



EU Vandnettet - Orienteringsmøde om FP7 20. august 2008

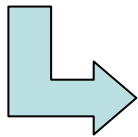
WSSTP – STATUS PÅ PILOTAKTIVITETER

Ved Jørn Rasmussen, DHI og medlem af WSSTP's bestyrelse

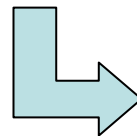
European Technology Platforms

Focus on strategic issues where achieving Europe's future growth, competitiveness and sustainability depends upon major technological advances

Stakeholders, led by industry, come together to agree on **a common vision** for the technology.



Stakeholders **define a Strategic Research Agenda** setting out the necessary medium- to long-term objectives for the technology.



Stakeholders **implement the Strategic Research Agenda** with the mobilisation of significant human and financial resources.



The Water Supply and Sanitation Technology Platform - WSSTP

- Activities initiated in 2005 and organised in a Steering Group and five working groups with some financial support from EU
- Established in 2007 as an international non-profit association ("I.N.P.A."/"I.V.Z.W"/"A.I.S.B.L.") according to Belgian law
- Open to all stakeholders
- Objectives
 - Enhance the competitiveness of the European water industry
 - Solve European water problems
 - Support European commitments to achieving Millennium Development Goals
- 14 founding members and today appr. 40 members



The scope of the work ...in the past

The platform has produced:

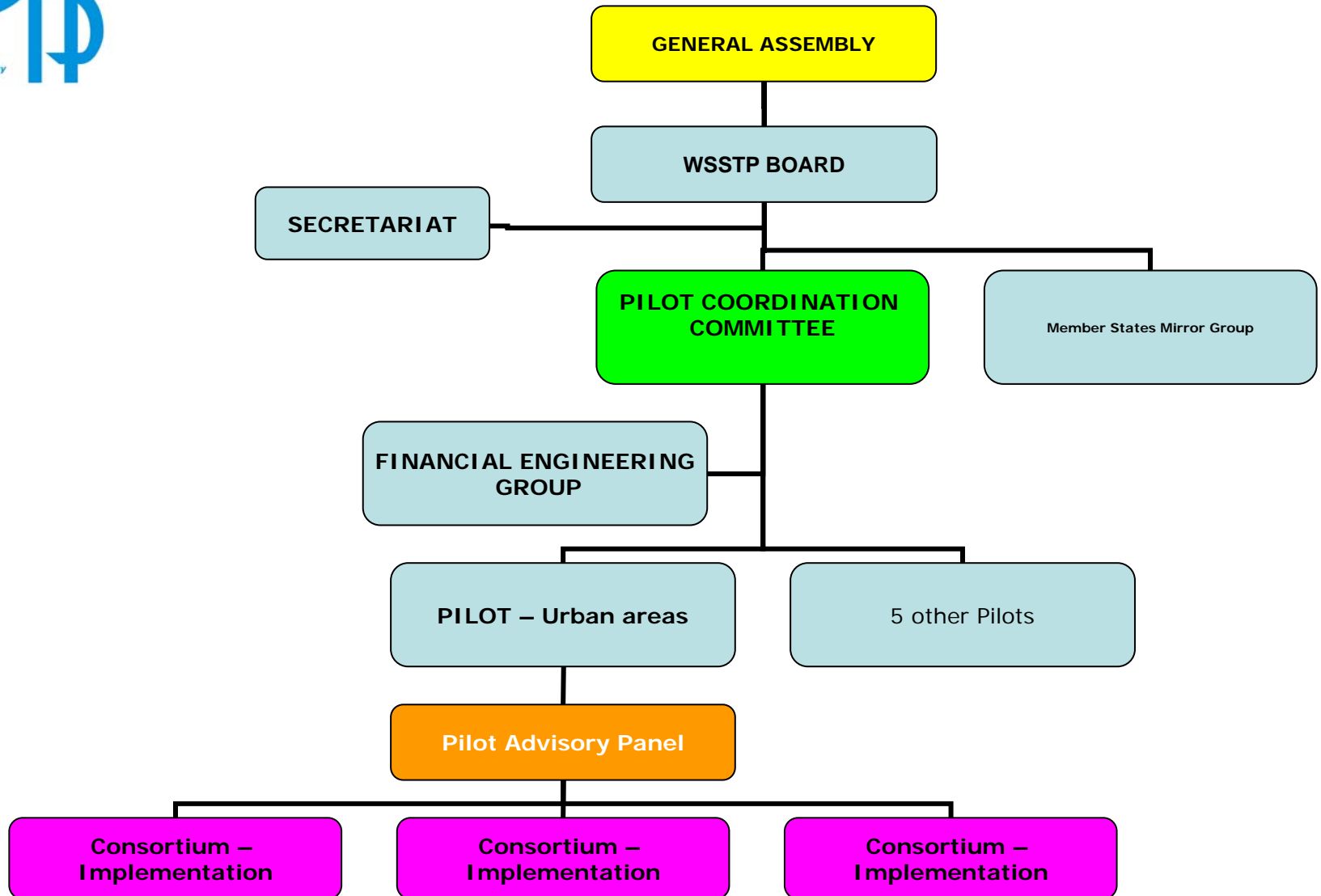
- a common **Vision** document for the whole European water industry and visions for five sub-themes
- a synthesis **Strategic Research Agenda** covering generic research and enabling technologies needs and separate research agendas for five research areas:
 - Balancing demand and supply
 - Ensuring appropriate quality and security
 - Reducing negative environmental impacts
 - Novel approaches to design, construction and operation of water infrastructure assets
 - Establishing an enabling framework
- an **Implementation Plan** comprising six pilot programmes and 40 potential implementation cases

