

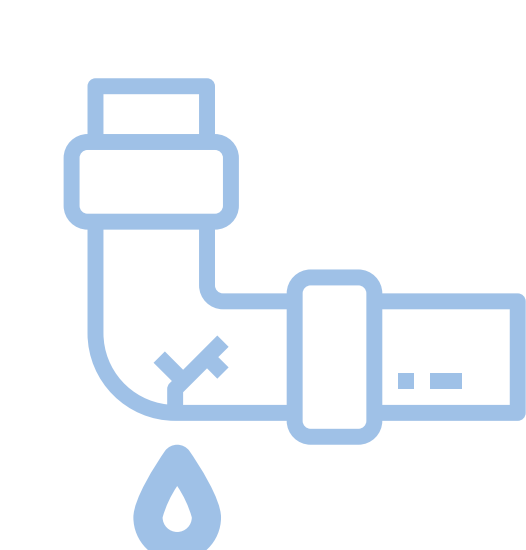
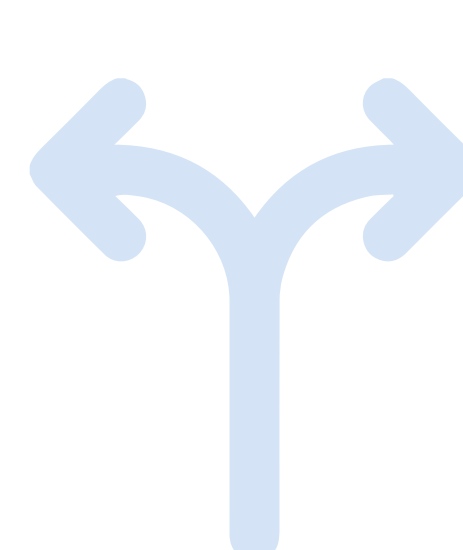




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Advancing Sustainability of Process Industries through Digital and Circular Water Use Innovations

Objectives

-  Reduce water demand
-  Treat and recycle water
-  Reduce or recover water losses
-  Exploit alternative water sources

General info

- Duration**
01/12/2020 - 30/11/2024
(4 years)
- Total amount**
€11,055,248
- Funding Programme**
Horizon 2020






- Consortium**
29 partner, 12 countries

- Coordinator**
RTWH Aachen Univ. (DE)

Impact and results

Significant reduction of the current use of freshwater resources	Significant steps towards near-zero discharge using closed-loop systems in industrial processes	Significant increase of the recovery of water, energy and/or substances and materials
Increase of resource and water efficiency by 30% compared to the state-of-the-art	Effective dissemination of major innovation outcomes to the current and next generation of employees	Replication potential of the AquaSPICE solutions

5 Case Studies

<p>Technology focus for fresh-water intake reduction at DOW</p>	 <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Boehlen (DE) <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Terneuzen (NL) 	<p>Sustainable water use in meat production in the circular economy at AGRICOLA</p>	 <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Bacau (RO)
<p>Water treatment and re-use within peroxide production units at SOLVAY</p>	 <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Rosignano (IT) 	<p>Water treatment and re-use within refinery at TUPRAS</p>	 <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Izmit (TU)
<p>Sustainable and robust water system for the industrial zone of Antwerp at BASF</p>	 <ul style="list-style-type: none"> <li style="background-color: #0056b3; color: white; padding: 2px 10px; display: inline-block;">Antwerp (BE) 		

Partners



The AquaSPICE project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No. 958396.