



# Seminari IRSA



Martedì 4 Giugno 2024 ore 15:00

## New technologies for water resources management: insights from Morocco

**Prof. Lhoussaine Bouchaou**

Senior professor, Ibn Zohr University of Agadir (Morocco) ; affiliated professor, International Water Research Institute (IWRI) of University Mohamed 6 Polytechnic (UM6P), Benguérir (Morocco)  
<https://orcid.org/0000-0003-4909-5023>

The Moroccan economy is classified as a developing economy with a strong agricultural component, which consumes about 85% of its water resources. The presentation will mainly focus on water saving in agriculture using a synergistic combination of new technologies, tools and approaches. This combination includes new technologies for in situ measurement, aerospace observations, multidisciplinary modelling, and the principles of collective intelligence for the co-construction of a model for the sustainable management of water resources.

## Impact of climate change on water resources: Bin El Ouidane Case Study (Morocco)

**Prof. El Mahdi El Khalki**

Assistant Professor, International Water Research Institute (IWRI) of University Mohamed 6 Polytechnic (UM6P), Benguérir (Morocco)  
<https://orcid.org/0000-0001-9337-4367>

Mediterranean countries are strongly affected by reduced surface water resources. The presentation concerns the climate change impacts on runoff supply to the Bin El Ouidane dam in Morocco, the largest in the country in terms of hydropower production. A water balance model coupled with a stochastic calibration method is used to reproduce discharge. Five regional climate models from the EURO-CORDEX initiative are considered to estimate the climate change impacts on surface runoff for the Representative Concentration Pathway (RCP4.5) and RCP8.5 scenarios.

Per ulteriori informazioni: [annamaria.degirolamo@cnr.it](mailto:annamaria.degirolamo@cnr.it)

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