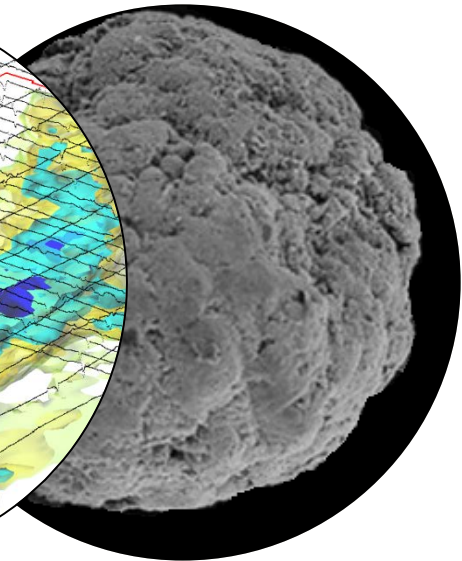
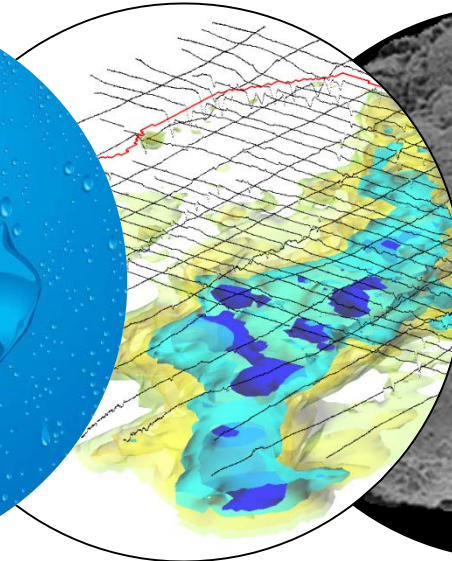
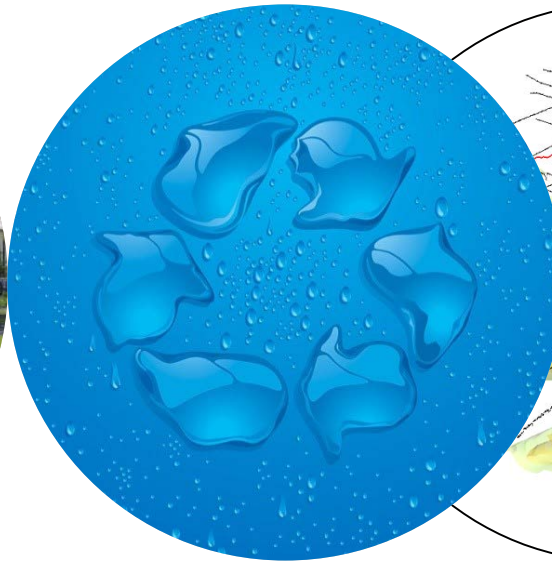
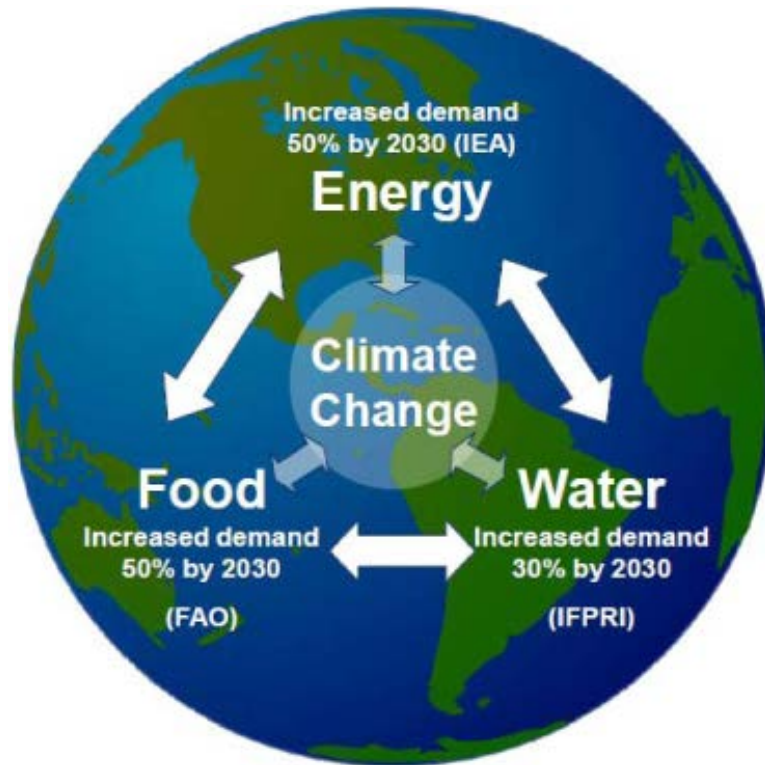


