



The Italian experience in foodwaste management

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CIC - Italian Composting and Biogas Association

Composting and Carbon Sequestration in Soil - recognising the potential in the climate change debate
19th May 2021

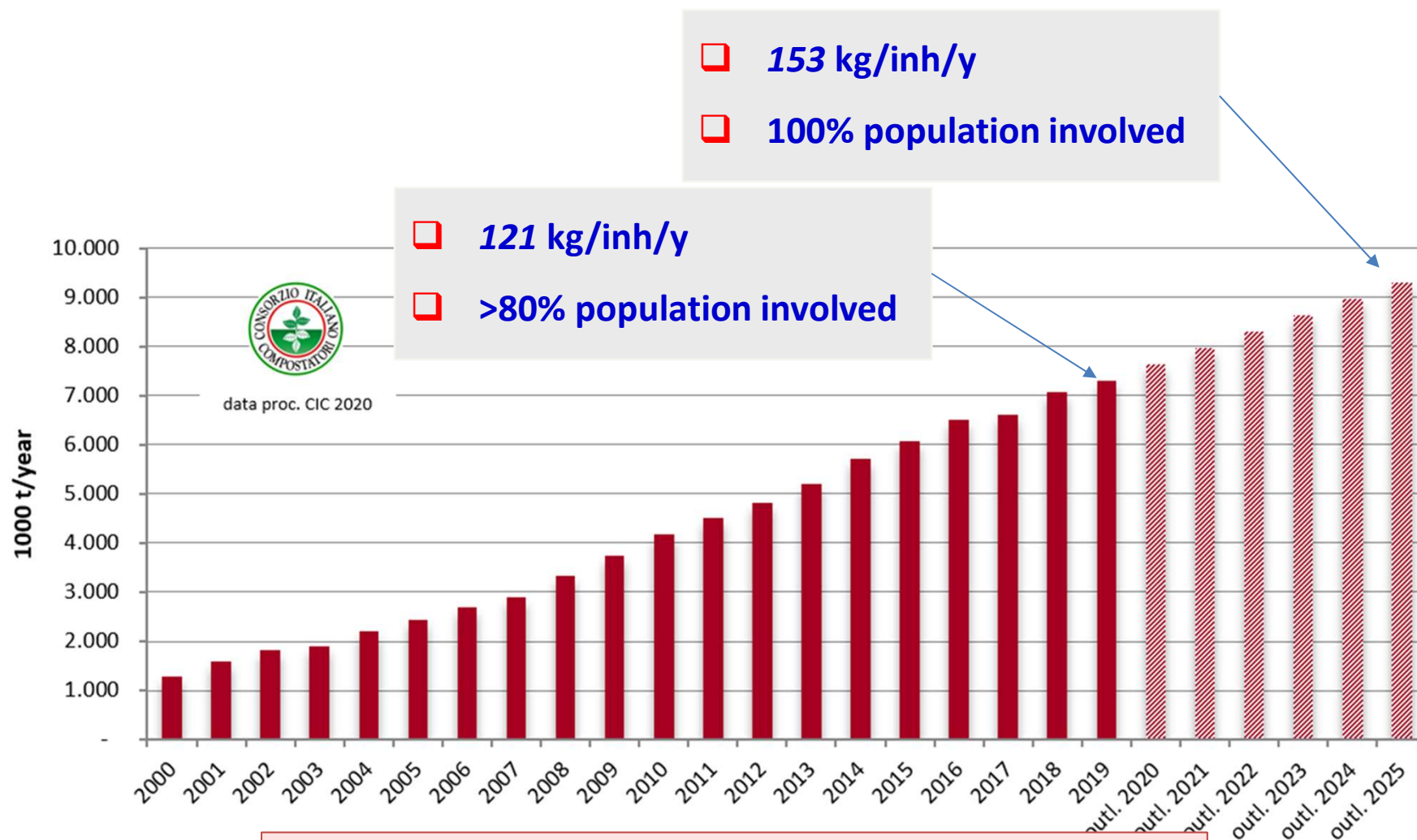
Italian Composting and Biogas Association

