The work aims at developing an **operational 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 combines **satellite monitoring** of soil moisture and of evaporative fluxes, quantitative **meteorological forecast** and detailed **distributed hydrological modelling** of soil water balance and **crop water needs**, considering the **economic impacts** of water savings.

The system will be a prototype version of a world wide web platform, that will support users in parsimonious irrigation water management from water authorities to single farm.

www.retsif.polimi.it

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RET-SIF project

REAL TIME SOIL MOISTURE FORECAST FOR SMART IRRIGATION

Mid-term meeting

13 June 2019

ANBI conference room
Via Di S. Teresa, 23
Rome (Italy)

ERANETMED

RET-SIF

REAL TIME SOIL MOISTURE FORECAST FOR SMART IRRIGATION

Coordinator:
Politecnico di Milano (Italy)

Team:
University of Valencia (Spain)
University of Balearic Islands (Spain)
Università degli Studi della Tuscia (Italy)
Meteo Operations Italia srl (Italy)
Associazione Nazionale Consorzi di gestione e tutela del territorio e acque irrigue (ANBI) (Italy)
Chouaib Doukkali University (Morocco)
Centre d"Etudes Spatiales de la BIOsphère (France)
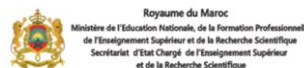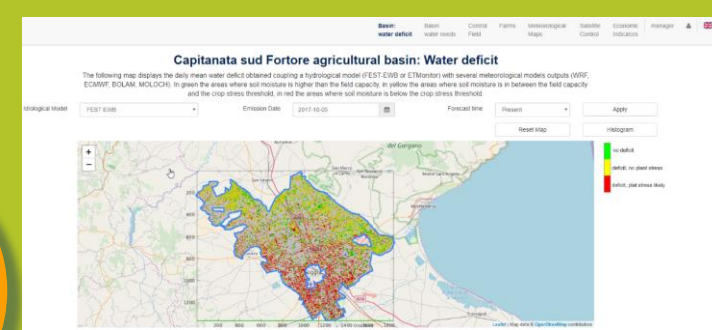RADI-Chinese Accademy of Science (China)

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Program

13 June 2019

hour 9:30

Greetings
-*prof. Marco Mancini , RET-SIF project coordinator*
-*Dott. Massimo Gargano, Director of ANBI*

hour 9:45

RET-SIF project objectives, deliverables and next steps, lesson learned from the SIM project
- *Marco Mancini*, Politecnico di Milano (Italy)

hour 10:00

Water (energy-crop) balance models and interaction with satellite data: improvements from SIM
- *C. Corbari* (Politecnico di Milano, Italy), *L. Jia (RADI-CAS, China)*

hour 10:20

Water balance modelling with satellite data
- *K. Labbassi* (Doukkala, Morocco),

hour 10:40

Satellite soil moisture data
- *A. Albitar , Y. Kerr* (CESBIO, France),

hour 11:00

Satellite LST and vegetation data: improvements from SIM
- *J. Sobrino (University of Valencia, Spain),*

hour 11:20

Meteorological forecast for precise irrigation: improvements from SIM
- *R. Salerno (MOPI-CEM), - R. Romero (University of Balearic Islands (Spain)*

hour 11:40

Crop modelling
- *R. Casa*, Università della Tuscia (Italy)

hour 12:10

Economic efficiency: improvements from SIM
- *G. Branca,* Università della Tuscia (Italy), R. Zucaro (CREA)

12:30-14:00 lunch