Water-Energy-Food Nexus

Dr. Koen Wetser



Why the Water-Energy-Food Nexus



Our future sustainable and economic development

What do we NEED?

- Long-term sustainable water, energy food supply
- Through Integrated management:
 - Good knowledge on demand and supply
 - Good technologies
 - Good concepts

Location-specific
integral solutions

Who do we need?

■ Sectors

- Water
- Energy
- Agriculture
- Economy
- Policy
- Environment
- Science
- Etc

■ Scales

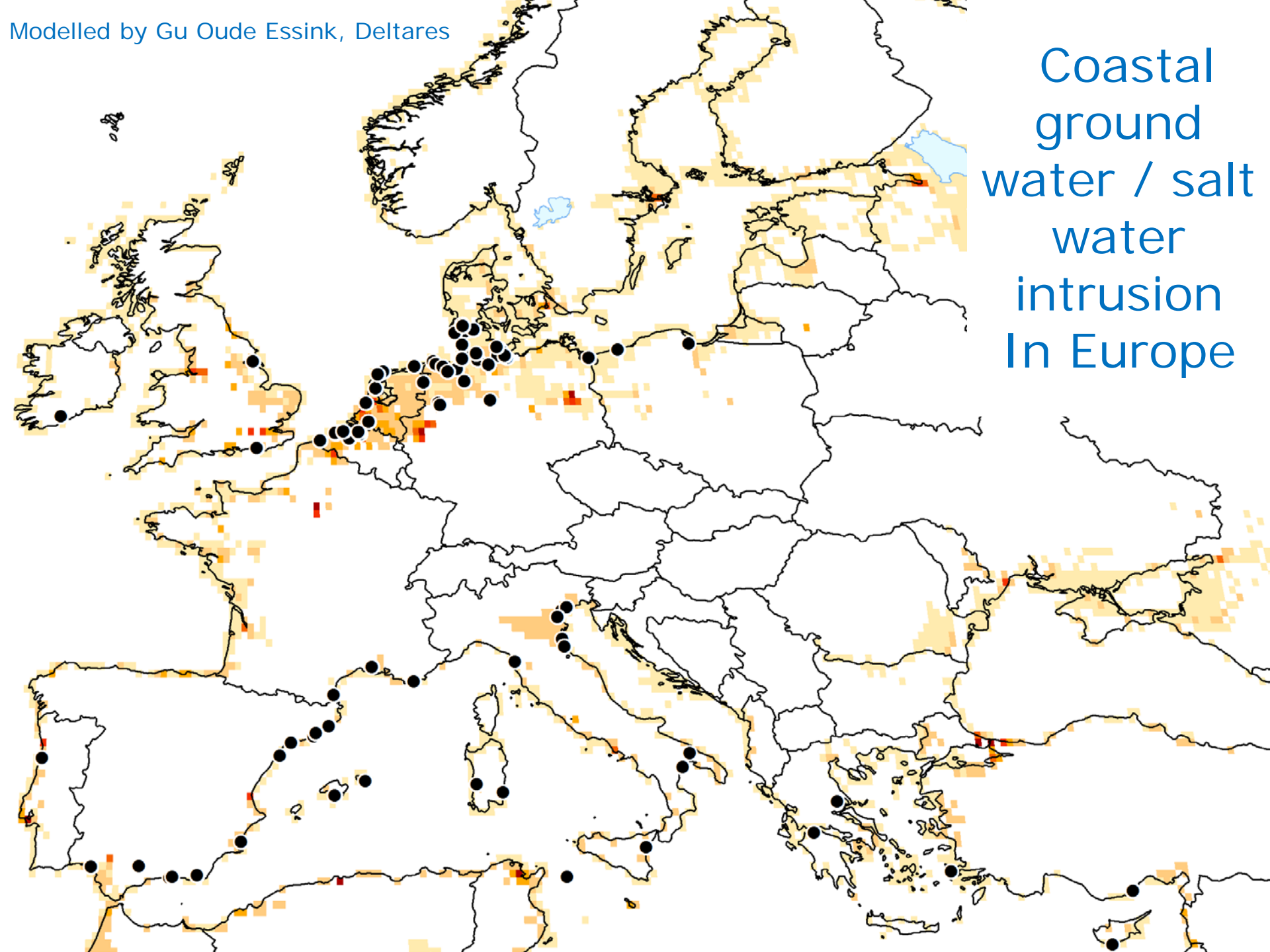
- International
- National
- Regional
- Local