CIC is a non profit organization with
136 members:

- **83 Ordinary Members**
(Operators of AD and/or composting plants)
- **51 Associated Members**
(Consultancies, Enterprises, Labs, Public and research entities etc.)
- **2 General Category Members**
(Associations)

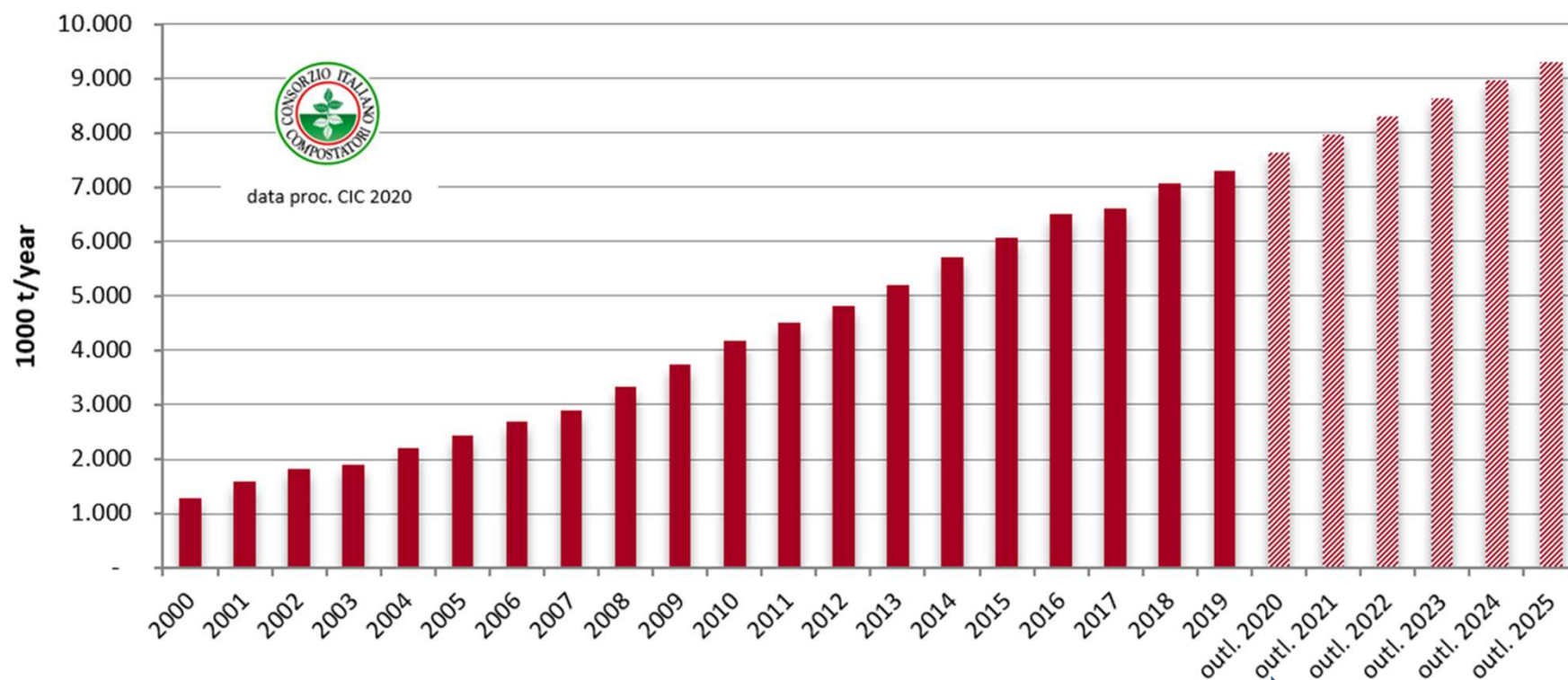


