



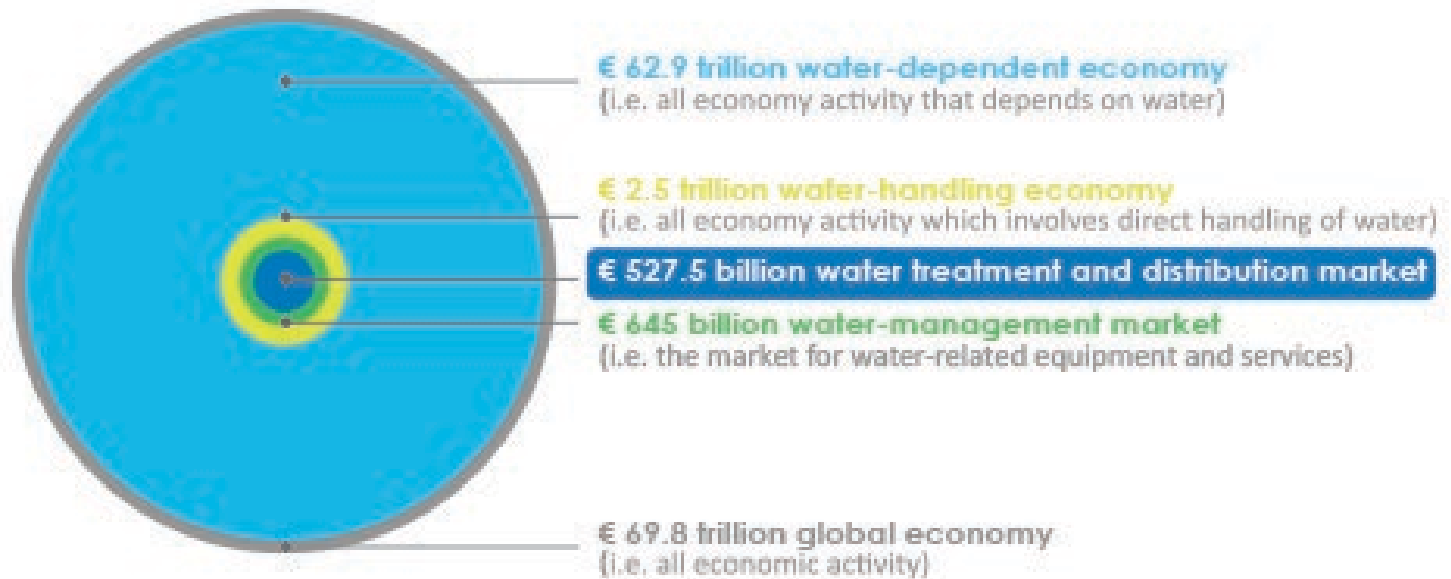
# WssTP

## The European Water Platform

Durk Krol  
Executive Director

# The water market

## Global Water Related Economy



Adapted from GWI

**90% of the global economy depends on sustainable water management !**

- WssTP is the **recognized voice and promotor of water-related RTD and innovation in Europe.**
- Recognized by the EC **European Technology Platform for Water**

- **Mission:**

- ✓ Improve **coordination and collaboration** in the water sector and water using sectors;
- ✓ Enhance **performance** of the European water sector and water using sectors;
- ✓ Contribute to solving **societal challenges** through RTD&I.

- **WssTP Strategy:**

- ✓ WssTP Water Vision: The Value of Water
- ✓ Services to members

- **Key characteristics**

- ✓ Multistakeholder platform that covers the full value chain of the water sector
- ✓ Central position in the EU stakeholder field

