



**WssTP,
A Common Vision
for Water
Research and
Innovation**

Corporate Presentation

Water, a key sector

- **Huge market:** 400 to 500 Billion € turnover /year (drinking and waste water)*
- **Considerable assets:**
 - > 3.5 Million Km water distribution pipes
 - > 2.5 Million Km waste water sewers
- **Large social impact:** > 600,000 direct jobs in Europe
- **EU annual Investment:** €10,5 Bn for water and wastewater equipment for industrial markets
- €33 Bn invested in water infrastructures
- **SMEs:** 136.000 employees, 9.000 SMEs

Key facts on WssTP

- **European Technology (*and Innovation*) Platform**
- **Strives to:**
 - ✓ Improve **coordination and collaboration** in RTD & Innovation
 - ✓ Enhance **competitiveness** of the European Water Sector
 - ✓ Contribute to solving **societal challenges** through RTD & Innovation
- **Membership-funded ETP**
 - ✓ **Legal entity**
 - ✓ **Growing organization:** From 11 to 86 members from 2008 to 2012
 - ✓ **Openness and transparency:** 315 contributing organization, a network of more than 750 persons
- **Strategic recommendations and working groups: 3 key documents** (SRA, Vision document, Implementation document), **many scientific reports** sent to DG Research
- **Yearly stakeholders' event:** www.waterintheurbanenvironment.eu
- **Originated ACQUEAU, the EUREKA Cluster for water**

A changing environment



5 EU targets for 2020

- ✓ Employment
- ✓ R&D/innovation
- ✓ Climate change/energy
- ✓ Education
- ✓ Poverty/social exclusion

A changing environment



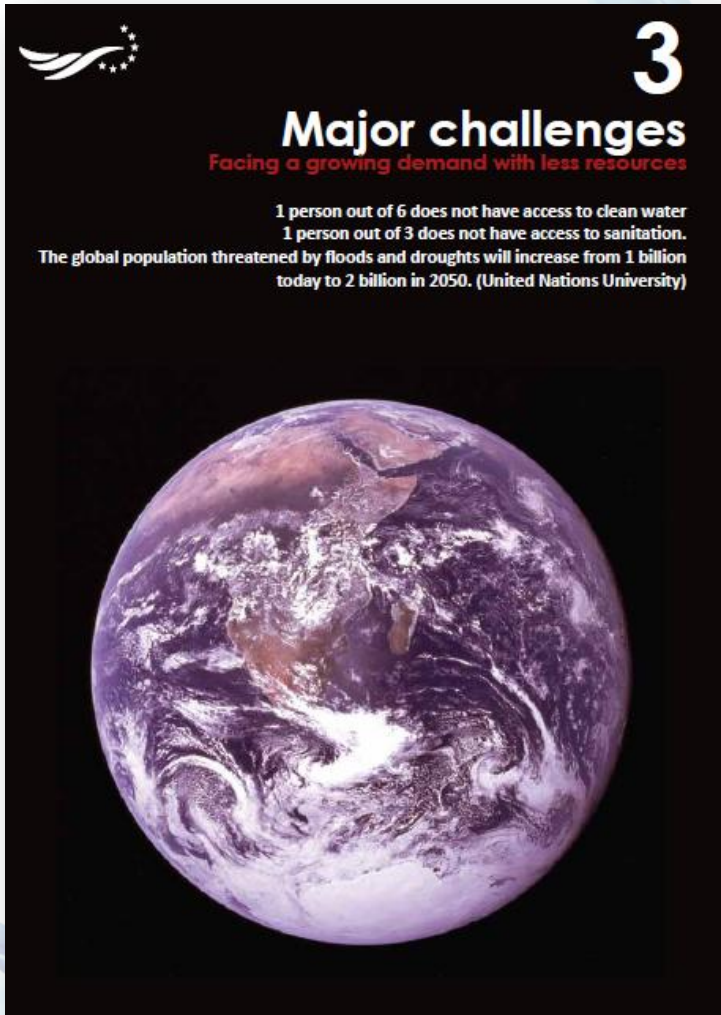
Global drivers in SRA 2010


- Water: a necessary but low cost good
- Demographic growth and urbanisation
- Increasing globalisation and wealth
- Spatial and temporal pressure (coastal urbanisation, tourism)
- Global warming



Major Challenges in SRA 2010


- Coping with increasing water stress (quantity & quality)
- Reducing impact of extreme events (droughts and floods)
- Managing aging or lacking infrastructure
- Facilitating technology transfer
- Establishing an “Enabling Framework”
- The MDGs for Sustainable Water Supply and Sanitation Services in Developing Countries



