



European Commission - DG Environment
Unit D.2: Water & Marine



Towards a better science-policy integration in the field of groundwater- soil interfaces

Philippe QUEVAUVILLER & Claudia OLAZABAL
European Commission, DG ENV

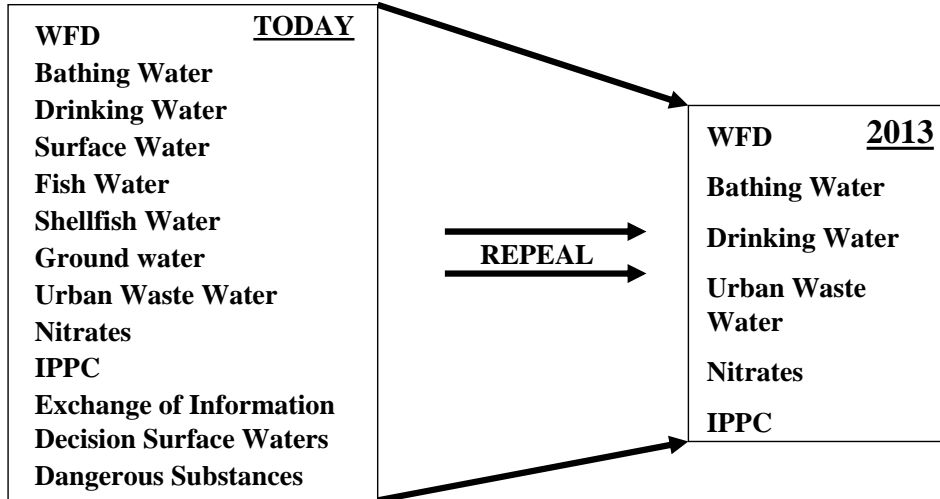


Contents of the Presentation

- Key Components of EU groundwater and soil regulations under developments
- Integration issues: environmental policies
- Science-policy integration issues: links with on-going RTD projects
- Need for a ‘science-policy’ interface
- Conclusions, perspectives



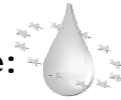
Introductory remark: evolution of EU water policies





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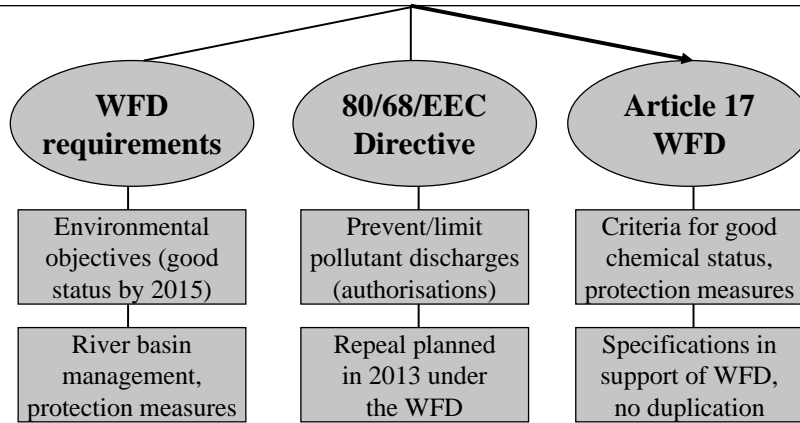
EU Water Framework Directive: key elements



