



Fondazione
Eni
Enrico Mattei

MEDA-ISIIMM

Institutional and Social Innovations in Irrigation Mediterranean Management

The Italian Case Study

Brussels, June 15-17, 2004



Location of case study area

FEEM: *Scientific Partner*

Autorità di Bacino “Alto Adriatico”: *Development Partner*



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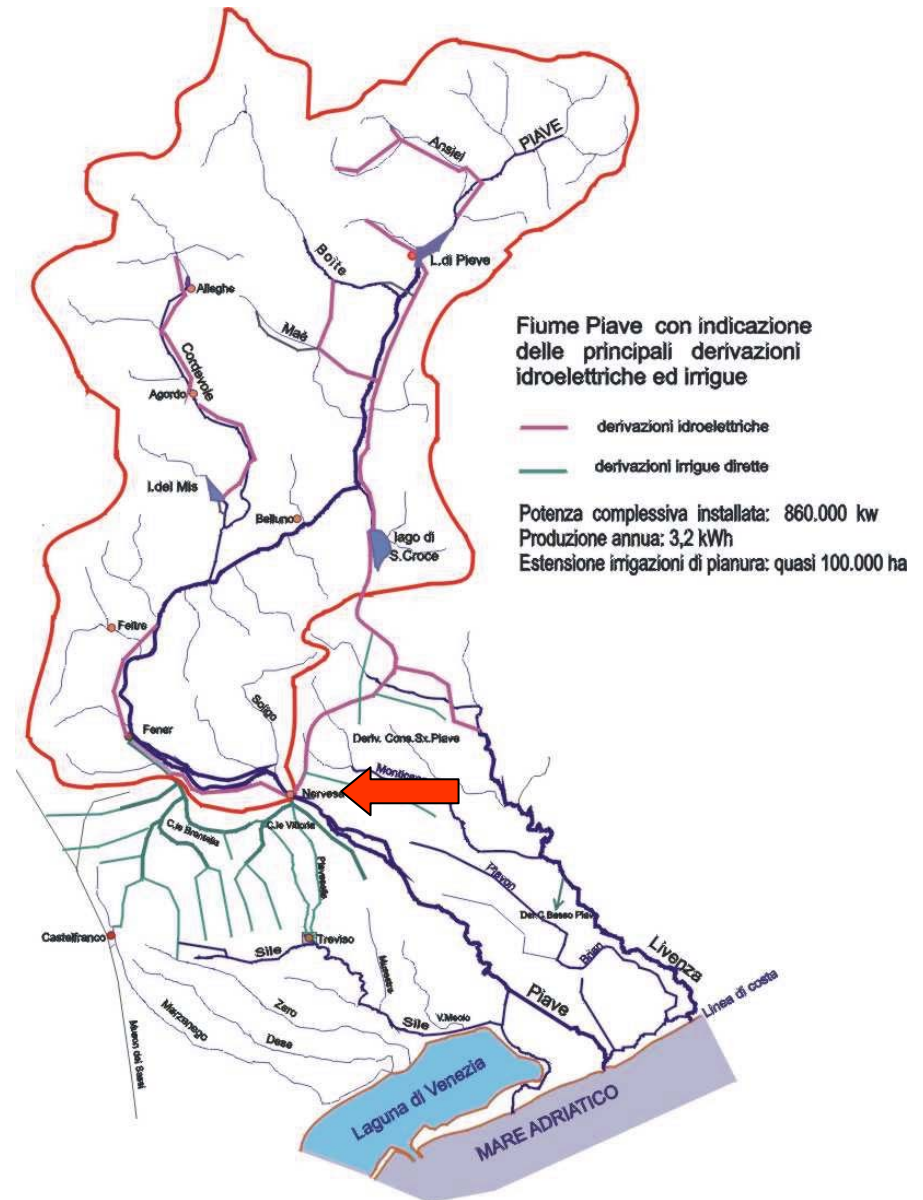
Piave River Basin

Area **3,700 sq km**

Total length **220 km**

Mean annual river flow at
Nervesa **135 m³/s**

**Artificial system of water
resources (1920-1960)**



Piave River Basin's critical points

Last 50 years **increase in water demand** was not met by a sufficient supply (urb, int. agr, hyd. pow, tou.)

In Summer **high conflict between different uses** (minimum average flow is 50m³/s).

To maintain the **minimum vital flow** of the River

The Battle of the Piave: exploitation of water connected with the economy of the Region

Main objectives

To understand the current contradictions associated with local water management in the Piave River Basin through the direct involvement of water users and public Institutions

To identify solutions in order to support an integrated management of water resources by conciliating respect of the environment and economically viable agriculture

Identification of a Pilot Area

- ✓ Identification of a **concrete and current problem** in the field of water resources management in order to perform the involvement of local stakeholders
- ✓ Identification of a **pilot area** where a reorganisation of the irrigation system is planned
- ✓ The pilot area is located in the province of Treviso and connected with the Piave River Basin. It has been identified with the **advice of local Institutions**

Criticalities of the current irrigation system

The current irrigation system is characterised by **scarce efficiency** in water use:

- The existing **network is very old** and requires substantial interventions
- **Land** concerned is **not** particularly **suitable** for surface irrigation system
- System operation and maintenance is high **labour-intensive**
- The increasing **urbanisation process** leads to increasing management problems

NEW WATER IRRIGATION SYSTEM
WATER SAVING 5 600 l/s

Integrated water management system

Integrated water project aiming at conceiving a pressurised dual water system and a new aqueduct and sewerage network



LRB Destra Piave + ASU Schievenin

Reorganisation of irrigation based on a dual system

+

New aqueduct and sewerage system

Conversion of the current surface irrigation system with a subsurface pressurised sprinkler system;

Supply of non potable water for civil purposes.

= integrated water management system



Local stakeholders' involvement

- ⇒ **Identification of local stakeholders**
- ⇒ **Organisation of individual meetings, interviews, three local seminars**
- ⇒ **Establishment of sound connections in the area**

Institutional analysis:

- ⇒ **bibliographic review**
- ⇒ **telephone interviews**
- ⇒ **collection and analysis of main national laws**
- ⇒ **identification of main actors**

The analysis of territorial aspects:

- ⇒ *acquisition of technical information*
- ⇒ *integration of data*
- ⇒ *preliminary territorial and environmental profile*

Hystorical analysis:

- ⇒ *collection of bibliography and information*

Other activities:

- ⇒ *involvement of local and international experts*
- ⇒ *creation of communication supports in Italian language*
- ⇒ *organisation of field trips and participation to local events*



Thank you!