Separate collection of food and garden waste in Italy



9.240.000 t/yr
of Source Separated Biowaste in 2025

Separate collection of food and garden waste in Italy



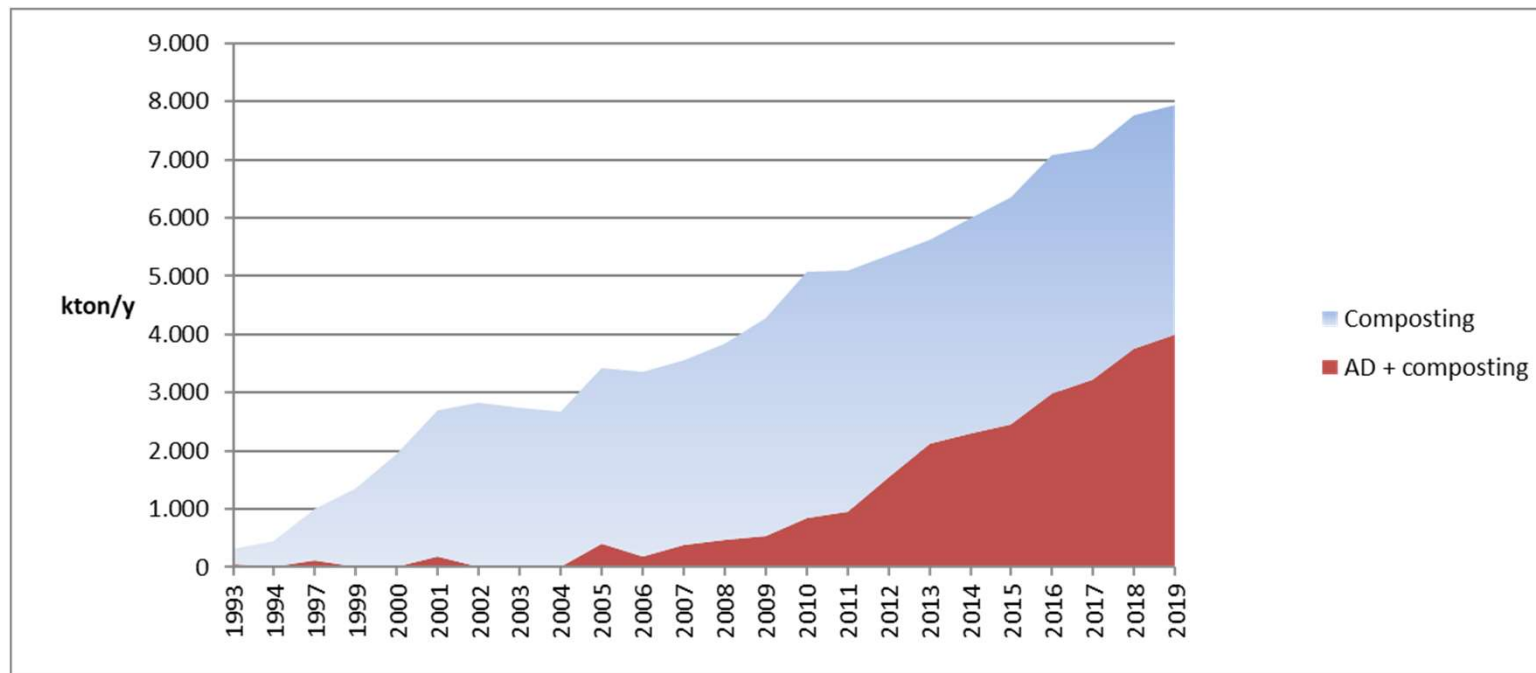
National SC targets for MSW (up to 65%)



Enforcement of landfill directive (1999/31/EC)

