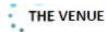


Innovation **DEMO**nstration for a Competitive and Innovative European **WA**ter **RE**use Sector

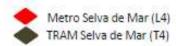
Miquel Rovira (CTM EURECAT)





Hotel Vincci Marítimo 4* C/ Llull, 340 | 08019 Barcelona. Tel.: +34 933 56 26 00







To register fill the form in: http://amphos21.com/vistas/demoware_ registration.php

Accommodation special rates are available for attendants. Contact: reservas.maritimo@vinccihoteles.com

If you want to present your product or your technology in the Water Reuse Showcase, please indicate it in the registration form.

Deadline for registration is 8th June.







The European Union is acknowledged for co-funding DEMOWARE within the 7th Framework Programme under grant agreement n° 619040







WATER REUSE CONFERENCE Innovation for a competitive water reuse sector

13-14 June 2016 Barcelona



THE CONFERENCE

Water reuse offers significant benefits to integrated management of stressed water countries and regions as a dependable alternative water source. There is a substantial range of water reuse practices already applied worldwide, many of these in Europe.

DEMOWARE project has worked to demonstrate the technical feasibility of innovative technologies for wastewater reclamation and reuse together with advanced monitoring options. Furthermore the project is promoting the marketability of water reuse schemes.

Water-reuse conference intends to offer a place where to interchange experiences in water reuse projects from governance aspects to legal constraints and including all technical related aspects.

This conference will put together researcher, water utilities and companies in order to increase business opportunities. All attendants will have the occasion to explain their projects to the conference audience in the Showcase of water reuse technologies.

Barcelona is placed in one of the most stressed areas of Mediterranean where water reuse is bringing a new alternative to water uses.



Water Reuse Conference, Barcelona

PRELIMINARY PROGRAM

Day 1: 13th June

Technical approach and its implementation

09:30 Registration

10:00 Welcome

10:15 Project Overview

10:45 Water reuse in Europe

11:30 Coffee break

12:00 Demoware project results:

- Reduction of clogging in agricultural irrigation networks (IRTA)
- Wastewater reuse by synergies offered by Ultrafiltration and Reverse Osmosis technologies (DOW)
- Water reuse in Sabadell (CTM)
- Water reuse in farming (CTM)

13:30 Lunch break

15:00 Demoware project results: Water reuse by Soil aquifer treatment in Port de la Selva (A21 and Veolia)

15.30 Water reuse association

15:50 DEMEAU Promising technologies to address emerging pollutants in wastewater (Cetaqua)

16:10 Coffee break

16:45 DEMEAUMED Innovative technologies for a safe closed water cycle in tourist facilities (Leitat)

17:05 DESSIN Demonstrate Ecosystem Services Enabling Innovation in the Water Sector

17:25 MARSOL Managed Aquifer Recharge as a Solution to Water Scarcity and Drought

17:45 R3Water Reuse, Recovery and Resource efficiency (ICRA)

Day 2: 14th June

Policy constrains, advances and business opportunities

9:00 Water reuse initiatives at EU level (DG ENV and JRC)

9:45 Water reuse experiences in Catalonia (Catalan Water Agency)

10:20 Coffee break

11:00 Potential impacts of water reuse in groundwater (Amphos 21)

11:20 The future of water reuse (Dr. R. Mujeriego)

11:40 Sanitary requirements for water reuse (Catalan Health Authority)

12:00 Water reuse: Hazards and Risks (Dr. M. Salgot)

12:30 Risk analysis in water (KWB)

13:00 Water reuse governance

13:30 Lunch break

15:00 Business models (CAD and We&B))

15:30 Showcase of water reuse technologies

The floor will be opened to those participants interested in showing their water reuse technologies or products to attendants. The speaker will have a maximum of 5 minutes to explain the best of his technology.





DEMOWARE

FP7-ENV-2013-WATER-INNO-DEMO

January 2014 - Desember 2016

http://demoware.eu



@DemowareFP7



INTRODUCTION

DEMOWARE Central Objective

To mitigate the main barriers to water reuse implementation by stimulating innovation and improving cohesion within the evolving European water reuse sector.



