

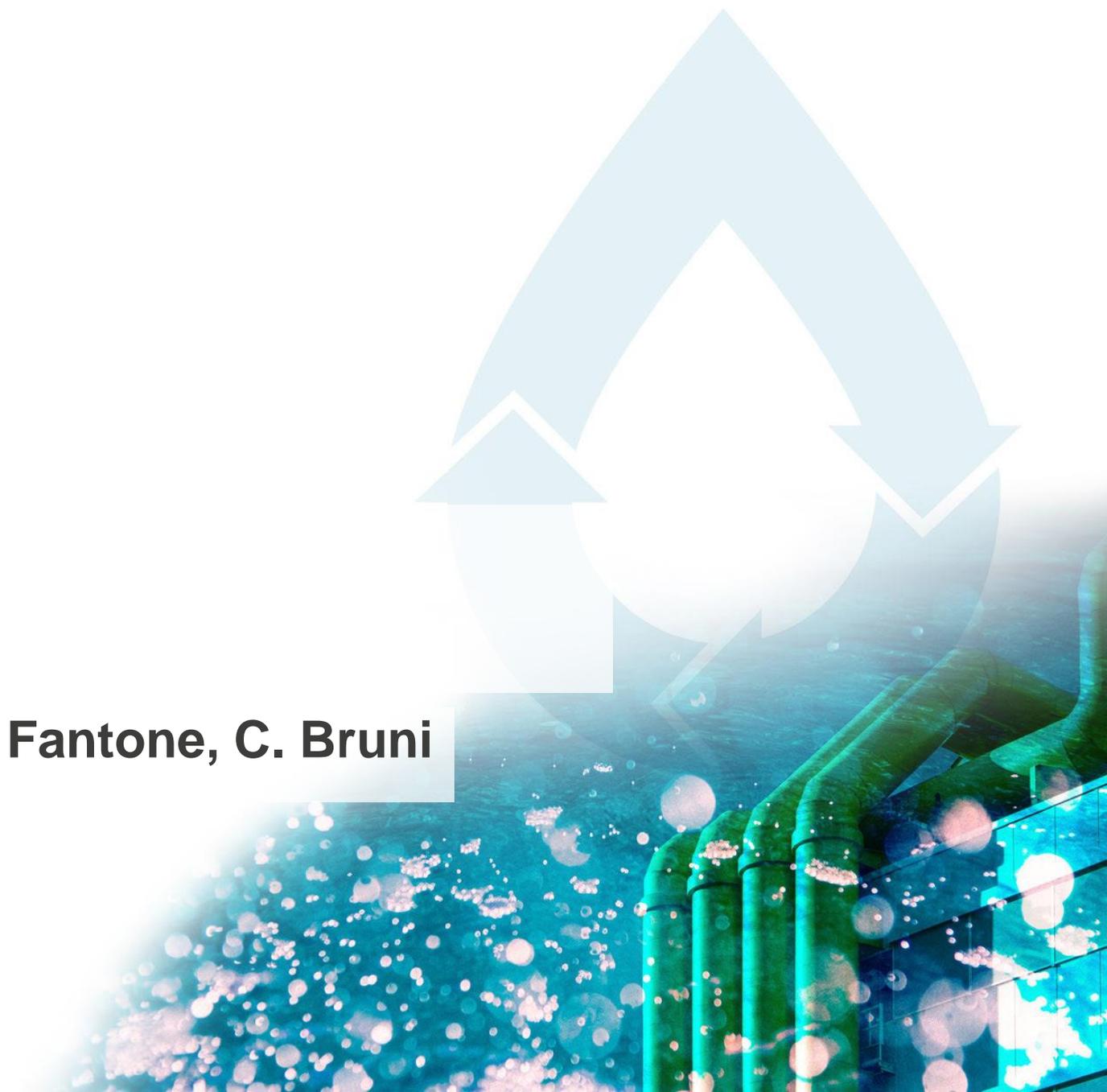


WATER SMART INDUSTRIAL SYMBIOSIS

## Online seminar on digitalization

A. Kleyböcker, S. Casa Garriga, F. Fantone, C. Bruni

May, 20th 2021





# Ultimate (June 2020 – May 2024): Industry water-utility symbiosis for a smarter water society

- Promotion, establishment and extension of **Water Smart Industrial Symbioses**
- Development and demonstration of **innovative technologies** for symbioses
- **Assessment** of the technologies and development of **digital „support tools“**
- Development of **new business models** towards marketability

