



The Italian experience in foodwaste management

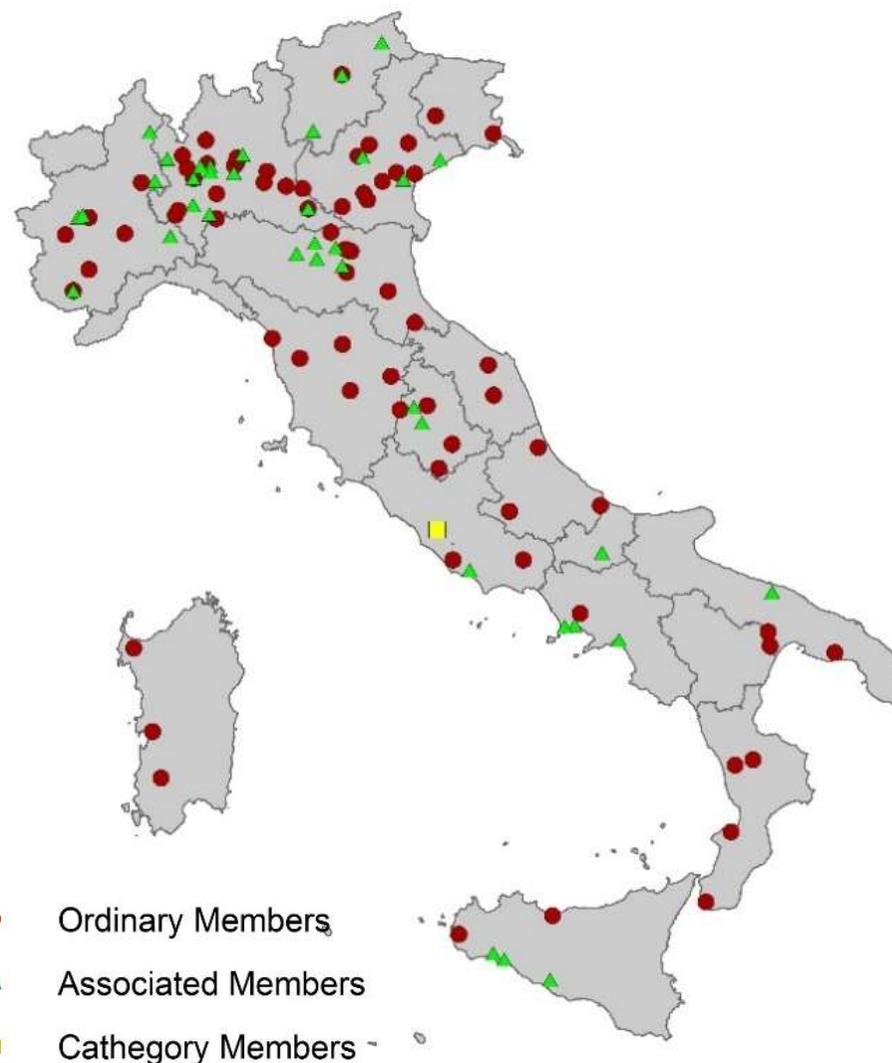
Alberto Confalonieri
CIC - Italian Composting and Biogas Association