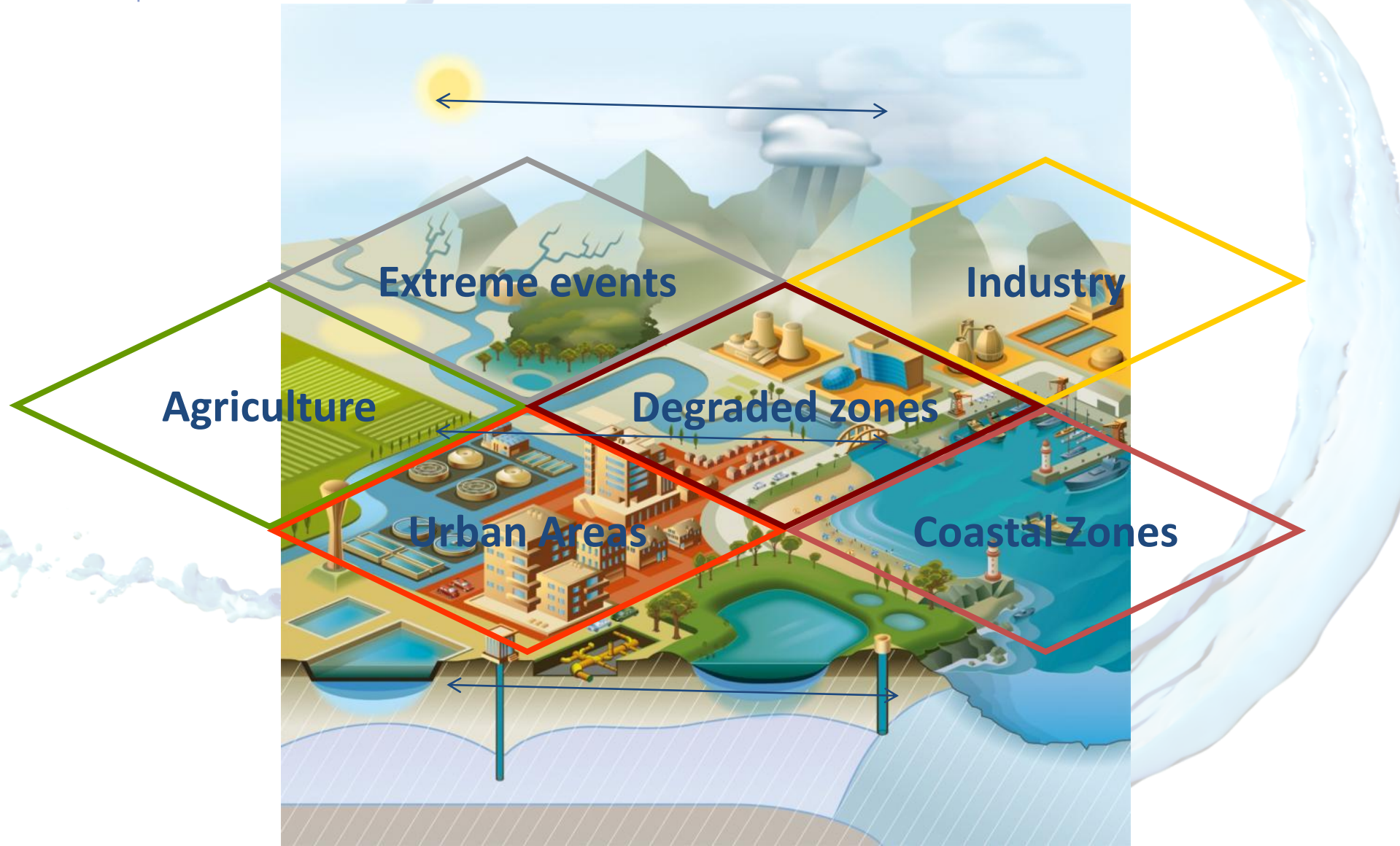
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Major challenges
Facing a growing demand with less resources

