



Reuse, Recovery and Resource efficiency,
Innovations in urban wastewater treatment



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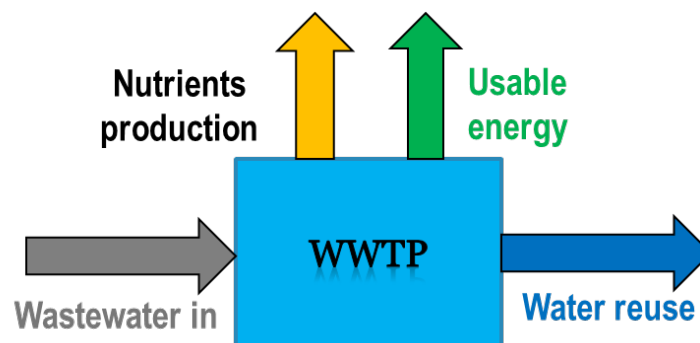
Welcome to the R3Water Workshop: Potential application fields for innovative wastewater treatment technologies

R3Water:

Demonstration of innovative solutions for Reuse of water,
Recovery of valuables and Resource efficiency in urban
wastewater treatment

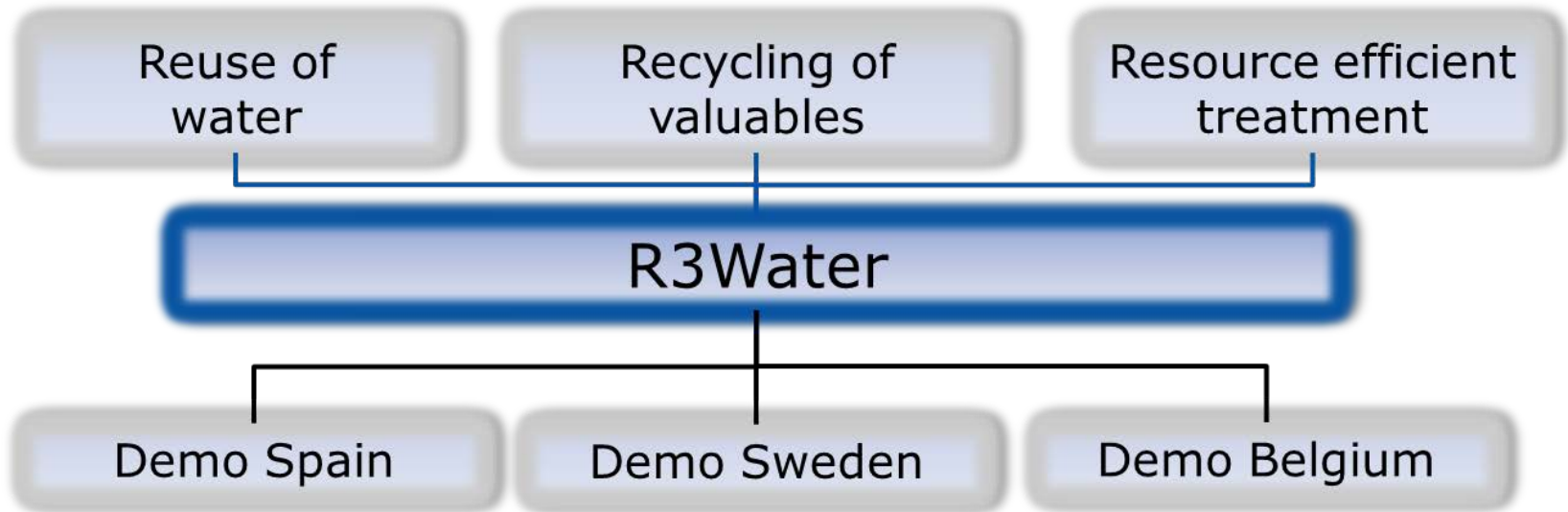
Waste Water Treatment Plants (WWTP)

- WWTP today – meeting requirements
 - A significant energy user
 - Emissions of greenhouse gases
 - Effluent might still contain viruses, pathogens and other unwanted contaminants
 - Generated sludge is a problem
- WWTP in the future – a production facility
 - Net energy production
 - Recovery of nutrients
 - Resource efficient treatment
 - Better treatment results
 - Water reuse
 - Generated sludge/waste is a resource



Project objectives

- To support the transition from an urban wastewater treatment plant to a production unit of different valuables by demonstrating new solutions to address main challenges
- To facilitate the market uptake of these innovative solutions.



12 partners (6 SMEs)

- Belgium: *Aquafin*
- Finland: *VTT, Ekolite*
- Germany: *DECHEMA, AVA-CO2*
- Great Britain: *Perlemax*
- Norway: *Prediktor*
- Spain: *Adasa, Icra, Teqma*
- Sweden: *Aqua-Q, IVL*



Map adapted from <http://ppt-toolkit.com>

Agenda for today

11:00 Welcome, introduction to current situation in urban wastewater treatment/ R3Water

11:15 Presentation of the technologies in R3Water

“Reuse of water”, “Resource recovery”, “Resource efficiency”

12:15 Lunch

13:00 World Café 3 tables :with the following topics:

- a. Challenges and needs (technical, regulatory, organizational/societal)
- b. Application opportunities/scenarios in municipal waste water treatment

Summary

15:00 Coffee break

15:15 Additional application fields

“Impulses on resource and energy efficient concepts for municipal wastewater treatment plants”

“Water reuse and resource recovery, potential application fields”

Discussion: on challenges and needs, barriers and opportunities

16:15 Summary of the workshop

16:30 End of the workshop