and have involved more than 300 people in 20 countries

See documents on www.wsstp.eu



WSSTP governance



Pilot Framework

- **Consortia**
 - Groups working together on specific topics
 - May be several Consortia within a Pilot
 - Some may focus on research, other on demonstration projects
 - Consortia may be funded in different ways
- **Pilot Advisory Panel**
 - Representatives from all Consortia
 - Looking for synergy between Consortia
 - Spreading Generic research between Consortia
 - Coordinated by Pilot Manager
- **Pilots Coordination Committee**
 - All Pilot Managers
 - Looking for synergy between Pilots
 - Spreading generic research between Pilots
 - Chaired by a WSSTP Board member

Converting Pilots to Programmes

- Each Pilot led by a relevant stakeholder
- Stakeholder workshops
 - Convert SRA ideas – coherent programme
 - Groups of utilities/cities/stakeholders willing to collaborate
 - Outline proposals developed for major work programmes
 - Potential demonstration sites agreed
- Submit proposals to the EU Commission and other funding sources



Implementation through six Pilot Programmes

- Mitigation of water stress in coastal zones
- Sustainable water management in urban areas
- Sustainable water management for agriculture
- Sustainable water management for industry
- Reclamation of degraded water zones (surface and ground)
- Proactive and corrective management of extreme hydro-climatic events

Implementation through six pilot programmes

Sustainable water management in large cities (lead UKWIR)

- December 2006, key issues questionnaire circulated (23 generic research topics and 33 enabling technologies)
- May 2007, responses analyzed
- June 2007, analysis circulated
- June 2007, kick-off workshop in Paris
- August 2007 – Feb 2009, themes workshop
 - Supply/demand balance: two workshops, report in progress
 - Urban flooding: one workshop, report produced, consortium established
 - Sludge and energy: three workshops conducted, report produced
 - Asset management: two workshops, report produced
 - Alternative water sources: one workshop, report in progress
 - Water treatment, yet to start
 - Sensors, yet to start