Nexus projects

- Challenge may be similar
- Solution are location specific

Modelled by Gu Oude Essink, Deltares

Coastal ground water / salt water intrusion In Europe



Dow Terneuzen



Stakeholder interaction

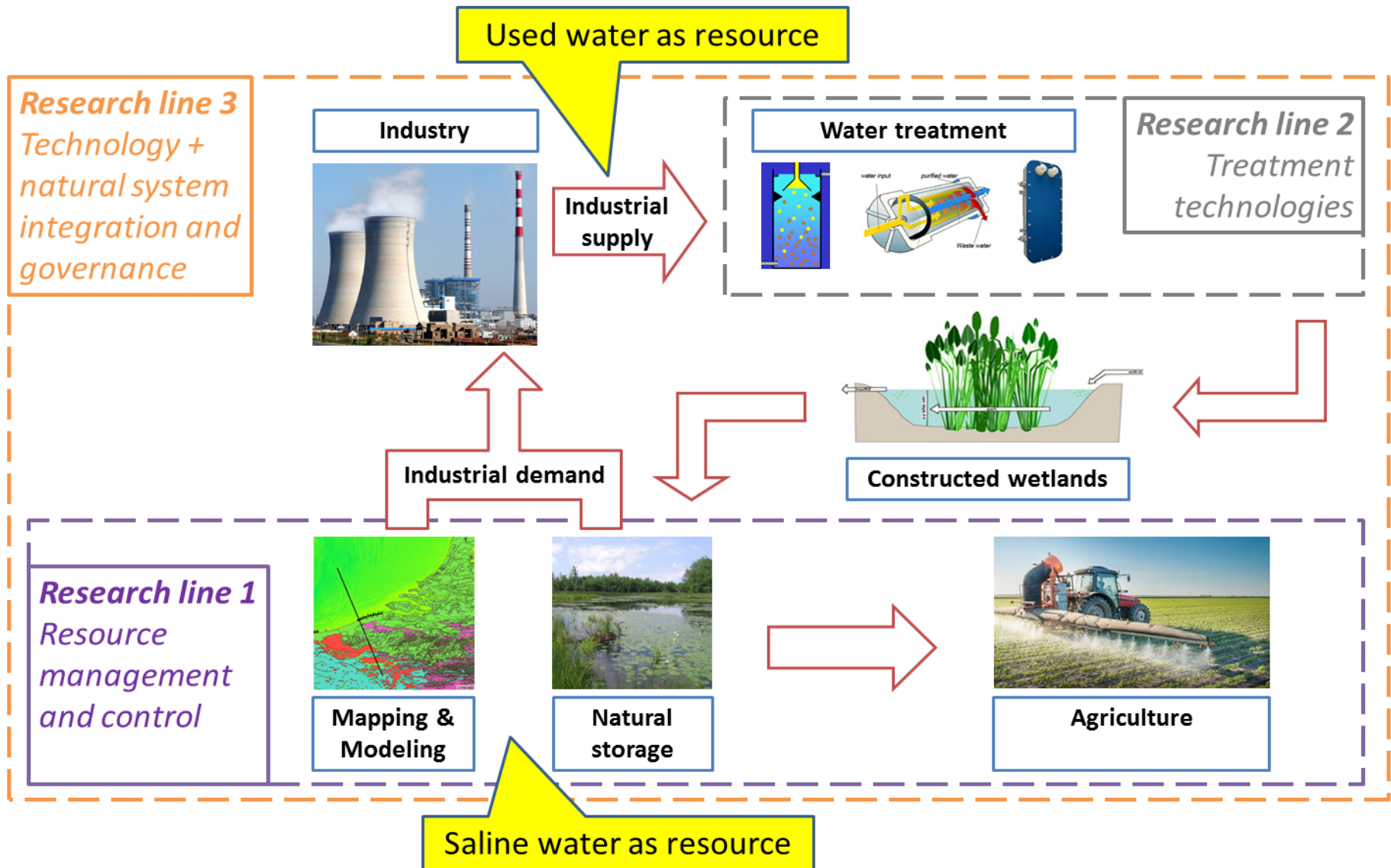


Consortium



End goals

- Make (agro) industrialised regions water self sufficient using green infrastructure
- Fresh when needed, Saline when possible
