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Technical Assistance for Assessment of Turkey's Potential on Transition to Circular Economy

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Bio-waste in Europe-turning challenges into opportunities

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Activity 1.2.1. Circular Economy Training
12th May 2022 - Antalya, Türkiye

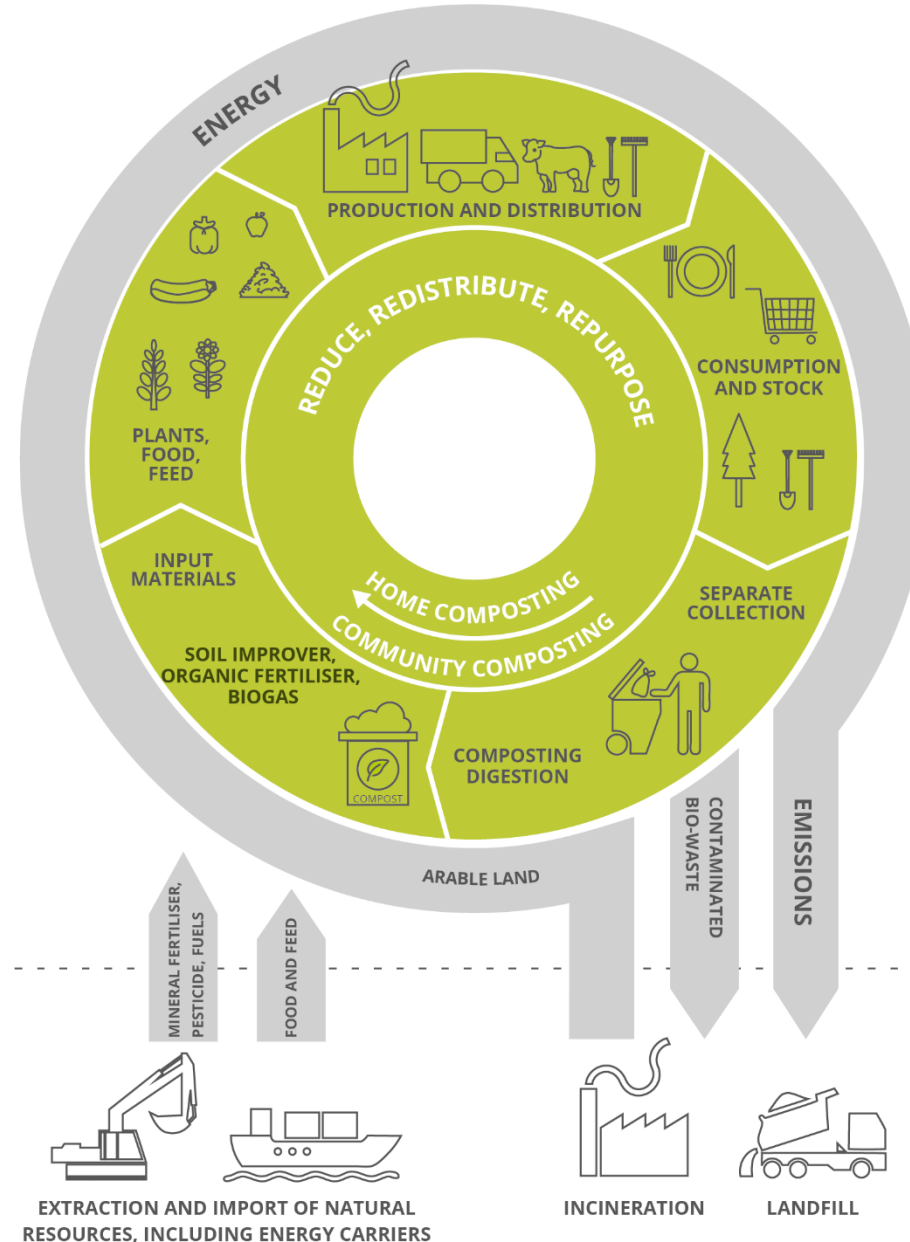
Bio-waste in a circular economy

Bio-waste

Biodegradable garden and park waste

Food and kitchen waste

- from households
 - offices,
 - restaurants
 - wholesale
 - canteens
 - caterers
 - retail
- comparable waste from food-processing

