



**ITU-SUDACAD Regional Forum on Internet of Things for
Development of Smart and Sustainable Cities**

Khartoum-Sudan, 13-14 Dec. 2017



Objectives:

The aim of this forum is to discuss the role of the Internet of Things (IoT) for development and creating a smart world that facilitates sustainable economic development along with a high quality of life within smart sustainable cities. In addition, the forum will discuss the role that Internet of Things (IoT) plays in relation to converging technologies for building smart sustainable cities with integrated ecosystems.

Target Audience:

This forum is targeted at smart city stakeholders, senior municipality managers and engineers working in IoT applications, service providers planning to deliver IoT solutions, and policy and standards makers as well as IT experts from the industry, government, academia and experts and consultants involved in the implementation of IoT projects for the development of smart cities.

FINAL Agenda

Day1, Wednesday 13 December 2017

08:00 - 09:00	Registration
09:00 - 09:45	<p>Opening Ceremony:</p> <ul style="list-style-type: none"> - Eng. Ebrahim Alhaddad, Regional Director, ITU Arab Regional Office - Mr. Sami Yousef, Vice President, SUDATEL Telecom Group - Dr. Ahmed Hasan, Executive Director, SUDACAD - Dr. Tahani Abd Allah Attia, Minister of Communications & Information Technology, Sudan
09:45 - 10:00	Group Photo & Coffee Break
10:00 - 11:30	<p>Session 1: Internet of Things (IoT) for Smart and Sustainable Cities (SSC): Challenges and Opportunities</p> <p>This session is aiming to discuss the IoT its opportunities and challenges faced by policy makers and regulators during the adoption of the IoT ecosystem and for the implementation of the Smart Sustainable Cities.</p> <p>Speakers:</p> <ul style="list-style-type: none"> - ITU Works and Activities on Smart Sustainable Cites & IoT by Eng Mustafa Al Mahdi, ITU Programme Administrator (BIO & Presentation) - Massive IoT vs. Critical IoT and Policy and regulation challenges by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation)

<p>11:30 - 12:30</p>	<p>Session 2: Ecosystem of IoT and Smart and Sustainable Cities</p> <p>This session is aiming to provide the various social, economic, structural, technological, and regulatory contexts of the Smart and Sustainable Cities.</p> <p>Moderator: Eng. Mustafa Al Mahdi, ITU Programme Administrator</p> <p>Speakers:</p> <ul style="list-style-type: none"> - Models for Smart and Sustainable Cities (Economic parameters, Social, Environmental and Cultural parameters) by Dr. Hesham Farouk, ITU expert (BIO & Presentation) - Elements of the Ecosystem of Smart and Sustainable Cities by Mr Mayamiko Nkoloma, ITU expert (BIO & Presentation) - Emerging and Environmental Trends and Challenges of water resources in smart cities by Dr Mohamed Hasan Khalil, ITU expert (BIO & Presentation) - Key Success Factors and Dependencies for IoT Ecosystem of SSC by Eng Tarig Mohamed Hassan Khalil, CIO of Sudatel Telecom Group
<p>12:30 - 14:00</p>	<p>Lunch Break</p>
<p>14:00 - 15:30</p>	<p>Session 3: Security, Privacy and Trust in IoT systems integration for Sustainable Smart Cities Implementation</p> <p>This session aimed at raising awareness about security, privacy, trust, data protection and the techniques and policies to mitigate processes that guarantee privacy and trust in Smart Cities.</p> <p>Moderator: Eng Tarig Khalil, CIO, SUDATEL Telecom Group</p> <p>Speakers:</p> <ul style="list-style-type: none"> - IoT security requirements & Scenarios and techniques for SSC by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation) - Privacy and trust in IoT & The need for enforcement policies by Mr Gopikrishna S Garge, ITU expert (BIO & Presentation)
<p>15:00 - 16:30</p>	<p>Session 4: IoT Architecture for SSC Governance</p> <p>This session is aiming to discuss how IoT infrastructures help create more efficient and cost effective service delivery systems, enhance transportation networks, enhancing health services and its solutions, reducing traffic congestion, promote sustainability and keep citizens safe.</p> <p>Moderator: Dr Mohamed Hasan Khalil, ITU expert</p> <p>Speakers:</p> <ul style="list-style-type: none"> - IoT For a Better Life by Eng Abderrazak HACHANI, ITU expert (BIO & Presentation) - SSC ICT Architecture framework by Dr. Hesham Farouk, ITU expert (BIO & Presentation) - Medical Internet of Things (mIoT); 2020 and beyond, Dr Ahmed Almobarak (BIO & Presentation)