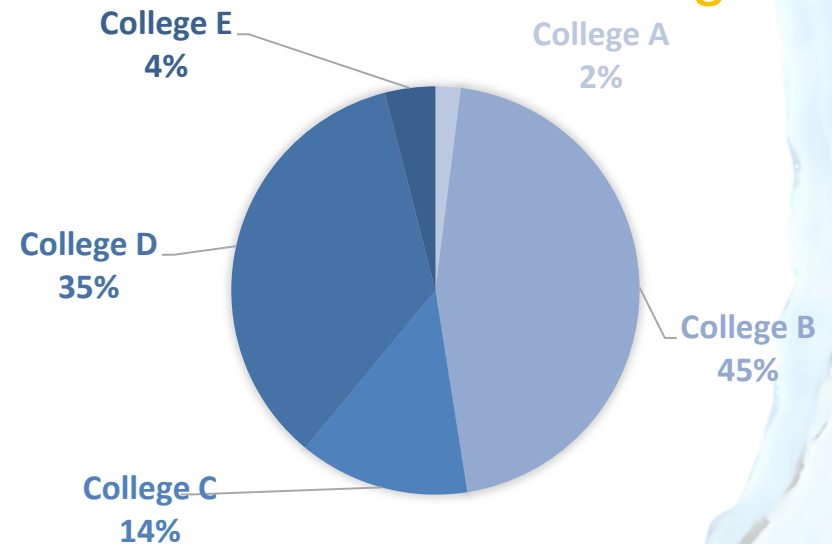


## WssTP Colleges

College A: Multinational corporations  
College B: Research & Technology developers  
College C: Utilities  
College D: Suppliers & SMEs  
College E: Large water users

College F: Public Authorities  
College G: Civil Society Organisations

## Members Per College



201 members



26 countries

# WssTP Programmes



## COLLABORATION PROGRAMME

The WssTP Collaboration programme allows our members to network and collaborate along the water value chain to address the water challenges and shape successful project consortia.

### Water Knowledge Europe



## ADVOCACY PROGRAMME

The WssTP Advocacy Programme is all about making sure that the value of water for our society is reflected in European policies and funding programmes.

### Water Innovation Europe



## MARKET PROGRAMME

The WssTP Innovation Programme enables our members to bring their research results and innovative solutions to the market in Europe and beyond.

### Water Market Europe





Recycled Grey Recycled Black Brackish Saline Brines Rainwater Surface water Ground water Multiple Waters

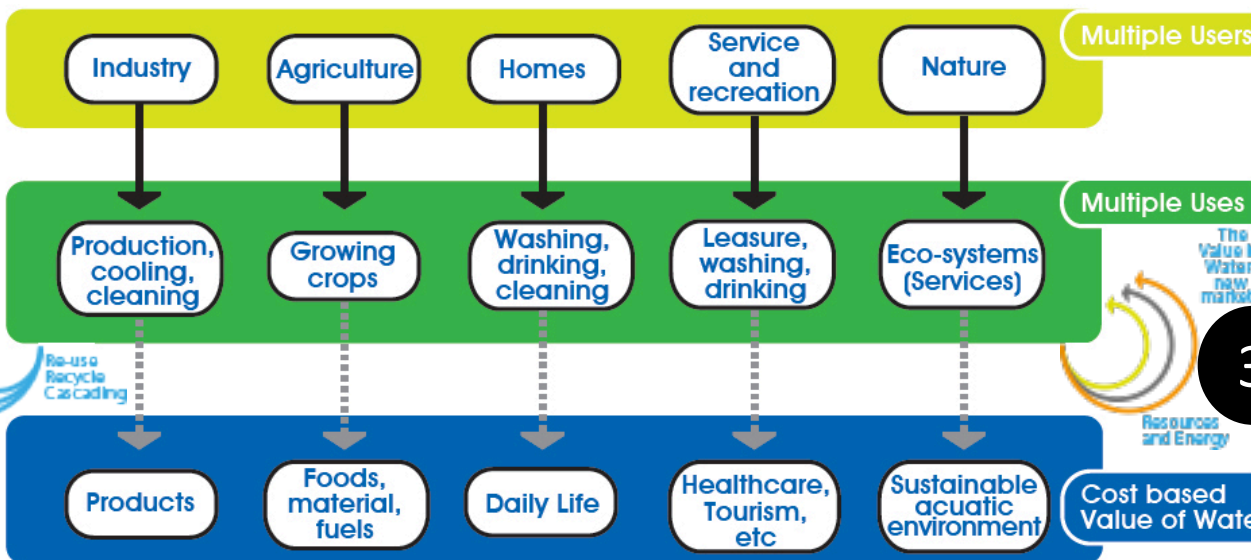
Sensor networks

Smart governance



4

Re-use  
Recycle  
Cascading



3

Un-exploited resources (B€)

