



## The “Consorzio per la Bonifica della Capitanata”

The *Consorzio per la Bonifica della Capitanata* (Capitanata land reclamation board), located in the Northern part of Apulia region, contributes to a sustainable development of the region through hydraulic regulation, the supply of water for agriculture and the management of the distribution water network. Since the available **water is not sufficient** to meet crop water demand, the Consortium acts to promote a more efficient and sustainable use of water resources.

The activities undertaken include both **structural interventions** on the water distribution network such as the introduction of a new generation of flow-meters and the creation of **information and communication tools like** data sheets on crop water requirements and irrigation scheduling. A weekly bulletin on agro-meteorological data is also distributed to the farmers. Recently, the Consortium has created a web site where a set of free services addressed to farmers and aimed at a more efficient water use are available: real-time and historical records of water availability in the four reservoirs managed by Consortia as well as weather parameters and irrigation scheduling for the whole area, agro-meteorological and plant protection bulletin.

Decisions on water management are difficult and complex. Recurring water scarcity periods and the multiple uses of the resource cause increasing conflicts between different stakeholders. At the beginning of the irrigation season the “water duty” available to each farmer is fixed dividing the volume of water stored in the reservoirs by the areas supplied by the network. The network is designed for an **“on-demand” delivery schedule, ruled by tariffs** but during the peak season it often works following a “rotational” delivery schedule.

**Keywords:** Irrigation, Operational Management, WWW

**Further readings:** See the NOSTRUM-DSS Italian National Report, available at <http://www.nostrum-dss.eu> Home » Final products » Case studies Leaflets

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<http://www.ciheam.org/>



The utilization of a DSS could improve the performance of the Consortium for management decisions, while the implementation of a DSS for planning actions, such as the building of new infrastructures or the definition of a new water storage level, seems to be more difficult.

### DSS tools and approaches in Italy

*In 1997, a DSS tool was installed at the Consorzio dell'Adda to improve the real time management of the Como Lake.*

*The most recent DSS tools applied focus on the role of stakeholders' participation in decision-making.*

*- TwoLe: planning and managing multi-purpose reservoir networks;*

*- Aquaroute: helping decision-makers to define sustainable water management policies.*

*- Monidri: planning and managing different water uses*

*- Mulino-Dss: planning and managing multi-sectoral problems of water allocation and quality.*