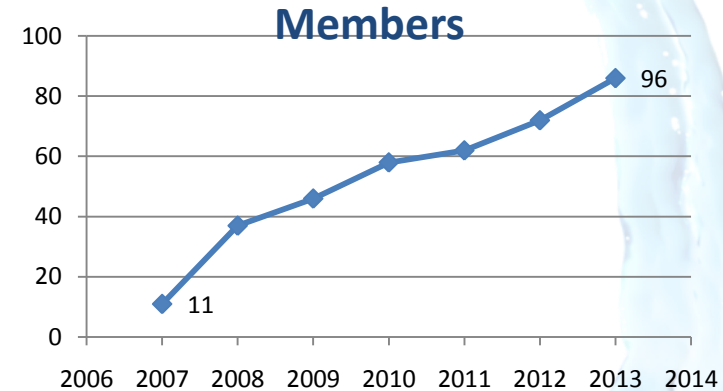
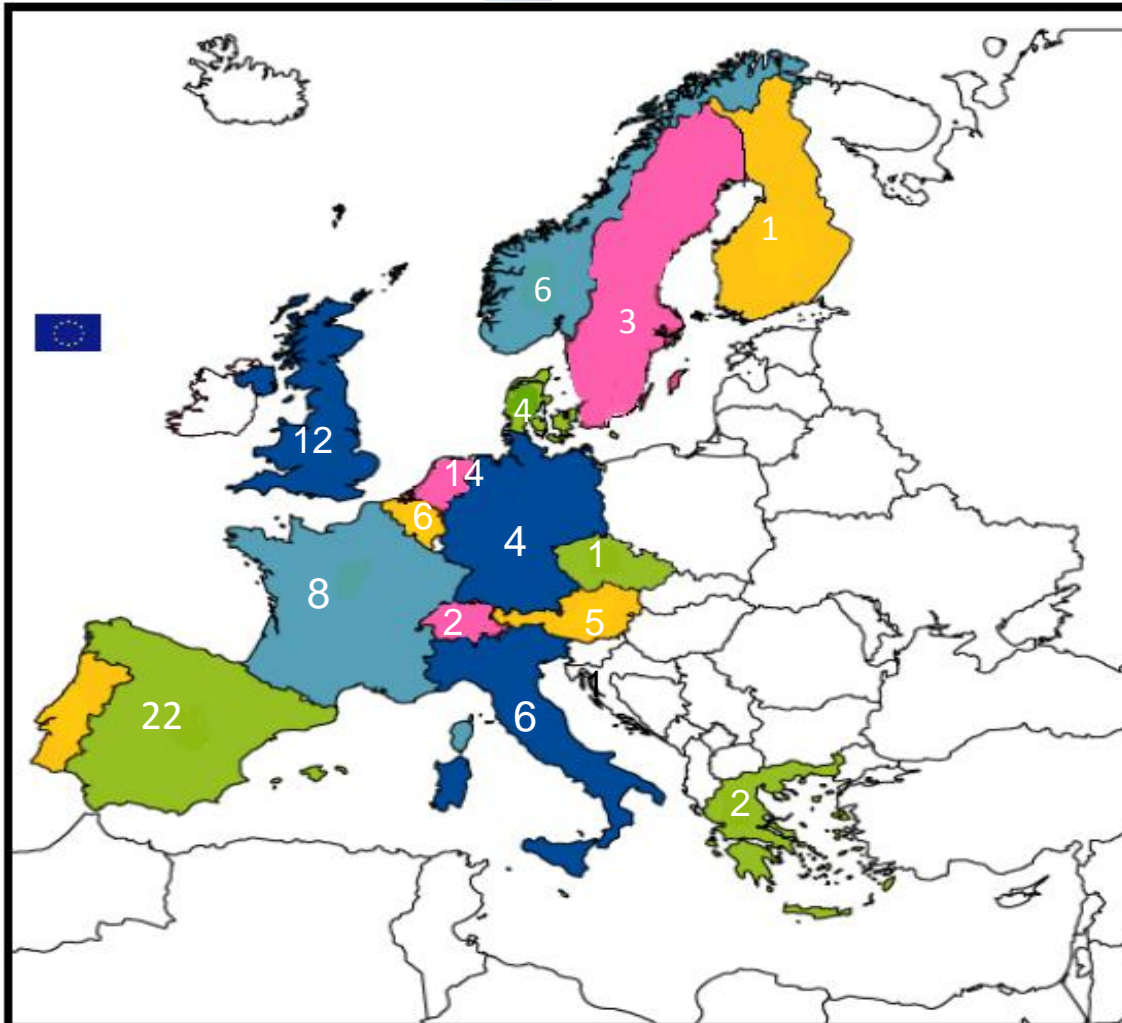
1 person out of 6 does not have access to clean water
1 person out of 3 does not have access to sanitation.
The global population threatened by floods and droughts will increase from 1 billion today to 2 billion in 2050. (United Nations University)



Address research and innovation based on the water cycle



WssTP, a growing organization!!