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

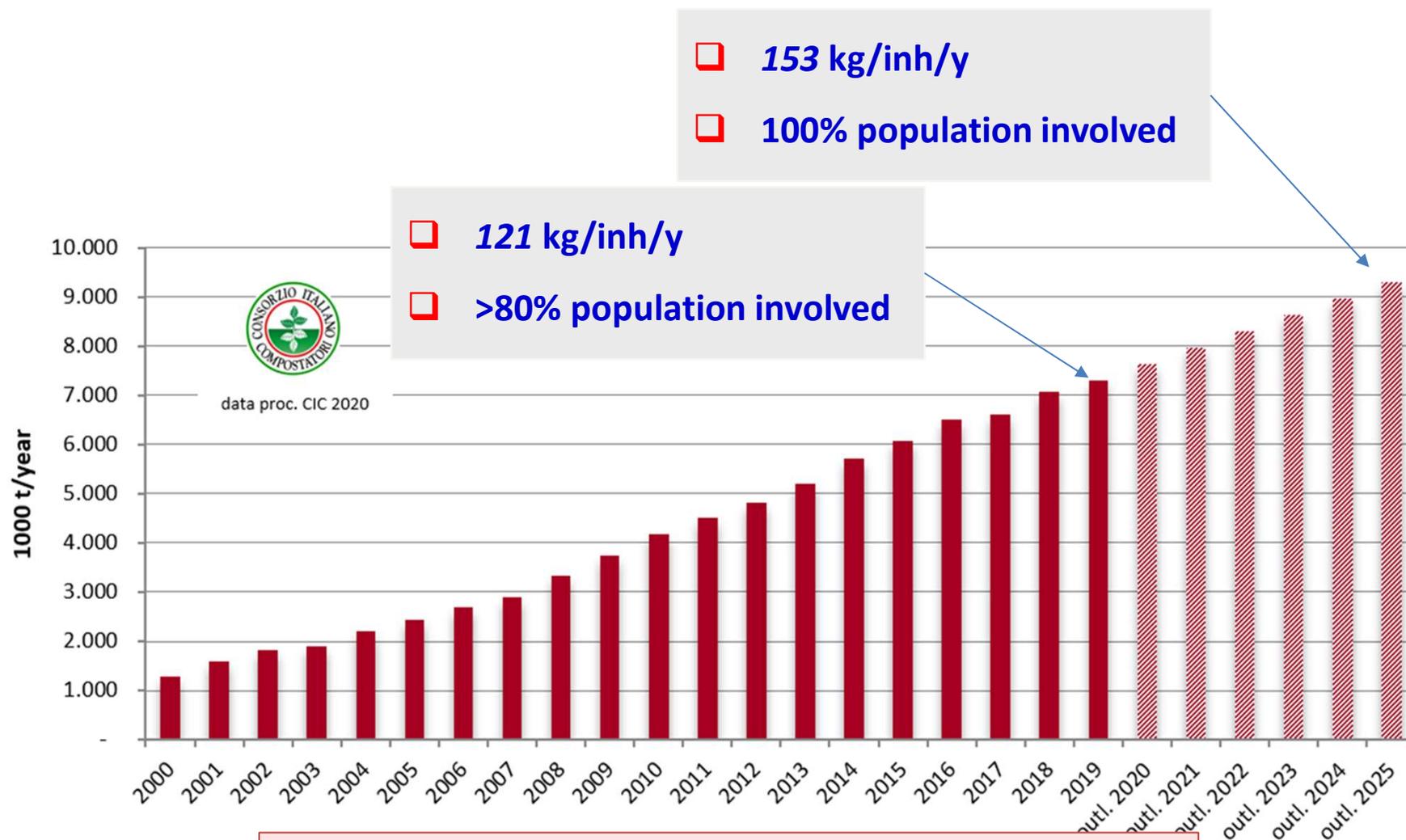
Italian Composting and Biogas Association

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)