Big Data

2

Digital Water

Modelling & analyse

1000  
Petabytes/yr globally

## THE VALUE OF WATER

Crucial for our economy, industry, society, nature and citizens

# WssTP Vision Clusters Matrix

## INNOVATIONS TASKFORCE

### RESEARCH & DEVELOPMENT & LIVINGLABS

**CLUSTER 7. Water-Smart INDUSTRY**  
Integrate solutions for industrial end-user needs

**CLUSTER 8. Water-Smart CITY**  
Integrate solutions for City end-user needs

**CLUSTER 9. Water-Smart RURAL**  
Integrate solutions for Rural end-user needs

#### CLUSTER 1: the Value of Water

Socio- economic and governance models for water smart society

#### CLUSTER 2: Smart Water treatment

technologies to enable multiple waters and recycling of water

#### CLUSTER 3: Digital Water

smart ICT & Decision Support systems for water

#### CLUSTER 4: the Value in Water

solutions to capture and valorize energy & materials in water

#### CLUSTER 5: Hybrid Grey and Green infra

solutions for integrated human built and nature based water infrastructure

#### CLUSTER 6: Water Innovation System

water stewardship, standardization, knowledge Sharing and advocacy

Vertical Clusters:  
Market & Livinglabs driven

Horizontal Clusters:  
Research and Knowledge driven

## 3 overall functions (fine-tuned per cluster):

### 1. COLLABORATE (SIRA)

- S.o.a./ requirements reports
- Tech workshops
- Incubate R&D projects
- H2020 & FP9 topics
- Update SIRA

### 2. ADVOCATE

- Communication plan
- Advocacy Workshops

### 3. INNOVATE

- Incubate technology transfer projects
- Set-up VC events
- Initiate large investment plans (e.g. LLL, infra) with financiers (EIB etc.)

Working Group	Lead Member	Lead Person
Bathing Water	KWB	Pascale Rouault
Ecosystem Services	Luleå University	Lena Goldkuhl
Emerging Compounds	Deltares	Leonard Osté
Green Infrastructure	SINTEF	Mehdi Ahmadi
Climate Action	CEH	Alan Jenkins
Oil gas and mining	aquateam	Eilen Arctander Vik
Renewable Energy and Desalination	PSA-CIENAT	Guillermo Zaragoza
Resource recovery	Wetsus	Martijn Bijman
Urban Water Pollution	University of Bath	Jan Hofman
Water & Energy	DVGW	Tobias Martin
MENABIO (membrane, Biotech. and Nano.) - <i>NEW</i>	IRSA	Gilbert Rios
Water & ICT	CETaqua	Rafael Giménez
Water & Industry	Wetsus	Albert Jansen
Water and Agrifood	Bioazul	Antonia Lorenzo
Water and infrastructure - <i>NEW</i>	UPONOR	Ilari Aho
Water Beyond Europe	UNESCO-IHE	Gaetano Casale
Water-Energy Food Biodiversity Nexus	WUR	Floor Brouwer
Water Security - <i>NEW</i>	TBC	TBC
Water Reuse - <i>NEW</i>	TBC	TBC



