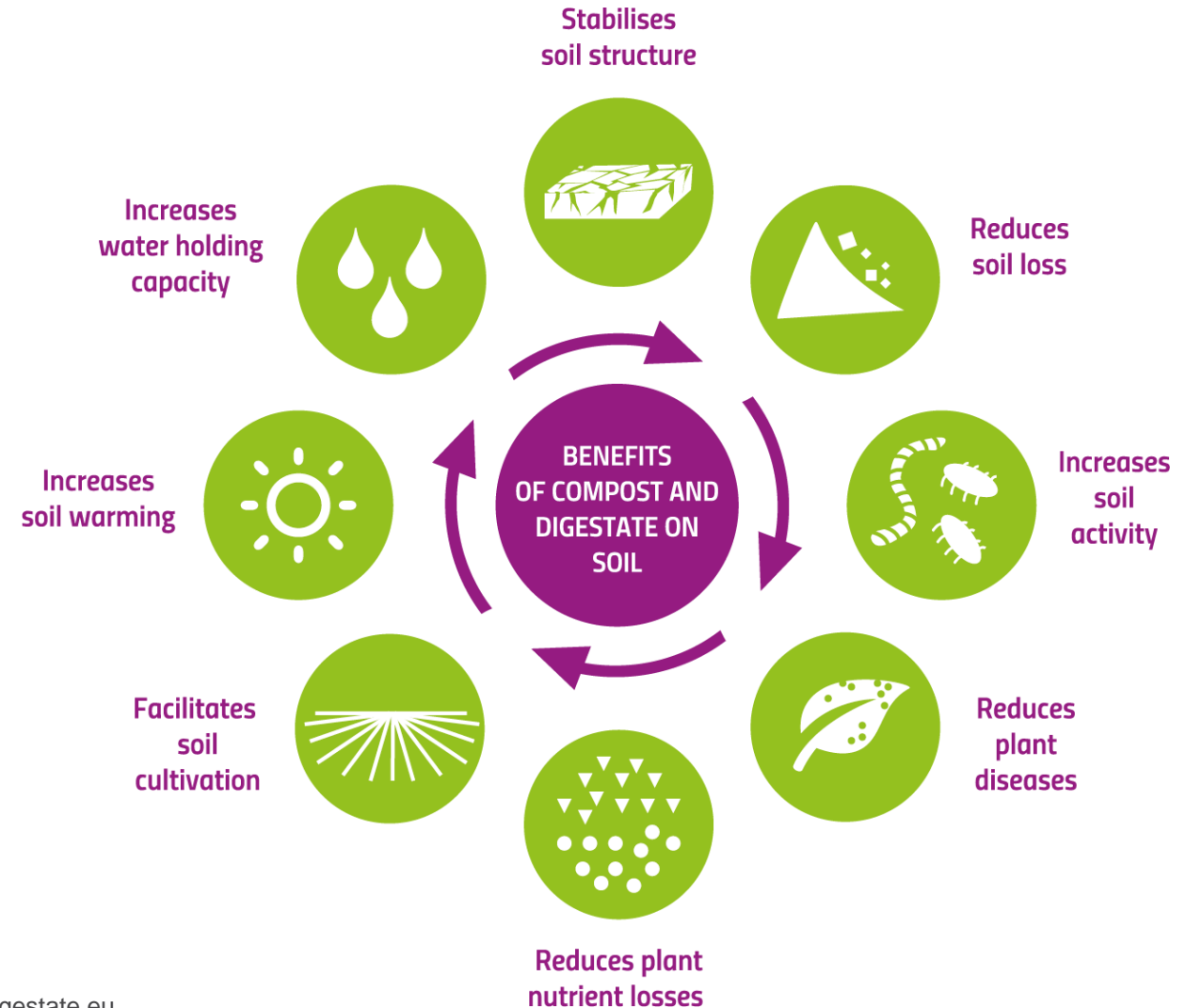
# European Compost Network

ECN is the leading European membership organization promoting sustainable recycling, practices of separately collected biowaste and organic resources through composting & anaerobic digestion.