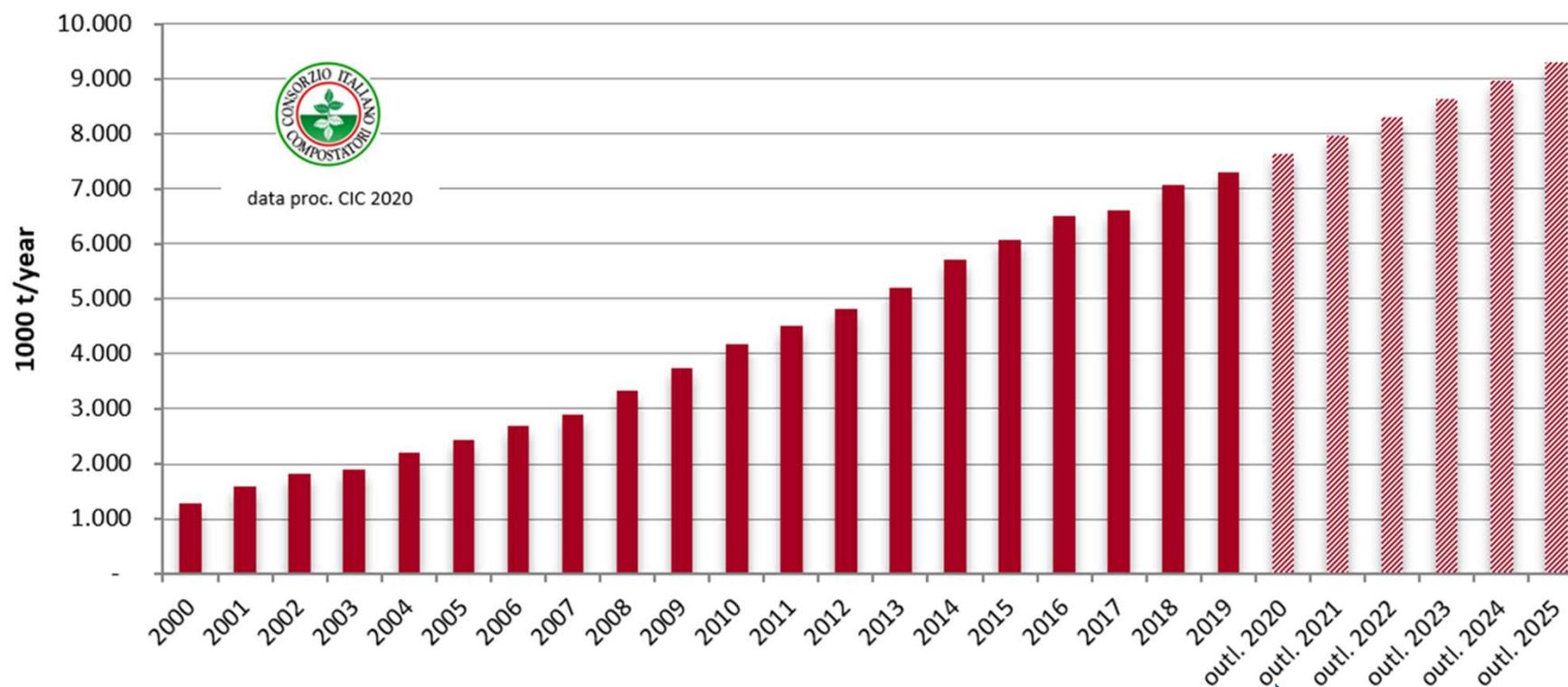


Separate collection of food and garden waste in Italy



9.240.000 t/yr
of Source Separated Biowaste in 2025

