

Project partners

The DEMOWARE consortium comprises **27 institutions** from **ten different countries**.

ACTEON SARL

AGENZIA REGIONALE PER LA TECNOLOGIA
E L'INNOVAZIONE DELLA REGIONE PUGLIA

AMPHOS 21 CONSULTING SL

ASIO spol.s r.o.

BIOMONITECH LTD

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COMPANYIA D'AIGUES DE SABADELL SA

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DOW CHEMICAL IBERICA SL

FACHHOCHSCHULE NORDWESTSCHWEIZ

FIORDELISI SRL

FUNDACIO CTM CENTRE TECNOLÒGIC

HIDROQUIMIA TRACTAMENTS I QUIMICA INDUSTRIAL SLU

INSTITUT DE RECERCA I TECNOLOGIA AGROALIMENTARIES

INTERCOMMUNALE WATERLEIDINGSMAATSCHAPPIJ VAN
VEURNE-AMBACHT OPDRACHTHOUDENDE VERENIGING

JRC - JOINT RESEARCH CENTRE- EUROPEAN COMMISSION

KWB KOMPETENZZENTRUM WASSER BERLIN gGmbH

KWR WATERCYCLE RESEARCH INSTITUTE

MEKOROT WATER COMPANY ISRAEL

PARTICLE MONITORING TECHNOLOGIES LTD

ROTEC - REVERSE OSMOSIS TECHNOLOGIES LTD

THAMES WATER UTILITIES LIMITED

VENDEE EAU

VEOLIA ENVIRONNEMENT RECHERCHE ET INNOVATION SNC

VEOLIA WATER SYSTEMS IBERICA SL



AMPHOS 21

KWR Watercycle
Research
Institute



Blue Biolabs

Ario
Wastewater and water treatment



IWVA Kring-Lopend Water
is ons Ambacht



HidroQuimia

n|w University of Applied Sciences and Arts
Northwestern Switzerland

Cranfield
UNIVERSITY

KOMPETENZZENTRUM
WasserBerlin

IRSA Istituto di Ricerca Sulle Acque
Consiglio Nazionale delle Ricerche

IRTA RESEARCH & TECHNOLOGY
FOOD & AGRICULTURE



biomonitech

ACTEON
environment
research & consultancy



ROTEC

vendée
eau Le service public
de l'eau vendée

DOW

AIGÜES
Sabadell

VEOLIA

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**Innovation demonstration
for a competitive and innovative
water reuse sector**

FP7 ENV.2013.WATER INNO&DEMO-1

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The challenge

Europe's **water resources** are increasingly under stress, and this situation has encouraged more active consideration of alternative water sources as a strategic option to supplement water supplies and protect natural resources. However, the ability of Europe's communities of taking advantage of **water reuse opportunities** is restricted by low public confidence, inconsistent approaches to evaluating costs and benefits of reuse schemes, and poor coordination of the professionals who design, implement and manage them.

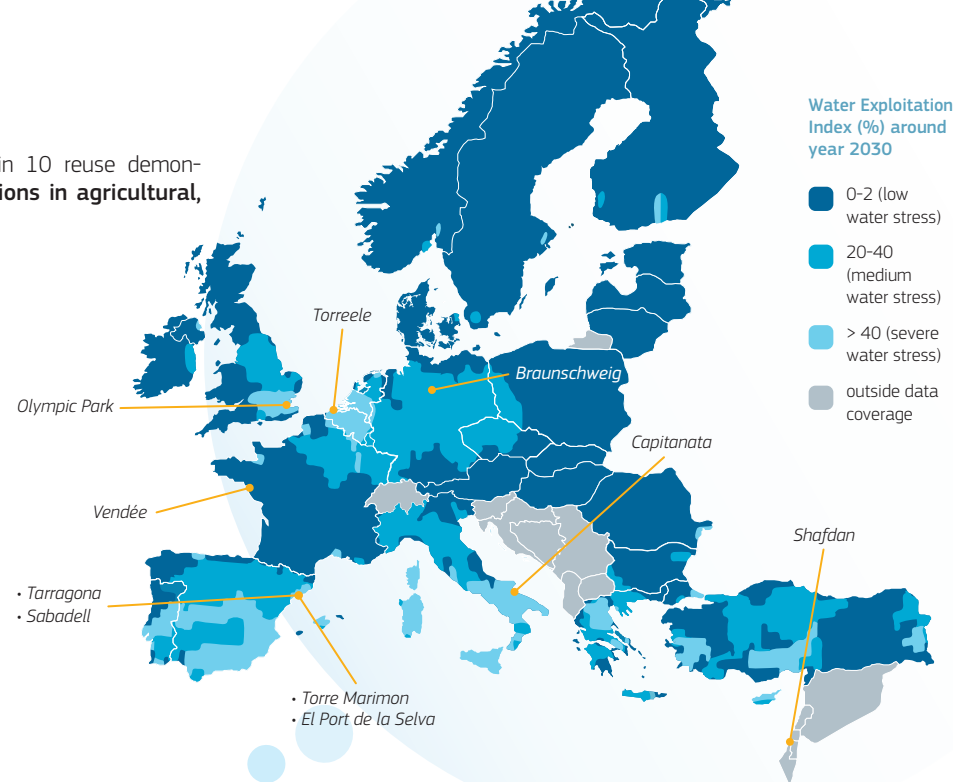
Objectives of DEMOWARE

The DEMOWARE project brings together public authorities, regulators, water utilities and companies, the research community and the public to generate and share knowledge on **innovative water reuse schemes**, with the following specific objectives:

- Demonstrate the **technical feasibility** of innovative technologies for water reclamation and reuse.
- Demonstrate advanced **monitoring** and control options for the fate of water constituents in water recycling schemes.
- Demonstrate, using life-cycle and **risk assessment** methodologies, that the benefits associated to water reuse largely compensate the risks associated.
- Increase and promote the **marketability** of water reuse schemes.
- Improve the ability of **reuse scheme operators** to deliver socially acceptable projects.
- Promote **awareness** of water reuse practices among public administrations and end-users.
- Establish a **European water reuse association** to shape market opportunities for European solution providers.

Project demonstration sites

DEMOWARE will pursue these objectives in 10 reuse demonstration sites that exploit **water reuse options in agricultural, industrial and urban applications**.



	Applied technology					
Reuse application	Biological treatment	Disinfection / filtration	Advanced Oxidation Processes (AOP)	Microfiltration (MF)	Ultrafiltration (UF) membrane	Reverse Osmosis (RO) membrane
Restricted irrigation	Braunschweig				Capitanata	
Unrestricted irrigation	Torre Marimon	Shafdan			Shafdan	
Industrial use						Tarragona
Urban reuse (recreational, houshold use)				Sabadell	Olympic Park	
Nutrient recycling	Braunschweig Torreele					
Indirect potable reuse	Vendée (Greenfield)					
Salt water intrusion barrier		El Port de la Selva				Torreele

Ranges of water reuse technologies and applications in the DEMOWARE demonstration sites.

- Small scale < 100 m³/d
- Medium scale
- Large scale > 1000 m³/d
- Soil-Aquifer Treatment (SAT)
- Reuse of industrial effluent