- ✓ protecting all waters, **surface and ground waters**
 - ✓ **Setting** environmental objectives
 - ✓ good quality (**'good status'**) **to be achieved within a set** deadline of 15 years
 - ✓ water management **based on** river basins
 - ✓ combined approach **of emission controls and water quality standards, plus phasing out of particularly hazardous substances**
 - ✓ economic instruments: **economic analysis, and getting the prices right - to** promote wise use of water
 - ✓ **getting the** citizen involved: **public participation**
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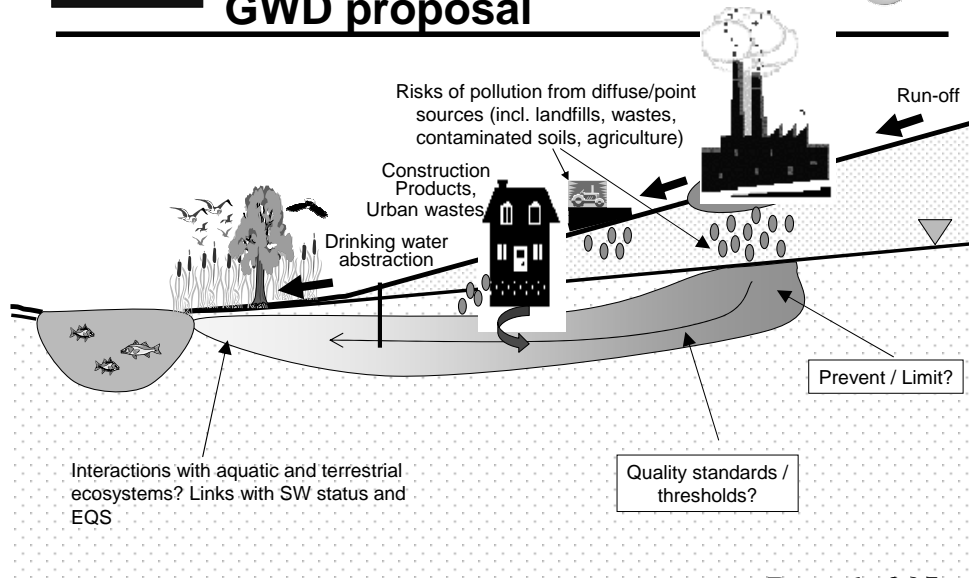
GROUNDWATER PROTECTION AGAINST POLLUTION





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Issues tackled by the EU GWD proposal





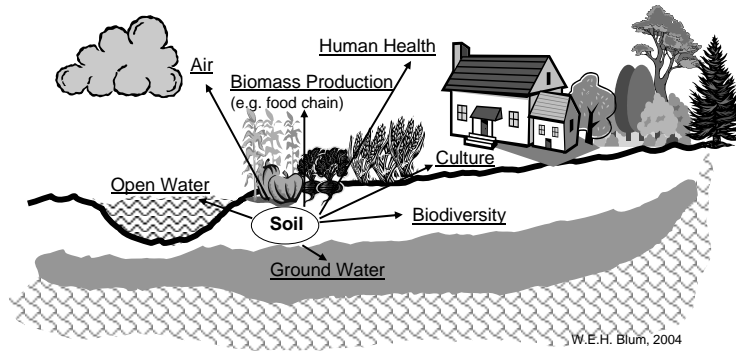
Update of GWD negotiation process

- **COM(2003)550 proposal** published in September 2003. First round of discussions with EU institutions from October 2003 to March 2004
- **Discussion rounds at EU Council** from June 2004 to May 2005
- **First EP reading report** adopted on 28th April 2005
- **Political agreement (Council/Commission)** adopted on 24th June 2005
- **Common position** expected in December 2005, followed by second reading (first trimester 2006)
- **Final adoption** by summer 2006?



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EU Thematic Strategy on Soil Protection





SOILS THREATS IDENTIFIED

- **Erosion**
- **Decline in Organic Matter**
- **Soil Contamination**
- **Salinisation**
landslides
- **Biodiversity loss**
- **Compaction**
- **Soil sealing**
- **Floods and**

INTEGRATION of soil protection aspects in other policies



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EU Soil strategy - Policy options



On the basis of

- ❖ **Working Group reports**
- ❖ **opinions from other community institutions**
- ❖ **international agreements, e.g. Soil charter, protocol on soil protection (Alpine Convention)**
- ❖ **ongoing Ex- Impact Assessment**
- ❖ **our own assessment of the need for a comprehensive approach**

We propose for the TS

- ❖ **Communication laying down the way forward and addressing issues not tackled in the SFD**
- ❖ **Framework Directive for the protection of soil (SFD)**
- ❖ **Extended Impact assessment**
- ❖ **Proposed date of adoption : End 2005**