Separate collection of food and garden waste in Italy



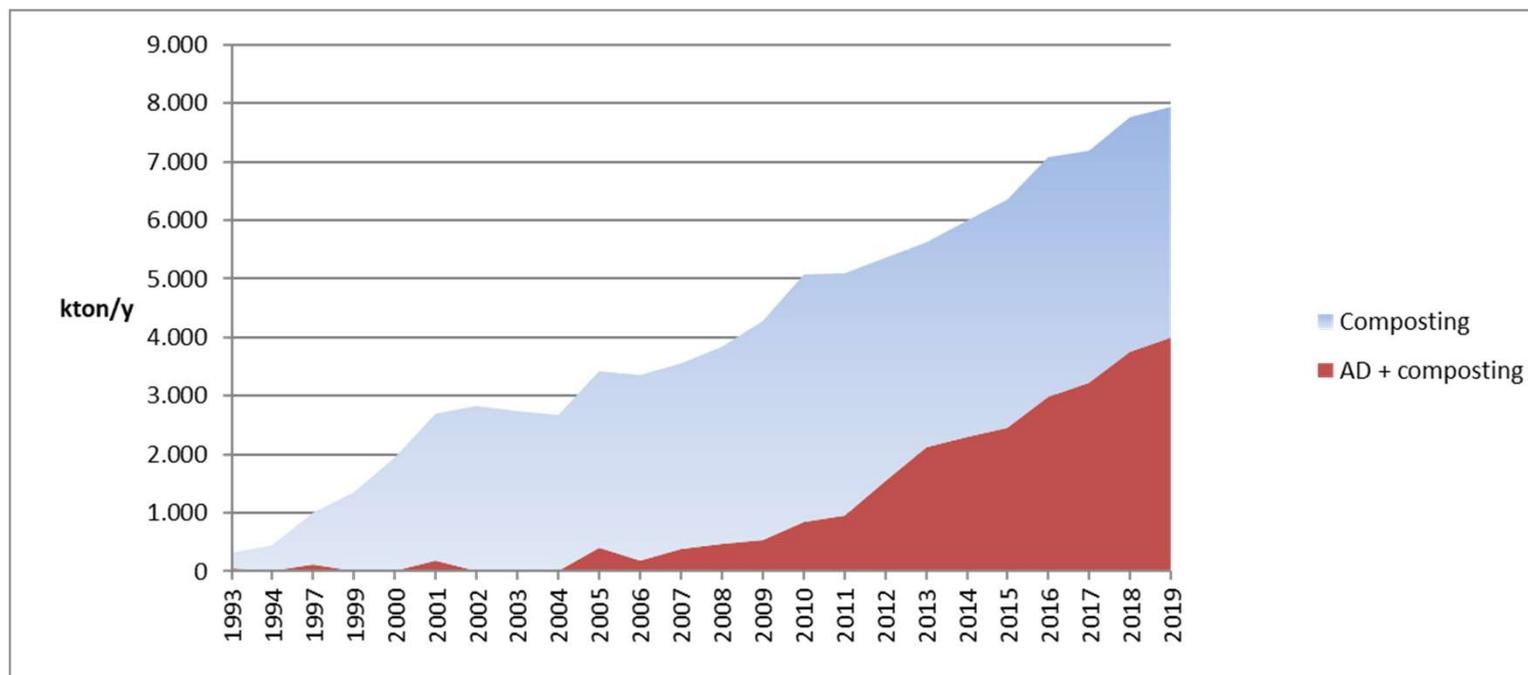
National SC targets for MSW (up to 65%)

