

The project has developed an **operational web-based tool for real-time forecast of irrigation water requirements** to support parsimonious water management providing real-time and forecasted soil moisture behavior at high spatial and temporal resolutions with forecast horizons from few up to thirty days. The system supports users **from water authorities to single farmer**. The tool combines **satellite** monitoring of soil moisture and of evaporative fluxes, quantitative **meteorological forecast** and distributed **hydrological modelling** of soil water balance and crop water needs. **Economic impacts** are evaluated starting from single farm to larger irrigation districts considering not only the role of water and energy saved in financial terms, but also the environmental benefit due to a parsimonious use of the water. The proposed methodology has been applied in different case studies in **Italy, in the Netherlands, in China and Spain**, characterized by different climatic conditions, water availability, crop types and irrigation schemes.



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RISPARMIO IDRICO IN AGRICOLTURA

SIM project

SMART IRRIGATION FROM SOIL MOISTURE FORECAST USING SATELLITE AND HYDRO –METEOROLOGICAL MODELLING

final meeting
12 June 2019

Ministero delle Politiche Agricole Alimentari, Forestali e del Turismo
conference room
Palazzo dell'Agricoltura
Sala Cavour (cosiddetto Parlamentino)
Via XX Settembre 20, Rome (Italy)



Per motivi organizzativi si chiede di confermare la partecipazione ai seguenti indirizzi
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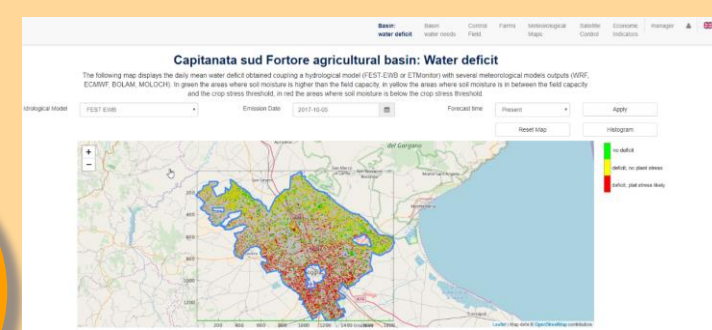
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Program

SIM project final results presentations

12
June
2019



hour 9:30

Greetings - *prof. M. Mancini*, SIM project coordinator

hour 9:40

Parsimonious irrigation EU and National Commitment
Dott. G. Blasi, Head of Department of Italian Agricultural Ministry

hour 10:00

SIM project parsimonious irrigation web dashboard
- *M. Mancini*, Politecnico di Milano (Italy)

hour 10:15

Economic efficiency of SIM: report of two case studies
- *G. Branca* University of Tuscia (Italy)

hour 10:40

SIM water balance models and interaction with satellite and meteorological forecasts data

- *C. Corbari* (Politecnico di Milano, Italy), *L. Jia* (RADI-CAS, China)

hour 11:00

Satellite data for real time fine resolution hydrological modelling
- *J. Sobrino* (University of Valencia, Spain), - *M. Menenti* (TUDelft, The Netherlands)

hour 11:30

Meteo-hydrological forecasts for precise irrigation

- *R. Salerno* (MOPI-CEM), - *R. Romero* (University of Balearic Islands (Spain)),
A. Ceppi (Politecnico di Milano)

hour 12:00

SIM impacts on irrigation distribution aqueduct: example of Capiatanta consortium

- *L. Nardella* (Capitanata irrigation consortium Italy), *C. Maiorano* (MMI, Italy)

12:25 Consegna targhe di ringraziamento ai consorzi e alle aziende – Plate presentation to Consortia and farms

12:30-14:00 lunch



Round table - Tavola rotonda (in Italian) L'esperienza dei consorzi per una gestione sostenibile dell'acqua irrigua Chair Raffaella Zucaro (CREA)

14:00 - E. Gatto - Politiche comunitarie per gli interventi irrigui e risparmio idrico

14:15 - F. Contarin (Regione Veneto) - Piani di sviluppo rurale regionale e risparmio idrico

14:30 - De Filippo/ Guzzetti (Aziende Capitanata) - Gestione irrigua parsimoniosa: il punto di vista aziendale

14:45 M. Gargano - (Direttore ANBI) - Risparmio irriguo: tra mondo ideale e mondo reale

15:05 Consorzi irrigui: Pregi e problematiche nell'uso dei sistemi di gestione e risparmio irriguo – interventi programmati

16:50 Marco Mancini – Conclusione lavori