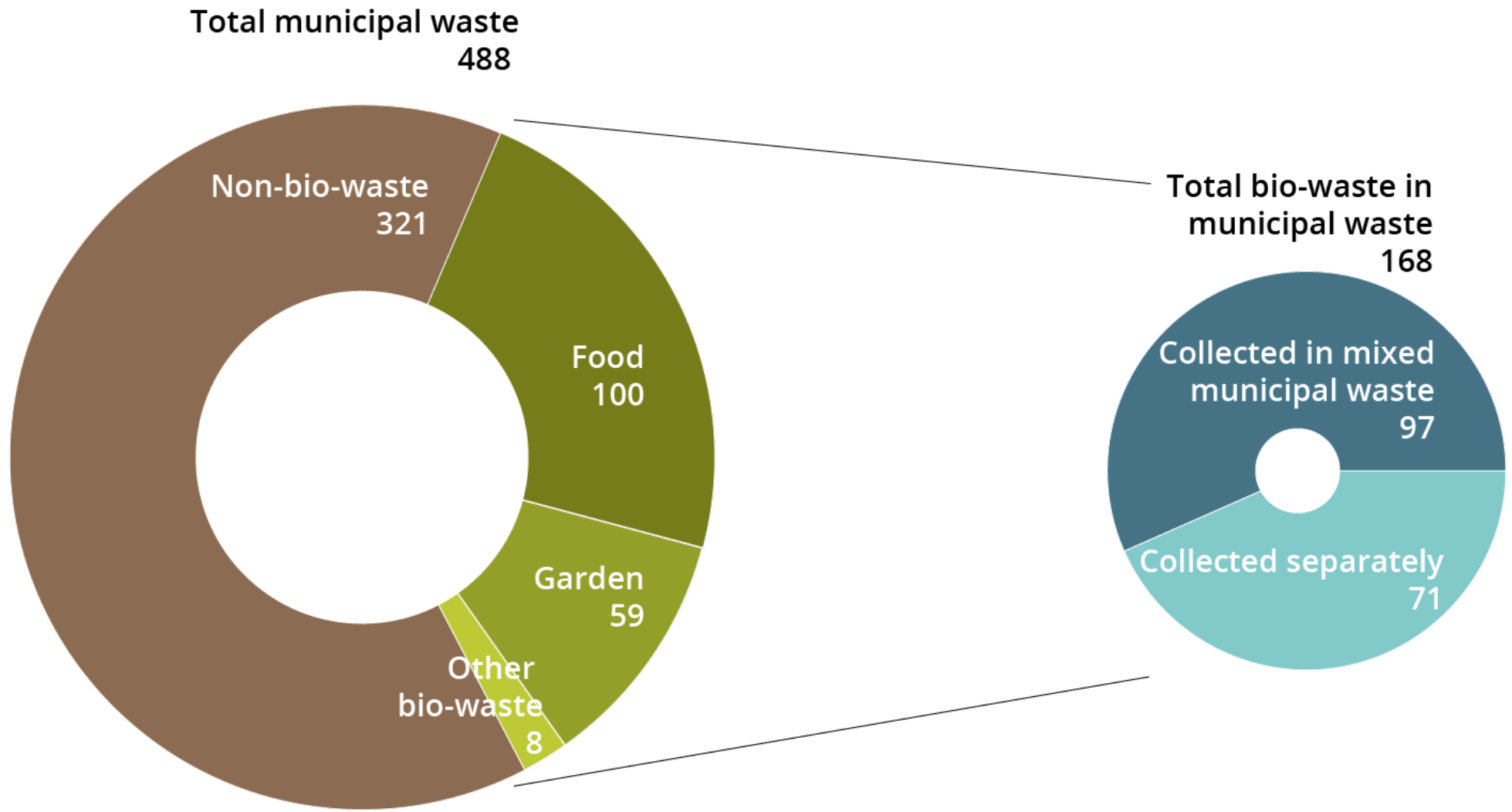


Waste Framework Directive:

- Separately collect bio-waste or ensure recycling at source by 2023
- Recycling and targets for municipal waste
- Monitoring food waste

