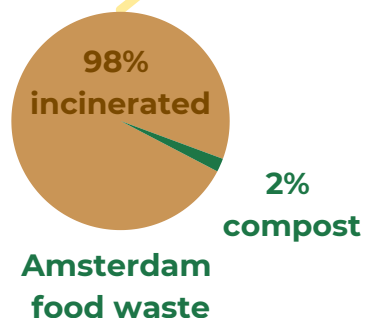




Context and urban challenges



- 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



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, socio-economic 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