

AquaSPICE Summer School



Achieving Water-Smart Management in the Process Industry – An Educational Perspective

AquaSPICE INFO-DAY EVENT

Materializing circular water use, fostering awareness in resource efficiency, and delivering innovative solutions for a Water-Smart Society

Chania, Crete, Greece

Assoc. Prof. George ARAMPATZIS, Assist. Prof Lefteris DOITSIDIS

Technical University of Crete (TUC)

Welcome to Chania

AquaSPICE At a Glance

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

https://aquaspice.eu/

Funded under INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Advanced manufacturing and processing

Topic CE-SPIRE-07-2020 - Preserving fresh water: recycling industrial waters industry

Coordinator: Rheinisch-Westfaelische Techniche Hochschule Aachen, Prof. Thomas Wintgens

Technical Coordinator: Technical University of Crete, Assoc. Prof. George Arampatzis

AquaSPICE promotes the circular use of water in Process Industry and fosters awareness in resource-efficiency. It provides compact solutions such as water treatment and reuse technologies and recycling practices, while developing an innovative cyber-physical system to monitor, evaluate and optimize water use in real time.



27 Partners



5 Case Studies





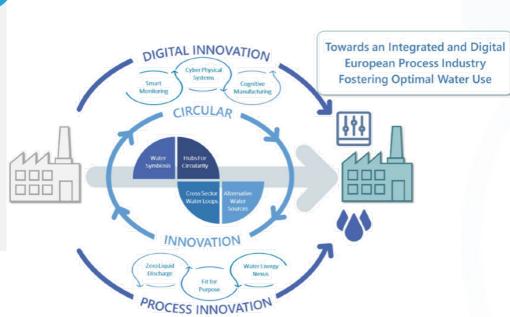


51 months

AquaSPICE Innovation Pillars

Circular Innovation Pillar

- Water re-use at different levels
- Design, Monitoring and Evaluation of demonstration schemes using systemic methodologies & tools, based on holistic modelling concepts



Process Innovation Pill

- Installation
- Operation
- Assessment of advanced water treatment technologies & practices with energy and substances recovery

Digital Innovation Pillar

- Real-time monitoring and distributed data management system connects the physical and digital worlds
 through smart sensor networks, IIoT and cloud/edge technologies
- Water-specific Cyber-Physical-System (WaterCPS) synthesises digital twins of industrial & value chain entities to provide advanced water-saving awareness & optimised water efficiency at different levels

AquaSPICE Events on 2-5 July 2024

- AquaSPICE Summer School
 Achieving Water-Smart
 Management in the Process Industry
 – An Educational Perspective
- Lectures will be given by experts from top institutions including the
 - Technical University of Crete
 - RWTH Aachen University
 - Università Politecnica delle Marche
 - University of Huddersfield
 - Athens University of Economics and Business
 - Audencia Business School
 - KWR Water Research Institute
 - Water Europe

- AquaSPICE INFO-DAY
 Materializing circular water use,
 fostering awareness in resource
 efficiency, and delivering innovative
 solutions for a Water-Smart Society
- Discussions on sustainable water management
- Cluster event bringing together a diverse group EU funded projects represented by researchers, industry experts, policymakers, and innovators





Thank you for your attention



www.aquaspice.eu



In aquaspice