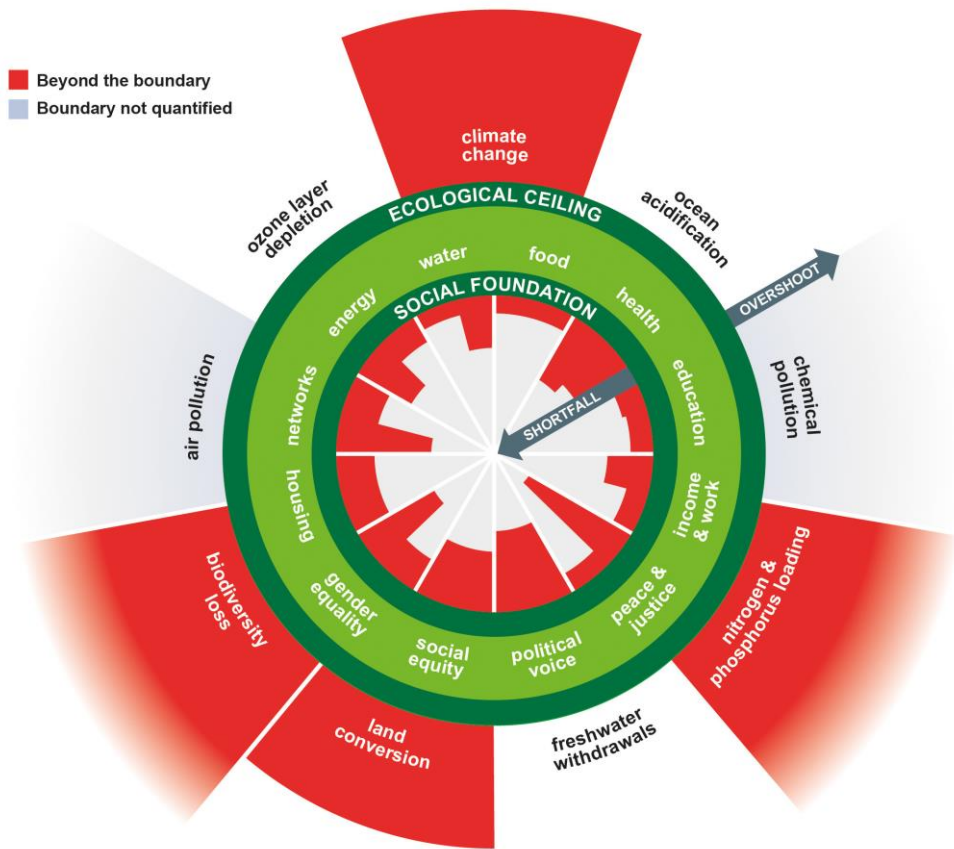
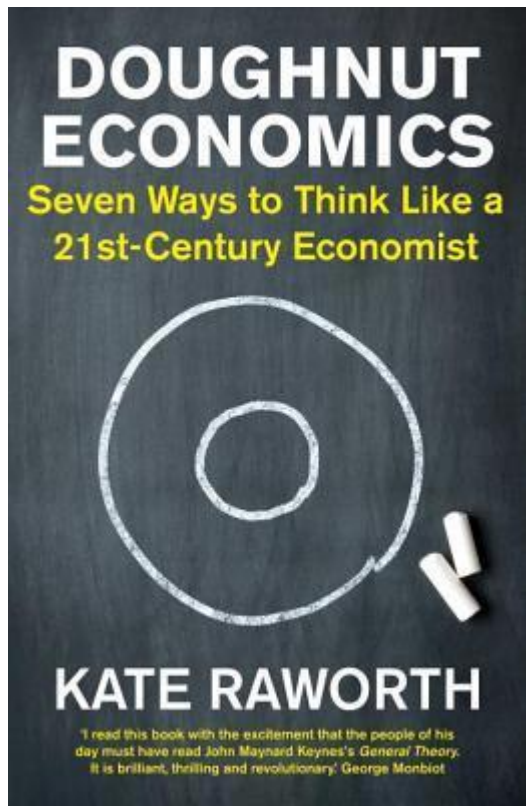


DE NIEUWE DOKKEN



CIRCULAR ECONOMY IN A NEW URBAN DISTRICT IN GHENT
Run4Life - Legal and Regulatory Framework workshop, dec 2nd 20
Lieven Demolder