(Innovation)

research

technology

upscaling

venturing

WssTP ✓

WssTP ► Living Labs

UNIVERSITIES

CONSORTIA

RTOs

RTD funding

INDUSTRY

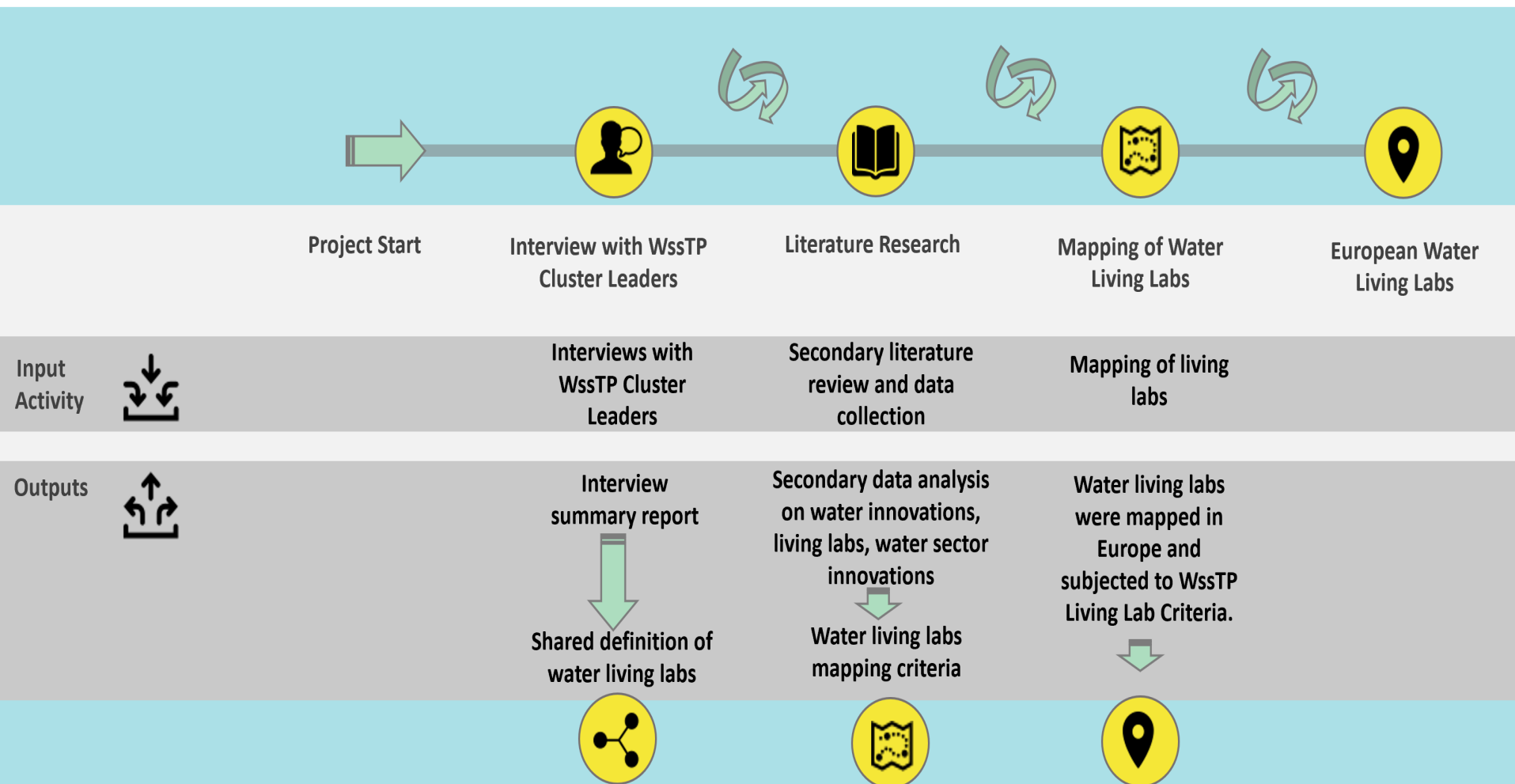
PUBLIC ADMINISTRATION

LENDING

INVESTORS

CUSTOMER -  
Enduser

# WssTP Living Labs: mapping approach



**1** Spatially embedded field-labs, with context specific needs and enabling conditions

- Locally identified value of 'water'
- Context-specific needs at watershed level
- City infrastructures, plant facilities and treatment plants as enablers

**2** Mission-oriented interventions in real-world and/or realistic environments

- Context-unique knowledge co-creation over projects and innovation cases
- Testing and evaluation activities in real-world and realistic environment for radical and/or incremental innovation