Enforcement of Circular Economy Package

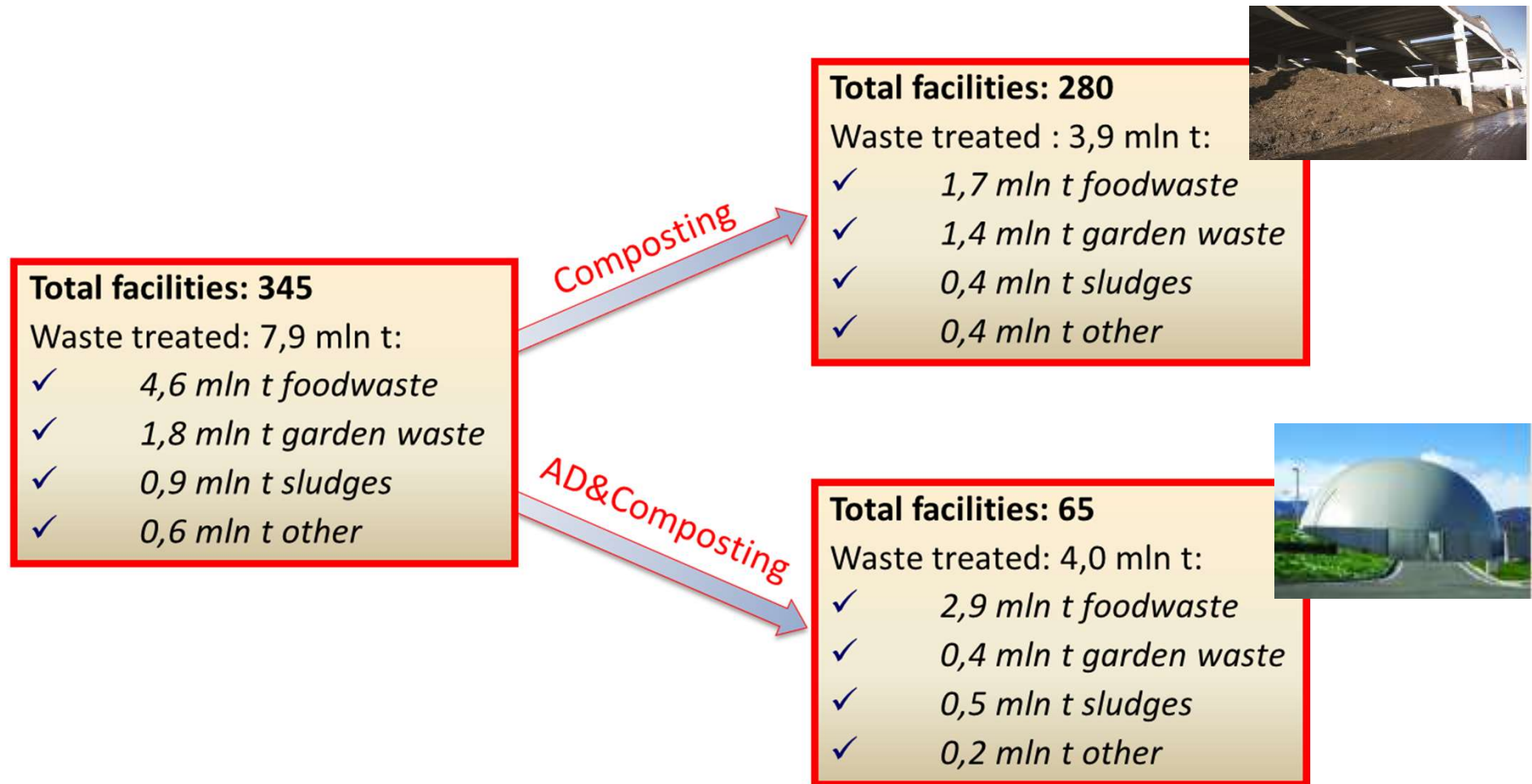
Biowaste recycling profile



Source: CIC - ISPRA

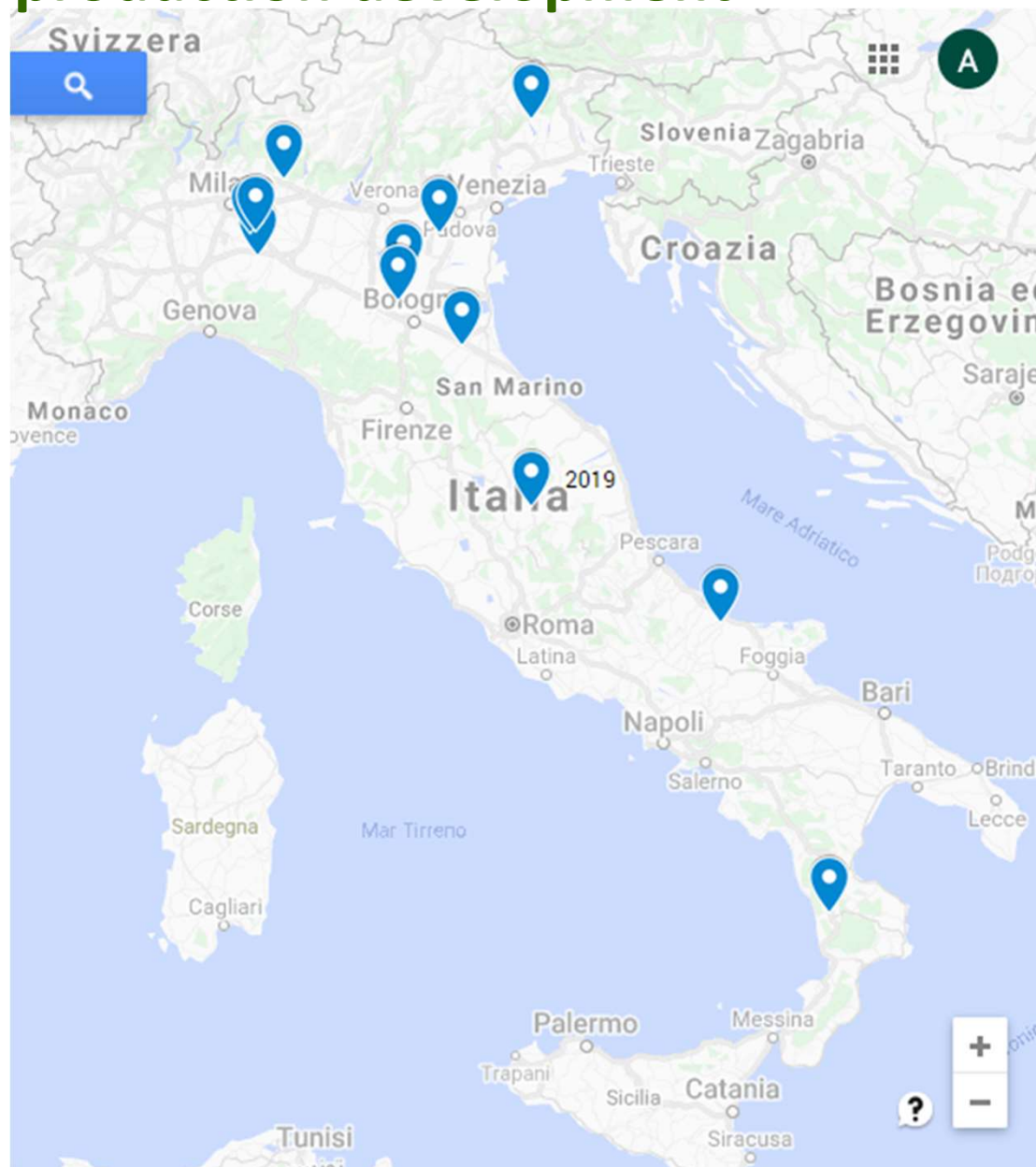


Biowaste recycling in 2019



Biomethane production development

- Since 2017, 12 plants in operation on biowaste, **100Mm³/a biomethane**
- Both new plants and revamping of previous AD or composting facilities
- Over 30 new ones planned
- Potential:
 - up to 750Mm³/y on the long term
 - **250Mm³/y on the short term)**



www.compost.it

Recycling is the keyword:
different types of soil improvers from biowaste
(2019)

2.157.000 t/y COMPOST



430.000 t/y organic C

33.600 t/y N

20.900 t/y P

23.400 t/y K



Recycling is the keyword:
different types of soil improvers from biowaste
(2019)

2.157.000 t/y COMPOST



27%

GREEN WASTE COMPOST



73%

BIOWASTE COMPOST



The value of products...

