

**ITU Regional Development Forum 2019 (RDF-ARB)**  
**Beirut – Lebanon, 19 March 2019**

# **Report on the Implementation of WTDC-17 Outputs**

ITU Arab Regional Office  
International Telecommunication Union



# WTDC-17 Outcomes

- ❖ The World Telecommunication Development Conference adopted in 2017 the Buenos Aires Action Plan (BaAP), aims to harmonize the work of the ITU Telecommunication Development Sector (ITU-D) with the strategic objectives of the ITU in order to help the countries to take full advantage of the benefits of information and communication technology, based on the Results-based management approach.
  
- ❖ The ITU-D strategic plan includes 4 objectives and 14 related outcomes:
  - **Objective 1: Coordination:** Foster international cooperation and agreement on telecommunication/ICT development issues
  - **Objective 2: Modern and secure telecommunication/ICT infrastructure:** Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs
  - **Objective 3: Enabling environment:** Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development
  - **Objective 4: Inclusive digital society:** Foster the development and use of telecommunications/ICTs and applications to empower people and societies for sustainable development

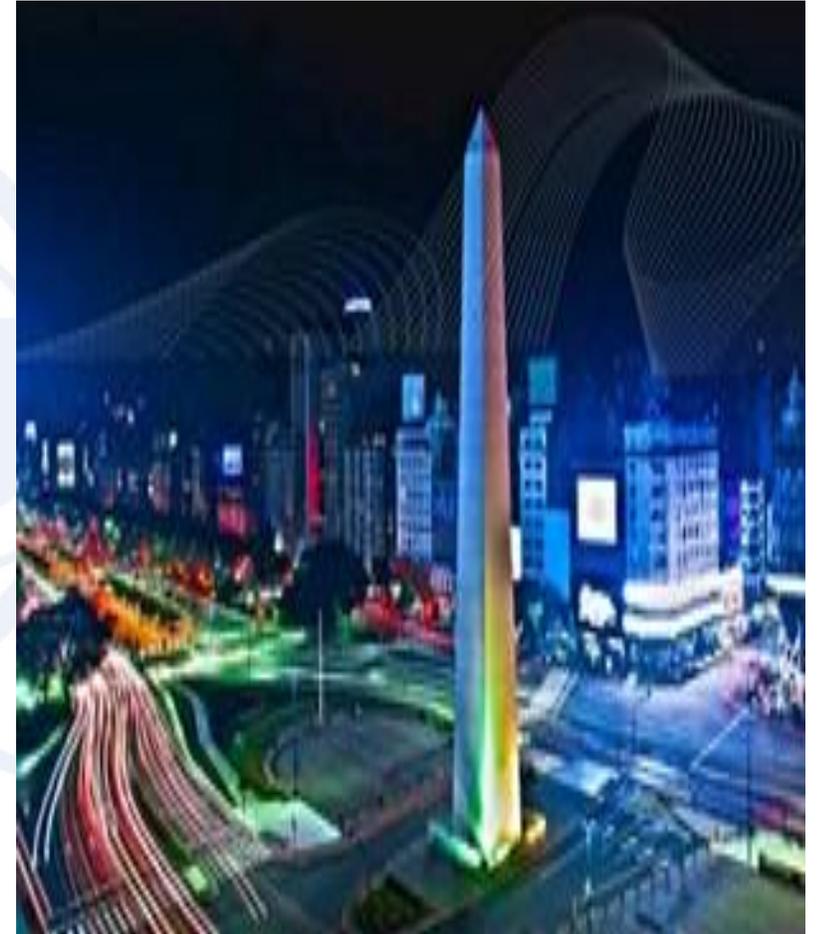


**ITU WTDC**  
**BUENOS AIRES 2017**  
9-20 October



## WTDC-17Outcomes

- ❖ **The Buenos Aires Action Plan follows a results-based structure, in which outcomes are identified for the objectives. Outcomes provide an indication as to whether the objective is being achieved.**
- ❖ **The framework includes the implementation of the Buenos Aires Action Plan, specifically its programmes, regional initiatives and study group Questions, will further contribute to the implementation of ITU resolutions and Recommendations relevant to the mandate of ITU-D during the period 2018-2021, including the ITU Connect 2030 Agenda, the World Summit on the Information Society (WSIS) action lines and the Sustainable Development Goals (SDGs) and associated targets.**



Implemented  
activities  
2018



## **Objective 1: Coordination: Foster international cooperation and agreement on telecommunication/ICT development issues**

**Output 1.1** World Telecommunication Development Conference (WTDC) and WTDC final report.

**Output 1.2** Regional preparatory meetings (RPMs) and final report of the RPMs.

**Output 1.3** Telecommunication Development Advisory Group (TDAG) and TDAG reports for the Director of BDT and for WTDC.

