



# Recovery and Utilisation of Nutrients 4 Low Impact Fertiliser

PROJECT DURATION: 2017-2021

## Circular economy to safeguard food production and water resources

### Paradigm shift

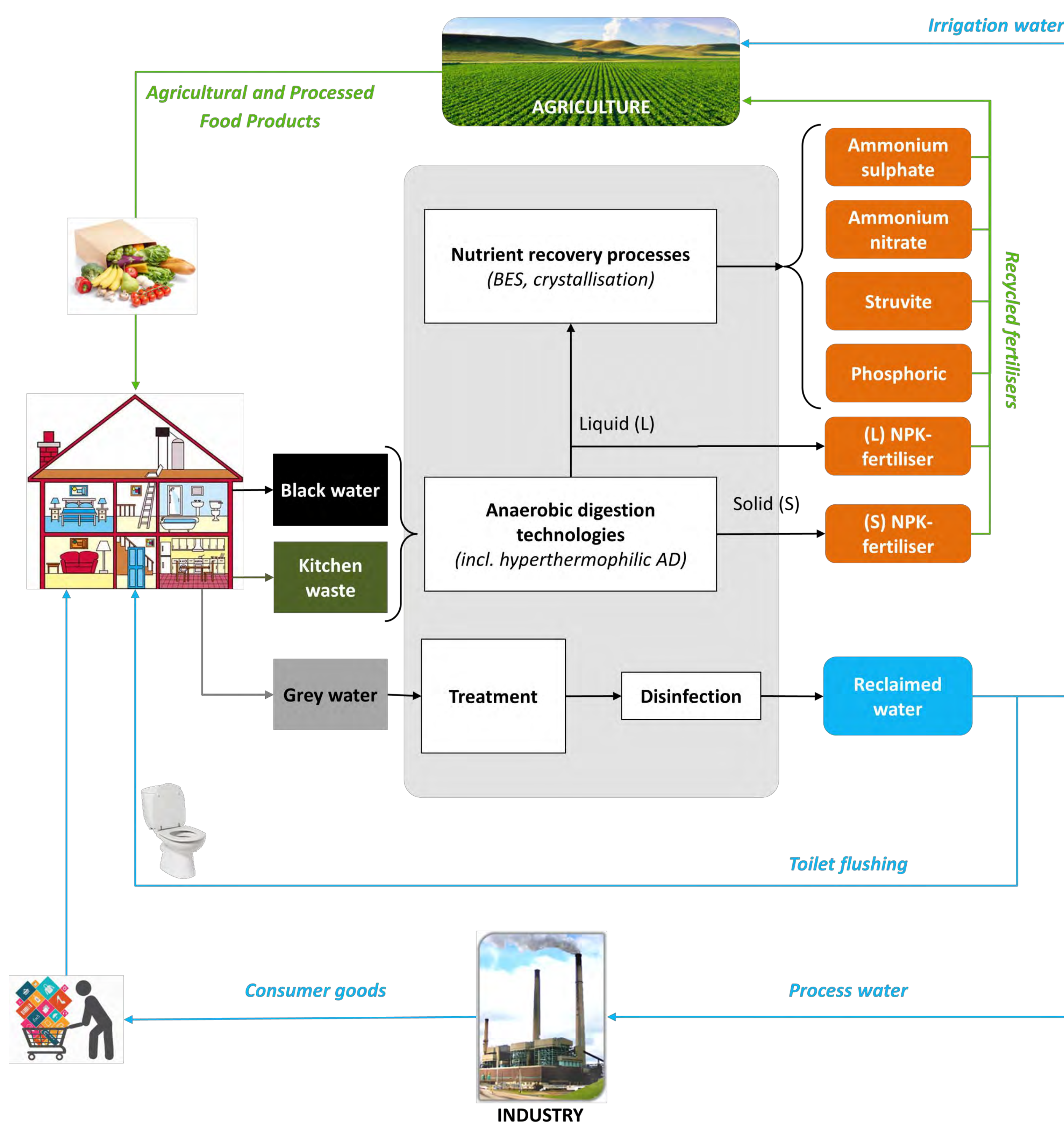
The **world food supply** is entirely dependent on the use of **fertilisers**. However, current fertiliser production practices are not sustainable. **Domestic wastewater** is an important nutrient carrier that is currently not exploited. **Run4Life** proposes **decentralised** nutrient recovery from wastewater at the **source**. This radical change opens a **new paradigm** in society.

### Objectives

- ✓ Improve innovative nutrient recovery technologies
- ✓ Demonstrate large scale nutrient recycling from domestic wastewater
- ✓ Evaluate impacts on environment, society and economy
- ✓ Promote full acceptance of recovered products and review legal framework
- ✓ Implement a value chain for the recovered products, incl. new business models

### Technological innovations

- » Ultra low flush vacuum system for toilets
- » Separate treatment of black water and organic kitchen waste
- » Hyper-thermophilic anaerobic digestion aimed at obtaining safe fertilisers in a one-step energy positive treatment
- » Ground-breaking nutrient recovery e.g. bio-electrochemical systems
- » Integrated value chain with online monitoring control



## Run4Life consortium and demonstration sites

### A joint force of 15 well-matched partners

The Run4Life consortium represents the **entire value chain**, consisting of universities, technology providers, public utilities, end users and experts in social sciences and humanities. This **optimal combination** of partners increases the **market success** of the proposed solutions and enhances **social acceptance**.

### Demonstrations sites

- Sneek, the Netherlands: 32 homes
- Vigo, Spain: 3 office buildings
- Ghent, Belgium: 120 homes
- Helsingborg, Sweden: 320 homes
- Czech Republic: large industrial area (replication site)



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The Run4Life project receives funding from the EU Horizon 2020 Research and Innovation programme, under G.A. No 730285.