66 members from 28 European countries

48 M tpa treatment capacity

4.500 treatment plants (composting & AD)



# Biowaste & The Bioeconomy

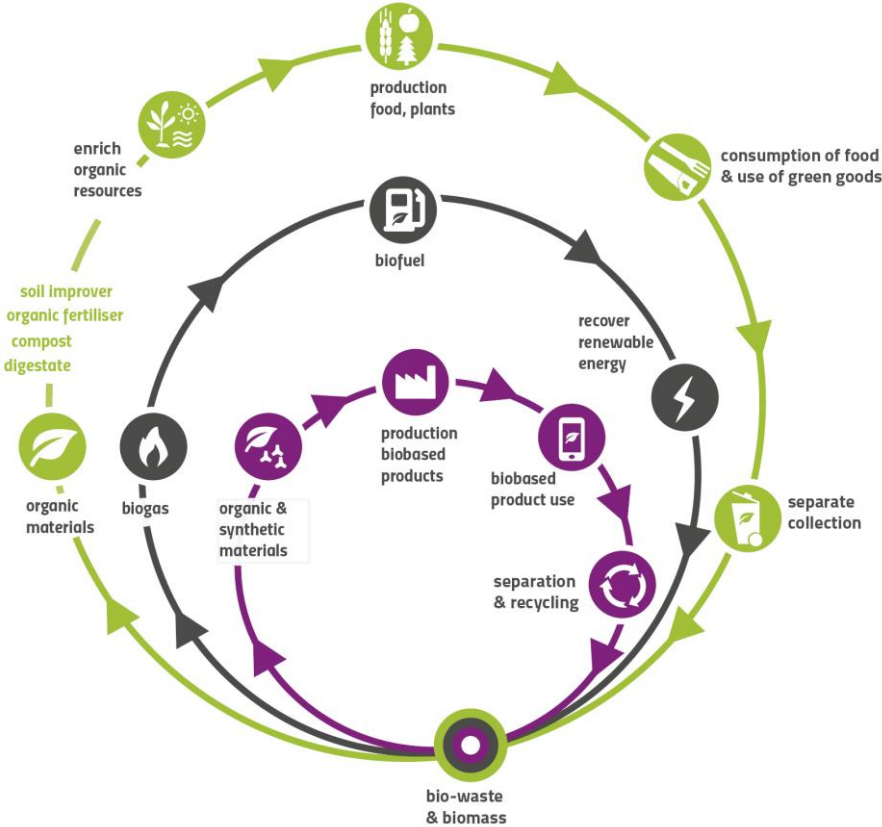
## BIOWASTE



## A Cross-Cutting Resource

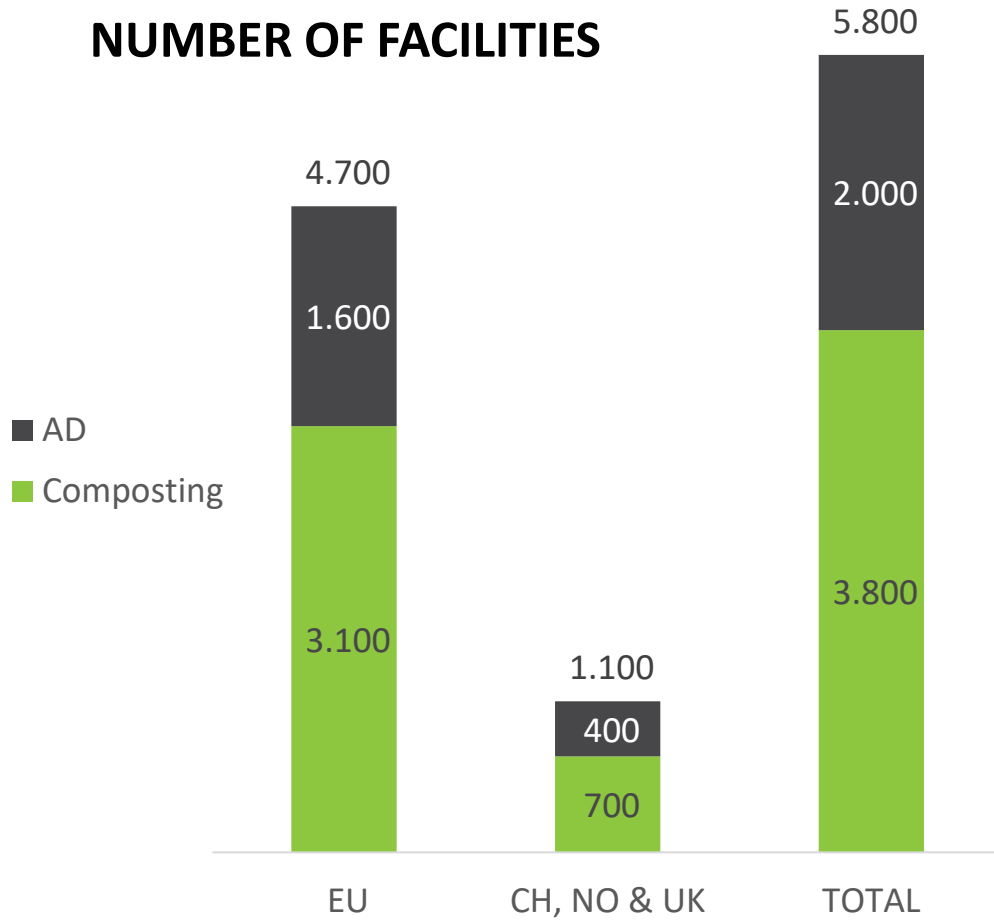


## BIOWASTE in the Circular Bioeconomy

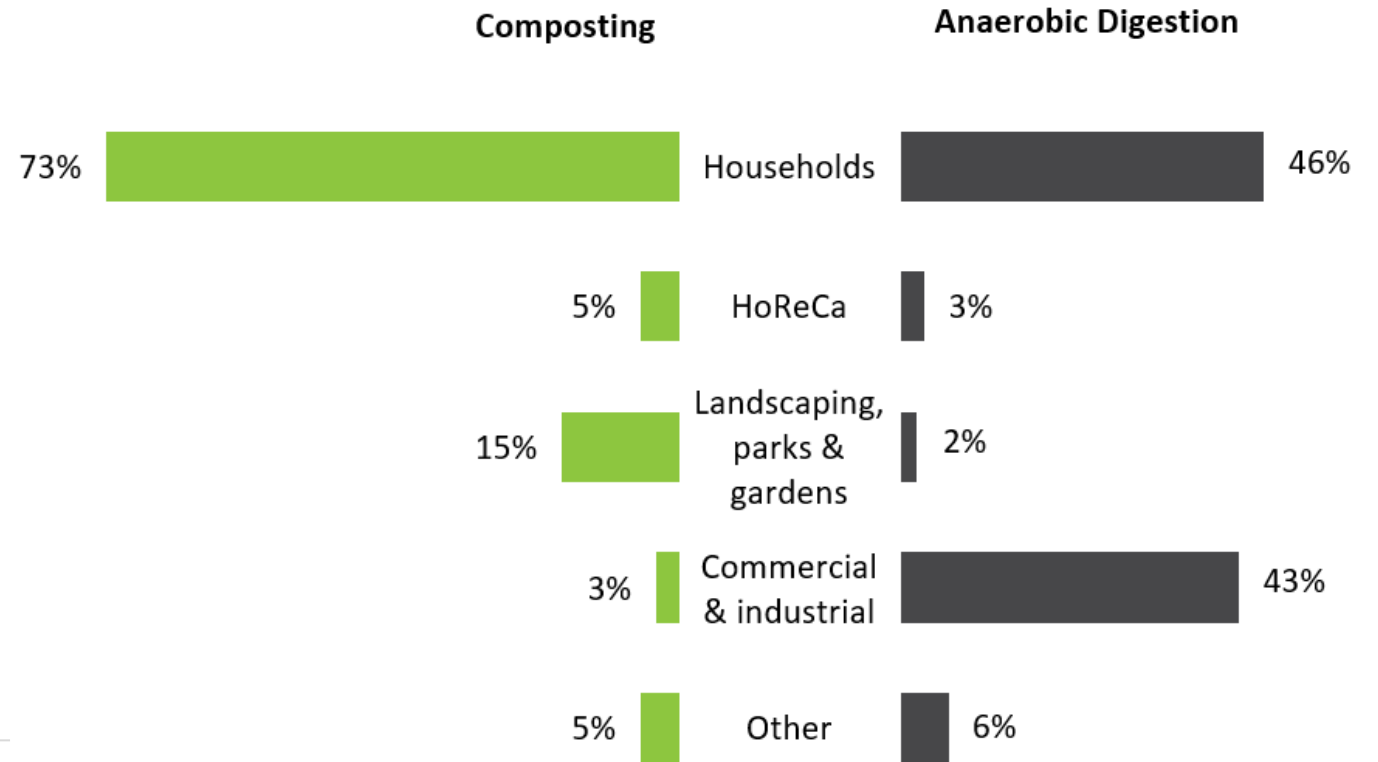