- Used & salt (including brackish) water as an indispensable resource
- Regional Integration; industrial demonstration



Wetland treatment



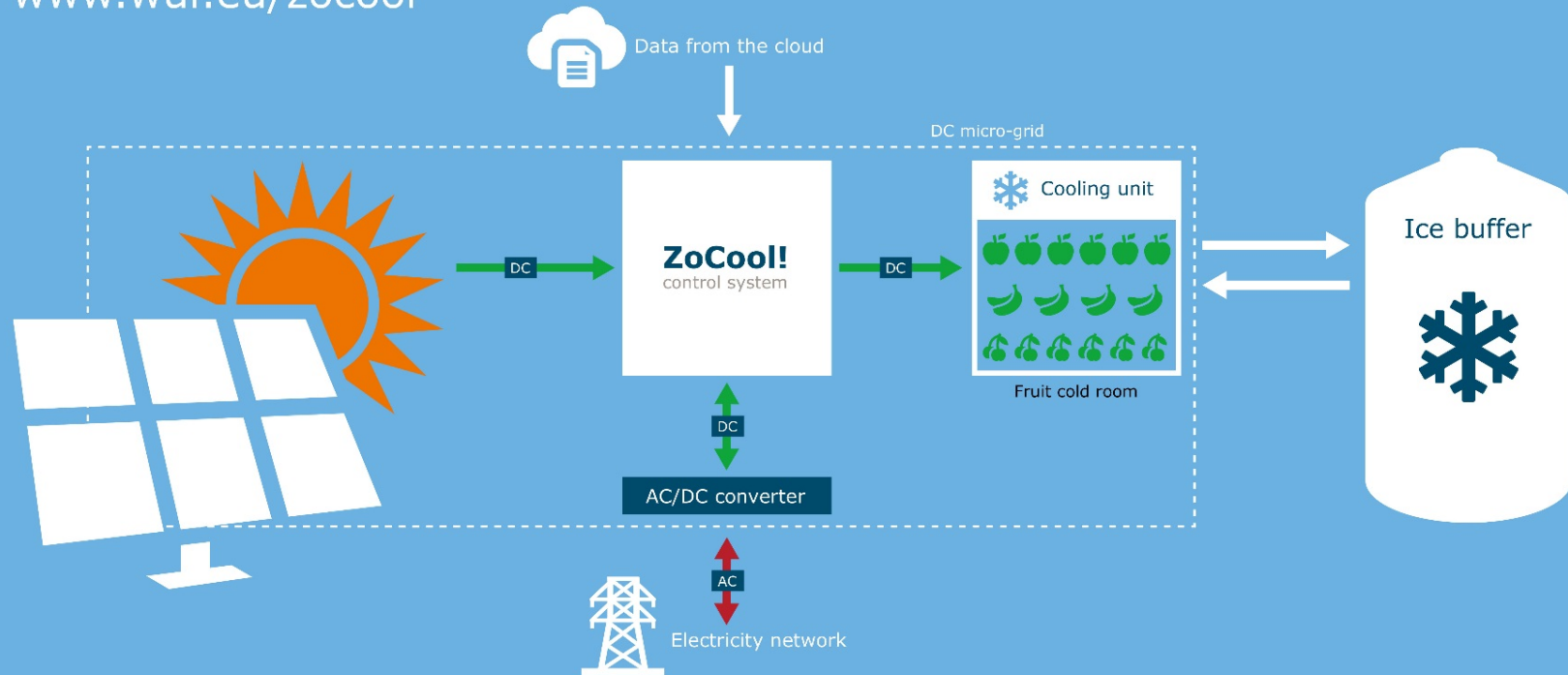
MADFORWATER

- Reduce water vulnerability in Mediterranean African countries
- Integrated technological and management solutions for reuse of wastewater in agriculture
- Solutions are realized through strong dialogue with local stakeholders