The Donut Economy - From planetary boundaries to new economical models

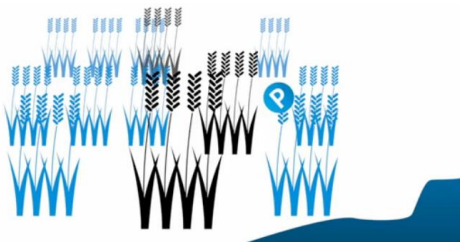


Climate change/globalisation is a *global* process that enacts *locally*

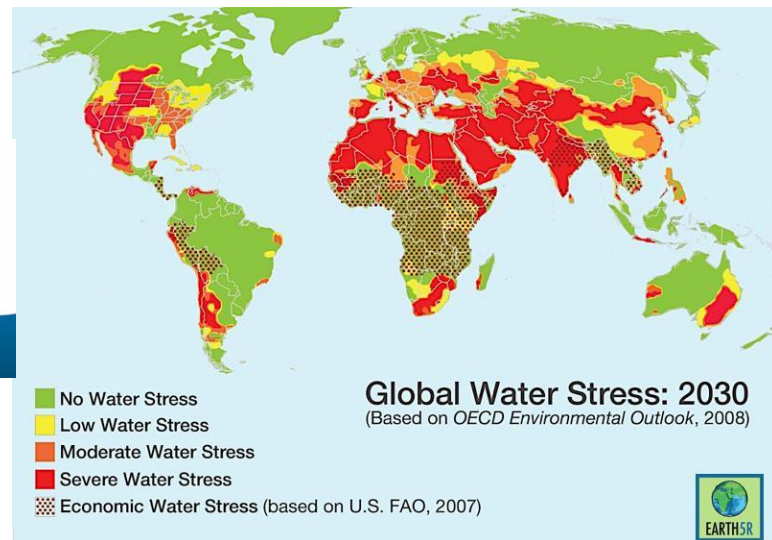
What are the challenges for Flanders?