# Biowaste Treatment – FACILITIES & SOURCES OF BIO-WASTE

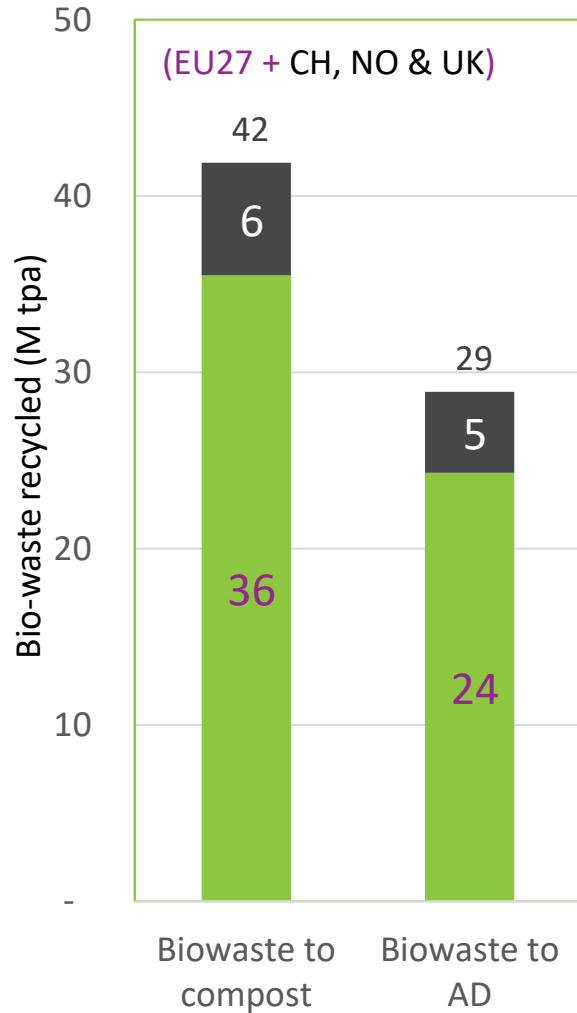
## NUMBER OF FACILITIES



## SOURCES OF BIO-WASTE



# Biowaste Collection – COMPOST & DIGESTATE PRODUCTION



## 71 M tpa

BIO-WASTE RECYCLED

## 21 M tpa

COMPOST PRODUCED

Surface area (million ha)	Fraction of Arable Land	Fraction of Mod./ Severely Eroded Land