WssTP membership colleges:

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

WssTP Members *Industrie and SME's*

 ABENGOA WATER	 Suez environment	 VEOLIA ENVIRONNEMENT	 copa*cogeca european farmers european agri cooperatives	 Vlakwa
 ADASA	 AMPHOS²¹	 aquateam norwegian water technology centre	 Atos	 ARCADIS infrastructure, environment, buildings
 Grontmij	 Pentair	 tr TECNICAS REUNIDAS	 UIE Union Nationale des Industries et Entreprises de l'Eau et de l'Assainissement	 UKWIR UK WATER INDUSTRY RESEARCH LIMITED
 ANIMA	 ATKINS			



WssTP Members Academics & Research

The European Water Platform



WssTP Members Utilities

 <p>Aeas Asociación Española de Administraciones de Agua y Saneamiento</p>	 <p>Aquafin</p>	 <p>Canal de Isabel II gestión</p>	 <p>DANVA Dansk Vand- og Søledvandsforening</p>	 <p>De Watergroep WATER. VANDAAG EN MORGEN.</p>
 <p>EUREAU</p>	 <p>FederUtility</p>	 <p>Norsk Vann</p>	 <p>Office International de l'Eau</p>	 <p>OSLO</p>
 <p>Svenskt Vatten</p>	 <p>Unie van Waterschappen</p>	 <p>Vewin</p>	 <p>wateronnet</p>	

WssTP Board Members



Tomas Michel
Chair
Suez



Theo van den Hoven
Vice Chair
KWR



Marie-Renée de Roubin
Treasurer
Veolia



Philippe Bréant
Veolia



Alain Rousse
UIE



Boris Lesjean
KWB



Arturo Buenaventura
Abengoa Water



Theo Schmitz
Vewin



Carlos Campos
Suez



Dirk Van der Stede
VLAKWA



Jens Prismus
EUREAU



Mike Farrimond
Immediate Past
President

Services to members

- **Bringing actors together** from all aspects of the EU water sector through a variety of activities and our working group structure
- **Further elaboration of the RTD&I state of the art and needs** of specific topics resulting in specialist reports and presentations
- **Discussions with the EC to make sure that the RTD&I needs we identify are reflected in the call for proposals for EU funding**
- **Strategic policy work** to make sure that the European policy and funding framework is as beneficial as possible to the RTD&I and the competitiveness of the EU water sector
- **Water value chain cooperation**




Services to members II



- Organization of **brokerage events** for calls for proposals for EU funding
- **Support to project to project consortia** that are in line with WssTP Vision and SRA and involve members
- Participation to project consortia for **communication and dissemination of project activities and results.**
- Monthly internal and external **newsletter**
- **Tailored membership services**

WssTP Working Groups

Working Group	Lead Member	Lead Person
Financing for EU Competitiveness	Abengoa Water	Arturo BUENAVENTURA
Water & ICT	Suez	Pascal BLANC
Water-Energy-Food biodiversity nexus	Deltares	Jaap KWADIJK
International Relations	UNESCO-IHE	Gaetano Casale
Water in industry	 TNO	Albert Jansen
Nutrients Recovery	Wetsus	Pieter de Jong
Membrane Technologies	EMH	Gilbert Rios
Emerging Compounds	Deltares	Harm DUEL
Urban Water Pollution	KWR	Adriana HULSMANN
Bathing Water	KWB	Ulf MIEHE
Agriculture & Irrigation	IRSA	Antonio LOPORTO
Eco-systems Services	Poledream	Gaëtane SUZENET
Green Infrastructure	Deltares	Johan BOON
Managing HydroClimatic Extremes in a changing Environment	CEH	Alan JENKINS
Shale Gas	Veolia	Bruno TISSERAND
Techwatch	KWR	Theo VAN DEN HOVEN



Primer vector

- Investigadores
- Tecnologías
- Proyectos
- Contactos
- Ideas
- Lineas de investigación**
- Documento
- Evento