**3** Proactive learning and innovation ecosystem with R&D continuity and reproducibility

- In-vivo monitoring of the experimentation setting
- Safe-to-fail environment
- Cross-fertilization of knowledge with involvement of competent partners and domain experts

**4** Open and local multi-stakeholder governance structure with democratic control systems

- Open and local multi-stakeholder governance culture and mechanisms
- Inclusive and long-term community partnership approach
- Joint development and management of innovation processes



People

# WssTP Board Members



**Tomas Michel**  
*Chair*  
Suez



**Wim van Vierssen**  
*Vice Chair*  
KWR



**David Martin**  
*Board Member*  
Nalco Water Europe



**Marie-Renée de Roubin**  
*Treasurer*  
Veolia



**Jorge Juan Malfeito**  
*Board Member*  
Acciona Agua



**Jens Prismo**  
*Board Member*  
EUREAU



**Ask Møller-Nielsen**  
*Board Member*  
Grundfos



**Dirk Van der Stede**  
*Board Member*  
VLAKWA



**Pascal Dauthuille**  
*Board Member*  
Suez



**Richard Elelman**  
*Board Member*  
CTM

**Fabrice Plasson**  
*Board Member*  
Amoeba



**Hans Goossens**  
*Board Member*  
De Watergroep



# Cluster Leaders



**Gonzalo Delacámara**  
CL1: Value of Water  
IMDEA



**Christian Kazner**  
CL2: Smart Water Treatment  
FHNW



**Guillaume Binet**  
CL3: Digital Water  
Suez



**Joseph Klinger**  
CL4: Value in Water  
DVGW



**Victor Breumer**  
CL5: Hybrid Grey-Green  
Infrastructure  
Deltares



**Tom Verijken**  
CL6: Innovation System  
EWS



**Geoff Townsend**  
CL7: Water-Smart Industry  
NALCO



**Jens Prisum**  
CL8: Water-Smart Cities  
CALL Copenhagen



**Jochen Froebrich**  
CL9: Water-Smart Rural Areas  
WUR

# Cluster Co-Leaders



**Asya Marhubi**  
CCL1: Value of Water  
IMDEA



**Pieter De Jong**  
CCL4: Value in Water  
WETSUS



**Maria Cristina Pasi**  
CCL 6 : Water Innovation System  
IZAR



**Miquel Rovira**  
CCL7 : Water-Smart industry  
CTM



**Chrisi Laspidou**  
CCL8: Water-Smart cities  
UTH

# WssTP Working Groups Leaders



**Pascale Rouault**

WGL: Bathing Water  
KWB



**Lena Goldkuhl**

WGL: Ecosystem Services  
Luleå University



**Leonard Osté**

WGL: Emerging Compounds  
Deltares



**Medhi Ahmadi**

WGL: Green Infrastructure  
SINTEF



**Alan Jenkins**

Managing Hydroclimatic  
Extremes Events  
CEH



**Gilbert Rios**

Membrane Innovation and  
Education for Water  
EMH



**Guillermo Zaragoza**

Renewable Energy and Desalination  
PSA-CIENAT



**Martijn Bijmans**

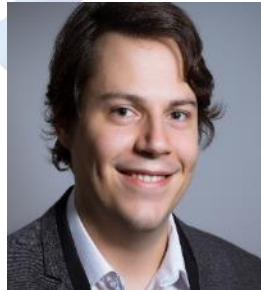
Resource recovery  
Wetsus



# WssTP Working Groups Leaders



**Jan Hofman**  
Urban Water Pollution  
University of Bath



**Tobias Martin**  
Water & Energy  
DVGW



**Rafael Gimenez**  
Water & ICT  
CETaqua



**Albert Jansen**  
Water & Industry  
Wetsus



**Inge Genne**  
Nano technologies for Water  
VITO



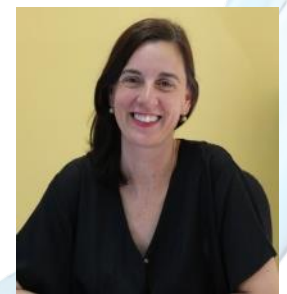
**Gaetano Casale**  
Water Beyond Europe  
UNESCO-IHE