Integration with other policies

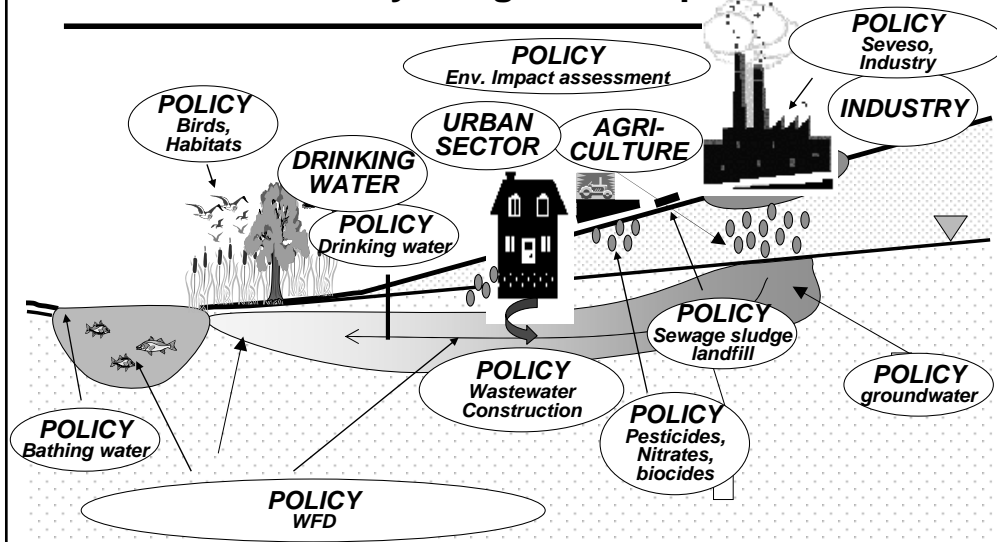
- | | |
|-------------------------|-------------------|
| ✓Environment and health | Natural resources |
| ✓Chemicals | Marine policy |
| ✓Waste | Transport policy |
| ✓Development policy | Research..... |

Each policy sector should consider also the **side effects**, positive or negative, to other sectors and ecosystems,

The political commitment to **sustainable development** should lead to a more integrated approach to policy making and management



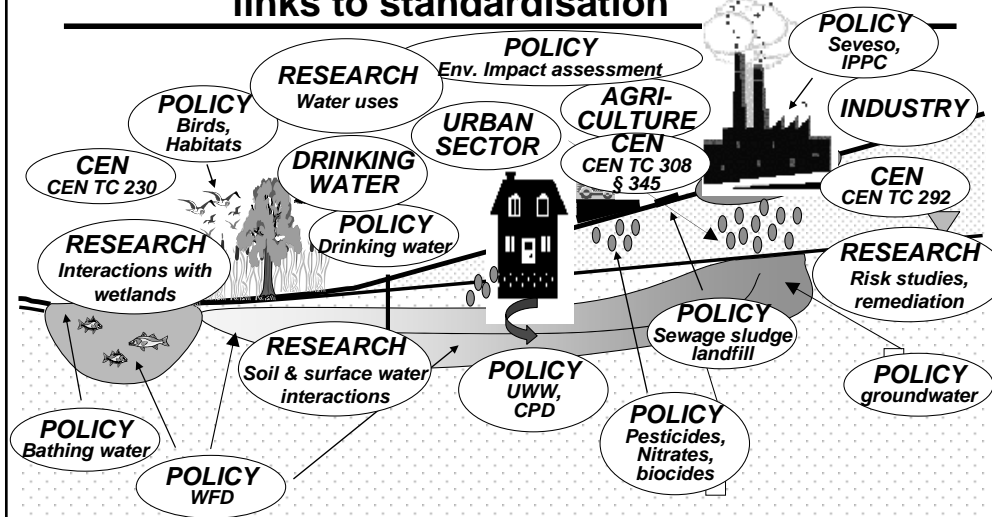
EU Policy integration in practice





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EU Research integration and links to standardisation

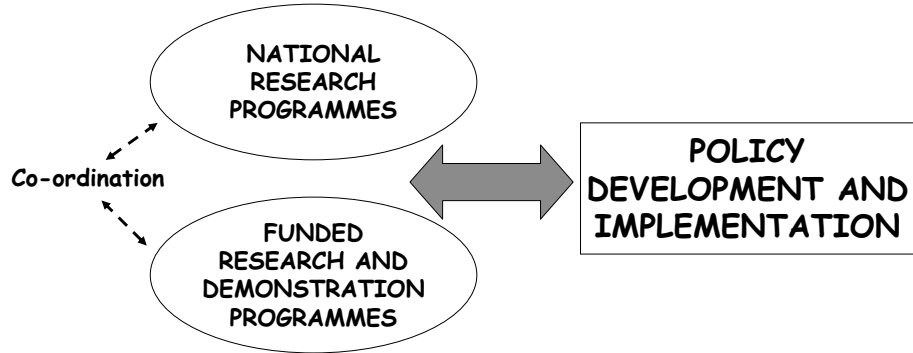




- Based on yearly calls for proposals launched by DG Research (European Commission) under 6th FP: large-scale projects or targeted research
- Of interest to the **Water and Soil Sectors**: Priority 6.3 ‘Global changes and ecosystems’, ERA-NET (potential access to national research), Scientific Support to Policies Priority [medium (3-5 y) to long (5-10 y) term research]
- JRC Multiannual WP [short (1-2 y) to long term]
- LIFE Programme [demonstration projects]