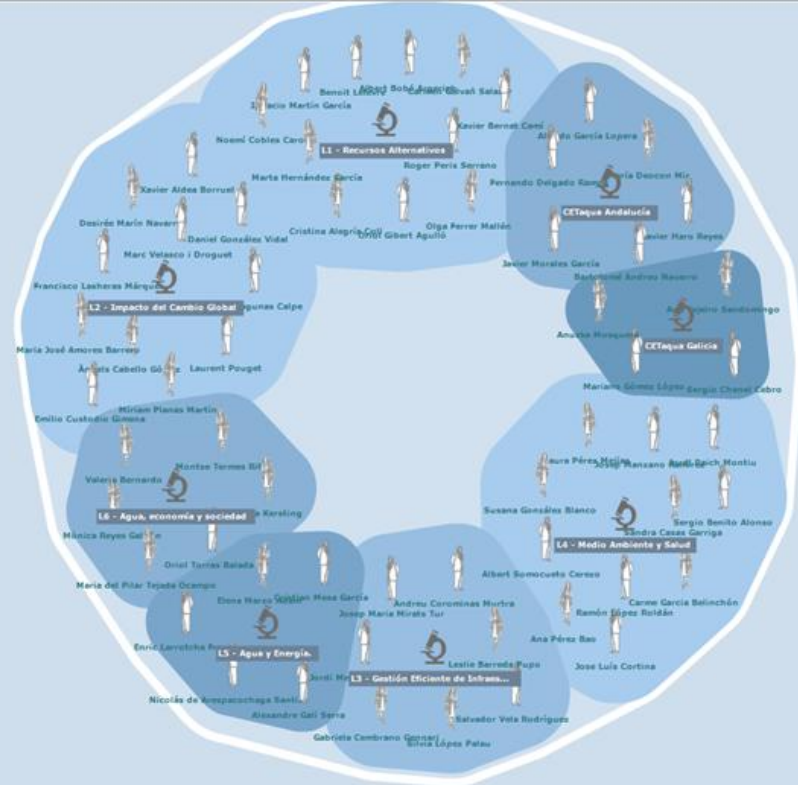
Segundo vector

- Investigadores
- Tecnologías
- Proyectos
- Contactos
- Ideas
- Lineas de investigación
- Documento
- Evento

Filtro

- Activos
- Inactivos

AMBITOS





Water and Steel

Research and Technology Development Needs for Water and Steel

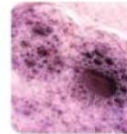


Publication
June 2013

www.wsstp.eu



The European Water Platform



Brines Management

Research and Technology Development Needs



The European Water Platform



Water Reuse

Research and Technology Development Needs for Water Reuse



Publication
June 2013

www.wsstp.eu



The European Water Platform



Membrane technologies for water applications

Research and Technology Development Needs



Publication
March 2012

www.wsstp.eu



The European Water Platform

Communication of the WssTP

A common vision for European Water Innovation
December 2012

WssTP congratulates Commissioner Poločnik with the adoption of the EIP Water SIPI

WssTP, a key player to EU Water Research and Innovation

Dear WssTP members,

With 2012 drawing to an end, it is time to reflect on the achievements of the current year and take a glimpse of what is likely to happen next year.

One of 2012 special highlights was our yearly stakeholder event "Water Innovation Europe 2012" with the participation of Commissioner Poločnik. Over the course of 2012, WssTP has been very actively engaged in supporting the European Commission (EC) to set up the European Innovation Partnership on Water (EIP Water). Beyond the EIP Water, WssTP consolidated its relationship with the different Directorate Generals (DG) of the EC, such as DG ENV, DG RTD, DG Regio and DG Connect.

WssTP is also actively involved in legislative processes for Horizon 2020 and the future Cohesion policy and had numerous amendments tabled to strengthen the position and funding potential for water-related RTD&I in both proposals. WssTP is also actively promoting the inclusion of water in national and regional research as well as in innovation strategies for smart specialisation (ERDF), and has already sent letters to all managing authorities in Europe to underline the innovative potential of water.

WssTP also organised a number of workshops to help members to be in the front-seat in responding to EU funding calls, and we became founding member to the association driving the creation of the SPRE Public Private Partnership. WssTP also increased its collaboration with other relevant stakeholders such as SUSCHEM and ERINN.

Last but not least, WssTP published a number of reports on the following topics: Water Treatment, Membrane Technologies for water applications, Sensors & Monitoring, Brines Management and MDG.

Further down in this newsletter you can find a sample of some EU projects that emanated from the WssTP network over the last few years. Partners of these EU projects have benefited from WssTP activities, workshops and support to consortium building. They are also contributing to focalize our Vision and instrumental in filling research needs and gaps identified in our Strategic Research Agenda.

We continue to foster, support and accompany the creation of consortia for new calls, in particular Call on Demonstration Sites. As a special benefit for our WssTP members, we will organise a workshop.

WssTP membership grew this year with 20 new members. Our ambition is to get to 100 members next year by further increasing our services to help members with regard to project brokerage. More information is in the next newsletter.

We wish you a Merry Christmas and Happy New Year!

Tomas Michal,
Chair of WssTP

Members' Newsletter
Issue 9 - March 2013

REMINDER WssTP GENERAL ASSEMBLY

WssTP Working Groups and EIP Water Action Groups

WssTP has strongly supported the Commission in the rollout of the EIP on water since the concept was first mentioned in the Innovation Union Flagship of EU Commissioner Georghaghan-Quinn for Research and Innovation.

