

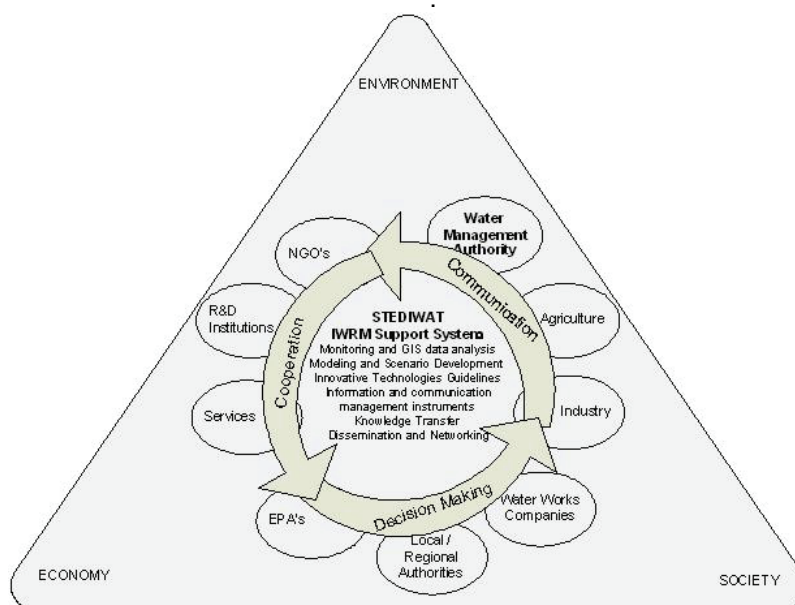
## TECHNICAL AND DECISION MAKING SUPPORT SYSTEM FOR SUSTAINABLE WATER MANAGEMENT *STEDIWAT*

Research Grant 32125/2008, PNCDI II (National Programme for Research, development and Innovation II), Duration: 2008 – 2011

### Project objectives

1. Development of technical innovative support related to monitoring, modeling and prediction tools to be used for integrated and sustainable water resources management at basin level;
2. Development of the capacity of collaboration, knowledge transfer and communication between universities and local/regional water authorities, industries and other stakeholders in the studied basins (Prut, Banat, Arges-Vedea, Olt) with impacts on local and regional sustainable development;
3. Completion of the research infrastructures of the participating universities and facilitation of further research cooperation at national and international scale;

- *integrated* issues related to the water cycle, supply, treatment, use and reuse at the level of stakeholders considering their interaction at the level of four basins in Romania (Prut, Banat, Arges-Vedea, Olt); development of an original and complex support system based on multidisciplinary research and novel technical achievements: online monitoring with wireless sensor networks, usage of GIS techniques, data analysis and modeling, scenario development, considering sustainable development components, innovative technologies for wastewater treatment and reuse, information and communication management instruments;



*Integrated concept of water resources management within the STEDIWAT Project*

4. Development of capacities and competitiveness of Romanian researchers at international scale, as well as of the national partnerships contributing to environmental sustainability (protection and conservation of water resources);
5. Dissemination of relevant results of the project at the level of scientific community, and also at the level of stakeholders dealing with water resources management.

### Project description/activities

The activities of the STEDIWAT Project rely on a **multidisciplinary and integrated approach** that focuses on:

- *integrated* issues related to the water cycle, supply, treatment, use and reuse at the level of stakeholders considering their interaction at the level of four basins in Romania (Prut, Banat, Arges-Vedea, Olt);

- development of a complex support system that will facilitate **decision-making interaction and adaptive management** at the level of the stakeholder but also on the level of the system as a whole (management of complexity of decision contexts specific to IWRM).
- it facilitates of knowledge transfer, training, communication, dissemination and collaboration between the scientific groups, decision makers and other stakeholders, considering also the actual “water demand and supply” pressures and behaviors of different stakeholders involved.

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