**Output 1.4** Study groups and guidelines, recommendations and reports of study groups.

- Study Group 1 (SG1) discuss issues of the enabling environment for the development of Telecommunications/ICT
- Study Group 2 (SG 2) discuss ICT Applications, Cybersecurity, Emergency Telecommunications and adaption to climate change

## Objective 1: Coordination: Foster international cooperation and agreement on telecommunication/ICT development issues

### Output 1.5 Platforms for regional coordination, including regional development forums (RDFs)

#### Regional Development Forum “RDF” towards the implementation of the outcomes of the WTDC-17

Date: 12-13 Feb. 2018

Venue: Algiers – People's Democratic Republic of Algeria

Number of Countries participating: 12

Number of participants: 150

In cooperation with the Ministry of Post, Telecommunications, Technologies and Digitalization (MPTTN)  
of the People's Democratic Republic of Algeria



### Output 1.6 Implemented telecommunication/ICT development projects and services related to regional initiatives.

## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

### Output 2.1 Products and services on telecommunication/ICT infrastructure and services, wireless and fixed broadband, connecting rural and remote areas, improving international connectivity

#### ITU Regional Forum on New Technologies

Date: 14-15 Feb. 2018

Venue: Algiers - People's Democratic Republic of Algeria

Number of Countries participating: 12

Number of Participants: 100

In cooperation with the Ministry of Post, Telecommunications, Technologies and Digitalization (MPTTN) of the People's Democratic Republic of Algeria



#### ITU Annual Forum on IoT, Smart Cities and Big Data

Date: 18 Dec. 2018

Venue: Kuwait City – Kuwait

Number of Countries participating: 10

Number of Participants: 60

In cooperation with the CITRA Kuwait



## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

### ITU/MAGHREB Workshop on Conformance & Interoperability (C&I) Testing for the Arab Region

Date: 26-27 June 2018

Venue: Algiers – People's Democratic Republic of Algeria

Number of Countries participating: 5

Number of Participants: 37

In cooperation with the Ministry of Post, Telecommunications, Technologies and Digitalization (MPTTN) of the People's Democratic Republic of Algeria



### Training on C&I for Mauritania

Date: 17-19 Dec. 2018

Venue: Nouakchott – Mauritania

Number of Countries participating: 1

Number of Participants: 15

In cooperation with Autorité de Régulation des télécommunication de la Mauritanie



### ITU Workshop on IXP

Date: 2 Oct. 2018

Venue: Manama – Bahrain

Number of Countries participating: 18

Number of Participants: 40

In cooperation with Telecommunication Regulatory Authority (TRA) of Bahrain



## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

### ITU Regional Workshop on the Future Utilization of UHF Band in Arab Region

Date: 12 April 2018

Venue: Marrakech – Morocco

Number of Countries participating: 11

Number of Participants: 70

In cooperation with Forum Global



### ITU Arab Regional Workshop on “Furthering IMT Development: Policy, Spectrum Valuation and Auctions” in the Arab Region

Date: 18-19 Dec. 2018

Venue: Riyadh – Saudi Arabia

Number of Countries participating: 8

Number of Participants: 108

In cooperation with CITC Saudi Arabia



## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

### Output 2.2 Products and services for building confidence and security in the use of telecommunications/ICTs

#### ITU Regional Workshop on Securing the Critical Infrastructure for Financial Industry

Date: 14-15 Oct. 2018

Venue: Cairo – Egypt

Number of Countries participating: 3

Number of Participants: 44

In cooperation with the National Telecommunication Regulatory Authority (NTRA) of Egypt and the Egyptian Banking Institute



