



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

# Gap Analysis & Leakage reduction

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*Henriette Faergemann  
European Commission, DG ENV,  
Protection of Water Environment*

# *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

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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
- Assess 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?***