ZoCool

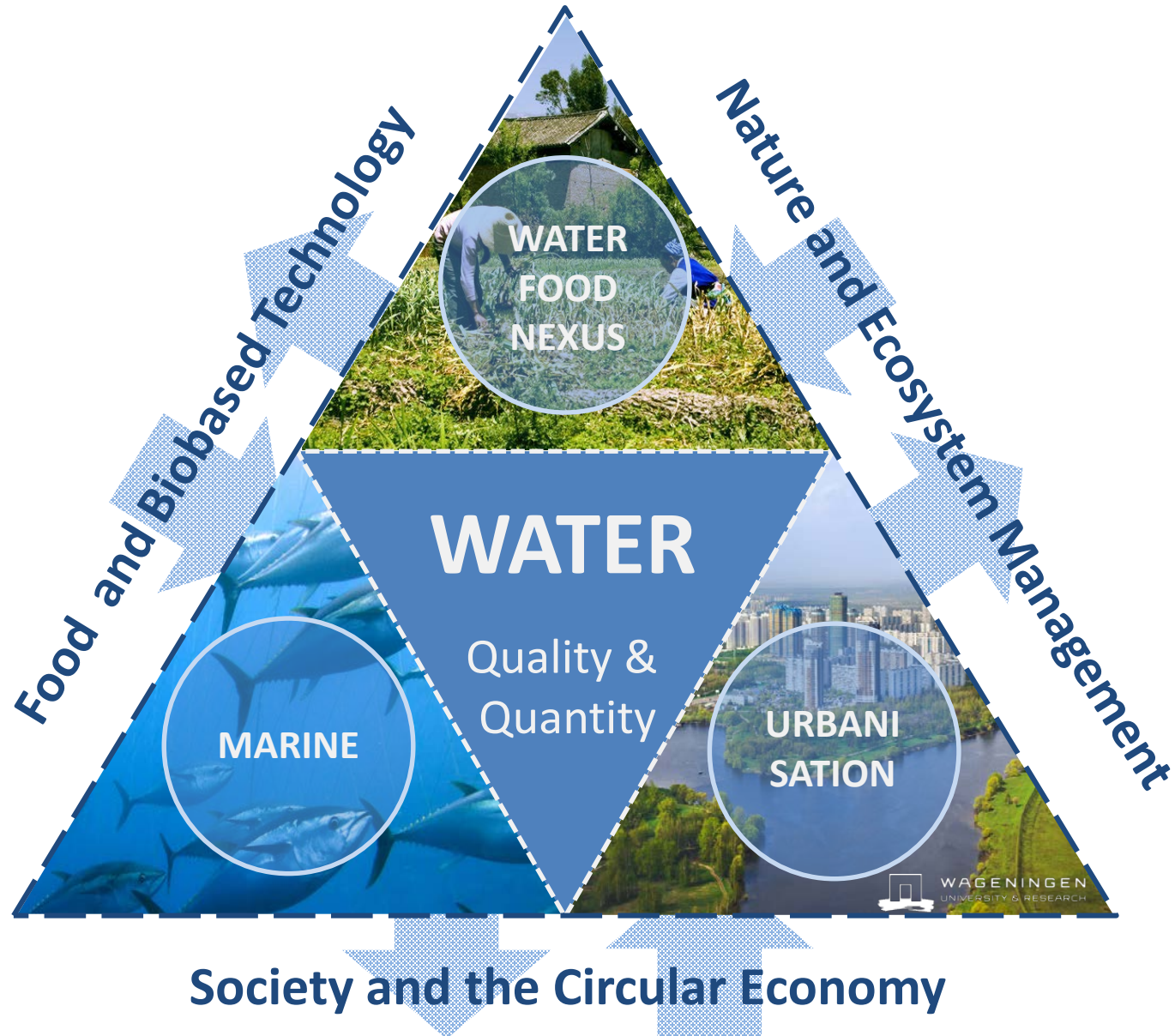
www.wur.eu/zocool



Other nexus examples

- Sesame in Tigray, Ethiopia
- Improved water management in river basins in Colombia
- Strengthening Lebanese water and agricultural sector

‘To explore the potential of nature to improve the quality of life.’



Thank you

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www.waternexus.nl