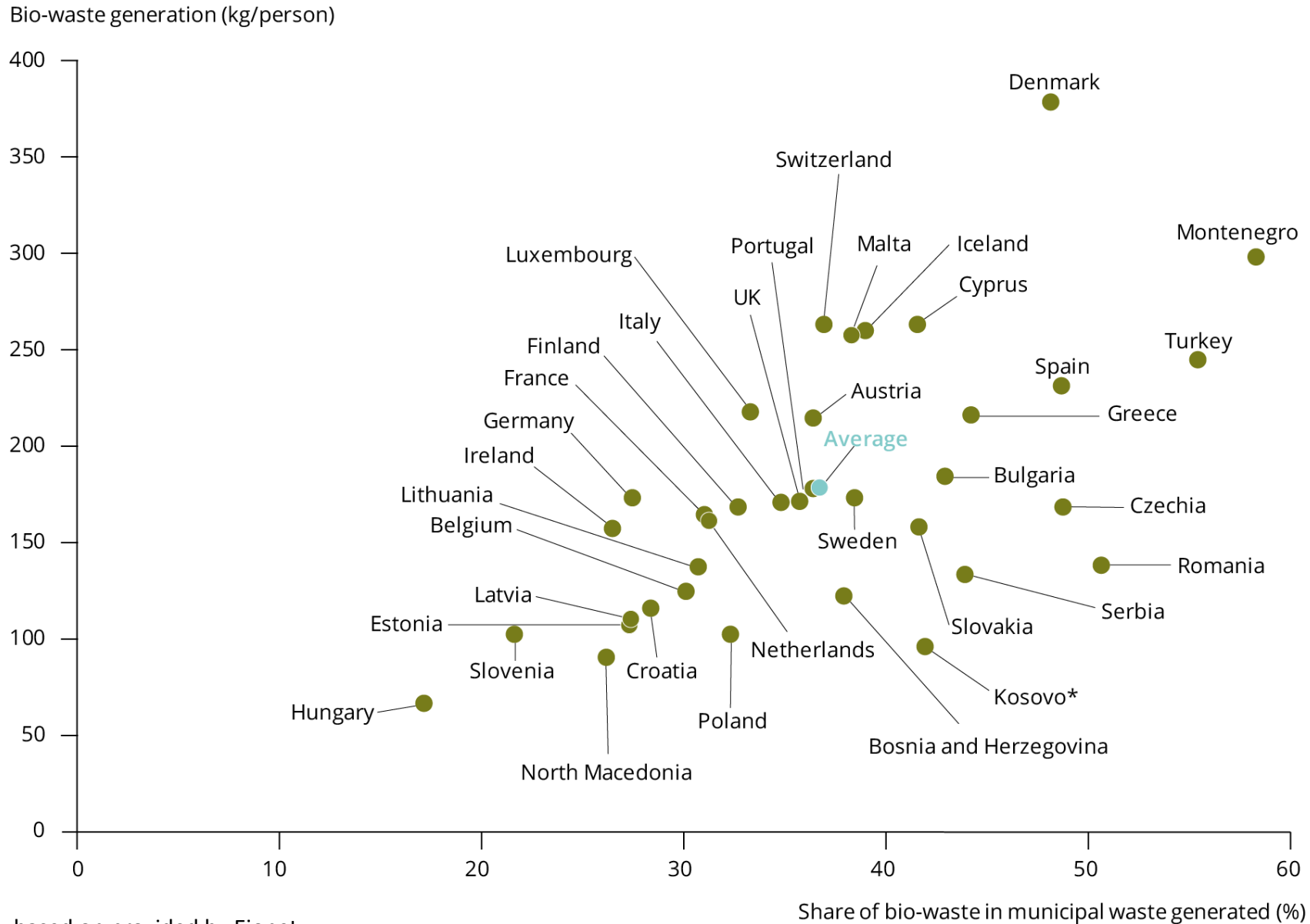
SDG: halve food waste by 2030

Bio-waste in municipal waste (EU-28)