Enforcement of landfill directive (1999/31/EC)

Enforcement of Circular Economy Package



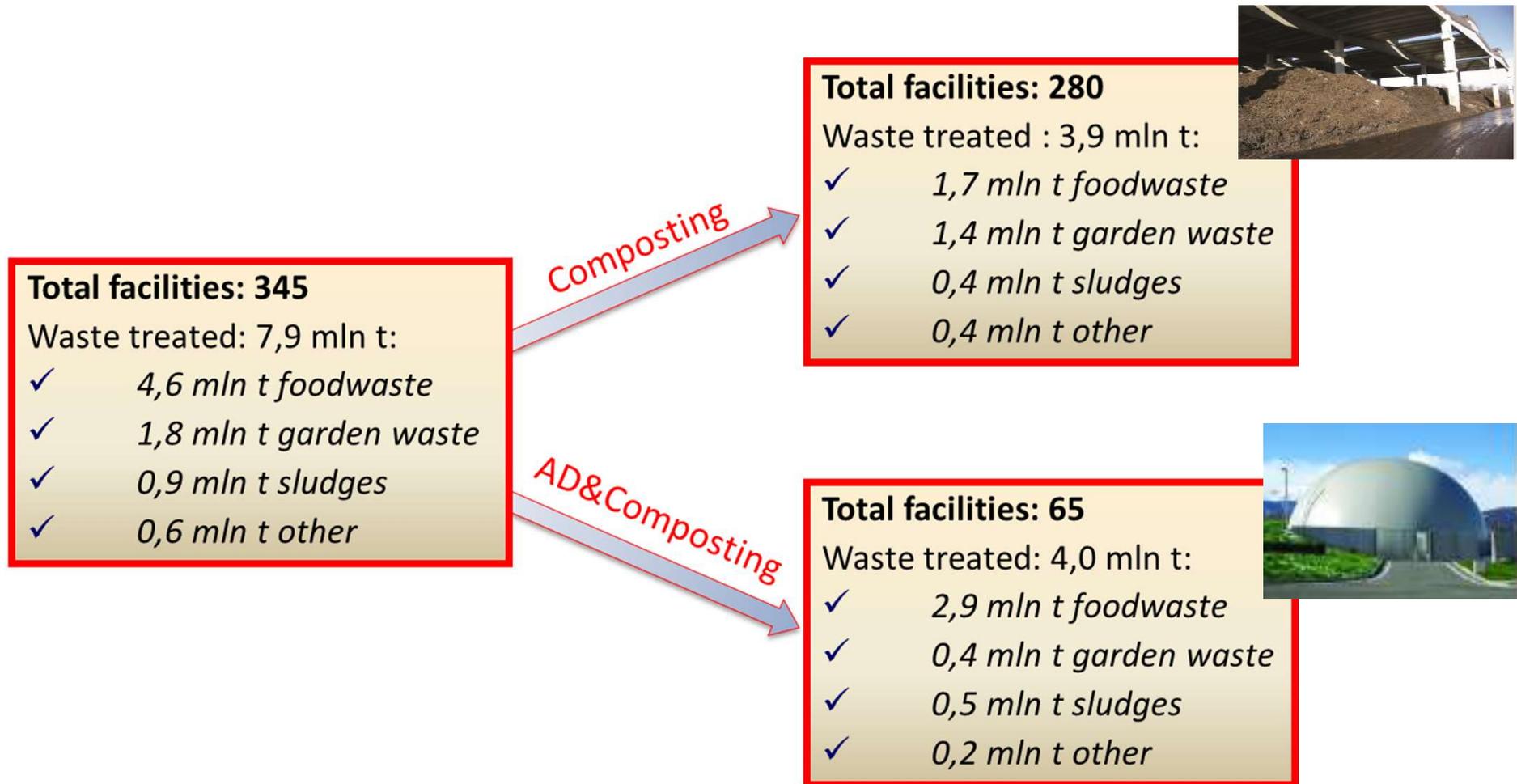
Biowaste recycling profile



Source: CIC - ISPRA

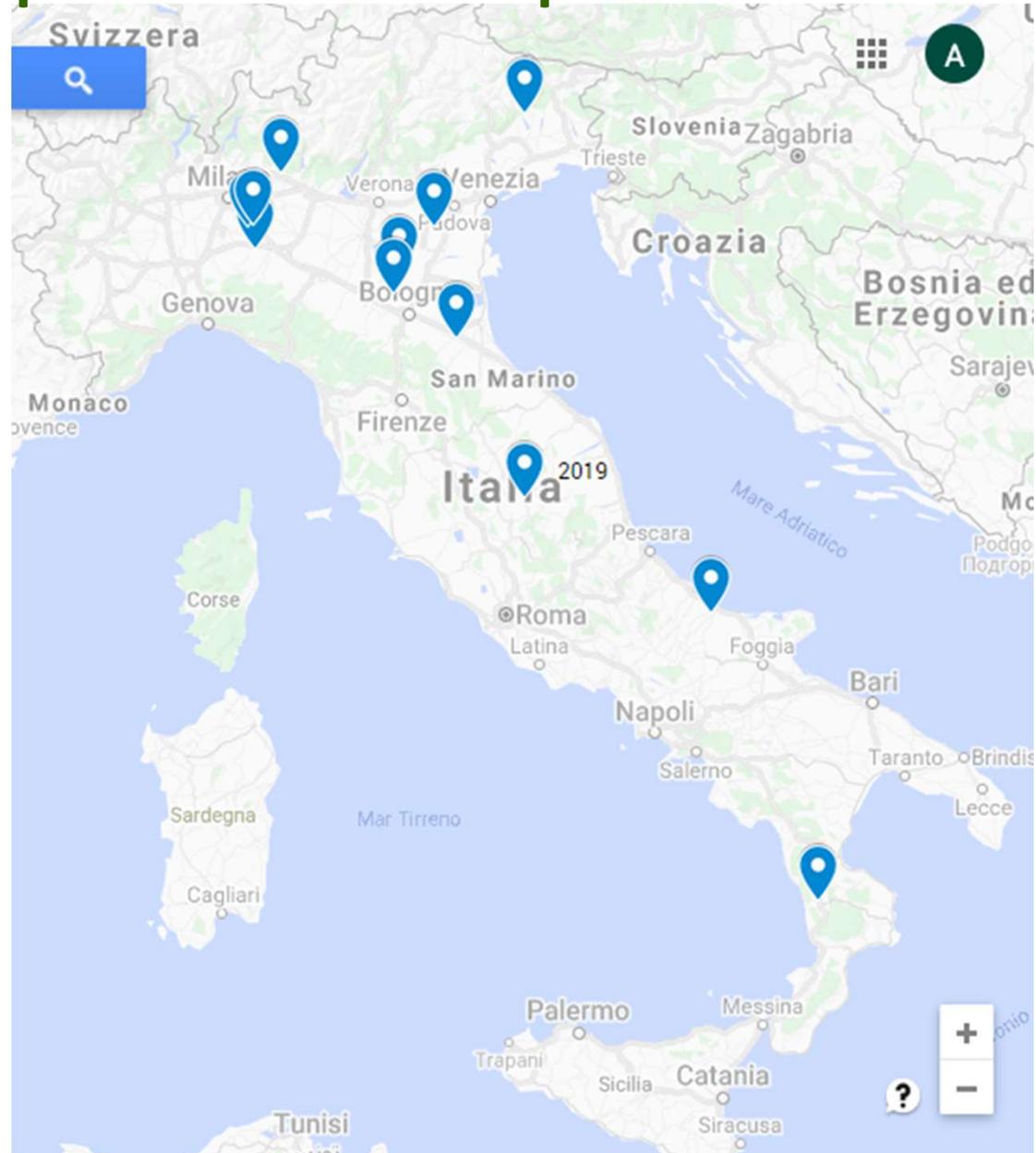