## 9 Symbioses between:

### Industrial sectors

- Agro-food
- Beverage
- (Petro)chemical
- Biotech

### Service providers

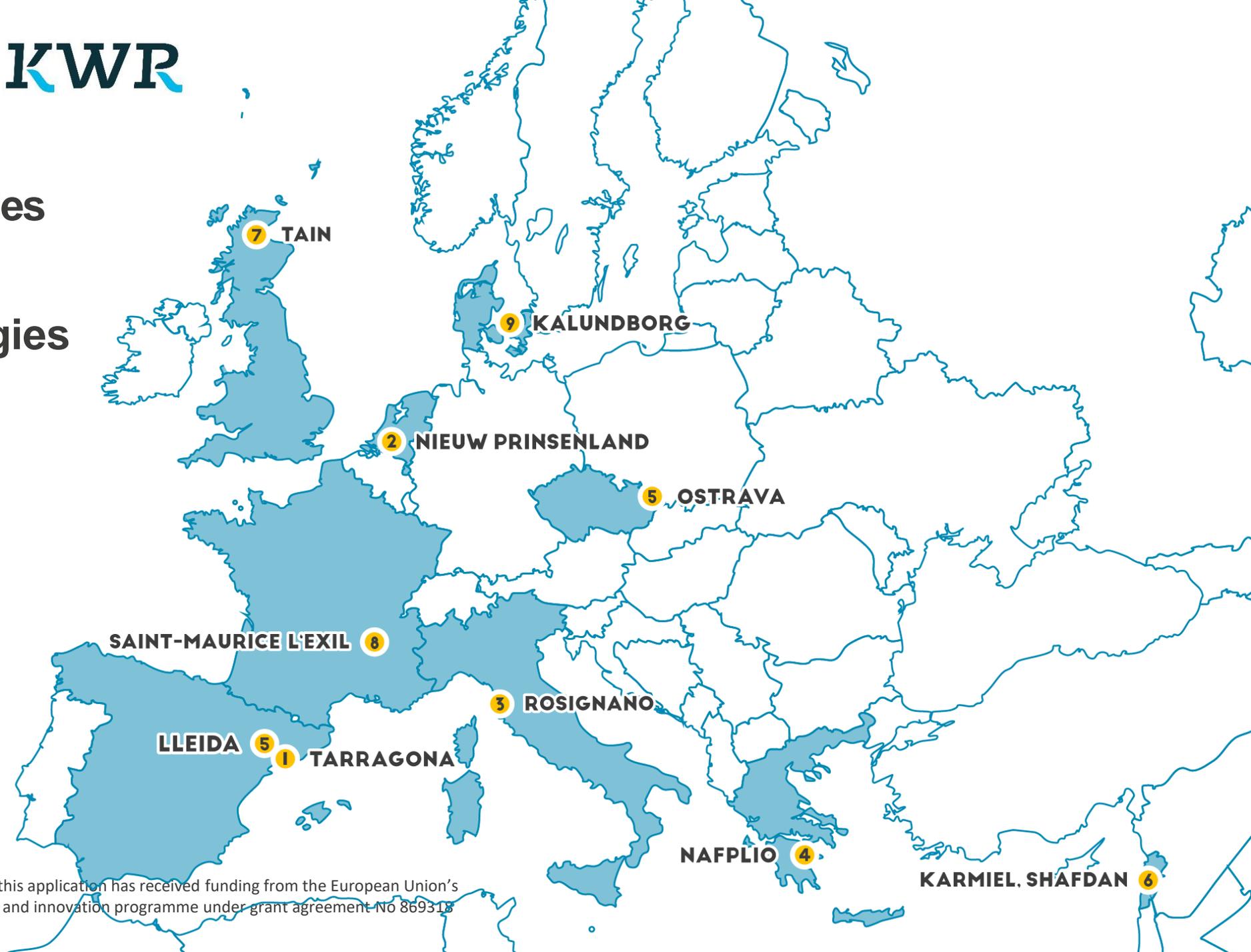
- Municipal utility
- Multi-industry utility
- Specialized SME
- Water services provider





