



## ITU Regional Workshop on “Prospects of Smart Water Management in Arab Region”

Khartoum-Sudan, 12 December 2017



### Objectives:

The workshop aims to discuss the increasing role of ICT technologies to manage water resources particularly for agricultural and urban uses in a smart city. Moreover, the workshop will shed light on the opportunities and challenges for expanding smart water management in the Arab region.

### Target Audience:

The workshop is targeting the participation of stakeholders involved in the planning and construction of smart cities, senior municipality managers, engineers working in IoT applications, service providers planning to deliver IoT and new technologies for smart solutions including smart water management. These events are also targeting policy makers and standards issuers as well as IT experts from the industry, government, academia and independent experts and consultants involved in the implementation of IoT projects for the development of smart cities and smart water management.

### *FINAL Agenda*

Time	Title
07:30 - 08:30	Registration
09:00 - 09:45	<b>Opening Ceremony</b> <ul style="list-style-type: none"> <li>- Eng. Ebrahim Alhaddad, Regional Director, ITU Arab Regional Office</li> <li>- Mr. Sami Yousef, Vice President, SUDATEL Telecom Group</li> <li>- Dr. Ahmed Hasan, Executive Director, SUDACAD</li> <li>- H. E. Mr. Mutaz Musa, Minister of Electricity and Water Resources, Sudan</li> </ul>
09:45 – 10:15	<b>Photo Group &amp; Coffee Break</b>
10:15 - 11:00	<b>Session 1: ICTs as Enabler for Smart Water Management: Challenges &amp; Opportunities</b> The session will give an overview of the role of ICTs as an enabler for smart water management in a city environment, examine how countries are implementing smart metering as well as address the challenges and opportunities of using ICTs as toll for water management.  <u>Speakers:</u> <ul style="list-style-type: none"> <li>- <b>ICTs for Water Management</b> by Eng Mustafa Al Mahdi, ITU Programme Administrator (BIO &amp; Presentation)</li> <li>- <b>Water Resources Challenges &amp; Opportunities</b> by Dr Mohamed Hasan Khalil, ITU expert (BIO &amp; Presentation)</li> </ul>
11:00 - 12:30	<b>Session 2: ICT solutions for real time smart water management</b> The session is aiming to present the ICTs technologies and architecture for real time smart water management.  <u>Moderator:</u> Dr Mudthir Suliman, SUDATEL TELECOM Group <u>Speakers:</u>

	<ul style="list-style-type: none"> <li>- <b>Integrated modelling of water demand and supply (The role of hydroeconomic models) by Mr Mayamiko Nkoloma, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>IoT as an Enabler for Smart Water Management by Eng Abderrazak HACHANI, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>ICT technologies and architecture for efficient Water Resources Management by Dr. Hesham Farouk, ITU expert (BIO &amp; Presentation)</b></li> </ul>
<b>12:30 - 14:00</b>	<b>Lunch Break</b>
<b>14:00 - 15:00</b>	<p><b><u>Session 3: Standardization Activities and Gaps for Smart Water Management:</u></b> This session will explore a proposed framework of standards and methodologies for interoperability within Smart Water Management (SWM).</p> <p><b><u>Moderator:</u> Dr Mohamed Hasan Khalil, ITU expert</b></p> <p><b><u>Speakers:</u></b></p> <ul style="list-style-type: none"> <li>- <b>ITU standardization works on SWM by Mr Gopikrishna S Garge, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>Standardization Gaps for Smart Water Resources Management by Mr Mayamiko Nkoloma, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>ICT standards for SWM integration by Dr. Hesham Farouk, ITU expert (BIO &amp; Presentation)</b></li> </ul>
<b>15:00 - 16:00</b>	<p><b><u>Session4: Smart Water Management Technologies and Policies in Agriculture and Irrigation:</u></b> This session will examine best practices on smart water management policies which have been implemented by certain countries.</p> <p><b><u>Moderator:</u> Eng Mustafa Al Mahdi, ITU Programme Administrator</b></p> <p><b><u>Speakers:</u></b></p> <ul style="list-style-type: none"> <li>- <b>Smart technologies for water management in Support of Agricultural Production and Irrigation by Dr Mohamed Hasan Khalil, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>Best practices on SWM policies and projects by Mr Mayamiko Nkoloma, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>Best practices on SWM policies and projects by Dr. Hesham Farouk, ITU expert (BIO &amp; Presentation)</b></li> <li>- <b>The role of smart water management in transforming large villages into cities by Dr. Hassan Hasaballah Saied Abdullah – General Manager of International Charity Organization for Water (BIO &amp; Presentation)</b></li> <li>- <b>Satellite based ICT for improved crop production in Gezira Scheme by Dr Younis A. Gismalla (BIO &amp; Presentation)</b></li> </ul>
<b>16:00 - 16:30</b>	<p><b>Closing Remarks:</b></p> <ul style="list-style-type: none"> <li>- <b>ITU</b></li> <li>- <b>SUDACAD</b></li> </ul>