



W<sub>2</sub>A

*Water<sup>2</sup>Adapt*

*Resilience enhancement  
and water demand management  
for climate change adaptation*

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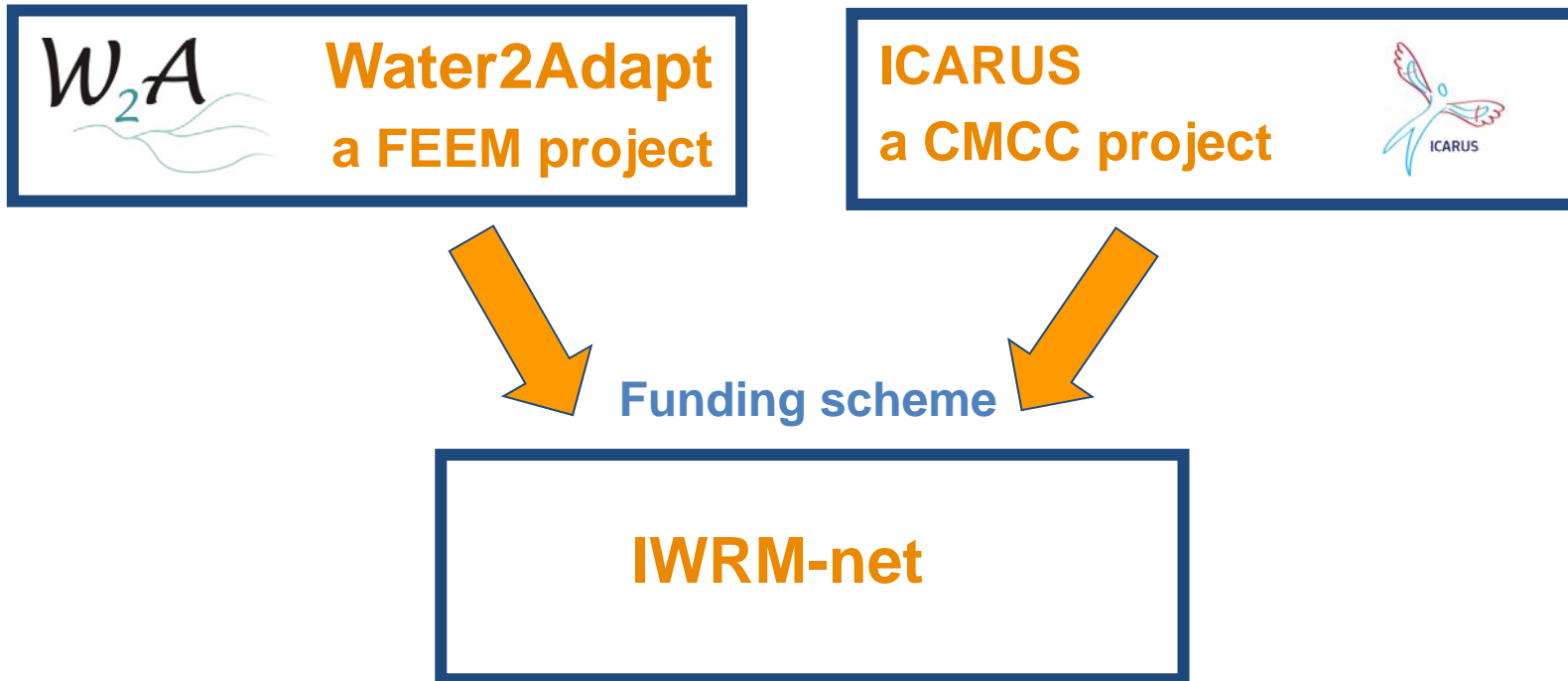
**Gaia Sinnona**

Fondazione Eni Enrico Mattei

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Venice, 13th October 2011

## Two projects



**In brief**

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## **Water2Adapt**

# **Resilience enhancement and water demand management for climate change adaptation**

**Coordinator:** Jaroslav Mysiak, Fondazione Eni Enrico Mattei (FEEM)

**Duration:** September 2010 – August 2012

**Partners:** Fondazione Eni Enrico Mattei (FEEM);

Seeconsult GmbH;

Basque Centre for Climate Change (BC3);

Chamber of Agriculture of Lower Saxony (CALS);