Biowaste recycling in 2019



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...

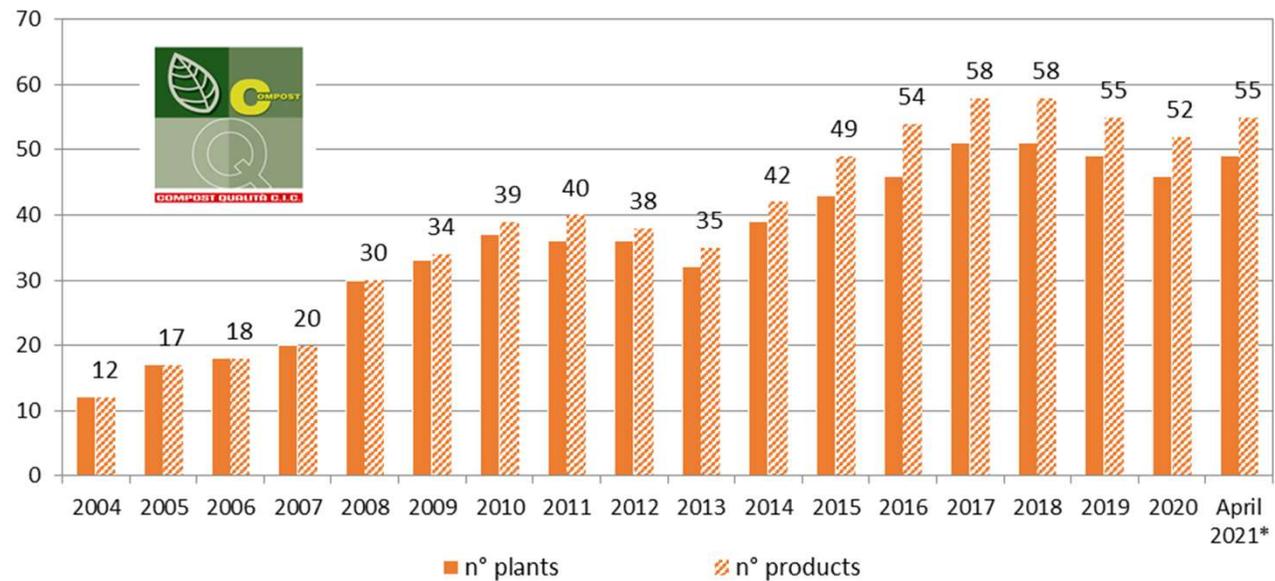


CIC Quality Assurance System for compost



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.

