

Context	As soon as kitchen waste is placed in the designated area, the system shall provide the kitchen staff with the ability to distinguish between compostable and non-compostable waste automatically, then compost the waste and deliver it to the designated area to obtain fertilizer with minimal effort.					
Domain	Food & Nutrition	Business Value	Personalization	<input type="checkbox"/>	Acquisition	<input checked="" type="checkbox"/>
			Communication	<input checked="" type="checkbox"/>	Optimization	<input checked="" type="checkbox"/>
			Control	<input type="checkbox"/>	Analysis	<input type="checkbox"/>

Description		
<i>Stakeholders &amp; Interests</i>	<i>Stakeholder</i>	<i>Interests</i>
	Kitchen staff	Reduce effort
	Manager	Processing of food waste to obtain fertilizer; low personnel deployment; cost reduction
	Government	Reduction of environmental pollution; establishment of composting facilities
<i>Required Data</i>	Waste detection: images of compostable and non-compostable waste; camera; ultrasound Compost: temperature; ambient temperature; humidity Transporter: infrared	
<i>Current Conditions</i>	Current conditions are not presented as an example.	

Procedure		
<i>Trigger</i>	The kitchen staff places the waste in the designated area.	
<i>Use Case Procedure</i>	<i>Step</i>	<i>Activity</i>
	1. Object recognition	Ultrasonic sensors are used to detect the presence of waste.
	2. Waste Identification	A deep learning algorithm recognizes whether the waste is compostable.
	3. Identification of compostable waste	The waste is processed further.
	4. Waste shredding	The waste is broken down into smaller components by a shredder.
	5. Waste composting	The waste is added to the compost.
	6. Completion of composting	The composting of the collected waste is completed.
	7. Initiation of compost collection	An automatic transporter collects the compost.
	8. Delivery of compost	The compost is delivered to the desired location.

<i>Use Case Anomalies</i>	<i>Step</i>	<i>Activity</i>
	3a. Non-compostable waste recognized	The waste is transported to the trash can.
<i>Final State</i>	The compost is in the designated place.	

Overlaps							
<i>Domain 2</i>	Kitchen environment	<i>Business Value</i>	Personalization	<input type="checkbox"/>	Acquisition	<input type="checkbox"/>	
			Communication	<input type="checkbox"/>	Optimization	<input type="checkbox"/>	
			Control	<input checked="" type="checkbox"/>	Analysis	<input type="checkbox"/>	
<i>Sum of Business Values total (incl. title domain, header)</i>			Personalization	0	Acquisition	1	
			Communication	1	Optimization	1	
			Control	1	Analysis	0	