2.1	2%	16%

**1 tonne of compost (fresh mass)**

**sequesters**

**30 kg soil organic carbon**

**110 kg CO<sub>2</sub> equivalents**

(equivalent to 11% of its mass)

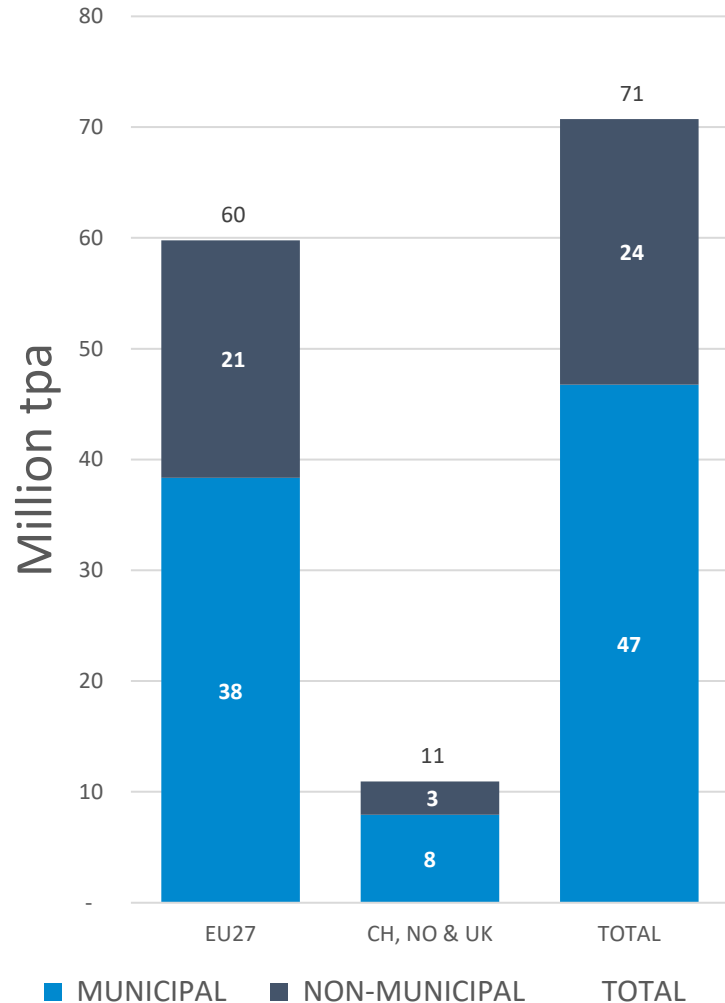
1.2 million tonnes  
CO<sub>2</sub>-eq  
sequestered on  
agricultural soils  
every year