#### Regional Cybersecurity Week for the Arab Region

Date: 21-25 Oct. 2018

Venue: Kuwait – Kuwait

Number of Countries participating: 17

Number of Participants: 108

In cooperation with the ITU Arab Regional Cybersecurity Centre (ARCC) in Oman and the Communication & Information Technology Regulatory Authority (CITRA) of Kuwait



#### High Level Regional Meeting for Building Partnership with Academia in the Field of Cybersecurity

Date: 4 Dec. 2018

Venue: Amman – Jordan

Number of Countries participating: 13

Number of Participants: 44

In cooperation with the Arab States Research and Education Network (ASREN)



## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

### Output 2.2 Products and services for building confidence and security in the use of telecommunications/ICTs

#### Workshop to present the interim report of the national strategy for cybersecurity 2019-2022 in Mauritania

#### Readiness assessment Workshop to establish a national CIRT for Mauritania

Date: 17-21 Dec. 2018

Venue: Nouakchott – Mauritania

Number of Countries participating: 1

Number of Participants: 40

In cooperation with the Ministère de l'Enseignement Supérieur, de la Recherche Scientifique et des Technologies de l'Information et de la Communication in Mauritania



#### Training on Cybersecurity and Data Privacy for Public Prosecutors in Saudi Arabia

Date: 9-13 Dec. 2018

Venue: Cairo – Egypt

Number of Countries participating: 1

Number of Participants: 22

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In cooperation with Naif Arab University for Security Sciences



## Objective 2: Modern and secure telecommunication/ICT infrastructure: Foster the development of infrastructure and services, including building confidence and security in the use of telecommunications/ICTs

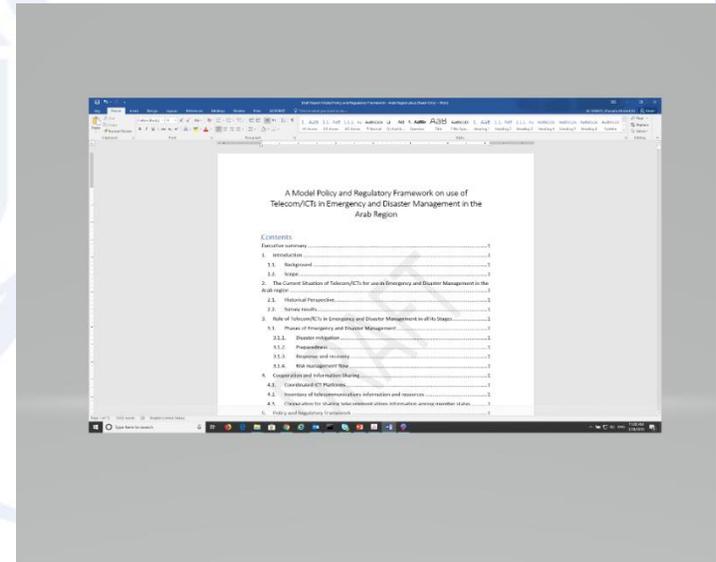
### Output 2.3 Products and services on disaster risk reduction and management and emergency telecommunications

#### Developed a Model Policy and Regulatory Framework on use of Telecom/ICTs in Emergency and Disaster Management in the Arab Region

Objective: The objective of this Model Policy and Regulatory Frameworks is to strengthen the capacity of ICTs policy and regulatory institutions and enhance regional collaboration and knowledge sharing on use of Telecom/ICTs in Emergency and Disaster Management

Date: Dec 2018

Benefiting Countries: 22



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

**Output 3.1** Products and services on telecommunication/ICT policy and regulation for better international coordination and coherence, such as assessment studies and other publications, and other platforms to exchange information

### ITU Regional Workshop on Numbering Planning and Policies for the Africa and Arab Region

Date: 25 April 2018

Venue: Tunis – Tunisia

Number of Countries participating: 20

Number of Participants: 50



In cooperation with the Center of Information, Training, Documentation and Studies in Communication Technologies (CIFODE'COM) of Tunisia

### ITU Capacity Building Programme on Quadplay: Costing and Pricing of Infrastructure Access for Arab Region

Date: 9-12 July 2018

Venue: Rabat - Morocco

Number of Countries participating: 18

Number of Participants: 51



In cooperation with the Institut National des Postes et Télécommunications (INPT) of Morocco