Energy

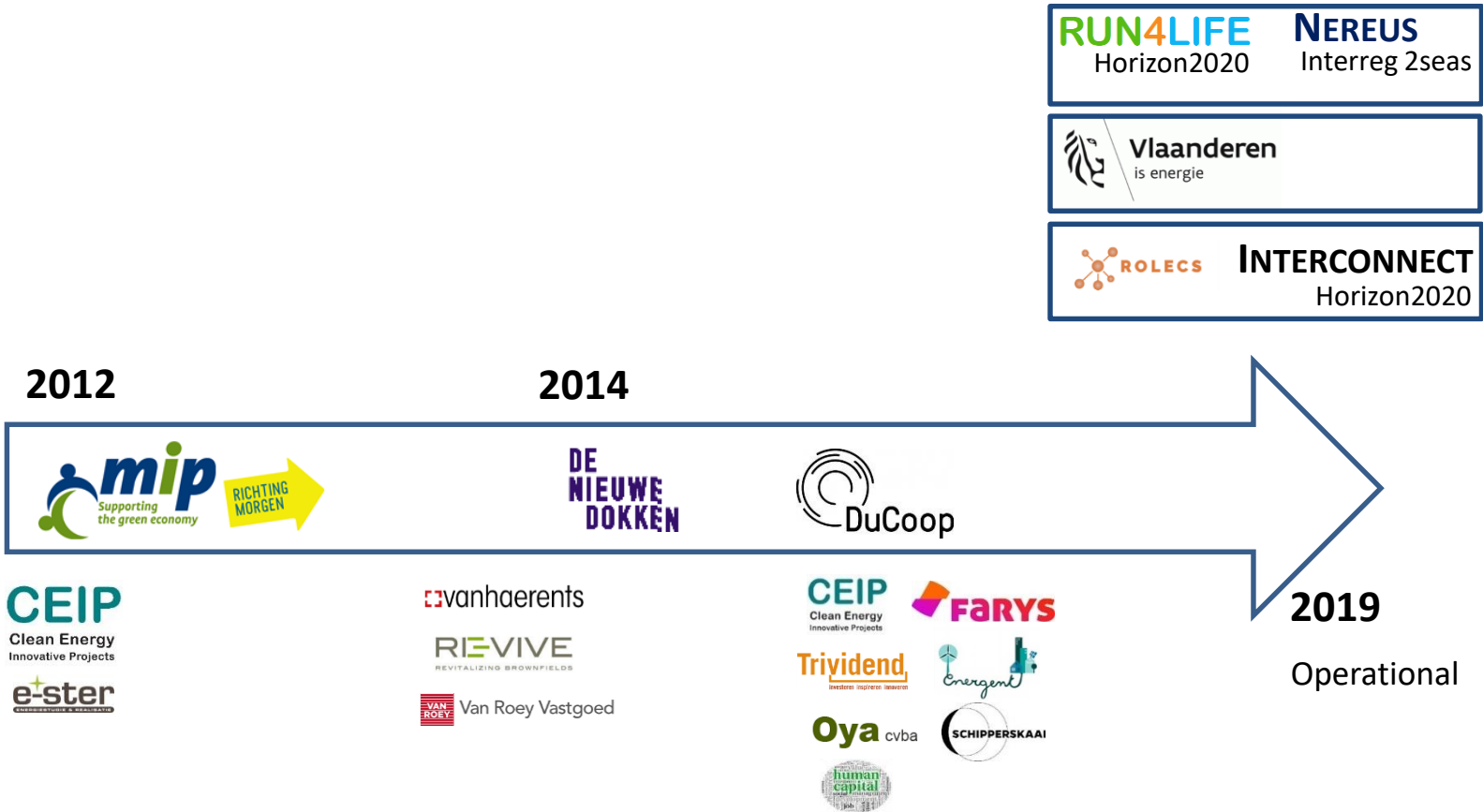


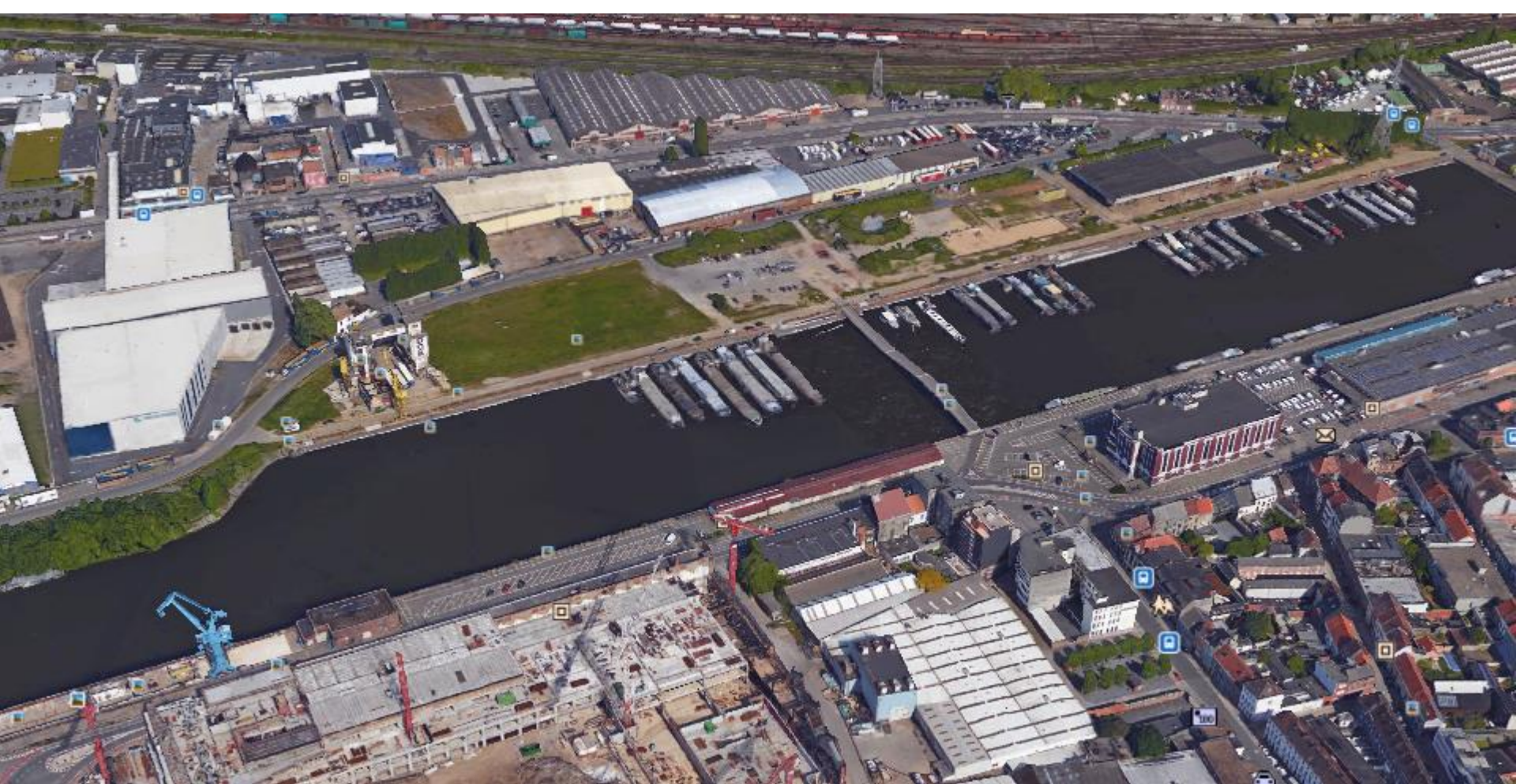
Nutrients