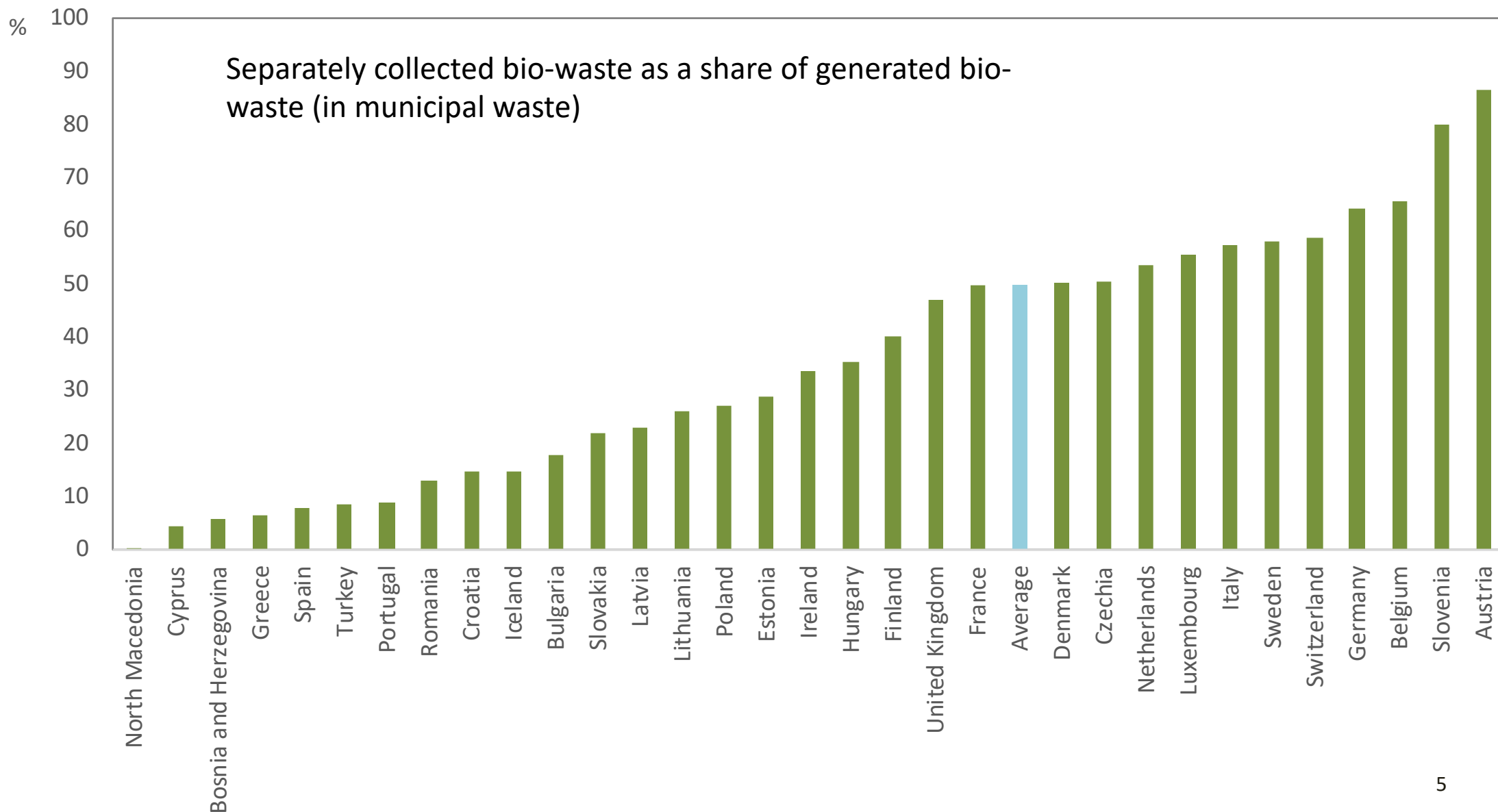
Unit = kg/person

How much bio-waste is there?



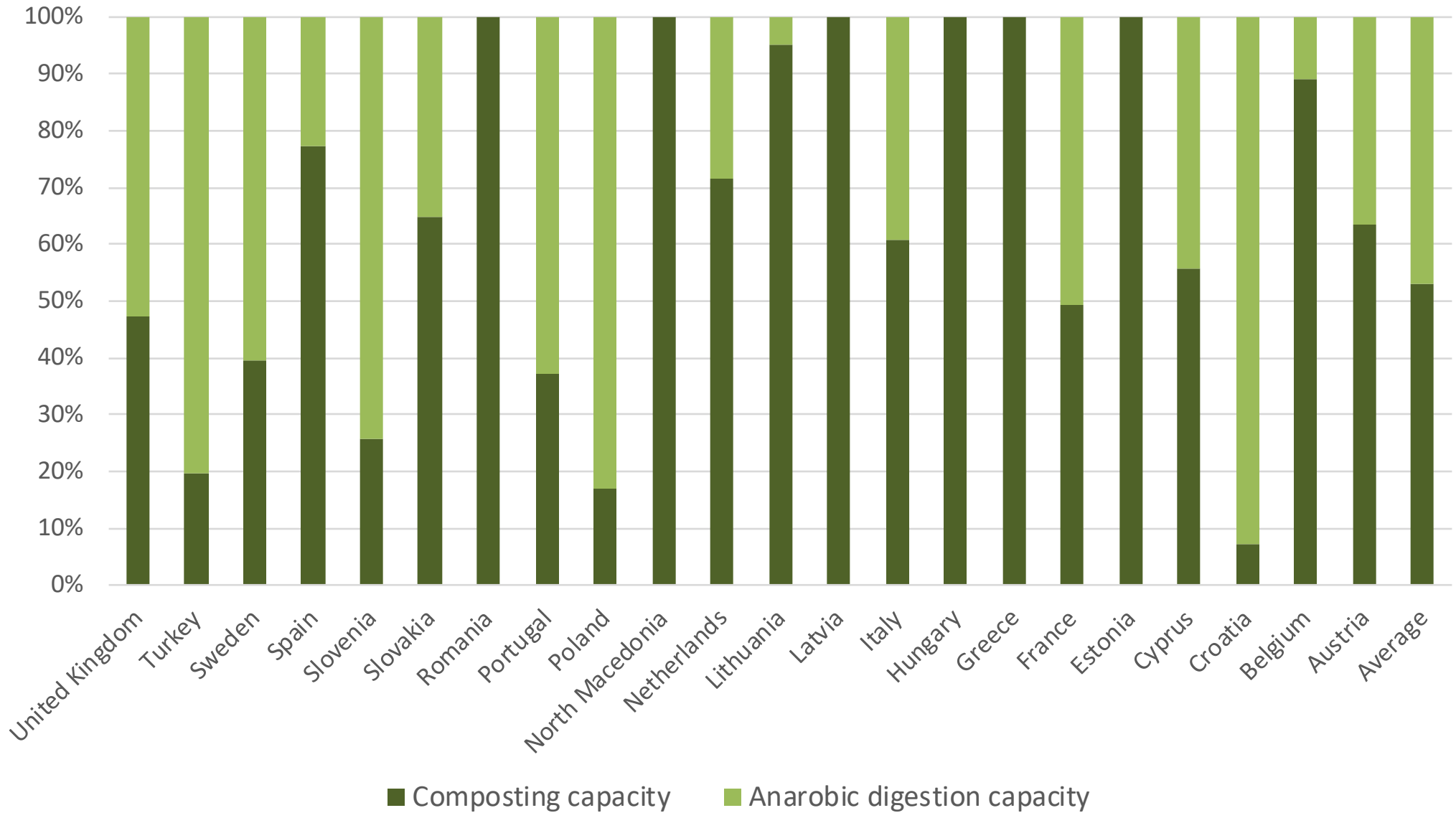
Source: EEA, based on provided by Eionet through an EEA and ETC/WMGE survey