Fundação da Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa

## What is about

Examine **recent drought events** in four selected river basins

Italy

- River basin (RB): Po

Germany

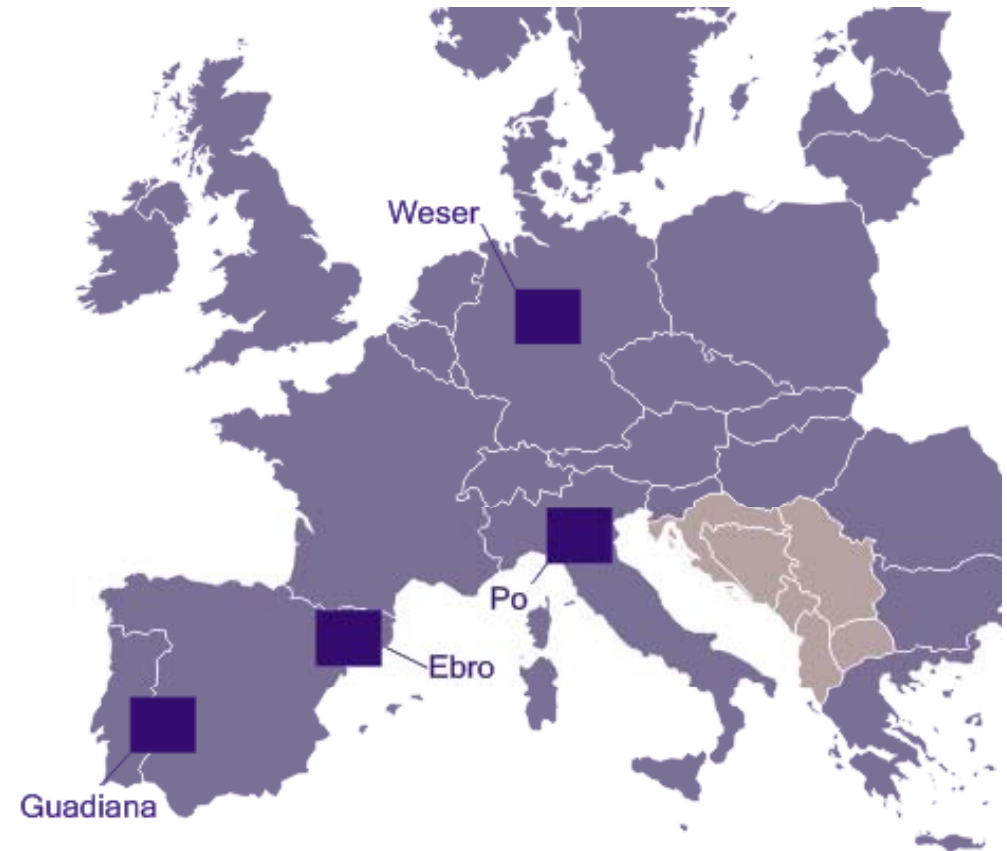
- RB: Weser

Spain

- RB: Ebro

Portugal

- RB: Guadiana



## Objectives of the project

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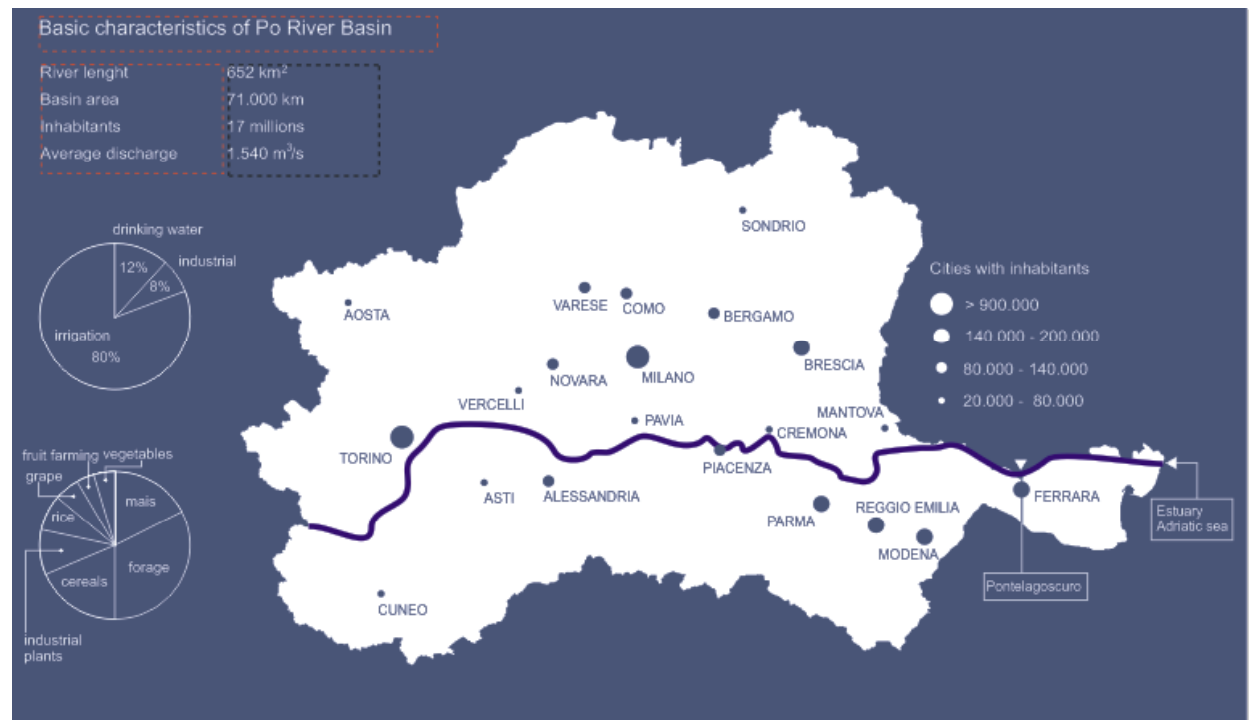
- Identify practices, which lead to **unsustainable** consumption and **inefficient** allocation of water;
  - Assess the **social** and **economic** impacts of droughts;
- and
- Analyze the performance and wider impacts of **water demand management policies**

# Our research – case studies

Rural case studies: **La Muzza canal**  
**Trebbia river**

Urban case studies: **Parma**  
**Ferrara**

Droughts: **2003**  
**2006/7**



# Workshops in Parma and Ferrara



## Outputs

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- Estimates of economic costs of droughts and social drivers of water scarcity,
- Policy recommendations on how to transform vulnerability to droughts into adaptation management tools





Regions:

Analysis of the Water Conservation Plans  
(Piani di Tutela delle Acque)



Estimate the Italian water saving potential  
and  
Adaptation measures



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<http://www.feem-project.net/water2adapt/index.html>



**Thank you for your attention**

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# Resilience

**Resilience** refers to the capacity of a system to absorb disturbances and reorganize, while undergoing changes to retain essentially the same function and identity