Coordinator: **KWR**

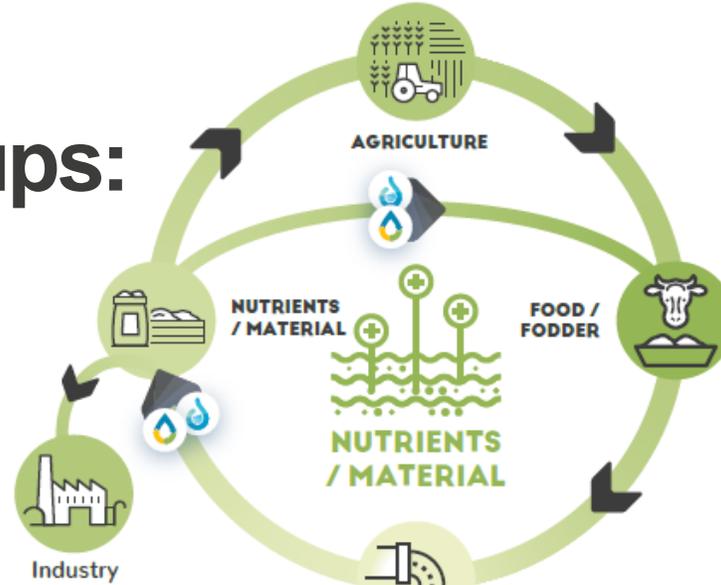
**9 Case Studies**  
**27 Partners**  
**37 Technologies**



The project leading to this application has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 869318