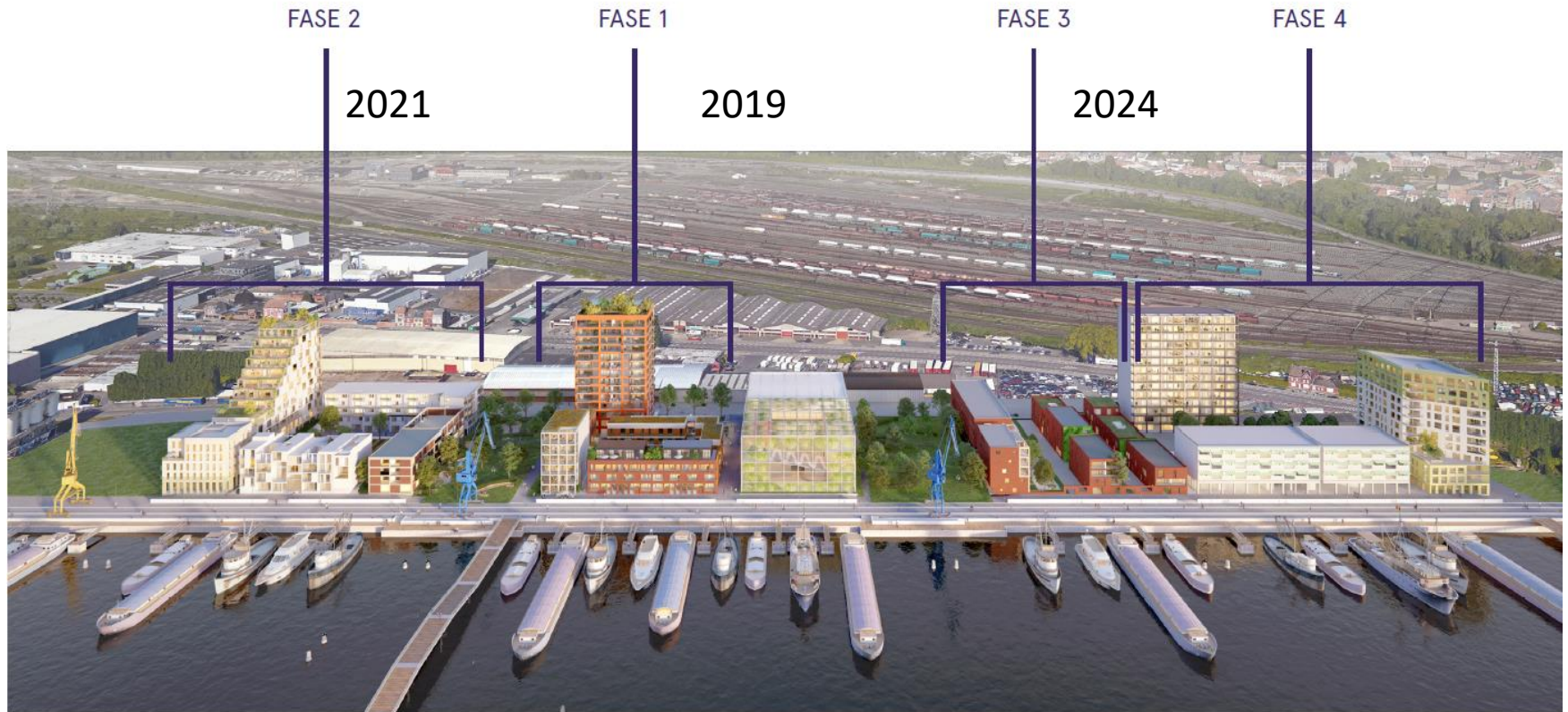


Water

Our innovation trajectory



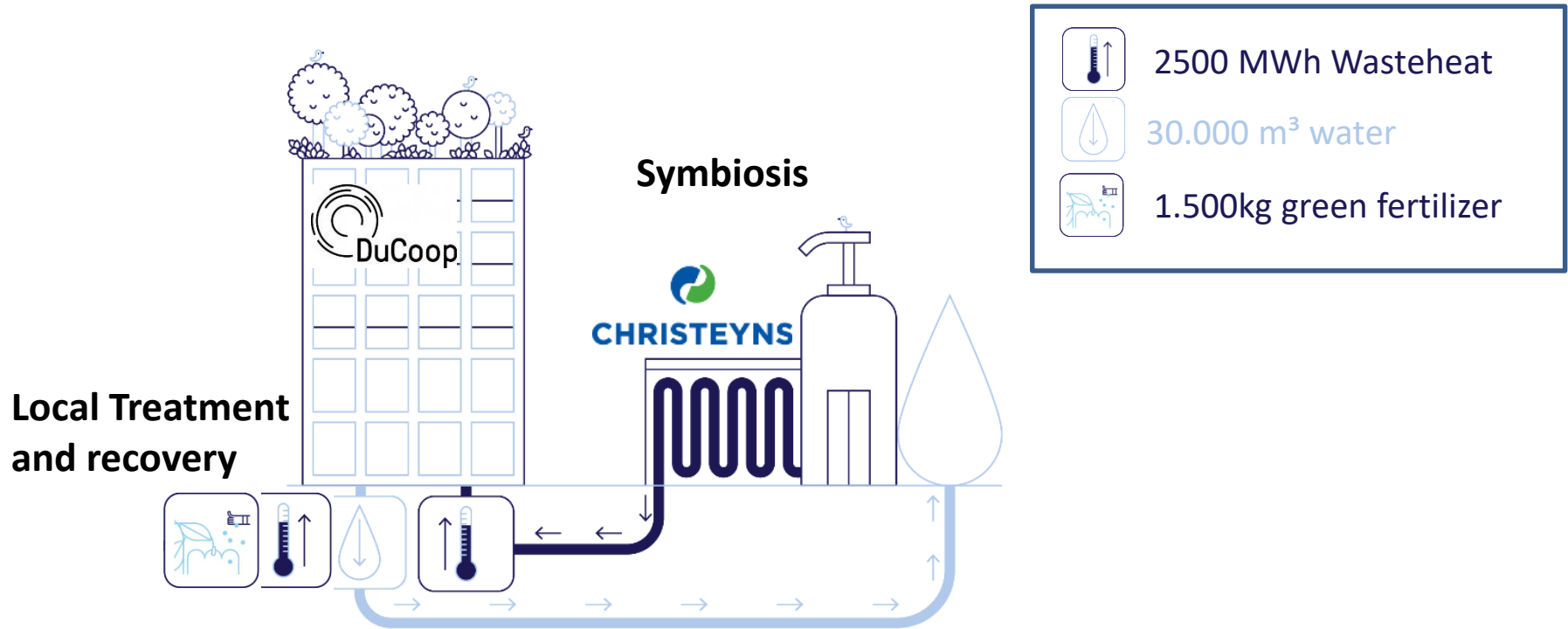