Separately collected bio-waste



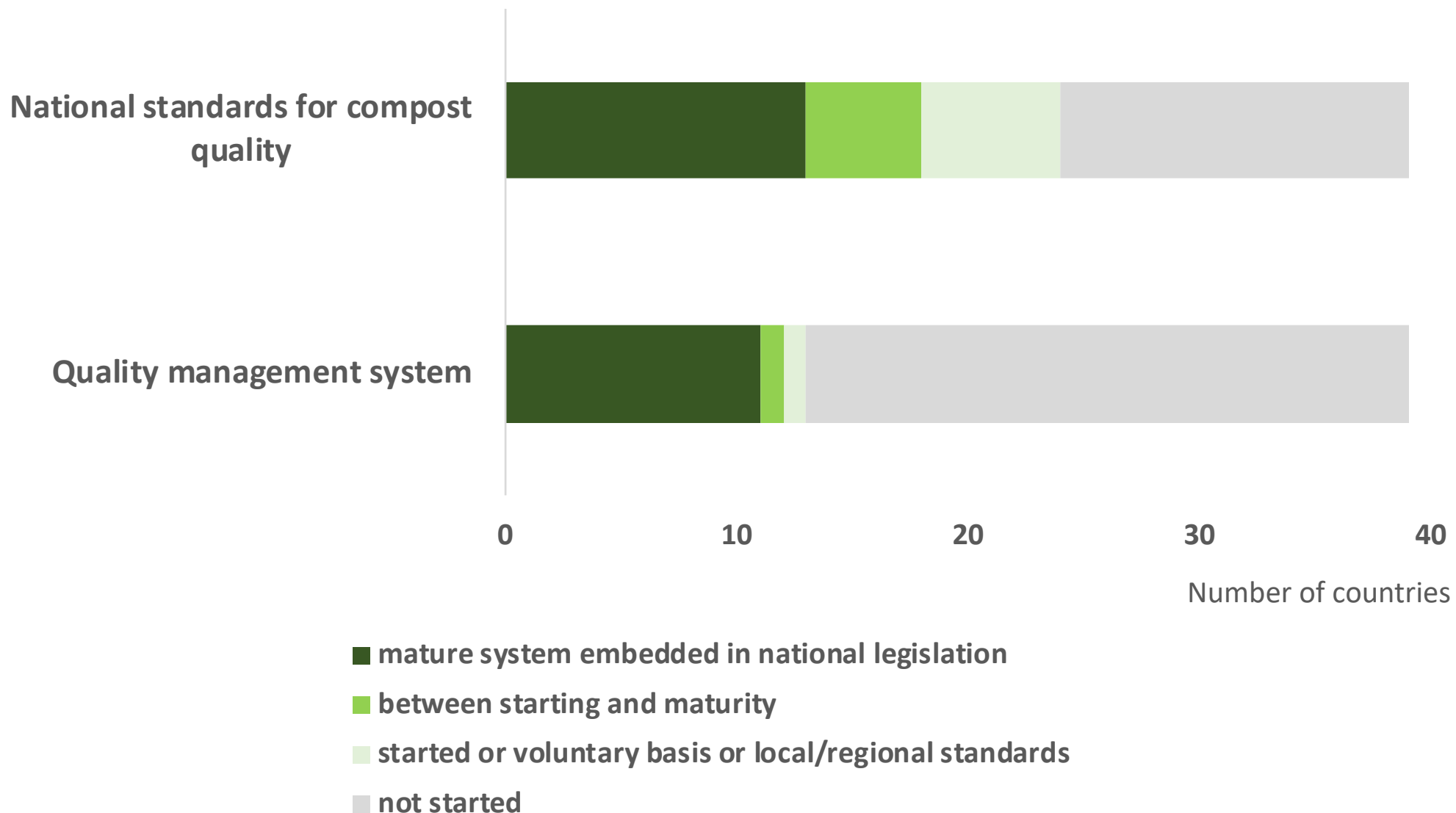
Source: EEA, based on provided by Eionet through an EEA and ETC/WMGE survey

