Arid regions are known for their limited potentiality of water resources. The sustainable management of water resources in these areas is a permanent challenge, due to the growing demand, linked to population growth coupled with the negative impacts of climate change. The edition 2023 of GIRE3D is an opportunity for all water stakeholders to exchange methodologies adapted to the exploitation and management of water in such contexts. This edition will allow, among other things, to:

- Promote the dialogue between scientific research and professionals in the water sector.
- Create a platform for debate and exchange of experiences between the various national and international stakeholders on the theme of water in arid zones.

Organisation

The GIRE3D International Congress is co-organized by the Moroccan Committee of the International Association of Hydrogeologists (CM-AIH) and the Hydraulic Basin Agency of Sakia El Hamra and Oued Eddahab, in partnership with the Directorate of Research and Water Planning.
Venue
Laayoune is an Atlantic city in southern Morocco. The climate is mild, without excessive heat. Temperatures rarely exceed 28°C due to cool sea winds. The city is served daily from/by Casablanca by Royal Air Maroc (RAM)

Conference Thematics
- Water resources and climate change: adaptation and resilience,
- Coastal aquifers, quality, diagnosis and monitoring,
- Alternative resources and water technologies: desalination, artificial recharge, wastewater and reuse, collection of rainwater and fog,
- Water saving in agriculture: new technologies and management strategies,
- Exploration and exploitation of deep water resources,
- Quality, Vulnerability and Protection of Water Resources,
- Chemical and isotopic tracers: contribution to the functioning of hydrological systems,
- Numerical Modeling, Geo-information, Remote sensing, Geomatics, Artificial Intelligence...
- Water Heritage, Governance and Future Challenges at the Basin Scale
- Water and Society: The Need for Participatory Water Management and a Sustainable Society

Congress activities
- Thematics sessions
- Poster session
- Excursions: Laâyoune desalination station, STEP, deep drilling site, Saguia El Hamra dam

Conference Proceeding-Publication
ALL accepted and presented papers will be published in E3S Web of Conferences & Book Geo-information:
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