CITYFOOD

Project pitch Utrecht 2018

CITYFOOD

- Smart integrated multitrophic city food production systems – a water and energy saving approach for global urbanisation

Sustainable Urbanisation Global Initiative (SUGI)
FOOD-WATER-ENERGY NEXUS

BELMONT FORUM

URBANEUROPE

European Commission

CITYFOOD

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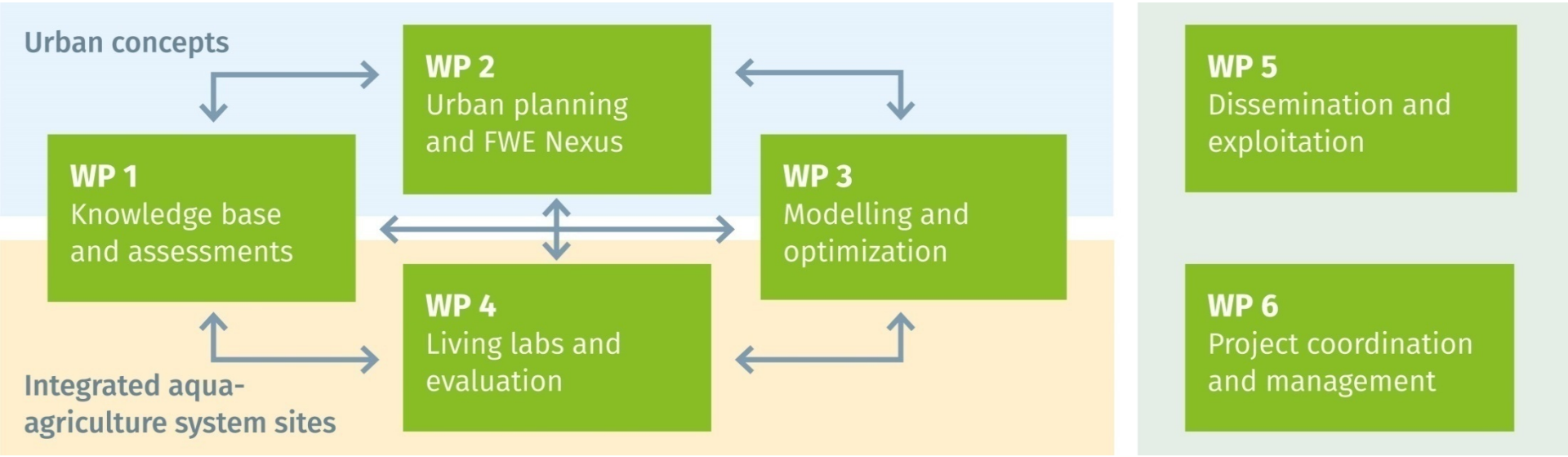

- **Food**
  fish & plants, protein shift
- **Water**
  reuse, waste reduction
- **Energy**
  saving, urban ressources

Sustainable Urbanisation Global Initiative (SUGI)
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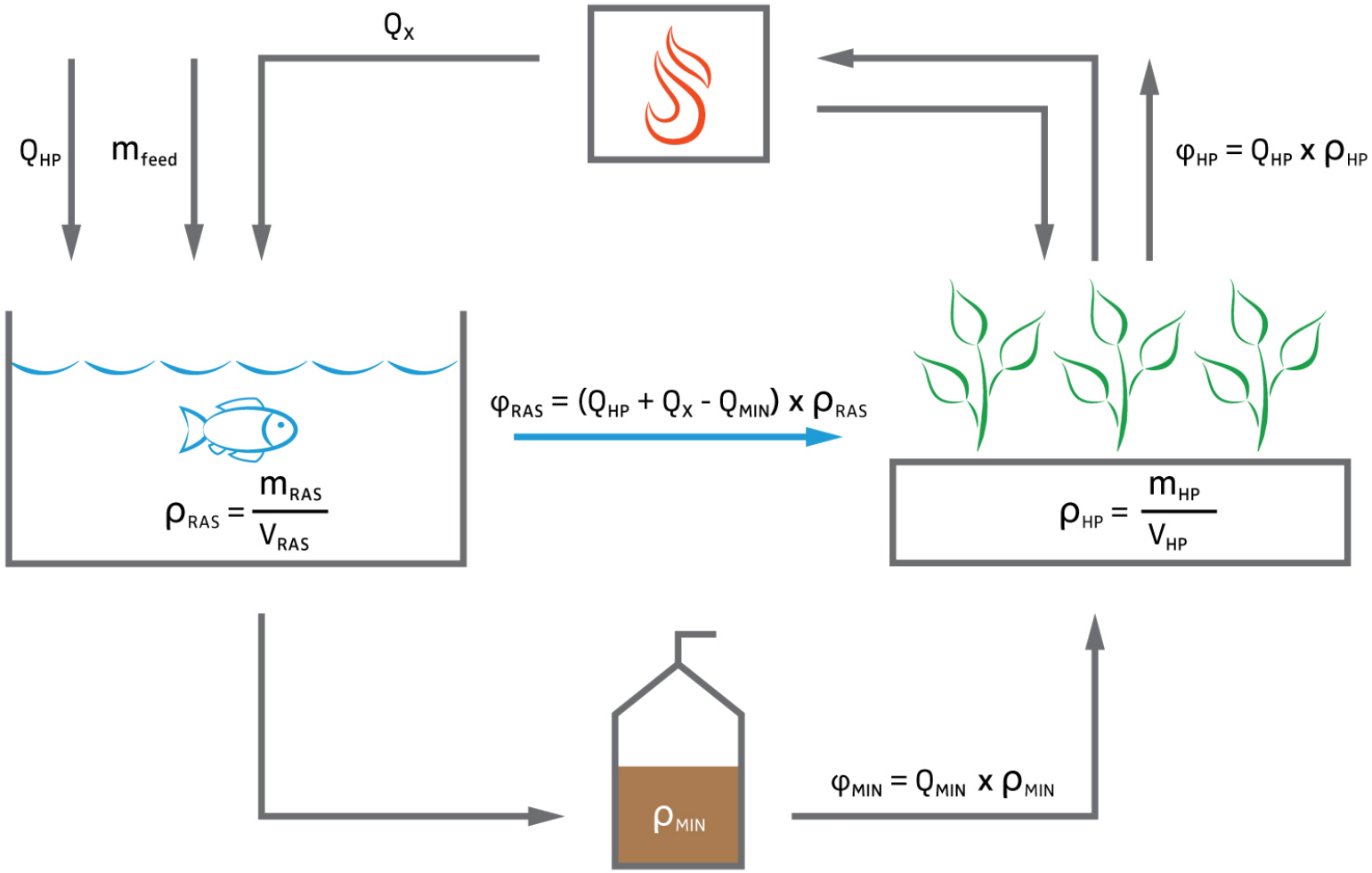
Multi-Loop Aquaponics



WUR CONTRIBUTION

- To what degree does urban agriculture make sense?
  - Comparing UA to peri-urban/rural agriculture. (economy-wise)
  - Modelling approach (MATLAB)
  - Lifecycle Analysis (LCA)
- Geographical and climate factors
  - Decision making process.
  - Latitude + climatic conditions (temperature, aridity, water availability, etc.)
  - Reverse engineering
- Comparing aquaponics to other state-of-the-art systems.