



WssTP
common vision for water innovation

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The European Water Platform

What is WssTP?

WssTP is the European Technology Platform (ETP) for water.

The Water supply and sanitation Technology Platform, the **WssTP**, is a European **collaboration** between **Industry**, **Research groups**, **Policy makers** and **Water users**.



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Key facts

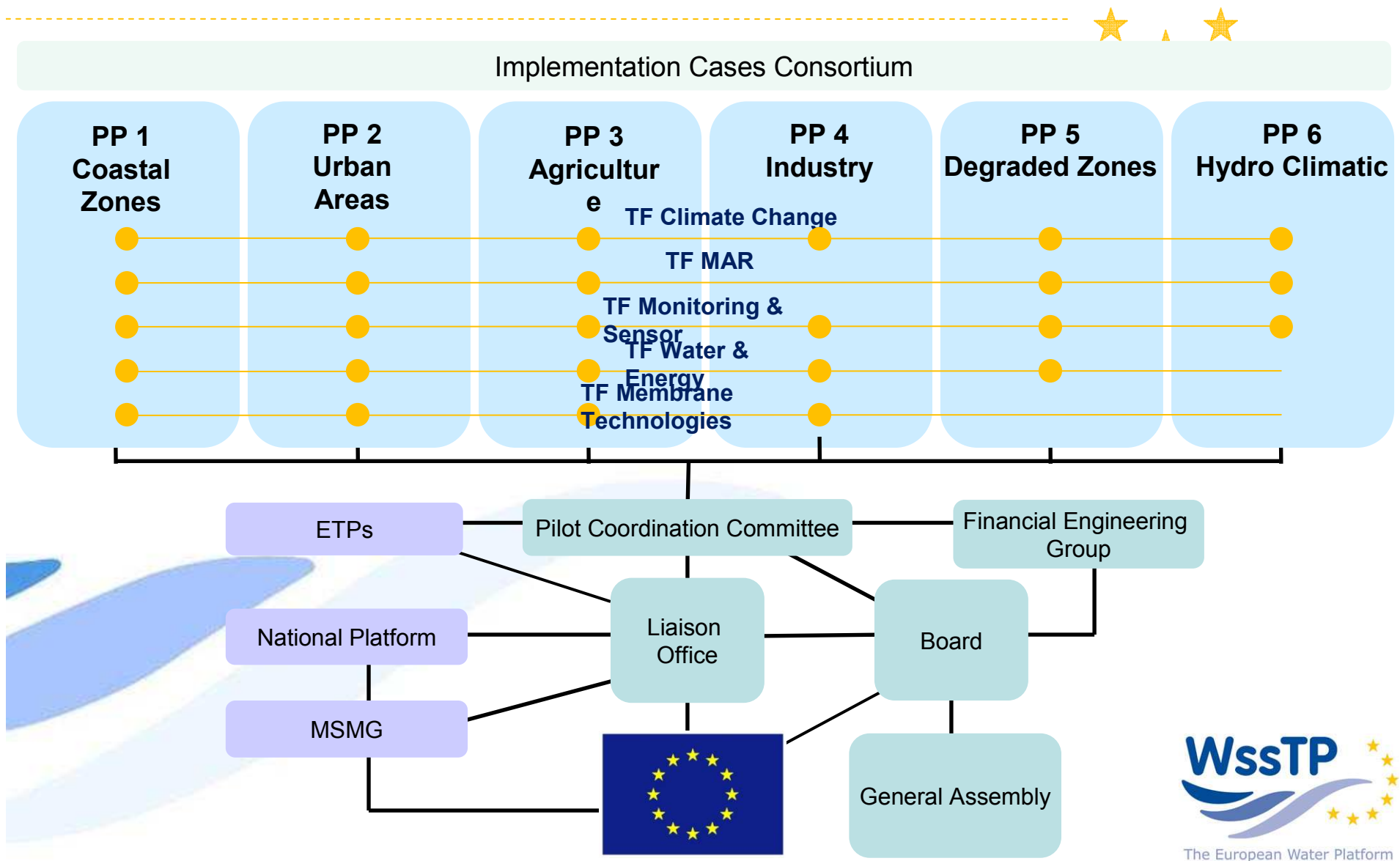


- **Growing organisation:** From 17 to 59 members from 2008 to 2010, 209 contributing organisation, a network of more than 650 persons.
- **Strategic recommendations and working groups:** **11 reports** sent to DG Research, **3 key documents** (SRA, Vision document, Implementation document), **6 pilot programmes** and **5 Task Forces.**
- **Events in Europe:** 21 official presentations in 2009, 3 stakeholders events with more than 220 participants.
- 4th STAKEHOLDERS EVENT: June 1st
- **Secretary of ACQUEAU, Eureka Cluster on water.**



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The WssTP organisation



Global challenges



1/ Increasing water stress and water costs

- **Quantity** issue.
- Deterioration of **water quality**.
- Lack of appropriate **water management**.