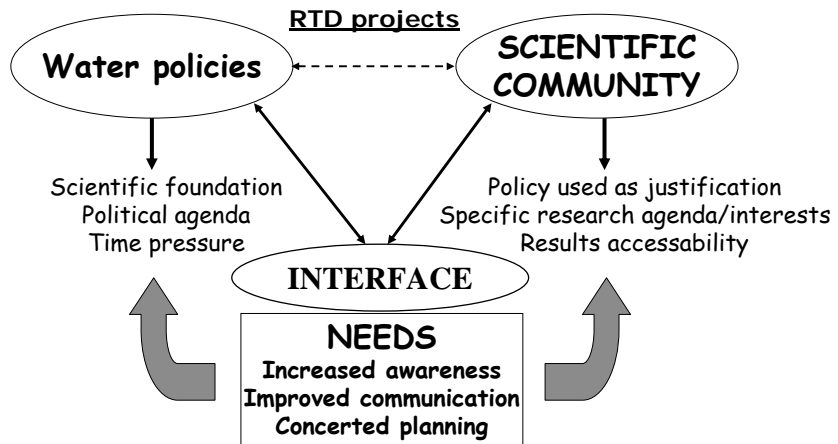
Science-policy integration in a perfect world ...



In reality, only part of the results of research projects are effectively and efficiently applicable to policies