=



19.1 million  
urban tree  
seedlings grown  
for 10 years

# Municipal Biowaste – RECYCLING POTENTIAL

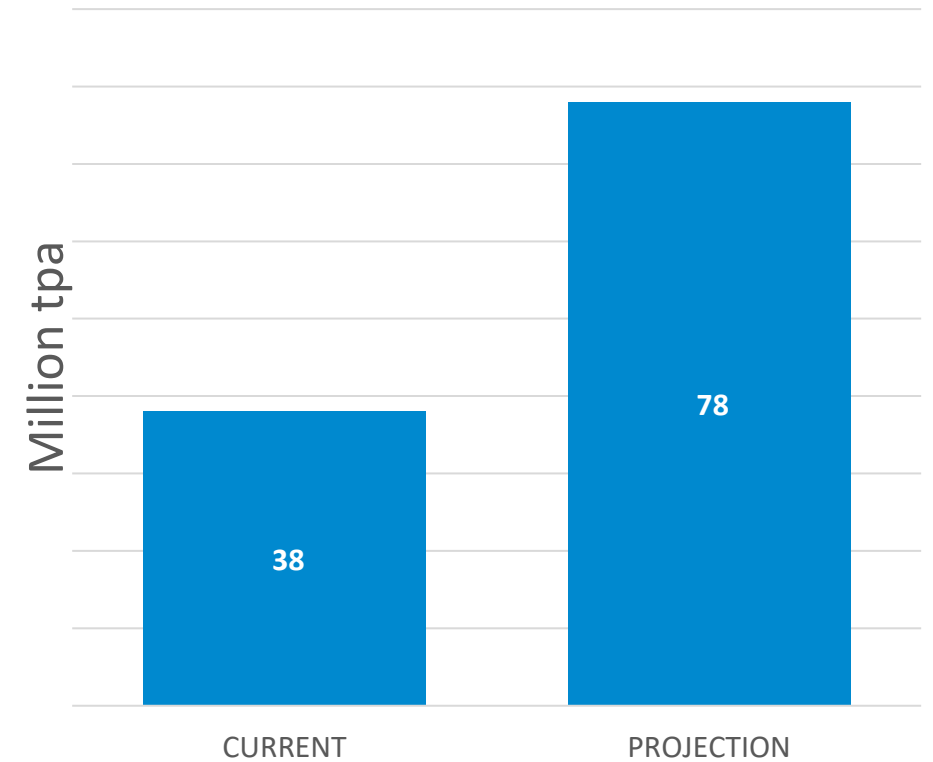


**EU TARGET TO RECYCLE 65% MSW BY 2035**

**17% to 35% needed through bio-waste**

**Extra 40 M tpa**

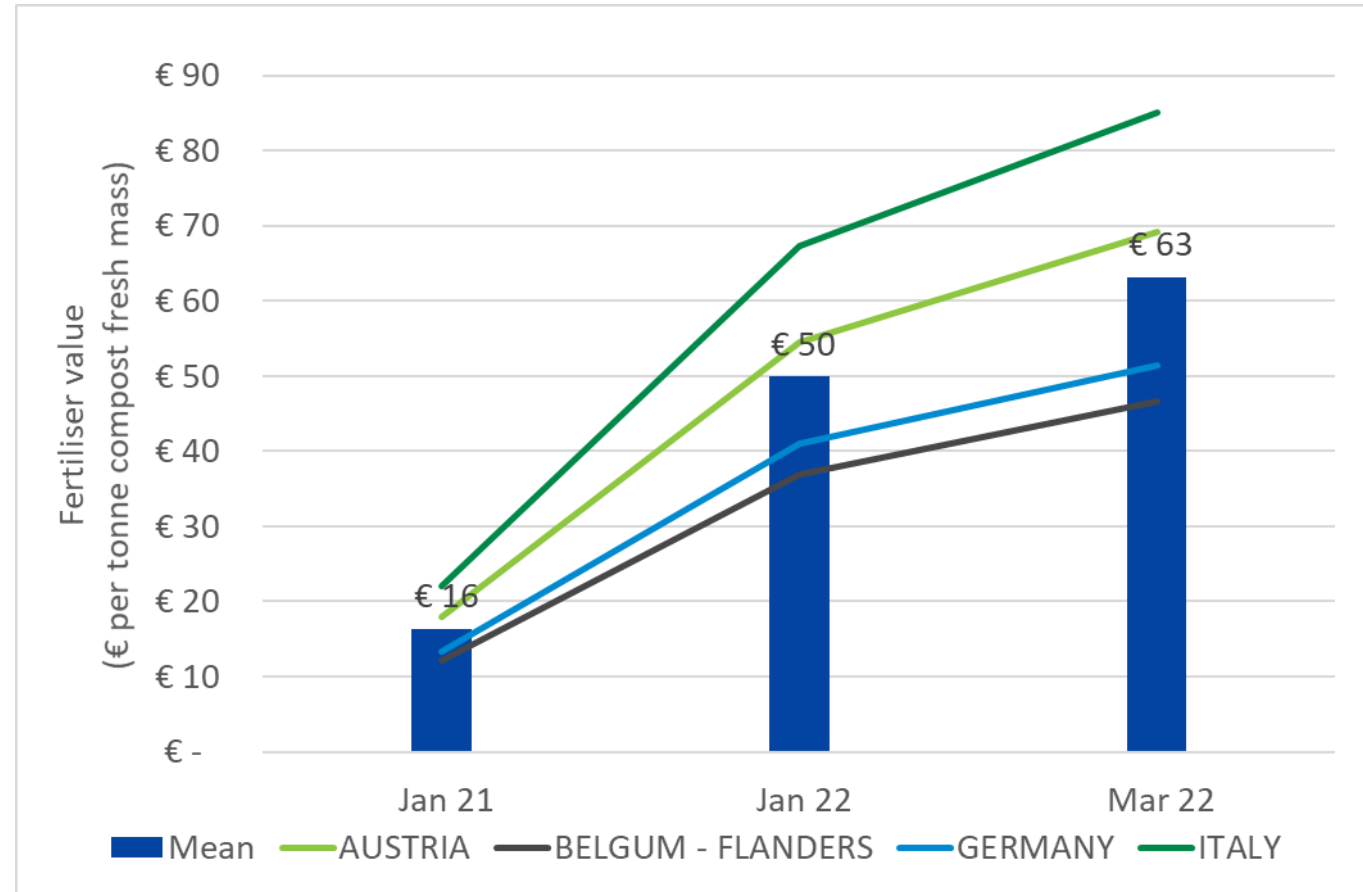
**MUNICIPAL BIOWASTE has to be separately collected!**



# Biowaste – HIGH QUALITY RECYCLING

## PRECONDITION FOR HIGH QUALITY RECYCLING

- Separate Collection of Biowaste
- Quality Assurance of Processes and Products
- End-of-Waste Criteria