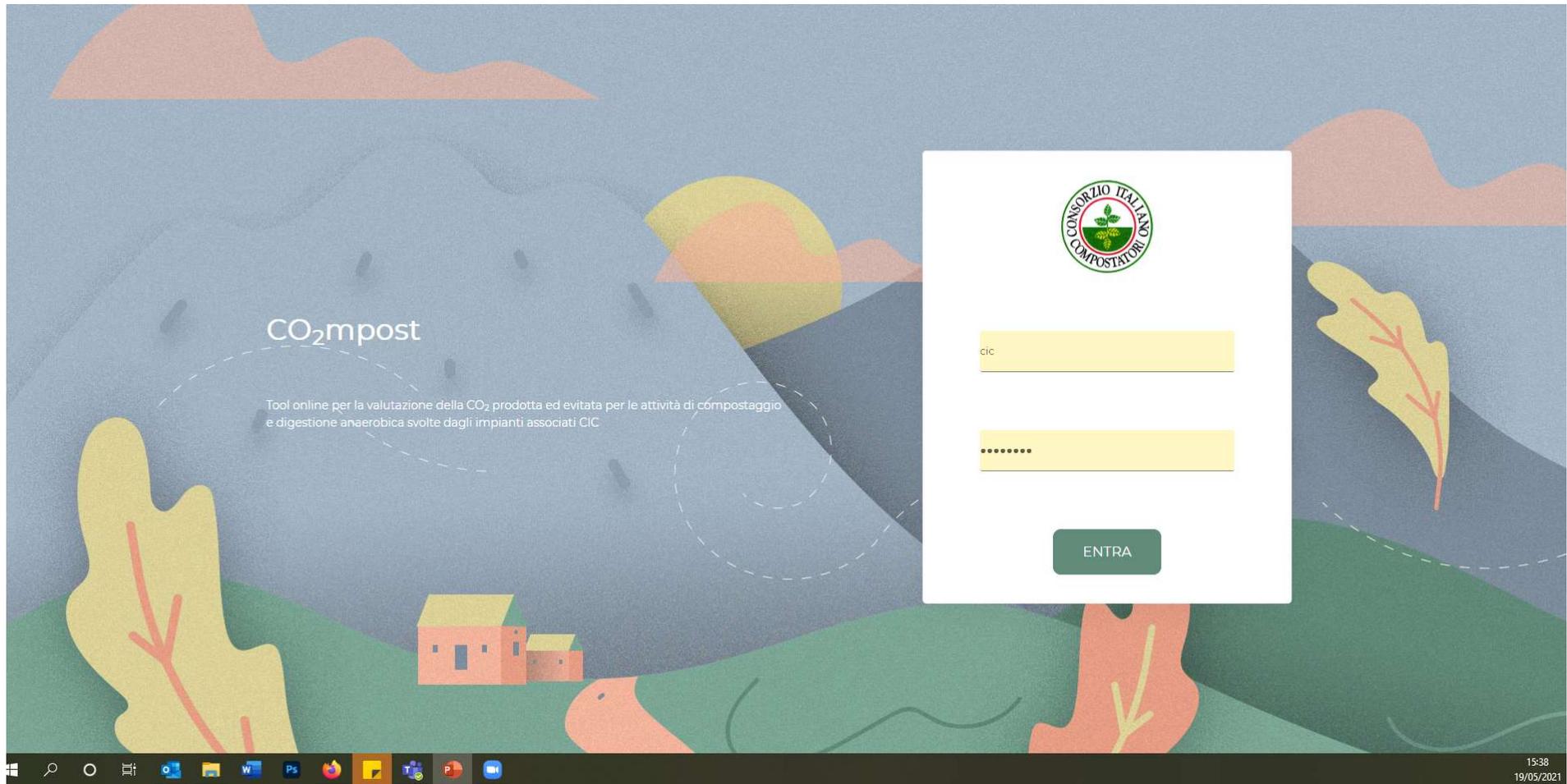


Perspectives for organic waste recycling products

- 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



The image shows a screenshot of a web browser displaying the CO2mpost website. The background is a stylized illustration of a landscape with rolling hills, a sun, and a house. The text "CO2mpost" is prominently displayed in the center. Below it, a description reads: "Tool online per la valutazione della CO₂ prodotta ed evitata per le attività di compostaggio e digestione anaerobica svolte dagli impianti associati CIC".

Overlaid on the right side of the page is a white login form. At the top of the form is the logo of the "CONSORZIO ITALIANO COMPOSTATORI". Below the logo are two input fields: the first is labeled "cic" and the second contains a series of dots, representing a password field. A green button labeled "ENTRA" is positioned below the input fields.

At the bottom of the screenshot, the Windows taskbar is visible, showing various application icons. In the bottom right corner, the system clock displays "15:38" and the date "19/05/2021".



Thanks

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