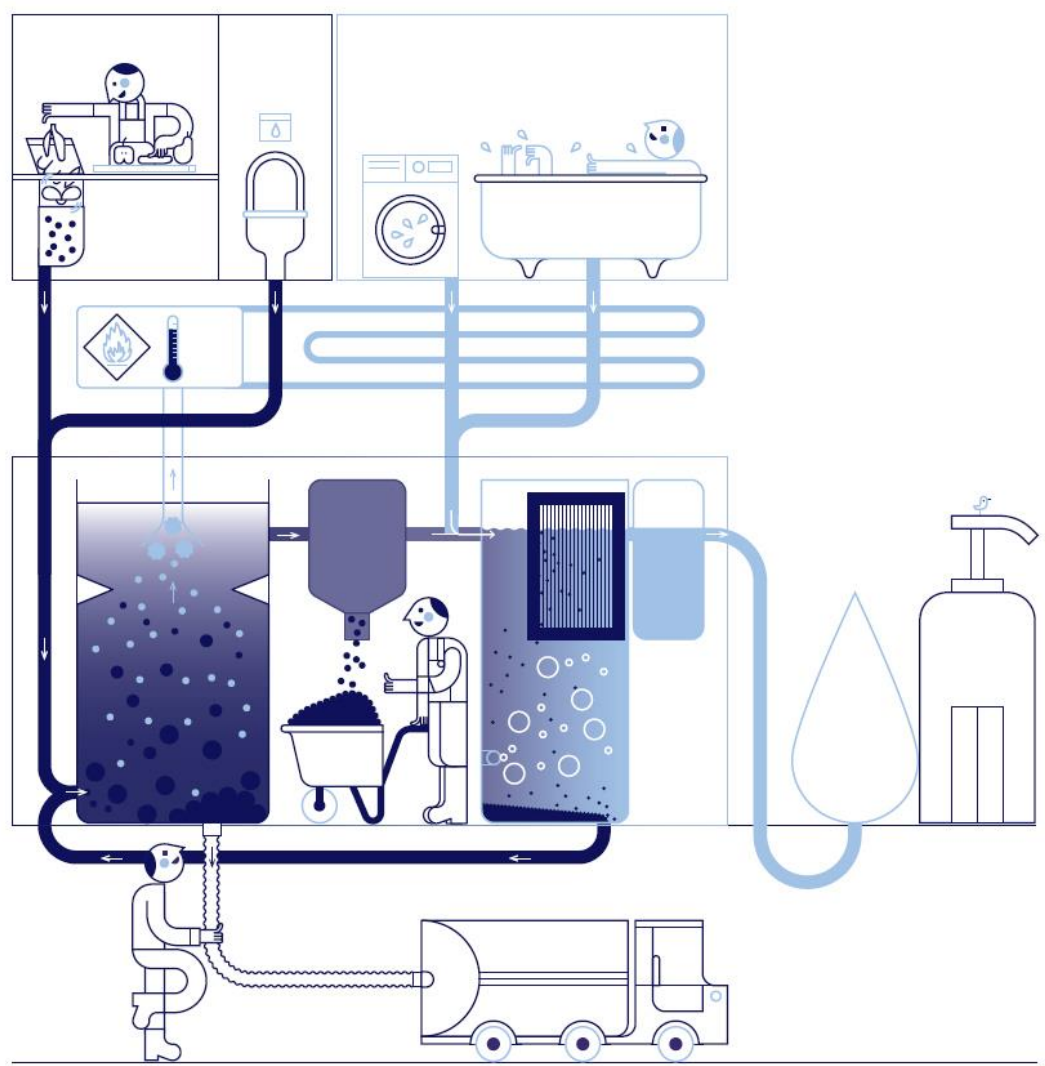
>400 living units + City complex (schools, sportinfrastructre etc.)