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

**Output 3.1** Products and services on telecommunication/ICT statistics and data analysis, such as research reports, collection, harmonization and dissemination of high-quality, internationally comparable statistical data, and forums of discussion

### ITU Regional Workshop on ICT Statistics

Date: 26-27 March 2018

Venue: Manama – Bahrain

Number of Countries participating: 8

Number of Participants: 27

In cooperation with the Ministry of Transportation and Telecommunications in Bahrain



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

### Output 3.3 Products and services on capacity building and human skills development

#### ITU-ITSO Regional Training Workshop on Satellite Communication

Date: 26-30 Nov. 2018

Venue: Rabat – Morocco

Number of Countries participating: 9

Number of Participants: 50



In cooperation with ITSO, INPT Morocco and BR

#### ITU Regional Training Workshop on “Training Needs Analysis and Development of Training Plans for the ICT’s Organizations” for Arab Region

Date: 21-23 Oct. 2018

Venue: Khartoum – Sudan

Number of Countries participating: 5

Number of Participants: 55

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan and in collaboration with Centre National de Formation Continue et de Promotion Professionnelle of Tunisia (CNFCPP)



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

### Output 3.3 Products and services on capacity building and human skills development

<b>Training on FTTx Outside Plant Design</b>			
Date	12-16 March 2018	Venue	Tunisia
Number of Countries participating	3	Number of Participants	6
In cooperation with the Center of Information, Training, Documentation and Studies in Communication Technologies (CIFODE'COM), Tunisia			

<b>eLearning Training on Business analysis of ICTs Applications and Services</b>			
Date	12-22 March 2018	Venue	Sudan
Number of Countries participating	2	Number of Participants	28
In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan			

<b>Training on Project Management for ICT Applications and Services</b>			
Date	16-18 April 2018	Venue	Sudan
Number of Countries participating	1	Number of Participants	24
In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan			

<b>Training on Business analysis of ICTs Applications and Services</b>			
Date	23-25 April 2018	Venue	Sudan
Number of Countries participating	1	Number of Participants	25
In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan			



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

### Output 3.3 Products and services on capacity building and human skills development

#### Training on Risk Management for ICT Implementation and Services

Date	1-3 May 2018	Venue	Sudan
Number of Countries participating	1	Number of Participants	25

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan

#### Training on Optical Fiber Characterization

Date	9-13 July 2018	Venue	Tunisia
Number of Countries participating	2	Number of Participants	10

In cooperation with the Center of Information, Training, Documentation and Studies in Communication Technologies (CIFODE'COM), Tunisia

#### Training on Internet Governance: Policy and Technical Perspective

Date	15-17 July 2018	Venue	Sudan
Number of Countries participating	3	Number of Participants	18

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan

#### Training on Software Defined Networking (SDN) and Openflow Protocol Practical Implementation

Date	7-9 Aug. 2018	Venue	Sudan
Number of Countries participating	5	Number of Participants	35

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

### Output 3.3 Products and services on capacity building and human skills development

#### Training on Software Defined Networking (SDN) and Openflow Protocol Practical Implementation

Date	18-20 Sept. 2018	Venue	Sudan
Number of Countries participating	1	Number of Participants	30

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan

#### Face-to-Face Training on Understanding The Open Group Enterprise Architecture Framework “TOGAF” for ICT applications and services

Date	15-17 Oct. 2018	Venue	Sudan
Number of Countries participating	2	Number of Participants	30

In cooperation with the SUDATEL Telecommunications Academy (SUDACAD), Sudan

#### Training on Optical Network Design

Date	22-26 Oct. 2018	Venue	Tunisia
Number of Countries participating	1	Number of Participants	10

In cooperation with the Center of Information, Training, Documentation and Studies in Communication Technologies (CIFODE'COM), Tunisia

#### Training on LTE-Advanced and Beyond

Date	12-16 Nov. 2018	Venue	Tunisia
Number of Countries participating	3	Number of Participants	8

In cooperation with the Center of Information, Training, Documentation and Studies in Communication Technologies (CIFODE'COM), Tunisia



## Objective 3: Enabling environment: Foster an enabling policy and regulatory environment conducive to sustainable telecommunication/ICT development

**Output 3.4** Products and services on telecommunication/ICT innovation, such as knowledge sharing and assistance, upon request, on developing a national innovation agenda; mechanisms for partnerships; development of projects, studies and telecommunication/ICT innovation policies.