Implementation through six pilot programmes

Urban flooding working group

- Nos. of participants: 19
- Nos. of countries represented: 8
- Nos. of utilities represented: 7 (Århus, Barcelona, Berlin., Eindhoven, Genoa, Lyon, Oslo)
- July-Sep 2007, preparation of workshop material incl. utility/city fact sheets (4-6 pages each)
- Workshop in Aarhus 24-25 Sep 2007
 - Grouping research topics into projects
 - Utility/city priorities vs. research topics
 - Appoint lead for each project description
- Working group report March 2008
- Consortium for FP7, 3.call established in June 2008

Implementation through six pilot programmes

Urban flooding WG project proposals

- Multi-hazard and multi-risk modelling tools for integrated risk assessment of urban flooding and pollution
 - Demonstration sites: Barcelona, Eindhoven, Lyon
 - Lead partner: UK
- Integrated and water quality based stormwater management based on online-monitoring, ecological engineering and cost-effective technologies
 - Demonstration sites: Aarhus, Berlin, Eindhoven, Genoa, Lyon, Oslo
 - Lead Partner: Lyon

Implementation through six pilot programmes

Urban flooding WG project proposals

- Integrated real time monitoring/control of sewer systems and WWTP combined with early warning systems
 - Demonstration sites: Århus, Barcelona, Berlin, Genoa, Oslo
 - Lead partner: Århus

- Solving flooding and water quality problems through integrated approach and improved decision making tools for urban water management
 - Demonstration sites: Barcelona, Eindhoven, Genoa, Lyon, Oslo
 - Lead partner: Eindhoven

Implementation through six pilot programmes

Asset management working group

- Nos. of participants: 19
- Nos. of countries represented: 8
- Nos. of utilities represented: 5 (Barcelona, Oslo, Genoa, Lisbon, Bucarest)
- Workshops in Lisbon and Genoa in Oct and in Dec 2007
- WG report January 2008

Implementation through six pilot programmes

Asset management WG proposals for FP7 etc:

- Technologies for advanced asset management
 - Data acquisition, condition assessment, exchange of city assets
 - Less disruption technologies
- Decision methodologies & DSS components for advanced asset management,
 - Integrated DDS "Sustainable SIM City 2030" including AM under uncertainty
 - AM economic and financial aspects
 - Carbon neutral AM
- Building a common market for new tools including best practices standard, regulator guidelines

Implementation through six pilot programmes

Mitigation of water stress in coastal zones (Schlumberger)

- Kick-off workshop in Barcelona, October 2007
- Application Water4Coast for Programme MED submitted May 2008
- Two additional applications under preparation – Regional Programme SEE & Regions of Knowledge

Sustainable water management for agriculture(Copa-Cocega)

- Key issues questionnaire circulated, responses analysed
- Workshop planned for 17 Sep 2008

Implementation through six pilot programmes

Sustainable water management for industry (TNO)

- Successful AquaFit4Use application for FP 7, 1. call
- Two workshop conducted
- Next steps: expand consortium and develop new thematic research areas and funding opportunities

Reclamation of polluted water zones (DELTARES)

- Kick-off workshop, Delft 5 October 2007
- Unsuccessful RESTORE application for FP7, 2. call
- Next steps: ??

Proactive and corrective management of extreme hydro-climatic events (DHI)

Danish involvement in WSSTP Pilots

Sustainable water management in large cities

- Peter Steen Mikkelsen, DTU
 - Supply/demand balance: None
 - Alternative water uses: None
 - Urban flooding: Anders Lynggaard Jensen, DHI
 - Sludge and energy: None
 - Asset management: None



Danish involvement in WSSTP Pilots

Mitigation of water stress in coastal zones

- None

Sustainable Water management for agriculture

- None

Sustainable water management for industry

- Gert Holm Kristensen, DHI

Reclamation of polluted water zones

- Per Rosenberg/Jens Chr. Refsgaard, GEUS

Proactive and corrective management of extreme hydro-climatic events

- Mike Butts, DHI

Nyttige links

www.wsstp.eu

www.danishwaterforum.dk

www.forskningsplatformen-vand.dk

<http://eu-vandnettet.forskningsplatformen-vand.dk>

www.fi.dk/site/forside/internationalt/eu-samarbejde/eurocenter