# 3 Cross-cutting Technology Groups: 9 Topics



F. Fatone C. Bruni

- Nutrient recovery
- High added value products
- Metal recovery

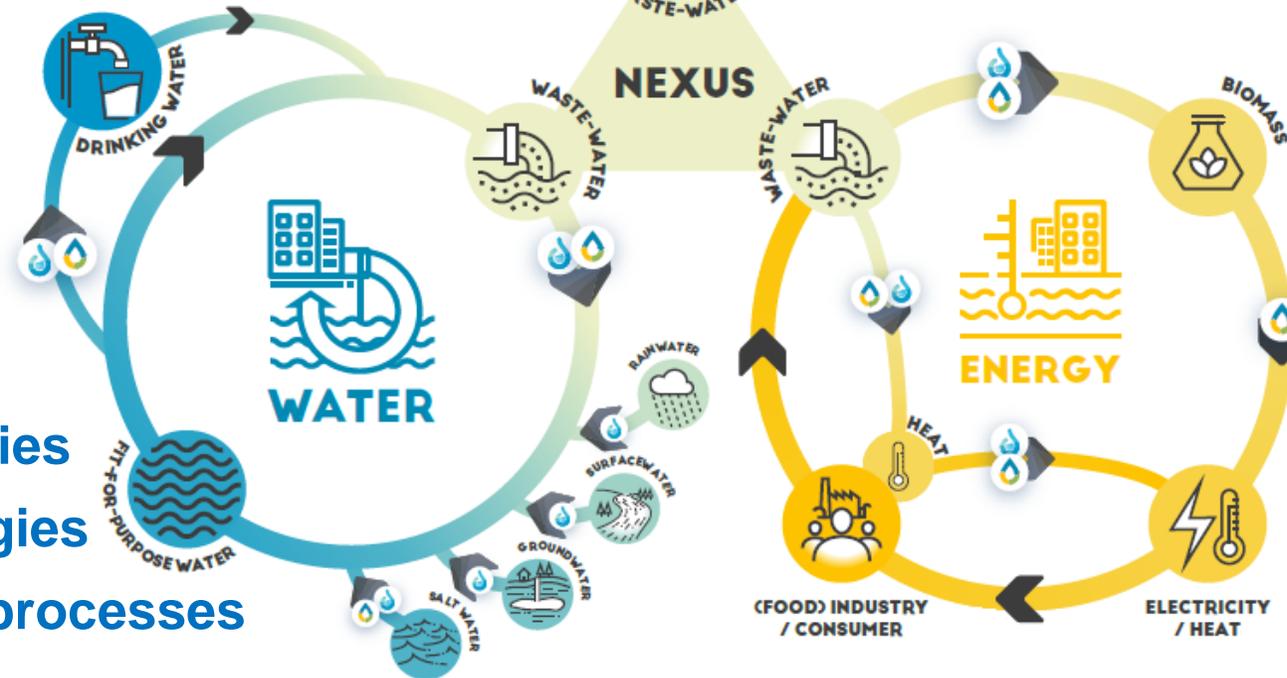


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S. Casas

eurecat  
Centre Tecnològic de Catalunya



A. Kleyböcker

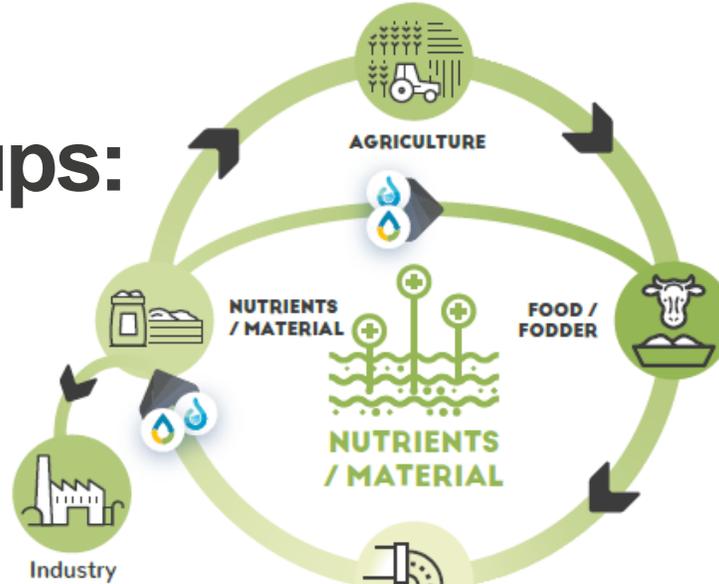
KOMPETENZZENTRUM  
WasserBerlin

- Biogas technologies
- Heat recovery
- Digitalization

- Membrane technologies
- Adsorption technologies
- Advanced oxidation processes



# 3 Cross-cutting Technology Groups: 9 Topics



F. Fatone C. Bruni

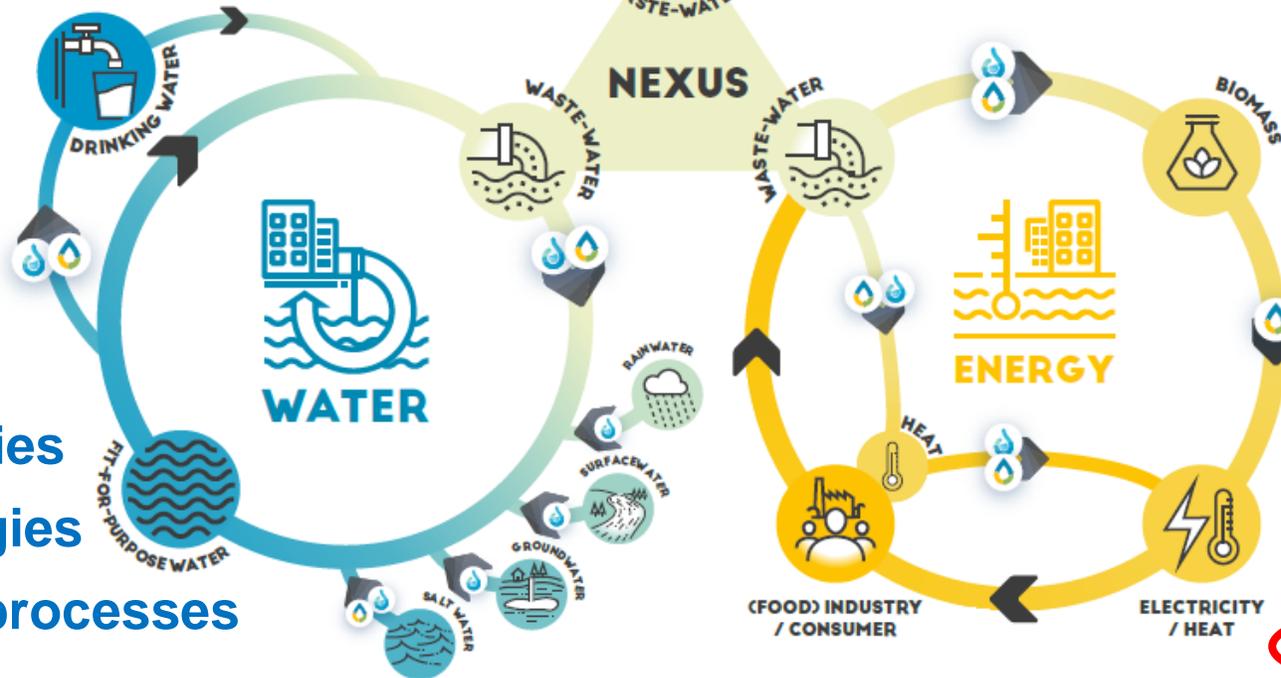
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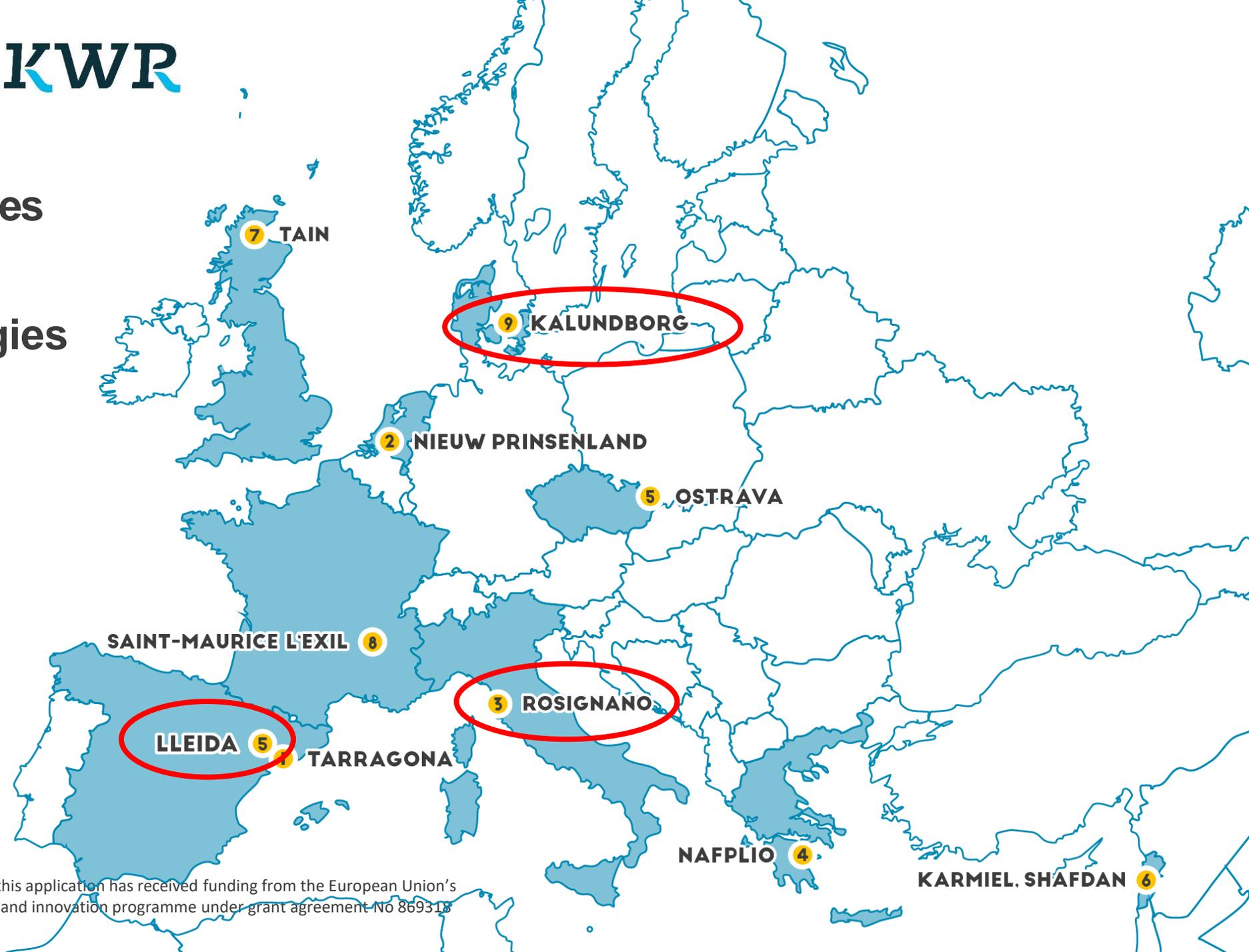


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# Online seminar on digitalization

- 14:10      **Digital Water City (DWC):** Early warning system for bathing water quality and water reuse  
*Nicolas Caradot (KWB)*
- 14:35      **CS3 Rosignano:** Development of an early warning system for saltwater intrusion in the sewer system  
*Simone Neri (West) & Cecilia Bruni (UNIVPM)*
- 14:50      **CS5 Lleida:** Development and implementation of an early warning system for membrane fouling  
*Antonio Giminez Lorang (Aqualia)*
- 15:05      Short break
- 15:15      **CS9 Kalundborg:** Development of a joint control system for an industrial and a municipal wastewater treatment plant  
*Anne Kleyböcker (KWB) & Line Rodenkam Melchiorsen (KCR)*
- 15:30      **Fiware4Water:** Intelligent control wastewater treatment  
*Siddharth Seshan (KWR) & Alex van der Helm (Waternet)*
- 15:55      **End**





# Please mute your microphone and use the chat to ask questions!

## Presentations will be available on our webpage: [ultimatewater.eu](https://ultimatewater.eu)



### ACADEMIC ARTICLES & PUBLICATIONS

 COMING SOON



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