### ARTECNET 5th Meeting for the Arab Region

Date: 16-17 April 2018

Venue: Tunis - Tunisia

Number of Countries participating: 10

Number of Participants: 26

In cooperation with Elgazala Technopark



### Business Incubation Management Training for the Administration of Jordan

Date: 30 July – 1 August 2018

Venue: Amman - Jordan

Number of Countries participating: 1

Number of Participants: 24

In cooperation with the Ministry of ICT of Jordan





## Objective 4: Inclusive digital society: Foster the development and use of telecommunications/ICTs and applications to empower people and societies for sustainable development

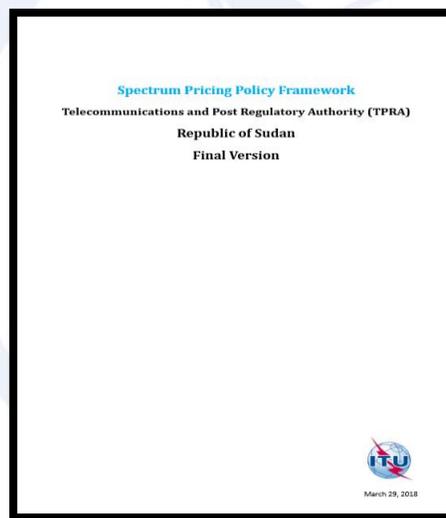
### Output 4.1 Products and services on concentrated assistance to LDCs, SIDS and LLDCs and countries with economies in transition, to foster the availability and affordability of telecommunications/ICTs

#### Concentrated Assistance to Sudan

Date: March 2018

Developed a Spectrum Pricing Framework for Sudan

Project implemented in cooperation with the Telecommunication and Postal Regulatory Authority (TPRA) of the Republic of Sudan

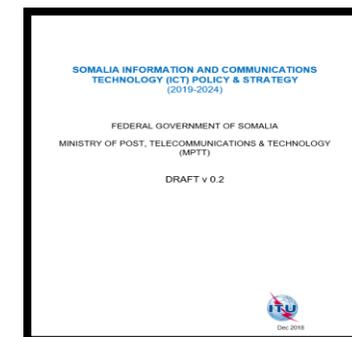


#### Concentrated Assistance to Somalia

Date: Dec 2018

Developed a ICTs Strategy and Policy for Somalia

Project implemented in cooperation with the Ministry of Information, Telecom and Postal (MIPT)



## Objective 4: Inclusive digital society: Foster the development and use of telecommunications/ICTs and applications to empower people and societies for sustainable development

### Output 4.2 Products and services on telecommunication/ICT policies supporting the development of the digital economy, ICT applications and new technologies

#### Regional Workshop on eHealth National Strategies

Date: 26-27 Nov. 2018

Venue: Beirut - Lebanon

Number of Countries participating:  
18

Number of Participants: 40

In cooperation with WHO



#### Sudan National Smart Learning Workshop

Date: 24-25 Sept. 2018

Venue: Khartoum – Sudan

Number of Countries participating: 1

Number of Participants: 30

In cooperation with TPRA Sudan and UNESCO



## Objective 4: Inclusive digital society: Foster the development and use of telecommunications/ICTs and applications to empower people and societies for sustainable development

### Output 4.3 Products and services on digital inclusion for girls and women and people with specific needs (elderly, youth, children and indigenous people, among others)

#### Digital Inclusion Week in the Arab Region

Date: 23-28 Sept. 2018

Venue: Cairo-Egypt and Khartoum-Sudan

Number of Countries participating: 5

Number of activities: 9

In cooperation with UNESCO and in partnership with the Ministry of CIT in Egypt and TPRA Sudan.