In support of the EC call for expression of interest for the first EIP Water Action Groups (deadline: 4 April 2013) WssTP organized a Brokerage Event on February 20th together with its partners ERINN, Suschem, and Network20. The event attracted around 130 participants of which half were WssTP members, giving them the chance to be engaged with regional and local actors. In follow-up to the workshop, the attendees were provided with the full contact details of all participants. An outline of the main ideas expressed during the event will be sent out later this week, allowing our members to take any action they deem useful.

WssTP will now shift focus to setting up a Working Group structure within WssTP as part of its new strategy which will be submitted to its General Meeting on 16th April. It will be proposed to the General Meeting to replace the current pilot structure which has been in place since 2007 with a more flexible Working Group structure in order to effectively respond to the needs of members, the water industry, and the wider society.

Joint Position Paper of AquaEuropa, EurAqua, EWA, EWP, Eureau and WssTP
Brussels, May 6th 2013

Water in Horizon 2020, with a focus on priority 5 "Climate action, environment, resource efficiency and sustainable use of raw materials"

Introduction

AquaEuropa, EurAqua, EWA, EWP, Eureau and WssTP highly appreciate the initiative of the European Commission to gather stakeholder input on Challenge 5 of Horizon 2020 at this time as the first calls are starting to be formulated. The FP7 framework has proven to be an unprecedented program to improve the scientific excellence base in water research and to enable key European parties in the water sector to work together: the water sector expects the new approach of Horizon 2020 to strengthen the water innovation capacity (both research in new areas and breaking through the barriers to enable new innovations to reach the market) even further if we are to tackle the challenges for the future.

Strengthening international cooperation is key in the vision of the water sector as 90% of global growth the coming decade will be outside of Europe. The yearly global turnover in the water sector is 375 billion euros with an expectancy of over 630 billion euros for 2020 (annual growth 6%). With a current global market share of over 30% the EU water sector is well placed to remain a global leader although this cannot be taken for granted.

Summary Position

In the perspective of the water sector the following topics are of key importance to foster excellence, industrial leadership and to solve the societal challenges of Europe related to water.

Sub-challenge 1: Fighting and adapting to climate change

- 1.1 Improve the understanding of the feedback loop of climate change in the water cycle and the provision of reliable climate – water system projections.
- 1.2 Adapt to climate change through a smart portfolio of water adaptation by users (rural/energy and agriculture), water management, water cycle in infrastructure and geo-engineering practices. Address salinity changes due to sea level rise

Sustainably managing natural resources and ecosystems

Water pollution
Water transitions in (the use of) urban and industrial water systems
"Water flows, water-ecosystems, wetlands and floodplains and services"

BRIEFING NOTE HORIZON 2020
BRUSSELS, MARCH 27th 2012

Horizon 2020

Horizon 2020 is the EU framework programme for research and innovation. The package consists of five pillars which sets out the R&D and innovation architecture of the EU for the period 2014-2020:

- 1. overall regulation
- 2. specific programme on implementation
- 3. rules for participation
- 4. EIT strategic innovation agenda
- 5. EIT regulation

Horizon 2020 has three main goals represented by the funding: € 24 598 million to strengthen the EU's scientific excellence, € 17 938 million for industrial leadership (key technologies, greater access to capital and for SMEs) and € 31 748 million to address the societal challenges.

Societal Challenges
 Societal challenges which the proposal mentions are:

- 1. demographic change and wellbeing;
- 2. security, sustainable agriculture, marine and maritime research and the bio-economy;
- 3. clean and efficient energy;
- 4. green and integrated transport;
- 5. resource efficiency and raw materials;
- 6. innovative and secure societies.

What are the possibilities for WssTP?










WssTP will be able to contribute to the overall regulation, specific programme and the EIT strategic innovation agenda seem to be of the most importance to WssTP. WssTP recognizes that water fits all three key priorities and most of the mentioned societal challenges. Though possibilities for water projects would increase when the Commission would mention water more clearly as a priority.

What are the actions?

WssTP will establish a WssTP position on Horizon 2020. Water should have a clear place in all three key objectives for the societal challenges focus on a challenge named "climate action, water solutions, resource efficiency and raw materials".

WssTP will establish a WssTP vision on innovation and will establish contacts with MEPs (before 21st of May, the presentation of the draft report of the rapporteur) strengthening the contact with the European Commission.

