

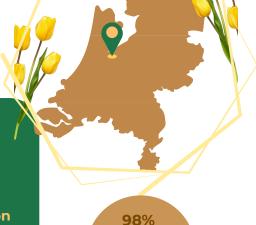
# **Living Lab - Amsterdam**





## Context and urban challenges

- Difficulty to implement traditional household collection
- Absence of local recycling facilities and high waste contamination
- Living Lab Vision: directly involving citizens in testing the system



incinerated 2% compost

**Amsterdam** food waste

### **Lab Activities**

- Kitchen Sink Grinder (KSG) to reduce volume for easier collection
- Goal: capture rate of 65 % of the dry matter from food waste
- Dynamics between participation rates, separation, and collection to be studied. Definition of scenarios and baselines
- Potential applications from community gardens to Dutch and Belgian agriculture



**Kitchen Sink** Grinder

# Ongoing Development and Discussion for LCA

- Context-generic assessments are not relevant for municipal decision-making
- Use of a context-specific dataset generator for Life Cycle Assessment, socioeconomic analyses and business models
- The generator tracks losses and availability of carbon (C), nitrogen (N), phosphorus (P), and potassium (K) throughout the entire production chain



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