In addition to 7 other partners from UN organizations and regional organizations



#### Regional Conference on ICT for Women

Date: 26-27 Nov. 2018

Venue: Beirut - Lebanon

Number of Countries participating: 10

Number of Participants: 179

In cooperation with Ogero Telecom, ISOC, AWO, LLWB and WB under the patronage of Ministry of Telecommunications in Lebanon



#### Sudan National ICT Accessibility Policy

Date: 27 Sept. 2018

Venue: Khartoum – Sudan

Number of Countries participating: 1

Number of Participants: 70

In cooperation with the TPRA Sudan



#### Supported and co-organized events on Girls in ICT Day



## Objective 4: Inclusive digital society: Foster the development and use of telecommunications/ICTs and applications to empower people and societies for sustainable development

**Output 4.4** Products and services on ICT climate-change adaptation and mitigation, such as promotion of strategies and dissemination of best practices on mapping vulnerable areas and developing information systems, metrics, and e-waste management

### ITU Forum & Training on “With ICTs everywhere - How safe is EMF?” and Training on E-waste Statistics

Date: 10-12 April 2018  
Venue: Zanzibar - Tanzania  
Number of Countries participating: 40  
Number of Participants: 150



In cooperation with the Universal Communications Service Access Fund (UCSAF), the United Nations University (UNU) and Tanzania Communications Regulatory Authority (TCRA)

### Regional Project on E-waste Monitor for Arab Region

Duration: 1 Feb 2019- 28 Feb 2022  
Beneficiary Countries : 22

23

In cooperation with the United Nations University (UNU)



## Other ITU activities

- The ITU-T Study Group 17 Arab Regional Group (SG17RG-ARB) Second Meeting was held on 25th October 2018 in Kuwait, back to back with the Regional Cybersecurity Week for the Arab Region.
- The second Meeting of ITU-T SG2 Regional Group for Arab and Africa (SG2RG-AFR); Tunis-Tunisia, 26-27 April 2018.
- BR supported the ITU-ITSO Regional Training Workshop on Satellite Communication for Arab Region, Rabat - Morocco 26-30 Nov. 2018
- The second Meeting of ITU-T SG2 Regional Group for Arab and Africa (SG2RG-AFR); Cairo-Egypt, 4 -6 December 2018.
- The ITU-T Study Group 5 Arab Regional Group (SG5RG-ARB), ITU-T Study Group 3 Regional Group for the Arab Region (SG3RG-ARB) Meetings and Regional Standardization Forum (RSF) organized back to back with annual regional forum on IoT, Smart Cities and Big data, Kuwait, Kuwait city from 17 to 20 December 2018.

# 2019 Events

EVENETS

# 2019 Events:

## ICT Statistics Capacity Building Workshop for the Arab and CIS regions

Date: 12-14 Feb. 2019

Venue: Tashkent – Uzbekistan

Number of Countries participating: 20

Number of Participants: 80

In cooperation with the Ministry for Development of Information Technologies and Communications of the Republic of Uzbekistan



## 1st ITU Arab Centres of Excellence (ARB CoE) Steering Committee Meeting

Date: 19-20 Feb. 2019

Venue: Riyadh, KSA

Number of Countries participating: 5

Number of Participants: 15

In cooperation with the Naif Arab University for Security Science (NAUSS), new ITU CoE



# Workshops, Seminars and Forums 2019

Activity Title	Venue	Proposed Dates
ICT Statistics Capacity Building Workshop for the Arab and CIS regions	Uzbekistan	12-14 Feb
1 <sup>st</sup> Steering Committee of ITU Arab CoEs Network	KSA	19-20 Feb
Regional Development Forum (RDF) for the Arab Region	Lebanon	19 March
Promotion of Regional Cooperation on COP for Arab Region		
Regional Forum on Emerging Technologies	Tunisia	23-24 April

# Workshops, Seminars and Forums 2019

Activity Title	Venue	Proposed Dates
Organizing Girls in ICT Day		25 April
Validation Training Workshop on the Policy Guidelines on Human Exposure to EMF	Sudan	24-25 June
Regional Seminar for the Arab Region on Spectrum Management and Broadcasting	Tunisia	10-11 Sept.
ITU-UNESCO Digital Inclusion Week		22-26 Sept.
Regional Training on cybersecurity for Digital Financial Services		23-25 Sept.
Hackathon on Big Data for SDGs	Egypt	25-26 Sept.
Validation Training Workshop on the Implementation of Model Policy and Regulatory Frameworks on use of Telecom/ICTs in Emergency and Disaster Management for Arab Region	Oman	1-3 Oct.



