



REGIONAL PROCESS SESSION DESCRIPTION FORM 2.

10TH WORLD WATER FORUM

Regional Session Code and Title:

RM 6 Regional Mediterranean Process - RM6. Digitalization and new solutions for rational water use

Wednesday 22 May 2024 Schedule 13h00 - 14h30

Regional Session Coordinators (Name, Position, Organization, email, mobile number):

Jean-Marc PHILIP, Société du Canal de Provence, jean-marc.philip@canal-de-provence.com, +33 674 55 0627

Regional Session Description including objectives and expected outcomes (500 words maximum):

The problem of managing conventional and non-conventional water resources is a vital issue for mankind and the environment, but above all it is particularly complex to tackle because of (i) the specific nature of each territory, (ii) the qualitative and quantitative needs of each use, whether domestic, urban, agricultural, industrial, leisure or recreational, (iii) the spatio-temporal variability, often sudden, of the availability of resources, which often contradicts the needs of the various uses, particularly during periods of drought, (iii) the spatio-temporal variability, often involuntary, in the availability of resources, which often contradicts the needs of the various uses, especially during periods of drought, and (iv) the absolute need to preserve and restore all ecosystems, if only to preserve the ecosystem services they provide. This sustainable management is made more complex by population growth, rapid urbanisation, the impact of climate change and pollution. To meet these challenges, it is clear that innovative solutions such as digitisation, AI, new technological solutions and the contribution of human and behavioural sciences will play an essential role in the rational management and preservation of water resources. As we follow the water diagonal, we can see every day how innovative solutions are providing relevant answers to the challenges facing project owners and decision-makers:

- Solutions for monitoring water resources and their evolution over time or geographically are developing. They now offer predictive models, often quantitative, and more recently qualitative. The impact of climate change on the flow of a body of surface water, on the level of a body of groundwater and on changes in water quality at decadal intervals will be an integral part of the range of solutions that catchment managers will need to take on board;
- Solutions for monitoring the efficient transport of water have been mastered in urban areas, and will become more widespread in rural areas. The development of sensors and inspection robots will facilitate the management of multi-use rural networks, just as they are changing the management of intra-city networks;
- Mastering the knowledge of water uses, their temporality and seasonality, is absolutely essential if we are to achieve the virtuous objectives of saving water resources. In rural areas, or on the scale of a catchment area, mastery of a 2-dimensional vision is vital. In this respect, the contribution of remote sensing will become a major tool for monitoring water use in a catchment area, and for providing decision-making aids to the various players involved.
- Finally, we are all seeing the emergence of solutions for analysing the overall impact of our water schemes, often based on multidisciplinary approaches. The development of Life Cycle Analysis, which has been perfectly mastered in the building industry and in the management of the water cycle, is proof of this. To feed such an analysis, it will be necessary to master the data, both in time and space.

Message to Bali from Tunis 5MWF → Prioritize innovations, technological and regulatory solutions, adapted to produce more and consume less. Resources-protection, Mix-hydric, Sobriety and Performance.

Detailed Regional Session Plan:

ESTIMATED TIMING	ITEM DESCRIPTION / ROLE	SPEAKERS	SPEAKERS STATUS (OK OR TBC)
13:00 - 13:05	Presentation and message of the Med Region to the Bali Forum Digitalization and New solutions for rational water uses: and introduction of the round table	JM. PHILIP, AQUA Valley jean-marc.philip@canal-de-provence.com	OK
13:05 - 13:30	conclusions of the Regional Process and the Mediterranean Water Forum (Tunis 2024) presentation of PRIMA foundation	- Octavi Quintana, Director of PRIMA Foundation (European Union) octavi.quintana@prima-med.org	OK
13:30 - 14:00	Panelists	<ul style="list-style-type: none"> - Smart irrigation system and satellite based, ME OSS Thomas Ferrero ferrerothomas@hotmail.com - Application of digital solutions int the region of Valencia IDRICA, Spain Chama Nebot - Presentation of the initiative “water scarcity” and intervention pillars of FAO Abdourahman MAKI Abdourahman.maki@fao.org - Use cases in Italia - Acquedotto Pugliese (AQP), Italy, Pier Paolo Abis, Director of Laboratories W&WW control p.abis@aqp.it 	OK OK OK OK
14;00 - 14h10	Focus on Indonesian use case	Use cases of remote sensing applications in Indonesia CLS Indonesia, Jean-Baptiste VOISIN	OK
14:10 - 14:30	Q/A with the panelists and Feed Back from the public	Moderator : JM. PHILIP	OK