World Water forum – Istanbul – March 17th 2009

## "Water resources across Europe confronting water scarcity and drought"

#### Prof. Jacqueline McGlade Executive Director European Environment Agency



European Environment Agend

## The European Environment Agency

The European Environment Agency (EEA) is the EU body dedicated to providing sound, independent information on the environment.





## Water Stress has reached a critical level across much of Europe

Caused by a combination of scarcity and drought Scarcity; Overexploitation of water resources Drought; has cost Europe EUR 100 billion over the last 30 years.



## **Regional Water Exploitation Index**





#### WEI for the most exploited river basins Data provided by Member States



## River basin scale WEI's indicate extreme stress





### Climate Change will exacerbate the problem

- Drier summers across most of Europe
- Increase in the frequency and severity of drought



Maximum No. of consecutive dry days; Sillmann and Roeckner, 2008



#### Irrigation; up to 80% of total water abstraction







#### Supply-led management is unsustainable

Reservoirs, inter-basin transfers, desalination etc have provided no incentive to limit use



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# Sustainable demand-led approach is required to managing Europe's water resources

Focus on conserving water and using it more efficiently

Account for the need for healthy freshwater ecosystems

Less water use also means lower energy consumption



### Water Pricing reduces water use

Multi-sectoral, volume based, supported by metering







## Improving Efficiency – Public Water Supply



- Significant leakage in public water networks
  - Water efficient appliances

Estimated % leakage in public water supply



### Demand-led management - Agriculture

Farmer advisory schemes play a key role

CAP funds to support good management



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Through including businesses; water supply, sanitation and utilities; farmers and fishermen, and by evaluating ecosystem goods and services, we can develop an integrated demand led management approach.





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