Our Backbone: ZAWENT System

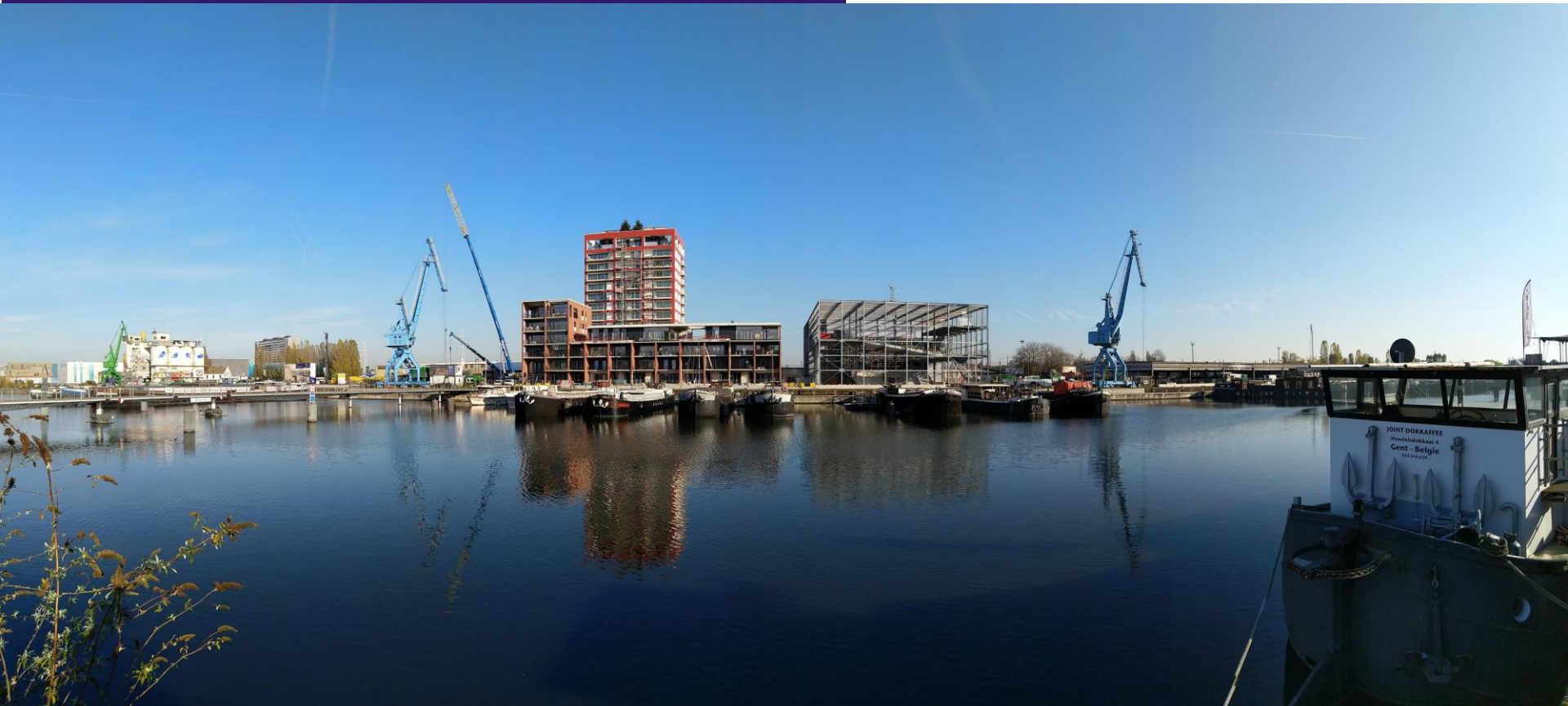
ZERO WASTEWATER WITH RECOVERY OF ENERGY & NUTRIENTS



