



نحو مرافق مياه ذكية ورشيقة | Towards Smart & Agile Water Utilities

أسبوع المياه العربي السادس | 6<sup>TH</sup> ARAB WATER WEEK

٥ - ٩ آذار ٢٠٢٣ | 5<sup>TH</sup> – 9<sup>TH</sup> MARCH 2023

عقان - الأردن - فندق سانت ريجيس | THE ST. REGIS HOTEL AMMAN - JORDAN



## CONFERENCE TOPICS

### 6th Arab Water Week Topics:

Under the title of **“Towards Agile and Smart Water Utilities”**, the scientific committee is seeking contributions from the Arab region and international water community addressing the following topics:

#### \* Digitization at Water and Wastewater Utilities:

- Management Information Systems (MIS) and Enterprise Resource Planning (ERP).
- Water Information Systems (WIS).
- Laboratory Management System (LMS).
- Supply Chain, Procurement and Inventory System.
- Asset Management System.
- SCADA System as a tool for operating and monitoring.
- GIS Application as a tool for network system maintenance and customer service.
- Adopting Cost centers and HR & payroll System.
- Integration of Customer Information System (CIS), GIS, Billing, ERP and Asset Management System.
- Smart Solutions in Managing Utilities:
  - Call Centers
  - Mobile Applications
  - Smart Solutions in Managing Cities

#### \* Water Systems:

- Water Safety Plan (WSP).
- Water Quality and Laboratory Management.
- Governance for Groundwater Management.

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## CONFERENCE TOPICS

- Water Scarcity Management.
- Non-Revenue Water (NRW).
- Desalination Technology.

#### \* Sanitation Systems:

- Sanitation Safety Plan (SSP).
- Treated Wastewater and Grey Water uses:
  - Reuse in agriculture.
  - Reuse in Artificial Recharge.
- Industrial Wastewater Management and Monitoring.
- Residual Pharmaceutical Industry in Wastewater System.
- Sludge Treatment and Reuse.
- Wastewater Quality and Laboratory Management.
- Governance, Legislations and Policies in Wastewater Management and Reuse.

#### \* Water, Energy, Environment and Food (WEEF) Nexus:

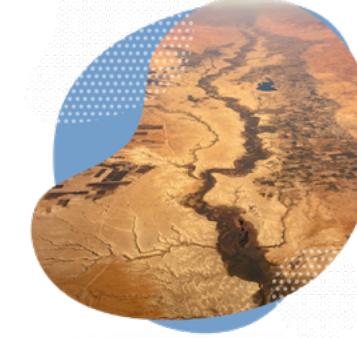
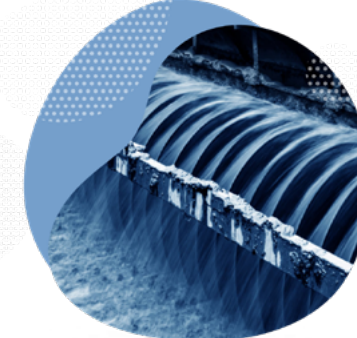
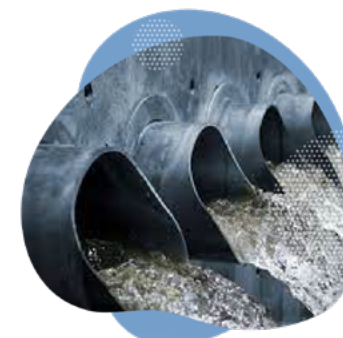
- Energy Efficiency, Bio Energy and Renewable Energy.
- Water, Energy, Environment and Food (WEEF) Nexus.

#### \* Knowledge Transfer for Utilities through:

- Capacity Building.
- Twinning and Match Making.

#### \* Water Diplomacy (Shared and Transboundary Water Resources)

#### \* Gender Mainstreaming in Managing Integrated Water Resources





## CONFERENCE TOPICS

### \* Integrated Water Resources Management (IWRM)

### \* Towards achieving SDG 6

### \* Managing Water Utilities through Crisis:

- Energy Consumption.
- Emergency Water Supply.
- Managing Cash-flow in Crisis.
- Managing Refugee Camps and Hosting Neighboring Communities.
- WASH towards Sustainability.
- COVID19- Impact on the Water Sector.

### \* Governance, Policies and tools in Water Management:

- National Water Master Plan.
- WEAP-MODFLOW as a Decision Support System (DSS) for Integrated Water Resources Management (IWRM).
- Water Allocation.
- Water Accounting.
- Water Budget.
- Water Demand Management (Developing Policies for Different Uses of Water).
- Financing and Investment Options.
- Projects Management.
- Legislations, Standards and Institutional Reform.
- Regulatory, Benchmarking and Key Performance Indicator (KPI).
- Management of Public Private Partnership (PPP):
  - Performance Based Contracts
  - BOTs Contracts

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## CONFERENCE TOPICS

- Management Contracts
- Improving environment and legislation to encourage PPPs

### \* Strategic Planning and Financial Modalities in Water Utility:

- Improving Efficiency towards Cost Recovery.
- Financial Strategies towards Sustainability.
- Generating Revenue through Tariffs Restructuring (Water for Poor).
- Resilience Building, Risk Informed Programming and Emergency Preparedness.

### \* Utilities towards Excellence:

- Utility toward Future.
- Aqua Rating for Utilities (International standard for the evaluation and improvement of water and wastewater utilities).
- Utility Assessment according to International Excellence Program.
  - European Framework for Quality Management (EFQM).
  - Global Star Rating (GSR).
  - Government Excellence Program (GEM).
- Technical Sustainable Management (TSM) for Water and Wastewater Facilities.

### \* Climate Change:

- Climate Change Adaptation and Mitigation.
- Impact on Water Resources and Environment.
- Impact on Coastal Cities and Utilities.
- Impact on Food Security.

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## CONFERENCE TOPICS

### 2nd Trenchless Arabia Topics:

Under the title of “**Second Trenchless Arabia**”, the scientific committee is seeking contributions from the Arab region and international water community addressing the following topics:

- Asset Management and Work Planning.
- Associated Technologies, Techniques and Equipment.
- Costs and Environmental Issues.
- Horizontal Directional Drilling.
- Microtunneling and Pipe Jacking.
- Pipe Ramming and Impact Mole.
- Auger Boring and Pilot Tube Microtunneling.
- Local Repairs and Grouting.
- Manhole Rehabilitation.
- Cured in Place Pipeliners.
- Spray-on Linings and Coatings.
- Spiral Wound Linings.
- Close-Fit Linings.
- Slip Linings (Loose Fit).
- Pipe Bursting and Splitting.
- Site Survey and Preparation.
- Testing & Assessments.

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