



Building blocks of the policy review on
Water Scarcity & Droughts
in the EU

Gap Analysis & Leakage reduction

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Gap Analysis



Water Scarcity & Droughts

Water Scarcity & Droughts Gap Analysis



- Overview of the issue
 - Where is WS&D a problem & how big is the problem?
 - What are the driving forces?
 - What & how big are the pressures?
 - What are the impacts?
 - Which measures are already in place?
 - Adequacy of existing measures
 - Identification of gaps
 - Proposal of new measures
- Assessment of Impact of new measures to feed into Impact Assessment
 - environmental, economic and social impacts

Water Scarcity & Droughts Gap Analysis



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Water Scarcity & Droughts Gap Analysis

- Launch of study summer 2010 (~ 250 k€)
- Combine knowledge from
 - all studies carried out till now
 - research activities
 - new Building Blocks identified
 - EEA data Collection
 - Experiences from implementing the 2007 Communication in Member States
 - Stakeholders ongoing activities



Gap Analysis & Building Blocks

- timing

	2010				2011			
Activity	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Building Blocks	☺	☺	☺	☺	☺	☺	☺	
Gap Analysis				☺	☺	☺	☺	
Non-paper for consultation								☺

Leakage Reduction



Water Distribution Networks

Leakages in WS Infrastructure - Background

- Water leakages from distribution networks are as high as 50% in certain areas of Europe
- Drought events and lack of demand management has lead to water shortages in some parts of Europe in recent years
- Growing public interest for major water imbalances calling for leakage reduction programs
- Big differences between Leakage levels in different MS
- The economic consequences of (reducing the) leakages are big
- The pilot project (~ 1 Million €) will allow for a thorough analysis of all the aspects included



Leakages in WS Infrastructure - data availability

- Some statistical data available for some MS
 - Losses during transport, total (15 MS)
 - Losses by leakage (13 MS)
 - Losses by evapo-transpiration (7 MS)
- Reliable & comparable data has never been obtained through-out the EU
- Losses are a combination of
 - actual losses due to leakages
 - losses in revenue linked to non-authorized abstractions
 - The split between these is most often unknown



Leakages in WS Infrastructure

- What will be studied?

- Selection of river basins with
 - significant problems with water scarcity and/or droughts & high losses
 - Positive case studies of where water losses have been minimised to
- Estimate water & economic losses
 - Distinguish between leakages & other revenue losses
 - Thorough and specific analysis of the actual resource and economic losses & technical, economic and institutional reasons for the losses in each basin
- Asses impacts of losses
- Establish the link between water losses and the value of water (price-structure, taxes etc.) in the basins



Leakages in WS Infrastructure - The results

- Detailed and reliable picture of the leakage situation in the EU
- Recommendations on the possibilities to reduce losses based on
 - the analysis in the selected river basins
 - the best practices identified
 - the economic analysis and the valuation of water
 - a Cost-Benefit analysis to determine the most economically feasible ways of reducing water losses
- The tools should include
 - possible investments
 - best practices regarding operations and management
 - ...
- Leading to
 - a more efficient water distribution system and reducing water losses and related economic losses in Europe



Thank you for your attention

Questions?