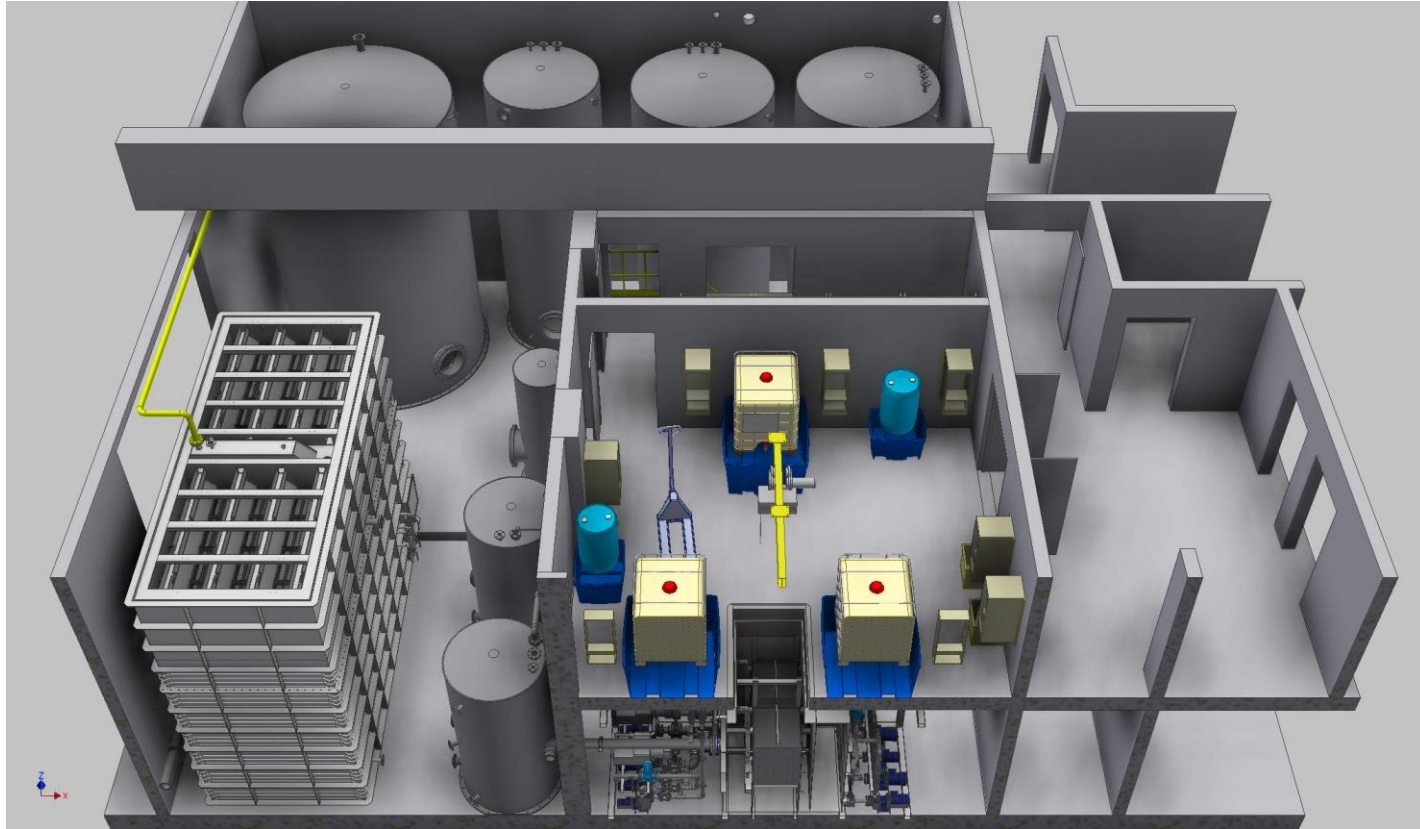
Resource recovery



Where are we now?
First developmental phase almost finished



Our wastewater treatment plant From design...



Towards implementation



Towards an installation ready for operation.