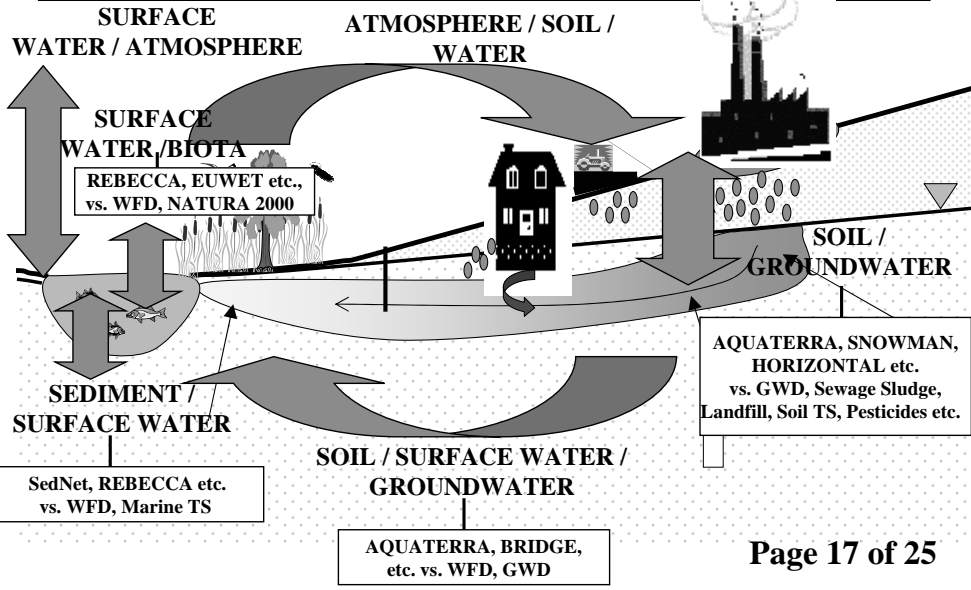
Science-policy links





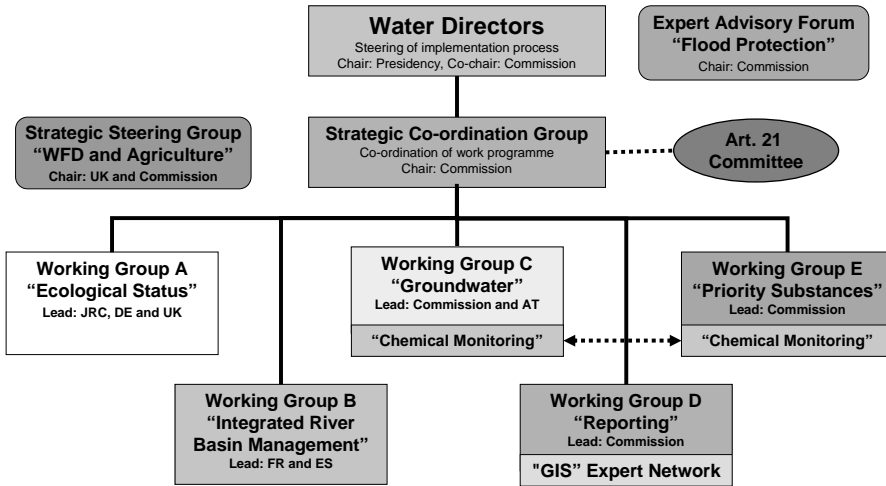
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Soil & Water cycle: reseach vs. policy (EU) response





Example of consultation: Common Implementation Strategy (CIS)



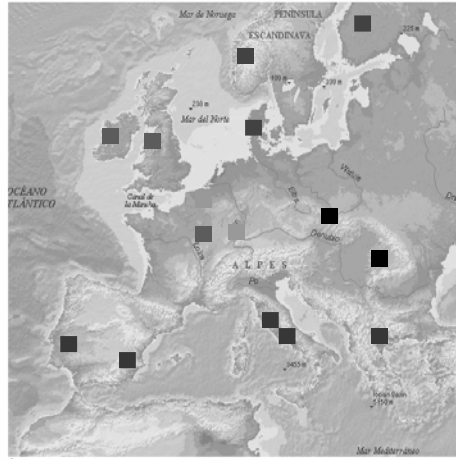


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Pilot River Basins Network: an interfacing tool under the CIS?



- B, F, NL (Scheldt),
- D, F, Lux (Moselle-Sarre)
- France (Marne)
- Ireland (Shannon)
- UK (Ribble)
- Denmark (Odense)
- Finland (Oulujoki)
- Norway (Suldals)
- Portugal (Guadiana)
- Spain (Júcar)
- Greece (Pinios)
- Italy (Tevere, Cecina)
- HU/ROM (Somos)
- PL, CZ, D (Neisse)



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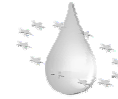
Notes for the Speaker:

The network of pilot river basins was established in 2003 as a voluntary exercise supported by most Member States, Norway and some Accession Countries. The network involves 15 river basins in all European ecoregions covering 18 countries.

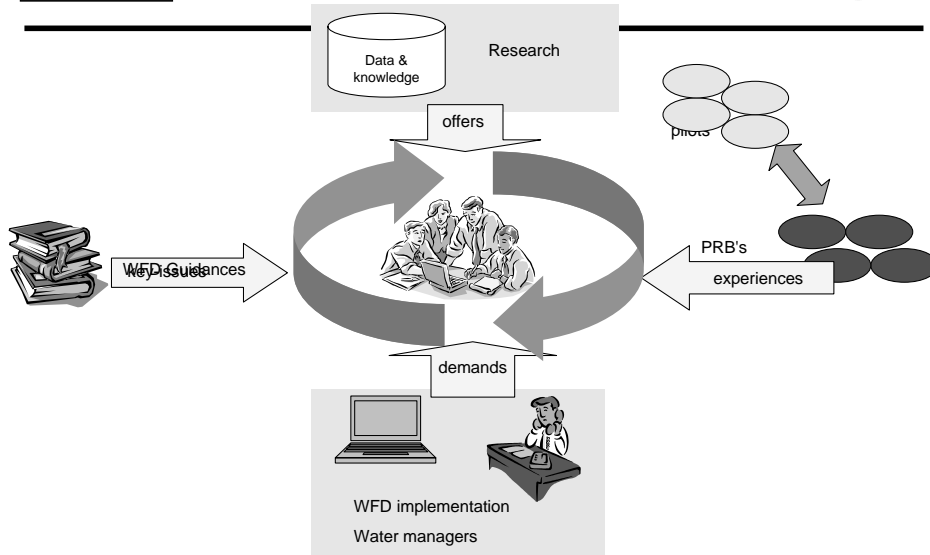
The pilots will test the guidance documents. The process has just started and results are slowly emerging.