**Floor Brouwer**  
Water-Energy Food  
Biodiversity Nexus  
WUR



**Eilen Arctander Vik**  
Oil gas and Mining  
COWI - Aquateam

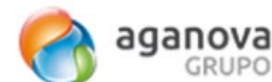


**Antonia Lorenzo**  
Water & Agrifood  
BIOAZUL

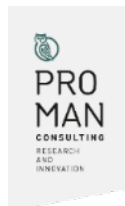
# WssTP members overview



# WssTP Members Industry and SME's



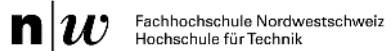
# WssTP Members Industry and SME's



# WssTP Members *Industry and SME's*

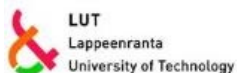


# WssTP Members Academics & Research I





# WssTP Members Academics & Research II





# WssTP Members

## Academics & Research III



UNIVERSITÀ  
di **VERONA**



Univerza v Ljubljani



The  
University  
Of  
Sheffield.



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA  
BARCELONATECH



Turun yliopisto  
University of Turku





**BIOFOS**



# WssTP Members Industry and SME's

**ABENGOA WATER**



**AMPHOS** <sup>21</sup>



**Resolute Marine**  
Clean Water From Ocean Waves

**SWECO** 



**aquateam COWI**



**Pentair**

**grünbeck Strane**   
Innovation

**ATKINS**



**suez**



**WE & B**  
Water, Environment and  
Business for Development



**TECNICAS REUNIDAS**



**hansgrohe**

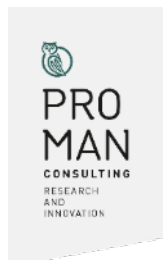


**VEOLIA**

**ARKEMA**  
INNOVATIVE CHEMISTRY

**42TEK**  
GREEN MATERIALS

# WssTP Members Industry and SME's





# WssTP Members Industry and SME's







The European Water Platform

# WssTP Members Academics & Research I

Water Innovation  
& Research  
Centre



Geoscience for a sustainable Earth  
**brgm**

**Brunel**  
UNIVERSITY  
L O N D O N

*Cranfield*  
UNIVERSITY



LUXEMBOURG  
INSTITUTE  
OF SCIENCE  
AND TECHNOLOGY



Centre for  
Ecology & Hydrology  
NATURAL ENVIRONMENT RESEARCH COUNCIL

**ceit**



CETAQUA  
CENTRO TECNOLÓGICO  
DEL AGUA

sweden water research



**Deltares**  
Enabling Delta Life

**KRINNOVA**  
INCUBATOR & SCIENCE PARK



**aimen**  
TECHNOLOGY CENTRE



online  
**DVGW**

**POLITECNICO**  
MILANO 1863



**GDANSK UNIVERSITY  
OF TECHNOLOGY**



**Fraunhofer**  
IGD



**UNIVERSITÀ  
di VERONA**



**n | w**

Fachhochschule  
Nordwestschweiz

**UAB**  
Universitat Autònoma de Barcelona



**Water**  
Systems & Services Innovation

# WssTP Members Academics & Research II



Univerza v Ljubljani



# WssTP Members Academics & Research III



University of  
Thessaly



UNIVERSITAT POLITÈCNICA  
DE CATALUNYA



INSTITUT NATIONAL  
DES SCIENCES  
APPLIQUÉES  
LYON



Turun yliopisto  
University of Turku



DEMOKRITOS  
NATIONAL CENTER FOR SCIENTIFIC RESEARCH



ENVIROMICS



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore



LUT  
Lappeenranta  
University of Technology



Kristianstad  
University  
Sweden



KAJAANIN  
AMMATTIKORKEAKOULU  
UNIVERSITY OF APPLIED SCIENCES

# WssTP Members Utilities





**Water becomes  
a new oil as the  
World runs dry**



Download the  
WssTP Water Vision