Succesful startup of the first vacuum sewer system in Flanders



EEN KLEINE BOODSCHAP MET GROTE GEVOLGEN

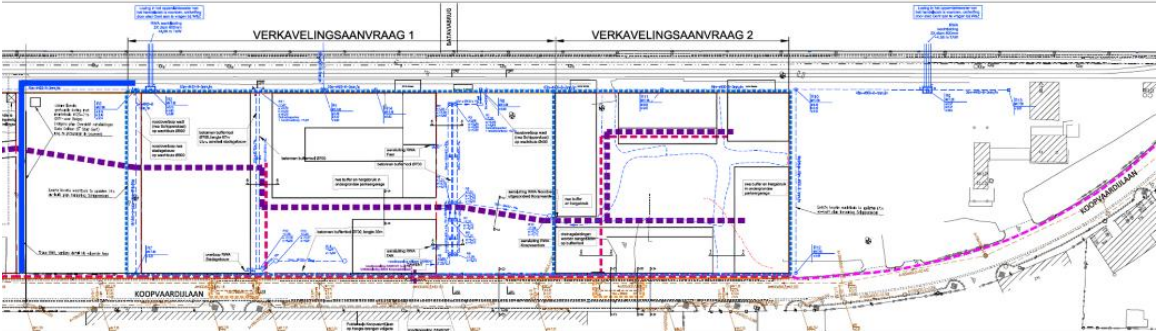
Dit toilet bespaart jaarlijks tot 25.000 liter water.
Help jij ook mee aan een goede werking?

GOOI DAN DIT IN DE VUILBAK:



Toiletrollen, Medicijnen, Tamponinbrengers, Tampons,
Pampers, Cleaning pads, Oorstaafjes, Pleisters, Sigaretten,
Maandverband, Babydoekjes, Natte doekjes, Spuiten

Construction of backbone



2023 ?

1-15/03/2018

Q1 2019

THV ND
Q4 18 - Q1 19

Met Farys

Koopvaardijlaan:
Coördineren met Farys
Q3/4 2018 of Q1 2019

Inpandig Noordveld:
THV ND 2021?

Koopvaardijlaan:
Coördineren met DEME
Q4 18 of Q1 19
Inpandig Christeys + stookplaats:
Q3/4 2018

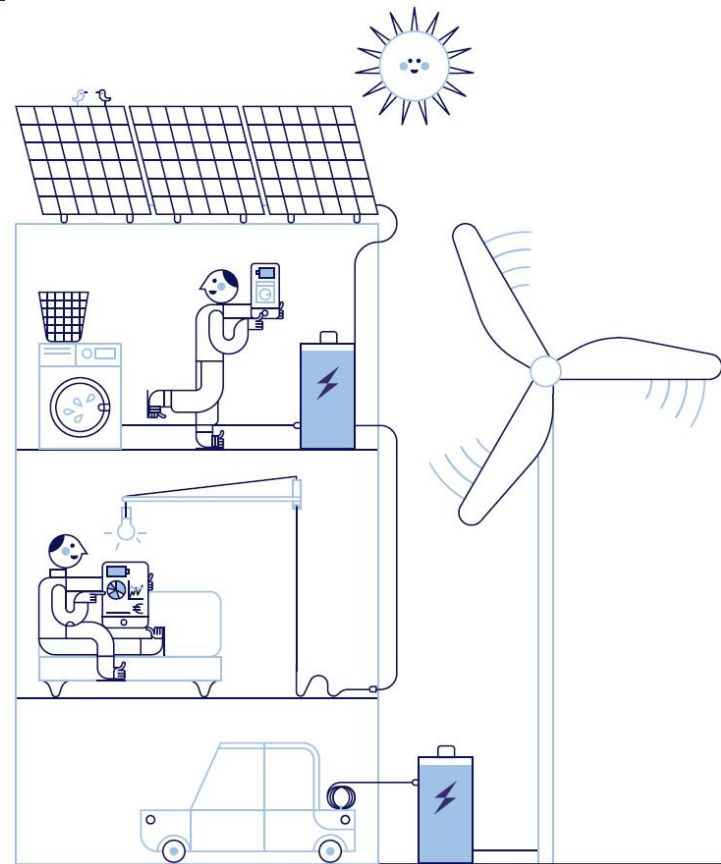
Smart Multi-energy District: Objectives

HEAT

- Balancing of DuCoop portfolio (production, storage, demand)
- Optimal deployment of heat pump and CHP
- valorization of renewable energy production

ELECTRICITY

- Balancing of DuCoop portfolio (production, storage, demand)
- Limiting congestion of local grid
- Grid services (flexibility)



Added value of cooperative business models

Founding partners



residents



Private equity



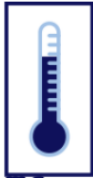
Support

Triodos Bank

Bank loans



Sustainability cooperation DuCoop




Energy

- 4de gen. Heat network
- Waste heat
- Rooftop PV
- Smart Grid appliances




Water

- Local sanitation
- Reuse as process water



Waste

- Source separation
- e.g. vacuum systems
- Green waste collection and treatment



Mobility

- Electric bike
- Electric car (sharing)
- Charging stations



DuCoop cvba





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Interreg
2 Seas Mers Zeeën



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