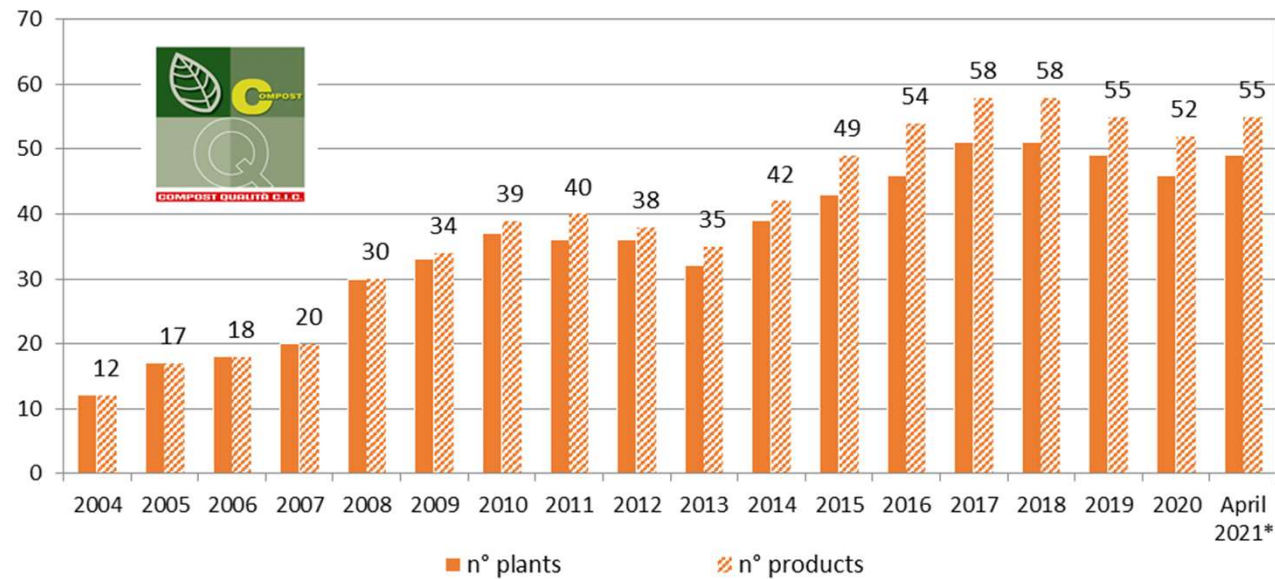


CIC Quality Assurance System for compost



Voluntary Programme

- Scheduled constant analysis
- Compost sampling made by specialists
- Analysis made by Accredited Labs chosen by CIC



Marketshare (2017 interview to plants under the CIC QAS) *(% of the total amount placed on the market)*

Foodwaste Compost

- FIELD SCALE CROPS
- HORTICULTURE
- GROWING MEDIA - NURSERY SECTOR
- AMATEUR AGRICULTURE
- GROWING MEDIA - OTHER SECTORS
- HOUSEHOLD
- FRUIT GROWING
- LANDSCAPING
- GARDENING
- OTHER/N.A.