2/ Increasing urbanisation:

- High **demand** for water and food.
- **Increase** of waste-water generation.
- Reluctance to **maintain** water infrastructures.

Global challenges



3/ Extreme climatic events

New extreme climatic conditions:

- **Impact the rate by which glaciers, groundwater bodies and reservoirs get recharged.**
- **Disturb normal life.**



Global challenges



4/ Many rural and under-developed areas

- The lack of infrastructure makes these **areas less attractive.**
- Water supplies, waste-water treatment...
Need to be: **easy, reliable and affordable.**

Pilot programmes



To answer these challenges, the WssTP  created the **Pilot Coordination Committee**

which roles are to:

- **Coordinate relationship activity** with pilot programmes managers.
- **Drives a network of more than 200 entities.**

Organised in **6 pilot programmes on challenging topics**

- Coastal zones
- Urban areas
- Agriculture
- Industry

• Decided topics



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Pilot programme 1: Mitigation of water stress in coastal zones



Coastal zones occupy **less than 15%** of the earth's **land surface**.

They accommodate **more than 60%** of the **world's population**.

It might be a **conflict** between the needs of:

- Local industry.
- Agriculture.
- Tourism.
- The environment.

Pilot programme 1: Needs for Research and Technology?



- **Prevention** of deficit, use of alternate water resources and artificial recharge.
- **Mitigation of salt-water intrusion.**
- Monitoring **network**, control of pollution.
- Optimisation of borehole **infrastructure** for ground water abstraction.

The pilot is led by A. Kneppers, Schlumberger Water.

120 participants, 9 implementation cases.

Pilot programme 2: Sustainable water management inside and around large urban areas



Increasing urbanisation:

More than 50% of the population will live in urban areas.

Some issues:

- Rainfall management.
- Balancing water demand with environment.
- Asset management.
- Sludge.
- Alternative water resources.
- Water treatment.

Pilot programme 2



- **Protection of the environment**, in order to generate useable resources and **reduce energy consumption**.
- **Renewing infrastructures** that deliver water and drain properties.

The pilot is led by M. Farrimond, UKWIR.

90 participants, 9 implementation cases and 7 sub-groups.

PREPARED, successful project funded by the European Commission.

Pilot programme 3: Sustainable management and agriculture



Agriculture is an essential challenge:
9 billion people will have to be fed.

The demand of water is growing,

Increased agriculture productivity:
development of new water management
tools, improvement of sustainable
production methods...



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Pilot programme 3



with

- Protection of the **environment**: reduction of pollution due to agrochemicals, nutrients...
- **Water supplies**: safe use and reuse of water in agriculture.

The pilot is led by T. Runge, Copa-Cogeca.

40 participants, 9 implementation cases

Pilot programme 4: Sustainable water management for industry



All industries need to be more efficient in the use of water.

Implementation cases:

- Water fit for use.
- Closing water cycles.
- Reducing pollution (carbon impact) and water costs.

The pilot is led by A.Jansen, TNO and T. Vereijken, Grontmij

60 participants, 5 implementation cases

AQUAFIT4USE, a successful project funded by the European Commission

Collaboration with SUSCHEM.

Pilot programme 5: Reclamation of degraded water zones



Natural resources must be protected: ecological quality in Europe is a concern (**The Water Framework Directive**).

Research needs:

- Development of techniques.
- Development of **optimal strategies**.
- “Best practises” guideline.

The pilot is led by H. Duel, Deltares and E.Feliu, Labein Technalia.

40 participants, 6 implementation cases.

Pilot programme 6: Proactive & corrective management of extreme hydro-climatic events



Longer dry periods and more intense rainfall events will change the demand of water.

Research needs:

- To protect the environment and the populations.
- To develop forecasting hydro-meteorological aspects.

Pilot programme 6



- **Warning systems.**
- Short and long-term **drought management.**
- Regional scale **flooding.**

The pilot is led by A. Jenkins, CEH and C. van de Gutche, Deltares.

40 participants, 9 implementation cases.

5 Task-Forces



What is the Task-Force?

Task Forces are working groups handling cross-cutting issues of several Pilot Programmes. Task-Forces are called by the Board of Directors on a specific topic for a limited duration in time.

Three topics in 2009:

- Climate Change
- Manage Aquifer Recharge
- Monitoring and Sensors

Two topics in 2010:

- Water an Energy
- Membranes Technologies for water application



Link with the MDGs



The **WssTP** aims to twin these 6 pilot programmes and implementation cases through partnerships with developing countries.



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Links with Eco-Innovation



- ERANET on Eco-Innovation / DG RTD / ETAP
- Cross-cutting issues / Task-Forces
- Approach of SRA: Green Growth
- “Innovation should be based on Life Cycle Assessment to develop RTD focusing on eco-innovation and demonstration cases that will open new markets.”
- Key principles:
 - Extend bottom-up and market driven development by developing a user approach
 - Support coordination activities between all the stakeholders from the water research community

Thank for your attention!