INTRODUCTION



Why DEMOWARE?

- Circular Economy
- Environmental issues
- Competitiveness







LINEAR ECONOMY

RESOURCE EXTRACTION

PRODUCTION

DISTRIBUTION

CONSUMPTION

WASTE

CIRCULAR ECONOMY

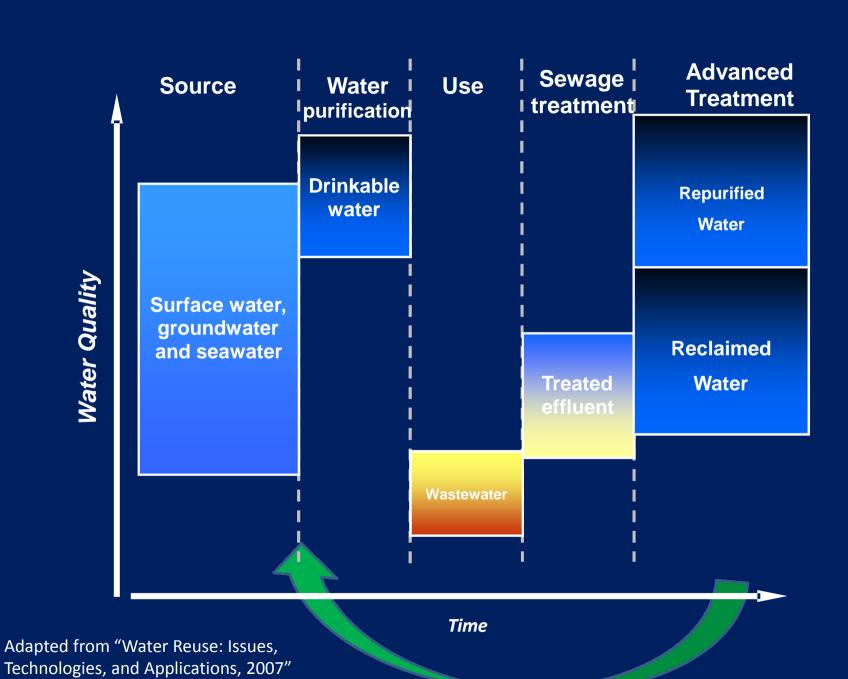




Brussels, 2.12.2015 COM(2015) 614 final

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

Closing the loop - An EU action plan for the Circular Economy

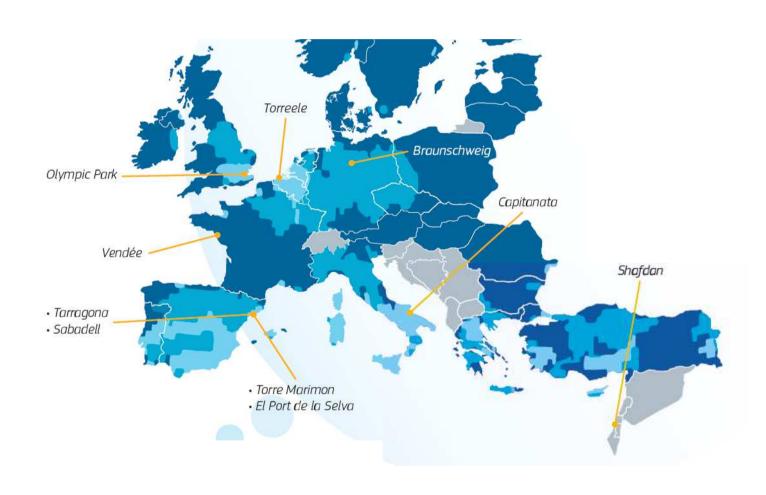




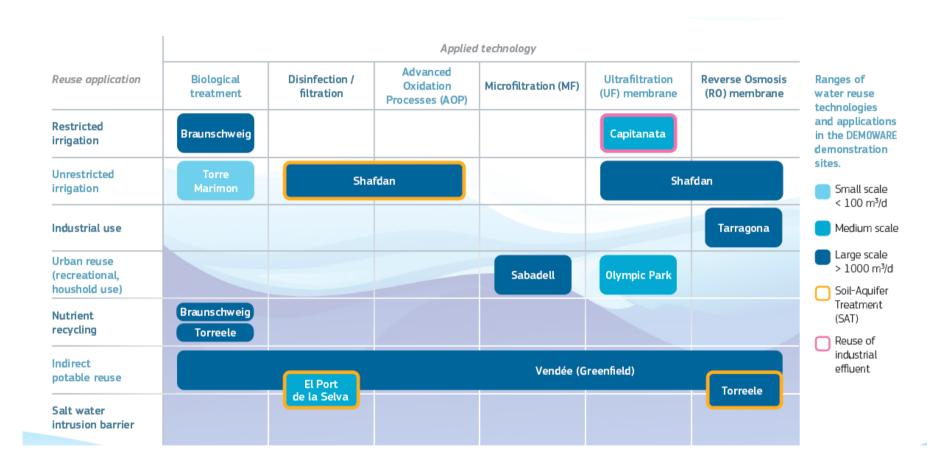
"Water is too valuable to be used only once"



10 demo-sites = 10 evidences of circular economy !!!







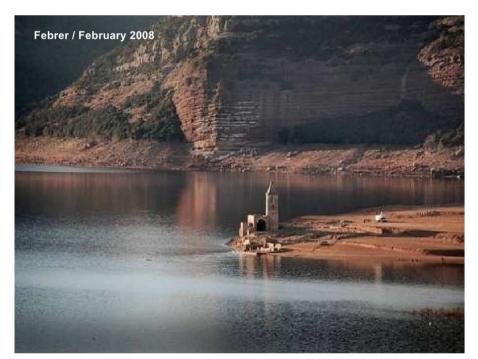


INTRODUCTION: Water Reuse & Environmental issues

Water stress all year in 1/3 of the EU territory

More pronounced in South but increasing in Northern & Eastern MS Growing competition between uses Increasing environmental and economic damages over 30 years Exacerbated by climate change

In 2030: water scarcity in half of EU river basins





An accepted but limited practice !!!

At present, about 1 billion m3 of treated urban wastewater is reused annually, which accounts for approximately 2.4% of the treated urban wastewater effluents and less than 0.5% of annual EU freshwater withdrawals. But the EU potential is much higher, estimated in the order of 6 billion m3 – six times the current volume, still far below the levels encountered in countries such as Australia or Singapore.

