ITU Regional Week on "Emerging Technologies" for Sustainable Development and Digital Transformation in the Arab Region

Dubai, UAE, 26-29 August 2019

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ITU Week on "Emerging Technologies" for Regional Development in the Arab Region

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Draft Programme

GSMA Capacity building

26-27 August 2019

"Arab IoT Challenge"

Sub-regional Hackathon for the Gulf region on IoT, Big Data and Smart Cities

26-27 August 2019

4th ITU Annual Forum on "IoT, Big Data, Smart Cities and Societies" for Arab region

28-29 August 2019

ITU-GSMA 5G Capacity Building Training programme

26-27 August 2019

Course Overview

The mobile industry is preparing to embark on the transition to fifth generation (5G) technology, which will build on the achievements of 4G while also creating new opportunities for innovation. 5G will usher in a new era that will see connectivity become increasingly fluid and flexible. This course covers the key aspects of 5G technology and examines the role governments and regulators can play in helping unlock the benefits of future 5G services for their citizens.

Course Objectives

• Learn about the underlying technologies and concepts associated with 5G.
• Discover the key differences between 5G and previous generations of mobile technology.
• Understand how governments and regulators can help accelerate the development of 5G technology and services in their countries.

Eligibility to participate

This UKTA accredited course is exclusively available free of charge to regulators, policymakers, government and ministerial officials of the regional ITU member states.

Day 1 - 26th August 2019

08:30 – 9:00	Registration
9:00 – 9:30	**Welcome Remarks:** - **ITU** - **GSMA** - **TRA-UAE**
9:30 – 9:50	**Introducing the 5G Era**
10:00 – 11:00	**The Development of Mobile Technology** - What is 5G? - 4G versus 5G
11:00 – 11:15	**Break**
11:15 – 12:30	**The Global Status of 5G and Forecasts for Future Growth** - 5G business models
12:30 – 13:30	**Lunch**

13:30 – 14:45	Initial Use Cases
	• Enhanced Mobile Broadband
	• Fixed Wireless Access
14:45 – 15:00	Break
15:00 – 16:00	New Use Cases
	• Internet of Things
	• Ultra-Reliable Low-Latency Communication
16:00 – 17:00	Q & A

Day 2 - 27th August 2019

9:30 – 9:50	Review of Day 1
09:50 – 11:00	Spectrum and RF-EMF
	• The global status of spectrum for 5G
	• 5G and RF-EMF
11:00 – 11:15	Break
11:15 – 12:30	The Capacity Challenge
12:30 – 13:30	Lunch
13:30 – 15:00	2G/3G Rationalization
15:00 – 16:00	Group Discussion and Q & A
16:30	Feedback Completion and Certificate Ceremony

4th ITU Annual Forum on "IoT, Big Data, Smart Cities and Societies" for Arab region
28-29 August 2019

08:30-09:00   Registration

09:00-09:15   Welcome remarks:

- ITU
- Dubai University
- NTRA-Egypt
- TRA-UAE

09:15-09:30   Award ceremony

09:30-10:00   Coffee Break and Group Photo

10:00-10:45   Keynote Speakers

- Intel
- GSMA (TBC)

10:45-12:00   Session1: Potential roles of 5G networks and IoT in the Arab Region

The session will focus on technical aspects and potential roles of 5G networks and IoT and their deployments in the Region in order to support digital economy.

Moderator: Intel (TBC)

Panelists:

- Role of 5G and Internet of Things (IoT) in the Digital Economy
- Potential of 5G and IoT and networks
- Emerging technologies and spectrum implications:
- Sub topic to be added

12:00-13:30   Lunch Break

13:30-14:30 Session2: Enabling environment for 5G and IoT in the Arab Region

The session is to highlight the key issues and responses for regulators and policy-makers to consider for formulating plan, policies and strategies to stimulate investment in 5G and IoT networks. In addition, the session aims to spotlight on 5G's spectrum availability and allocation, technology enablers, available terminals and devices for IoT in the Arab Region.

Moderator: Eng Mustafa Al Mahdi, ITU

Panelists:

- Regulatory aspects of IoT and 5G:
- Telecom regulatory framework for IoT and 5G
- Key enablers for the digitalization of IoT and 5G
- Enabling policies for 5G and IoT

14:30-15:30 Session3: Paving the Way for Big Data for Development

This session will shed light on the opportunities of Big Data for Development in the Arab region and more importantly will address how to create enabling environments to launch developmental applications of Big Data across all fields.

Moderator: Dr Nasser Kettani, ITU Consultant

Panelists:

- Big Data in Academic Research
- Capacity building for Big Data
- Big data in education
- Topic to be added: Dubai University

Day2- Thursday 29th August 2019

09:00-10:30   Session4: Deployment Strategies in IoT for Smart Cities Implementation: Coverage and connectivity issues and challenges

This session is aiming to discuss the IoT related 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. In addition, the session will explore key requirements from industry players to build successful smart and sustainable cities strategies including different types of IoT applications and services such as healthcare, home automation, disaster recovery, and industry automation. Moreover, the session will showcasing IoT products and solutions that are changing the way the world communicates.

Moderator: Eng Mohammed Aboud, Co-Founder and CEO Global Innovation and Entrepreneurship (GIE)

Panelists:

- Challenges in deploying the IoT services in smart cities:
- IoT Applications and Services
- Development of IoT and Smart cities: Industry perspective

11:00-12:30   Session5: 5G, AI and IoT for Digital Transformation Acceleration

The session is aims to shed light on How are 5G, AI and IoT accelerating digital transformation, What is digital transformation doing for business today and what will it deliver in the future and the milestones and roadmap for the future digital transformation in Arab Region.

Moderator: TRA-UAE (TBC)

Panelists:

- 5G & AI for Digital transformation acceleration
- Internet of Things Solutions in the Digital Transformation
- Latest technologies and application of digital transformation:
- An overview of industry attitudes toward and adoption of IoT for digital transformation

12:30-14:00 Lunch Break

14:00-15:00   Session6: How are IoT and Smart Cities Influencing Industry 4.0

IoT and Smart Cities data and services that will change future production, logistics, and work processes. This means that the evolution of the IoT has gone beyond Internet-connected applications in recent years with the integration of different technologies such as machine learning, embedded systems, and wireless connection.

Moderator: NTRA-Egypt

Panelists:

- The Role and Impact of Industry 4.0 and the Internet of Things
- Industry 4.0 as a part of Smart Cities
- Intelligent Manufacturing in the context of Industry 4.0

15:00-15:30   Session7: Forum's Wrap-up and closing
Finalisation of Recommendations and closing remarks

- ITU
- University of Dubai
- TRA-UAE