# Biogas

# Circular Food Chain Processing of Organic Waste

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## Problem

To close the food production chain, the remains of left-over fruits, vegetables and other processed food products like bread, fish and meat can be processed to recover food ingredients, like minerals, Cu, Zn, phosphate, proteins (amino-acids), lipids (fatty acids) and carbohydrates, to be reused as raw materials for new (food-) products.

The objective is to look at the dynamics of the food waste and sewage system on different levels and relate this to issues on a detailed technical level, i.e. the feasibility of separation technologies that can make the waste streams, including sewage sludge, suitable for agriculture or bio-based applications.

## Objective of the project

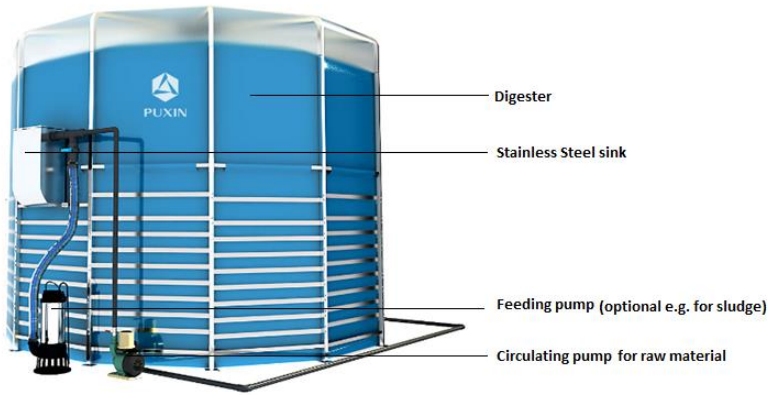
The main issue is at what scale a system should be circular? Must the circle be on city level, company level, or can it be closed on the level of a group of restaurants or even on a household level?

## Transnational cooperation

Since every city like The Hague produce hundred thousand tons of organic waste per year.

The aim is to split the organic waste generating sources into levels and to determine the digester volume capacity to process the amount of waste on each level.

The end result should lead to an indication on what city scale level Bio-Mass/-Waste should be digested.




## Partners

- Universities, Research institutes
- Waste treatment companies, Biodigester producers
- Energy / Electricity companies

## Your contact details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