Treatment capacities

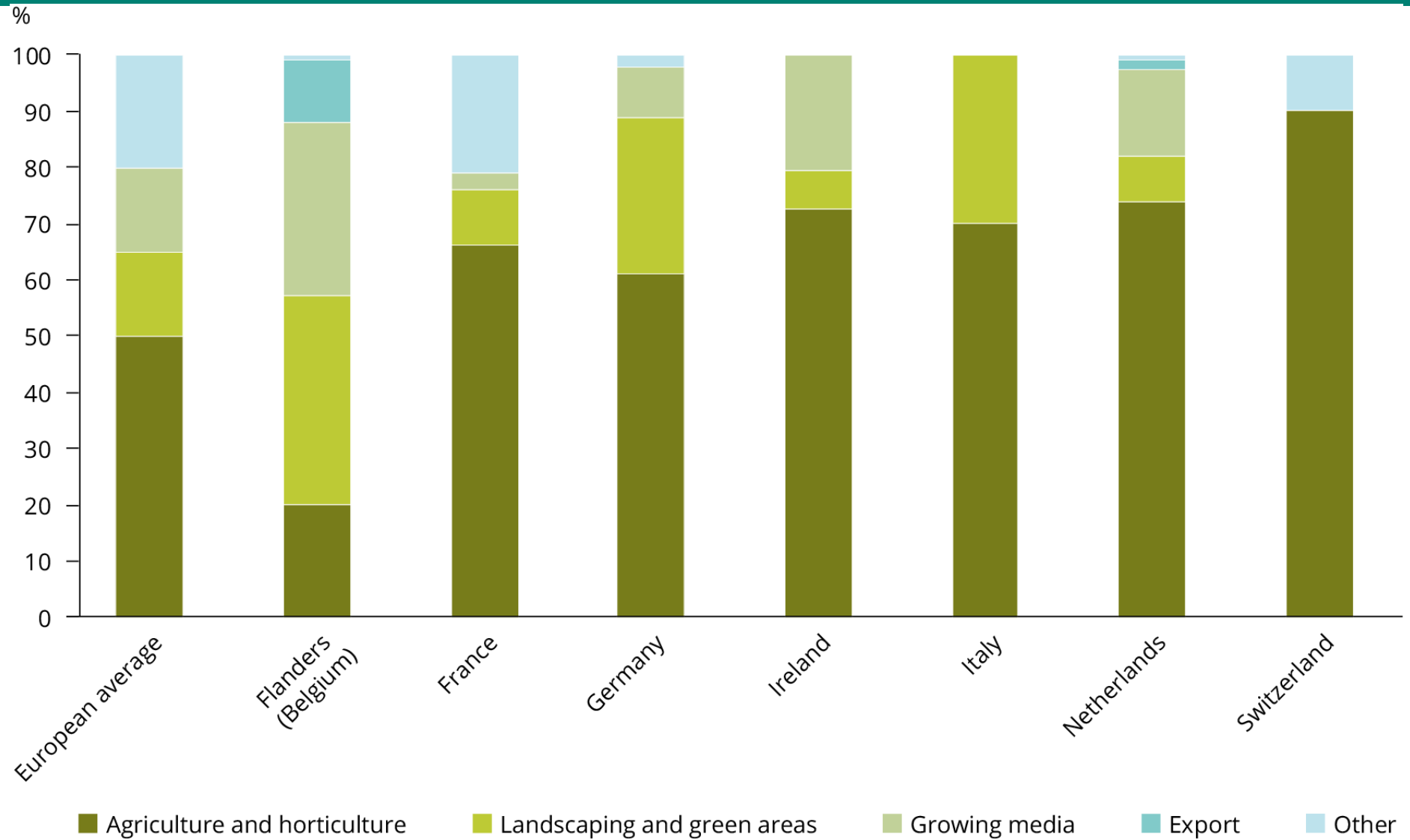


Source: EEA, based on provided by Eionet through an EEA and ETC/WMGE survey

Quality assurance of compost

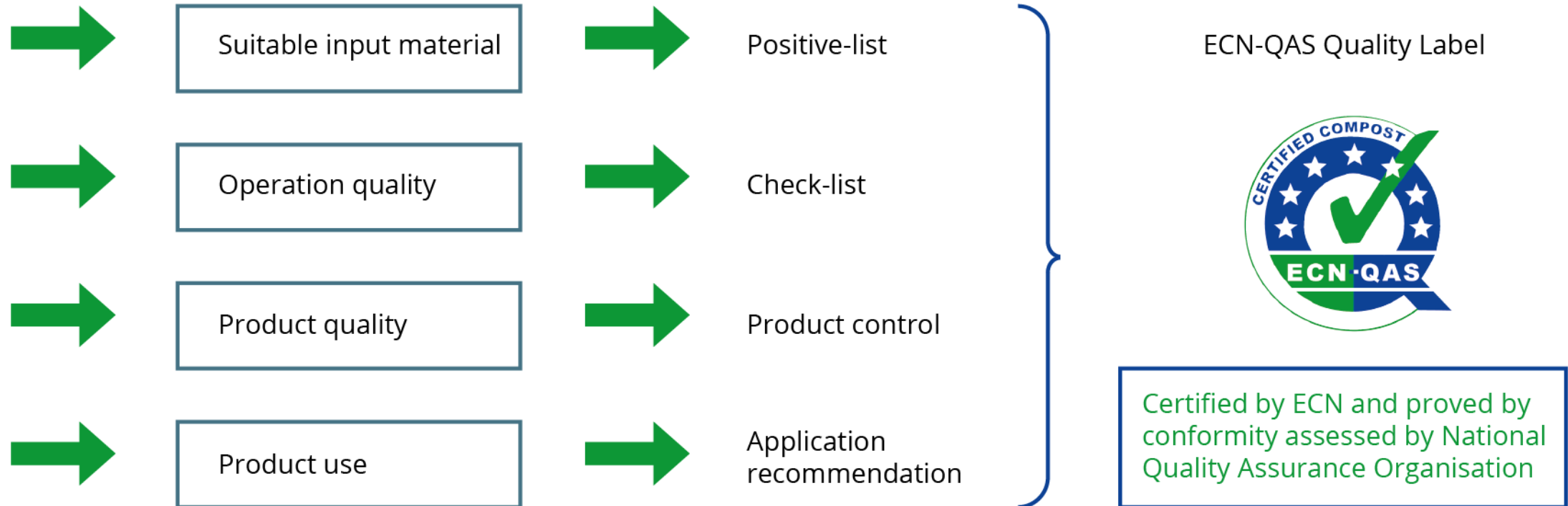


Market for compost

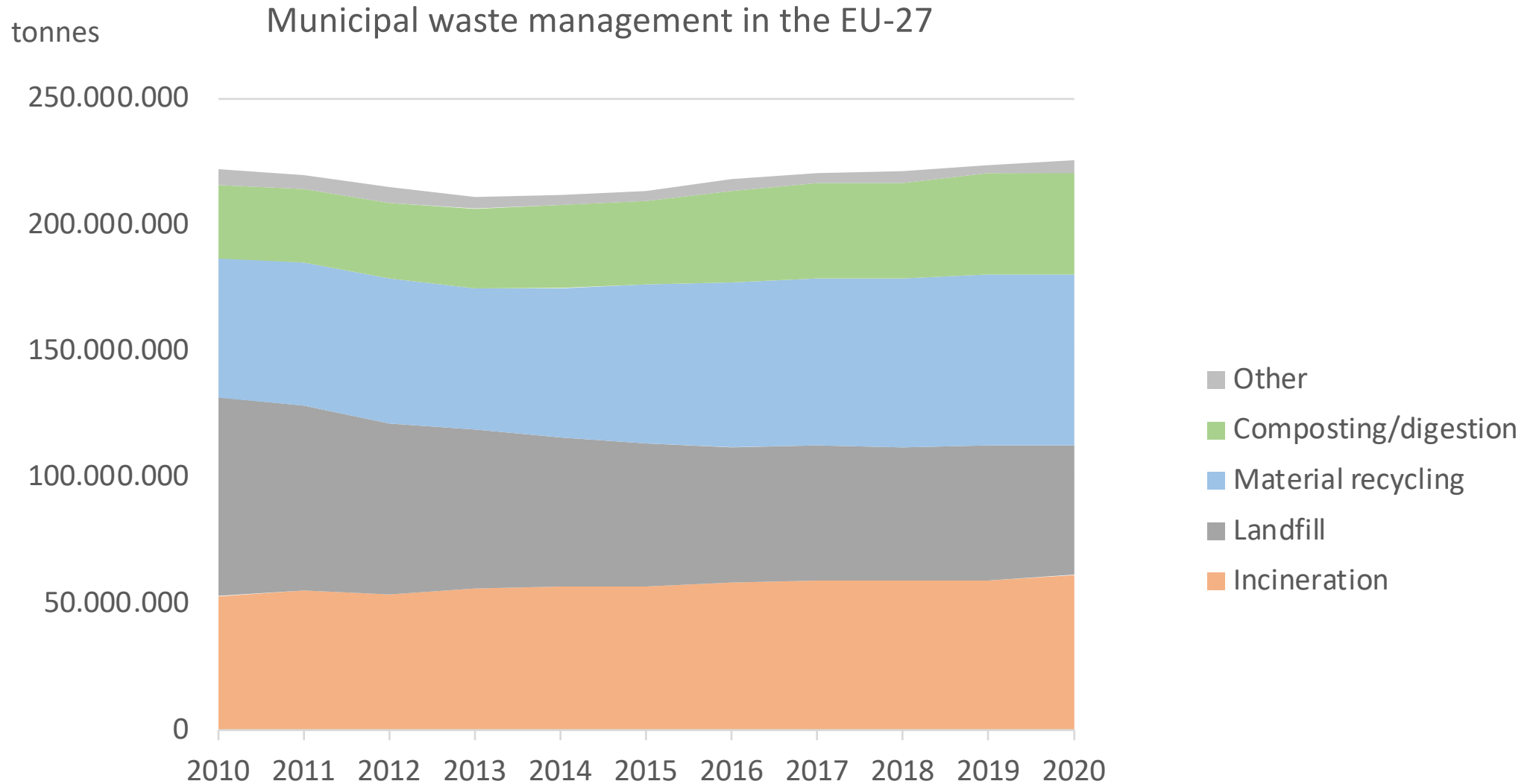


Source: EEA. Data for FR, IE, IT, NL from ETC/WMGE (2019a), for the European