Examples of research projects supported and/or inspired by WssTP (FP6 & FP7)

- **Techneau** → drinking water 
- **AquaFit4Use** → industrial water recycling 
- **Prepared** → adaptation to climate change 
- **Trust** → sustainable urban water systems 
- **ChemWater** → membrane for water technologies 
- **NetSoc** → ICT in water 
- **Saph-Pani** → cooperation with India 
- **Water4Energy** → water & energy management in industry
- **Demeau** → emerging pollutants 
- **P-Rex** → phosphorus recovery from wastewater 

WssTP project statistics

FP7 2013 Inno-Demo call (€50M)

Number of proposals submitted	133
Proposals rewarded	11
Total number of consortium members	1335
Successful consortium members	168
Overall WssTP consortium members	54
Successful WssTP Consortium members	29
Success rate total number of consortium members	13%
Success rate WssTP consortium members	54%
Successful consortia coordinated by a WssTP member	64%
Successful consortia with WssTP members	91%

Key Dossiers



EIP Water



European Regional
Development Fund
Investing in your future



eco-innovation 
WHEN BUSINESS MEETS THE ENVIRONMENT

**CHINA
EUROPE**
Water Platform



A Blueprint
to Safeguard Europe's
Water Resources

SPIRE Sustainable Process Industry through
Resource and Energy Efficiency

WssTP driver behind EIP Water



High Level Steering Group



ABENGOA WATER



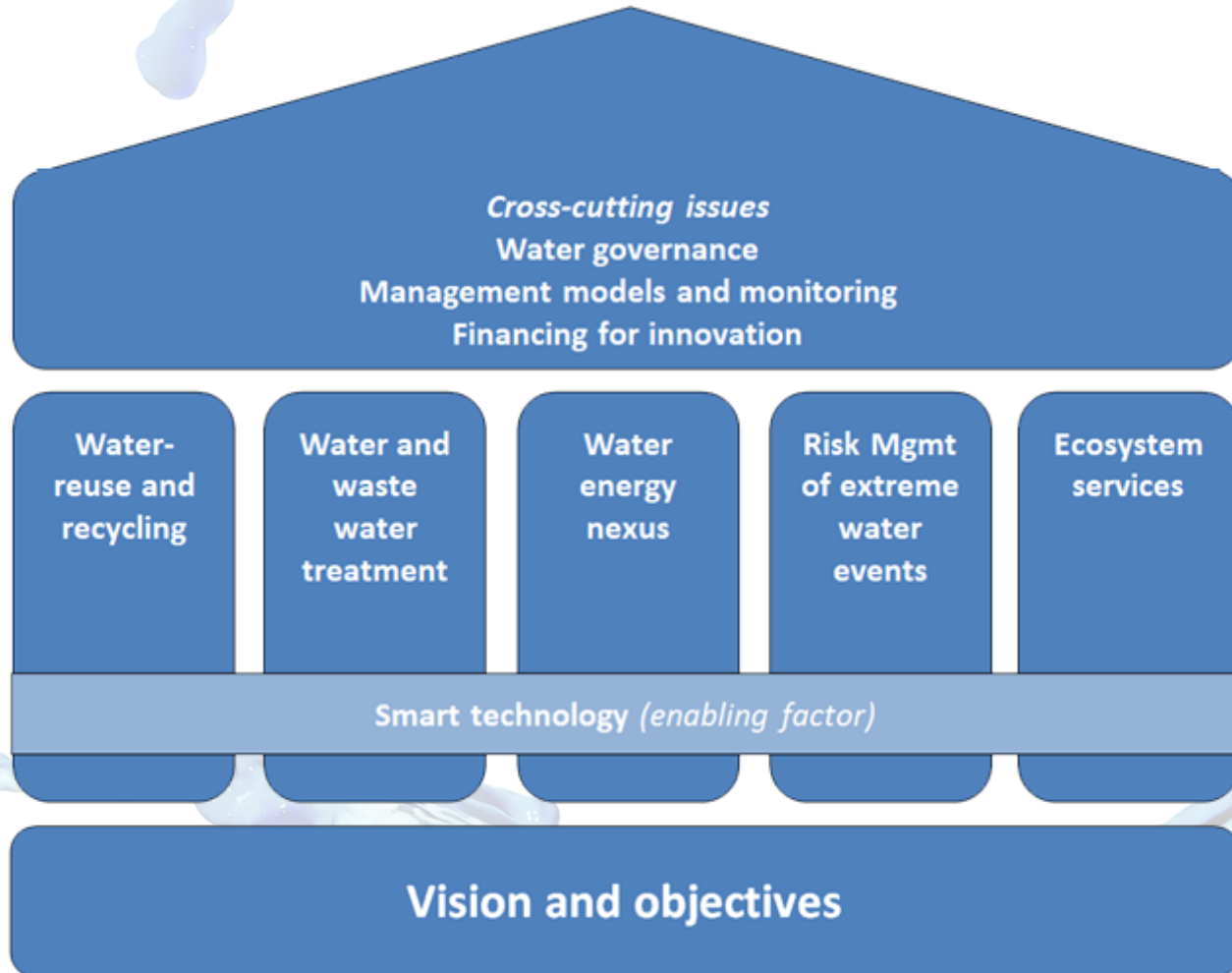
KWR



Task Force

