



ACEA  
SMART  
COMP

Il Compost Acea a Km0



IAS

AXIS	CATEGORY
Circular Economy	Waste Management
<b>Short Description</b>	
Installation of Smart composting systems	

## 12. Acea SmartComp



Among the initiatives that promote a circular economy, Acea has developed and trademarked an intelligent system equipped with IoT technology and movement sensors for zero kilometer composting. Research and development activities led Acea Elabori to the creation of a SmartComp Unit prototype, which will form the basis of the new version Acea Smart Comp 2.0. The SmartComp composter is a small-scale plant which, through a completely automated process, takes 90 days to transform organic waste into quality-certified compost, sanitised and without pathogenic bacteria, ready to be used as fertilizer and soil conditioner. The local treatment of organic waste is thought for those who produce huge quantities of waste: markets, malls, airports, stations, canteens, etc. Acea SmartComp allows waste to be treated on site and thus avoids its transportation, reducing its cost and the relative emissions. The advanced integrated IoT technology automates the whole process, monitoring in real-time the state of transformation and various environmental data (temperature, humidity, interstitial gas, emissions, etc). Data gathered and analysed is given back to the client through a dedicated dashboard which shows the performance of the different indicators, such as removed CO<sub>2</sub> emissions and the quantity of produced compost. Acea Innovation has begun the commercialisation of the SmartComp.

**PROJECT STATUS:** ongoing

**LOCATION:** Latium, Italy

### Green Bond Allocation

ALLOCATION				
TOTAL FINANCED AMOUNT (€ MILLION)	2019	2020	2021	2022
2.15	0.14	0.53	0.97	0.51

### Environmental performance indicators

KPI	UoM	2020	2021	2022
Number of SmartComp installed	n.	-	4	4
Organic waste treated by SmartComp (*)	t	-	200	240
Produced compost by SmartComp (*)	t	-	40	48
Avoided emissions (*)	tCO <sub>2</sub>	-	400	480

(\*) The environmental advancement represented are linked to consumers that installed SmartComp.

NB: environmental performance data are available starting from 2021.