Day2, Thursday 14 December 2017

09:00 - 10:30	<p>Session 5: The Internet of Things for development of SSC: From standards Point of View</p> <p>This session will provide a platform to discuss standardization trends with regard to IoT ecosystem. It will also provide an opportunity to exchange views on open source, big data, semantic technologies and IoT.</p> <p>Moderator: <u>Dr Mustapha Benjillali, SUDACAD expert</u></p> <p>Speakers:</p> <ul style="list-style-type: none">- Role of standards and standards defining organizations (SDOs) by Eng Asim Abdelwahab Abdorabo, CTO SUDATEL (BIO & Presentation)- Standardized architectures and important standards defining organizations by Mr Gopikrishna S Garge, ITU expert (BIO & Presentation)- Exploring interoperability between architectures of different SDOs by Mr Gopikrishna S Garge, ITU expert (BIO & Presentation)
10:30 - 11:00	Coffee Break
11:00 - 12:30	<p>Session 6: Interoperability, Integration, and Interconnection of Internet of Things Systems</p> <p>The aim of this session is to investigate the interoperability, integration and interconnection in the IoT.</p> <p>Moderator: <u>Dr. Hesham Farouk, ITU expert</u></p> <p>Speakers:</p> <ul style="list-style-type: none">- IoT and multi-layer interoperability challenges by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation)- Integration and interconnection in the IoT eco-system by Dr Mudthir Suliman, SUDATEL (BIO & Presentation)- IoT4 SCC Open problems and challenges by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation)
12:30 - 14:00	Lunch Break
14:00 - 15:30	<p>Session 7: RFID & IoT adoption for Smart Cities</p> <p>The aim of this session is to provide awareness about how IoT and mainly RFID technologies will play a central role in Smart Cities.</p> <p>Moderator: <u>Mr Gopikrishna S Garge, ITU expert</u></p> <p>Speakers:</p> <ul style="list-style-type: none">- RFID technologies: opportunities and limitations by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation)- RFID Adoption in Smart City & Selection Criteria by Eng Abderrazak HACHANI, ITU expert (BIO & Presentation)- Alternative and/or complementary solutions (WSN, LWPAN, 5G, ...) by Dr Mustapha Benjillali, SUDATEL Expert (BIO & Presentation)

<p>15:00 - 16:30</p>	<p>Session 8: IoT4SSC Implementation: Members and stakeholders experiences</p> <p>This panel session is aiming to share the members and stakeholders experiences on best practices on IoT for smart cities development.</p> <p>Moderator: Eng Mustafa Al Mahdi, ITU Programme Administrator</p> <p>Speakers:</p> <ul style="list-style-type: none"> - Smart City Water Management based IoT practical experiences by Mr Mayamiko Nkoloma, ITU expert (BIO & Presentation) - Smart technologies for Smart Water in the smart cities: Country experiences by Dr Mohamed Hasan Khalil, ITU expert (BIO & Presentation) - Home automation and security systems solutions based IoT, Mr Mohamed Salah Siddig, General Manager & Owner of SMART HOME
<p>16:30 - 17:00</p>	<p>Wrap up & Closing Remarks:</p> <ul style="list-style-type: none"> - Eng. Mustafa Al Mahdi, ITU Representative - Mr. Sami Yousef, Vice President, SUDATEL Telecom Group - Dr. Ahmed Hasan, Executive Director, SUDACAD - Dr. Tahani Abd Allah Attia, Minister of Communications & Information Technology, Sudan - H. E. Hassbo Mohammed Abdelrahman, Vice President of Republic of Sudan