Reussed Wastewater [Mm³/a]

Religion Poland Orecce Airman Metherlands

Remain

Respublic

Respublic

Remain

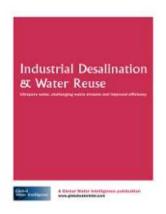
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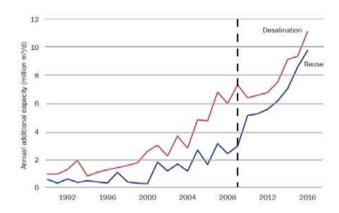
Figure 4: Model output for wastewater reuse potential of European countries on a projection horizon of 2025 (Scenario II), from the AQUAREC project



INTRODUCTION: Water Reuse & Competitiveness

Industrial Desalination & Water Reuse Technologies market to approach \$12bn by 2025





The latest report from Global Water Intelligence (GWI) is a timely study of the vital relationship between the water sector and global economic growth. It confirms that industry is now taking significant steps to address the issues of scarcity and sustainability and that it is also recognising that embracing new technologies can be good news for the bottom line. It predicts that salt removal and wastewater recycling technologies are expected to become an essential ingredient in operational strategy, growing by 11.4% over the next five years to reach a total market value of \$11,963bn by 2025.





INTRODUCTION























Thanks for your attention and enjoy de conference!

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