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- Water Information System for Europe (EU-DG ENV, Joint Research Centre, European Environment Agency, Eurostat), aiming at efficiently managing all water-related information at EU level, ensuring coherence between various reporting mechanisms and needs, and providing access to information (including RTD) / data for various purposes and needs



Developing concept





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HarmoniCA initiative

Harmoni-CA
Harmonised Modelling Tools for Integrated Basin Management

About Harmoni-CA

This Web Portal has been developed by the Harmoni-CA Concerted Action of the European Commission to enhance the links between the Water Framework Directive (WFD) of the E.C. and related Guidance Documents, the CATO/MCO projects, and the Pilot River Basins. It provides information about the WFD and related research and implementation activities. It also provides guidance and support to operational managers incl. water authorities, the scientific community, developers, and other parties involved in integrated river basin management.

User Focus
Choose a focus to narrow your search

WFD Tasks

Modeling Tools for Integrated Basin Management for implementing the Water Framework Directive

Harmoni-CA basin management plans, backed up by high quality ICT tools Harmoni-CA provide a FRAMEWORK AND METHODOLOGIES based on SUPPORT AND CONSENSUS. They are designed for leaving science, policy and stakeholders, synthesising available knowledge, and facilitating dialogues and tuning projects.

Harmoni-CA's long term objective
A necessity of the Harmoni-CA forum is that the forum for unambiguous communication, information exchange and harmonisation of the use and development of ICT-tools does not

Upcoming

- Thursday May 13 2004 - Friday May 14 2004
[Harmoni-CA Meeting](#)
- Monday May 17 2004 - Friday May 21 2004
[River Restoration 2004](#)
- Tuesday May 19 2004 - Friday May 21 2004
[International Symposium for Environmental Software Systems 2004](#)
- Thursday June 03 2004 - Saturday June 05 2004
[EuroConference '04 for International River Basin Management in the Pan-European Basin](#)

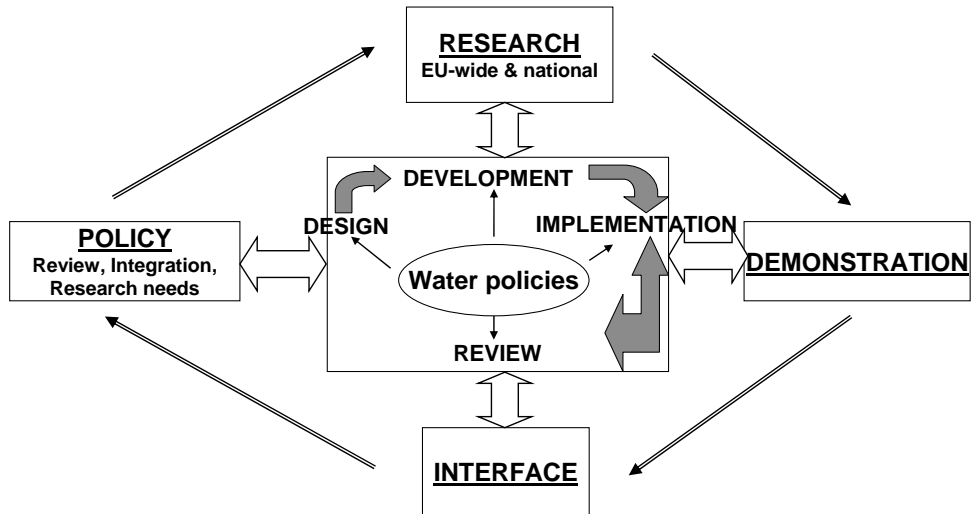
SUPPORT - SIDE

M A P P I N G

DEMAND - SIDE



... Toward WISE-RTD development





Conclusions

- **Key feature of implementation and review of environmental policies:** Communication is far from being in place among the scientific and policy-making groups. At EU level, efforts are made to identify the operability of a possible RTD-Policy interface (WISE-RTD).
- **Coordination is required** to ensure information exchanges among the scientific community and policy-makers
- **Improvements are already noted** thanks to ,tailor-made‘ projects funded under the ,Scientific Support to Policies‘ (SSP) Priority of FP6
- **Interfacing** implies efforts to establish and maintain a multidisciplinary dialogue and to look at integration issues (other policies, public awareness, education etc.) – We cannot anymore afford to work isolated!



Opened questions

- Is the state of knowledge sufficient and transferred versus soil and water policy implementation / development?
- Based on the likelihood of an ‘integrated approach’ in the environmental legislation, how should the research system policy adapt to consolidate / develop knowledge on ‘soil-water environmental interfaces’?