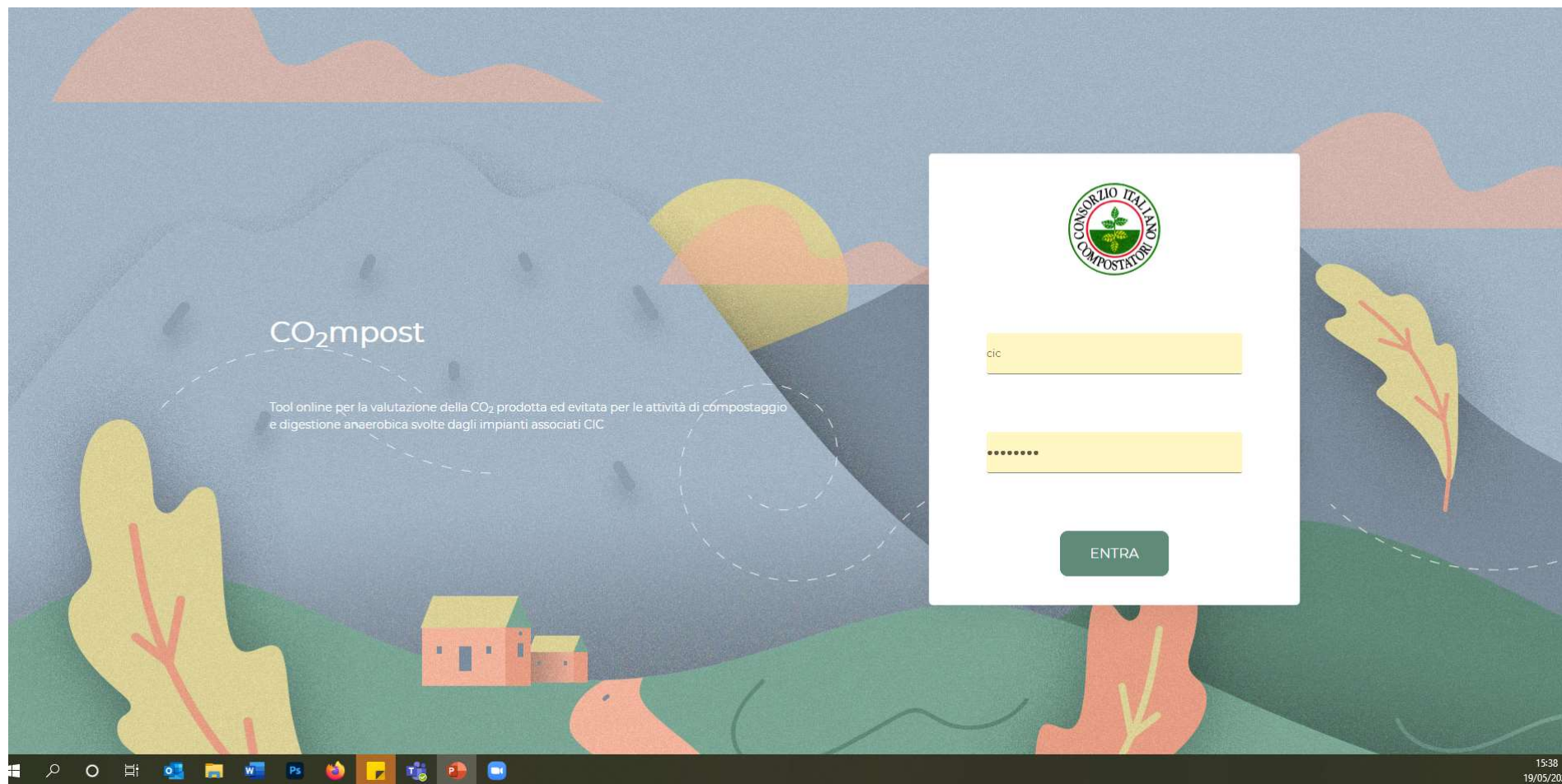


Perspectives for organic waste recycling products

- Increase in the amount of soil improvers produced from waste available on the market
- Diversification of the products (due to digestate derived soil improvers)
- Improvement of compost/digestate quality, according to the new standards set by the FPR and to the MSW recycling targets
- Output diversification



CO2MPOST: the CIC carbon footprint calculation tool





Thanks

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