

Centro Euro-Mediterraneo per i Cambiamenti Climatici



ICARUS – IWRM for Climate Change Adaptation in Rural Social Ecosystems in Southern Europe

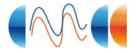
FEEM Venice, 13 October 2011

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The problem



Water resource management: significant challenge for the development of populations in Southern Europe Increasing demand for water: Irrigated agriculture Intensive urbanisation Tourism Less water availability – CC Reduced food security, agro-industrial employment at risk, damage to the ecosystem, increased desertification, biodiversity loss... Need for policies to increase the efficiency of water management



Project goals



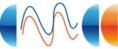
Increase efficiency of water use in agriculture

- Analysis of biophysical, social, economic, and institutional dimensions of sustainable water management
- Identification of innovative adaptation strategies, practices and tools for saving water in irrigated production systems

Supporting WFD implementation

- Exchange of experiences
- Broadening range of methods and tool for water managers
 - Evaluation of different methods
 - Enhance usability
 - Integrate CC's impact scenarios

Focus on IRRIGATION and WATER SAVING in the MEDIUM term (2010-2025)



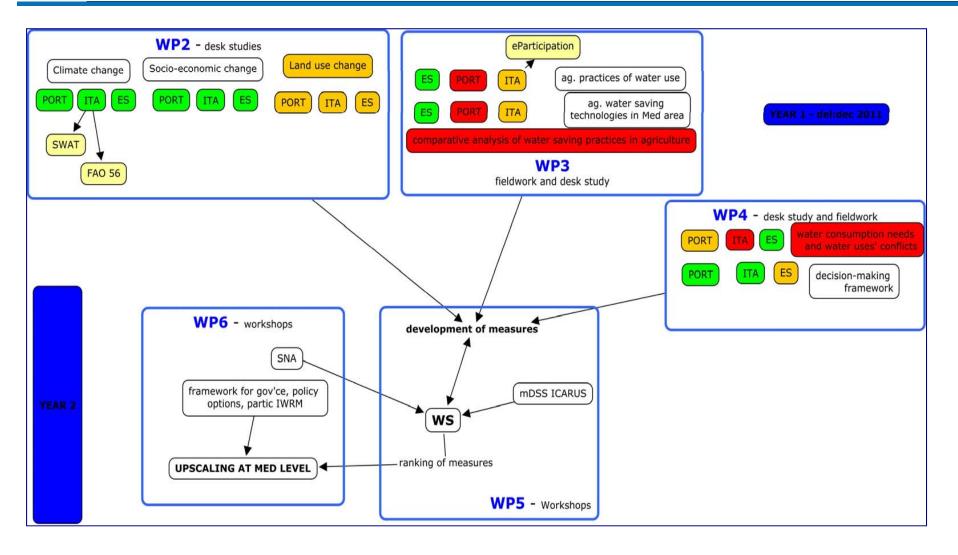
The case studies

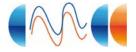




Project's activities

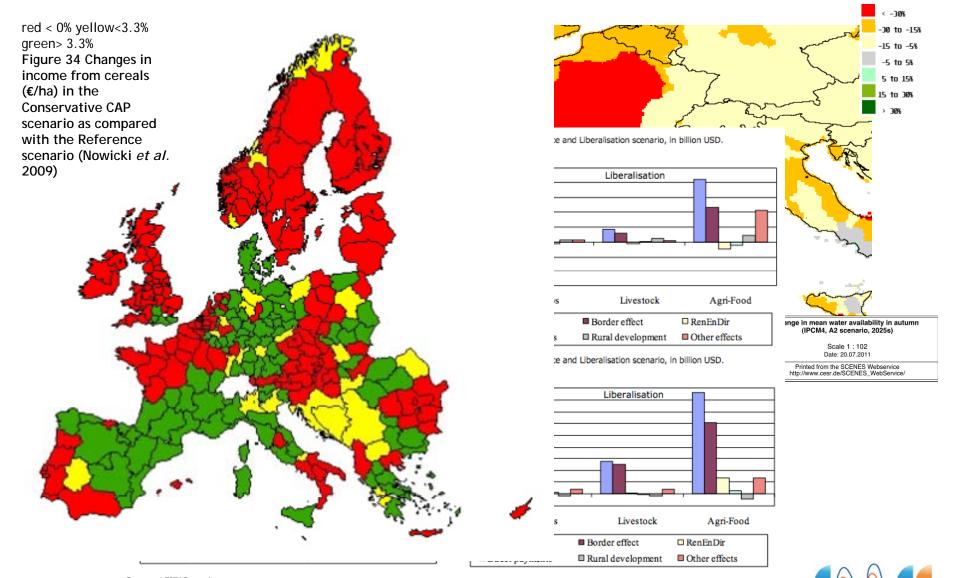




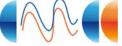


Preliminary results from WP2



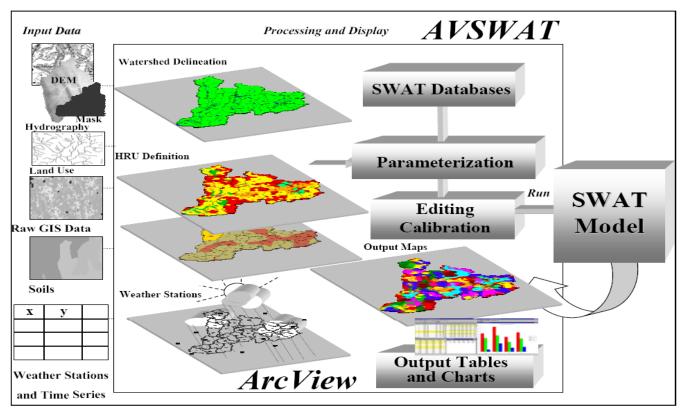






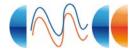
Ex. of current activities: the SWAT model



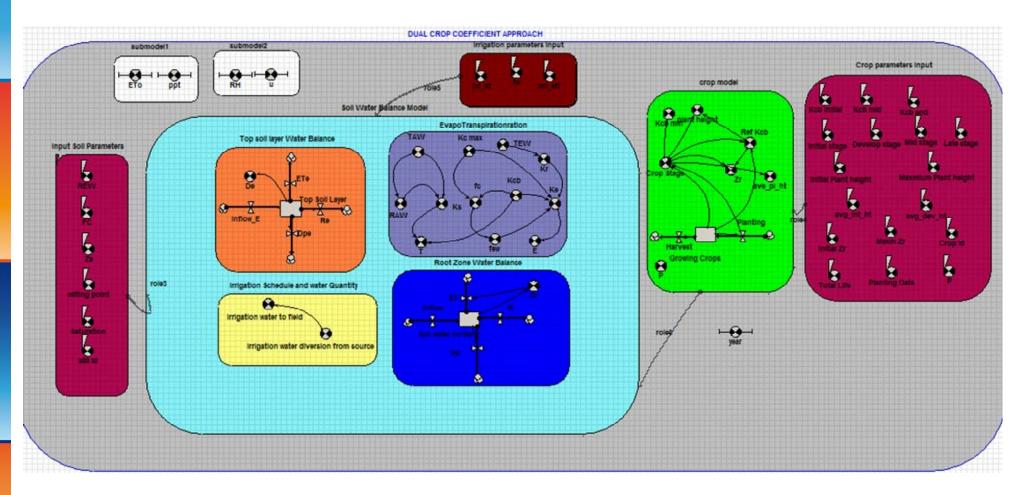


Soil and Water Assessment Tool

Physically based Dynamic model Basin scale simulations Simulations down to daily scale



Side efforts: Agro Hydrological model in Simile



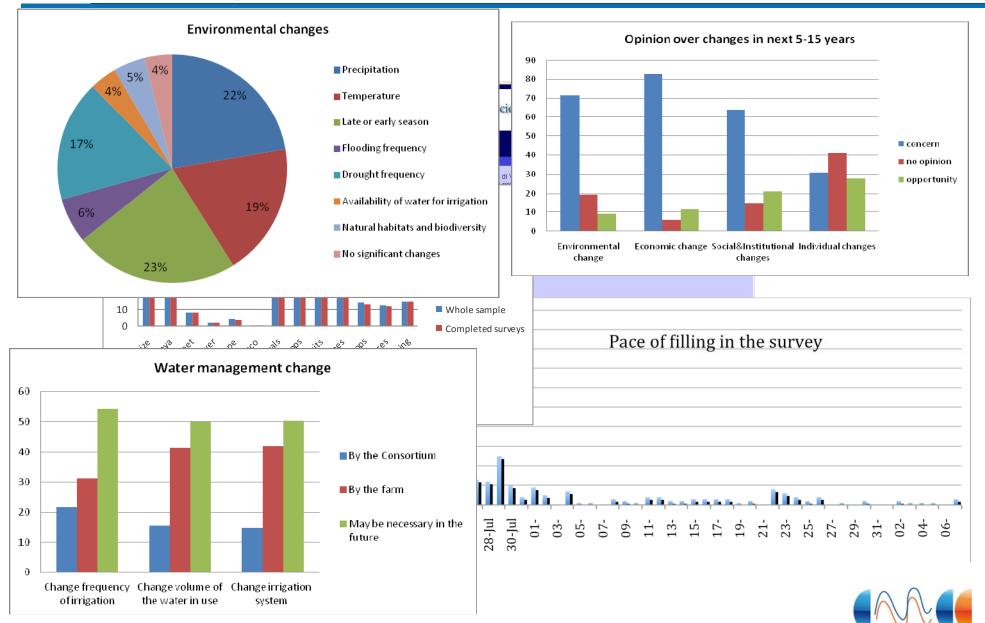
Physically based Dynamic model Field level Simulations down to daily scale



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Experimenting a new approach: eParticipation



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Thank you!

http://www.cmcc.it/research/research-projects/icarus-1/icarus

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