average from ECN (2019), for DE from BGK (2018), for Flanders from VLACO (2019), and for CH from Fuchs (2016).

Quality management system



Composting/digestion is increasing in the EU



Source: EEA based on Eurostat data

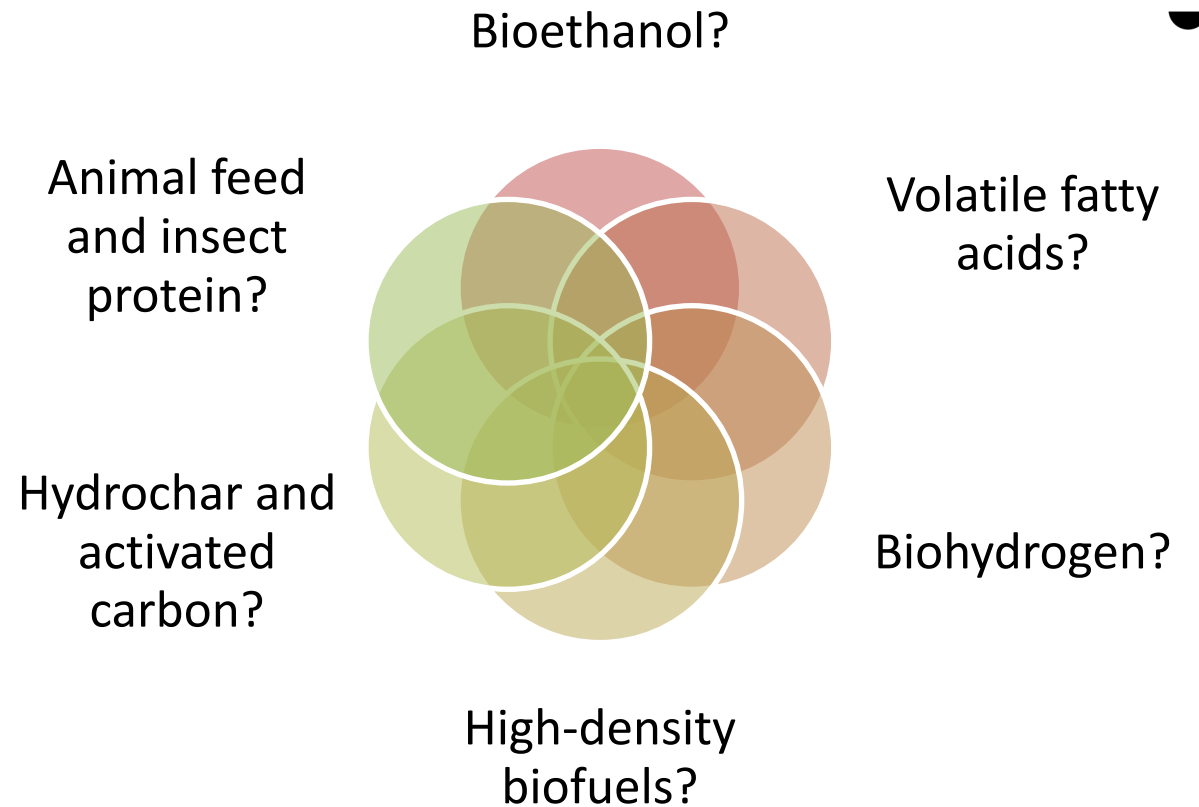
Turning bio-waste into new products



If the bio-waste currently collected with mixed municipal waste was composted/digested, it could deliver another

- 134 000 tonnes of nitrogen fertilizer
- 44 000 tonnes of phosphate fertilizer

Emerging opportunities for higher-value products from bio-waste





Find the report at

<https://www.eea.europa.eu/publications/bio-waste-in-europe>

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