14 representatives from WssTP members out of 45 Task Force members

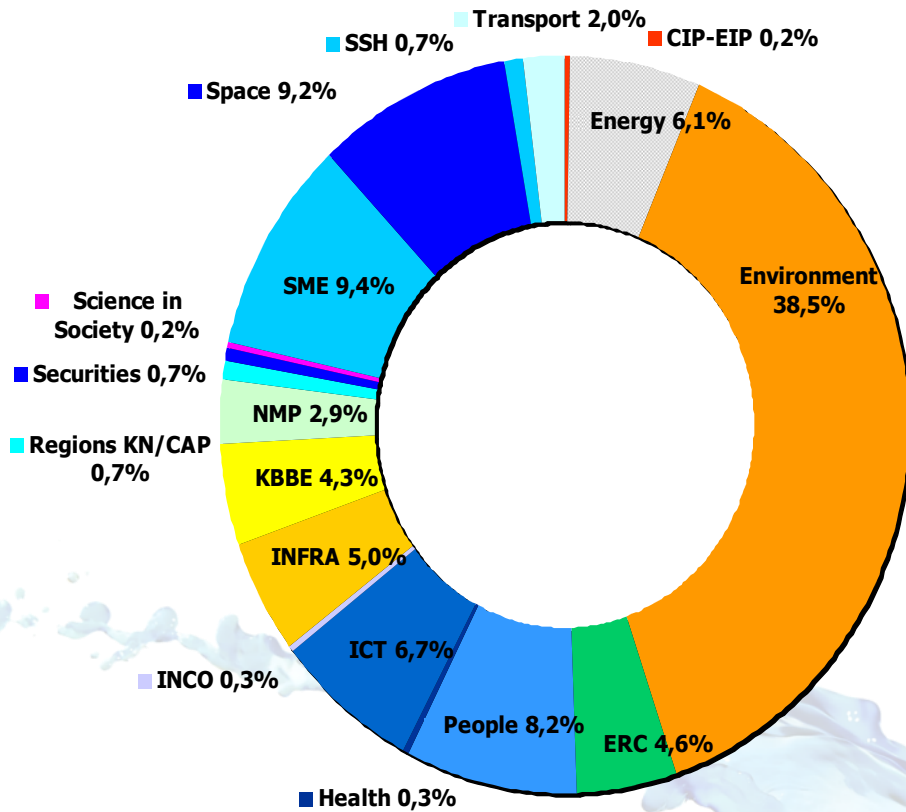
European Innovation Partnership on Water



Key Partners



WATER from FP7 to HORIZON



**€130million per year in FP7
900 projects on Water from
a multidisciplinary sectorial
approach in FP7**



**A transdisciplinary and
cross-sectorial approach in
HORIZON 2020**

WATER in HORIZON

European Research Area

SOCIETAL CHALLENGES 31.7 billion €

- ✓ Health, demographic change and wellbeing
- ✓ Food security, **sustainable agriculture**, marine and maritime research and the bioeconomy
- ✓ Secure, clean and **efficient energy**
- ✓ Smart, green and integrated **transport**
- ✓ **Climate action, Resource Efficiency and Raw Materials**
- ✓ **Inclusive, innovative and secure societies**

INDUSTRIAL LEADERSHIP 17.9 billion €

- ✓ **Leadership in enabling and industrial technologies** (ICT, nano, materials, bio, manufacturing, space)
- ✓ Access to **risk finance**
- ✓ Innovation in **SMEs**

EXCELLENT SCIENCE 24.6 billion €

- ✓ European Research Council
- ✓ Future and Emerging Technologies
- ✓ Marie Skłodowska Curie actions on skills, training and career development
- ✓ Research infrastructures

Simplified access

Dissemination & knowledge transfer

Supporting EU policy priorities while enhancing synergies and cross-cutting competences

Joint Research Centre

13th European Forum on Eco-innovation



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