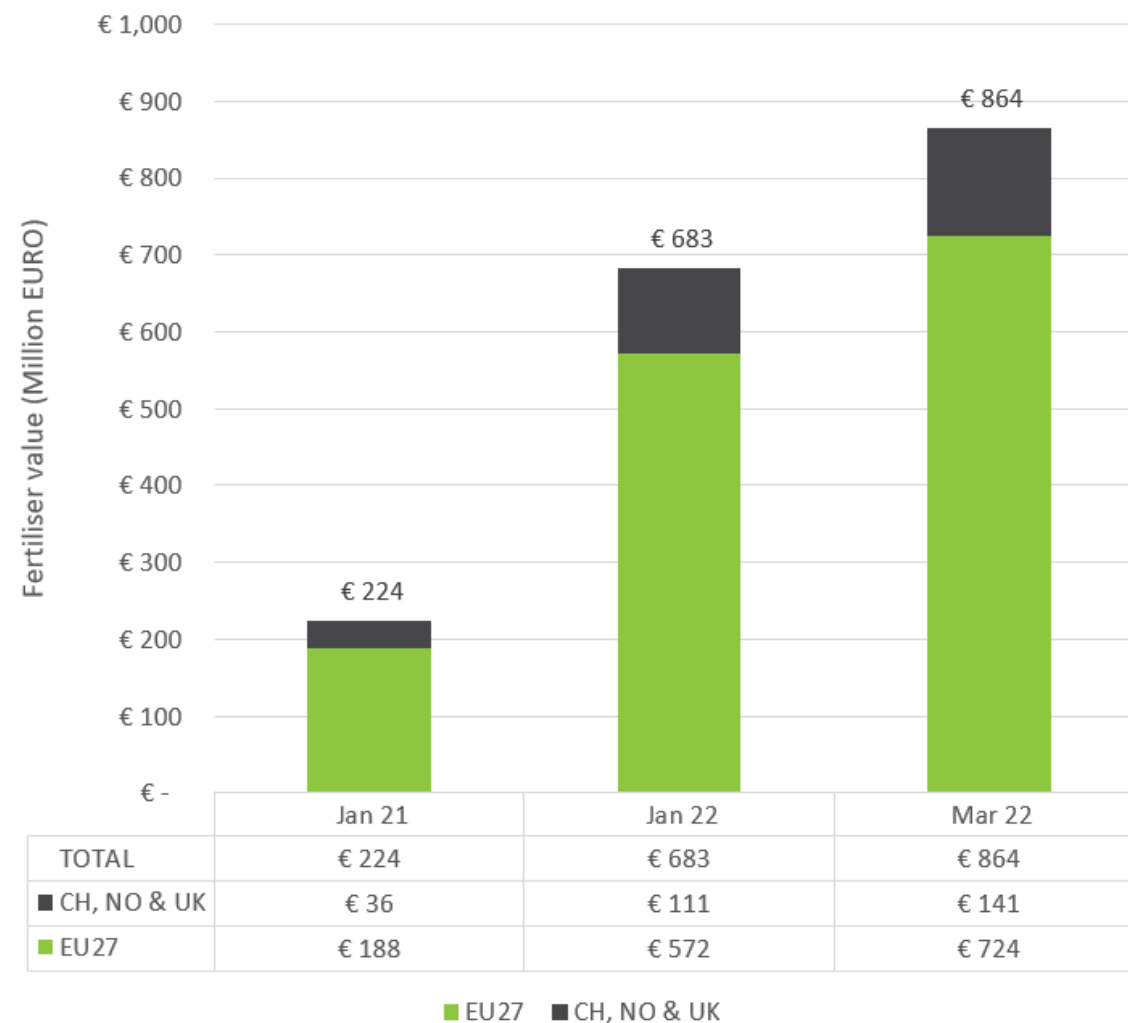


# Compost & Digestate – FERTILISER RESOURCE AND VALUE

## Estimated Quantities of NPK Fertilisers in Compost

	N	P as P <sub>2</sub> O <sub>5</sub>	K as K <sub>2</sub> O
	(thousand tonnes)		
<b>EU27</b>	142	53	84
<b>CH, NO &amp; UK</b>	28	10	16
<b>TOTAL</b>	170	63	100

N % FM	P as P <sub>2</sub> O <sub>5</sub> % FM	K as K <sub>2</sub> O % FM
1.2	0.5	0.7
FM Fresh Matter		





# Further information

**REGISTER NOW!**  
**WORLD SOIL DAY | 5 December 2022**  
**WEBINAR**  
**SOILS, WHERE FOOD BEGINS**

organised within the initiative  
**SAVE ORGANICS IN SOIL**  
by  
**ECN and VLACO**



Register here:

<https://cutt.ly/h1cej6R>



ECN  
Compost and Digestate  
for a Circular Bioeconomy

[www.compost-digestate.eu](http://www.compost-digestate.eu)

**ECN DATA REPORT 2022**  
**COMPOST AND DIGESTATE FOR A CIRCULAR BIOECONOMY**  
Overview of Bio-Waste Collection, Treatment & Markets Across Europe



Download here:

<https://cutt.ly/D1ceQ2u>