# Workshops, Seminars and Forums 2019

Activity Title	Venue	Proposed Dates
Regional Cybersecurity week: 1. Regional Cybersecurity Summit 2. Regional Cyber Drill 3. The 7th Arab Cybersecurity Coordination Team Meeting	Oman	27-31 Oct.
Enabling Regulatory Environment of New Technologies (5G, IoT and M2M)	Morocco	1-3 Dec.
Annual Forum on IoT and SSC for Arab Region		11-12 Dec.
ITU Regional Human Capacity Building Workshop on Strengthening capacities in Internet Governance in Arab Region	Sudan	17-19 Dec.
Workshop on Big Data's enabling environment		



# 2019 Studies and Reports

Regional assessment study on DFI's enabling environment in the Arab region

Development of National Emergency Telecommunications Plans (Model NETPs) for specific countries

Development of Policy Guidelines on Human exposure to EMF

Development of Strategy and Guidelines and validation workshop on building confidence and security in the use of ICTs

# Direct Assistance

Ad hoc assistance to Arab region

Assistance to AREGNET

Assistance to ARTECNET

Concentrated assistance to Mauritania

Concentrated assistance to Comoros

Assistance to Palestine

Assist selected countries to implement IXPs

Assist selected countries in adopting and implementing an innovation policy

Assistance on the development of building C&I Labs and establishment of MRA Agreements in the Arab region

Assistance to selected countries on spectrum management



# Capacity Building activities

	Venue	Proposed Dates
ITU-ITSO Regional Training workshop on Satellite Communication	Algeria	12-17 July
Training on Entrepreneurship and ICT skills		
Training Programme on Big Data applications in Development		

# ITU Arab CoEs network courses for 2019

Training Topics	Dates
Big Data	21-23 April
Optical Fiber Characterization	22-26 April
Waste Electronic and Electrical Equipment (WEEE) management	23-26 April
FTTx Outside Plant Design	25-31 April
Cyber security awareness & forensics	6-9 May
Cybercrime Management:	25-31 May
Security of E-Government Services	27-31 May
Basic Cyber Security Training (CompTIA Security)	2-6 June

# ITU Arab CoEs Network courses for 2019

<b>Training Topics</b>	<b>Dates</b>
<b>Optical Network Design</b>	10-14 June
<b>4G/5G systems</b>	15-19 June
<b>Advanced Cyber Security Training (CompTIA Security+)</b>	16-20 June
<b>Software Defined Network</b>	18-20 June
<b>Cloud Computing</b>	23-25 June
<b>Digital Proofs and Security of Electronic Transactions</b>	24-28 June
<b>ICTs &amp; Environment (E-waste)</b>	25-28 June
<b>Domain Name System Security Extensions (DNSSEC)</b>	1-4 July

# ITU Arab CoEs Network courses for 2019

<b>Training Topics</b>	<b>Dates</b>
<b>Digital Forensic</b>	25-29 August
<b>Ultra-Microwave Broadband Internet Access</b>	3-5 Sept.
<b>Smart Cities and IoT</b>	9-13 Sept.
<b>Wireless Security</b>	23-26 Sept.
<b>Application of GIS in environmental management and resources protection</b>	1-3 Oct Sept.
<b>Artificial intelligence</b>	8-10 Oct.
<b>Optical Transport Design</b>	21-25 Oct.
<b>Public Key Infrastructure in Depth</b>	21-25 Oct.

# ITU Arab CoEs Network courses for 2019

<b>Training Topics</b>	<b>Dates</b>
<b>Basic IoT Training</b>	27-31 Oct.
<b>Innovations and security aspects in ICT technologies</b>	4-7 Nov.
<b>Internet Governance FTTH</b>	5-7 Nov.
<b>Ethical Hacking (CIEH)</b>	15-19 Dec.
<b>Computer-aided Spectrum Management</b>	17-19 Dec.
<b>Energy management system according to ISO 50001 standard</b>	TBD
<b>ICT and Ecodesign: assessment of ICT services performance by using LCA tools</b>	TBD
<b>The role of ICT to achieve the UN Sustainable Development Goals (SDG)</b>	TBD

# Regional ITU-T activities

Activity Title	Venue	Date
SG17 Regional Groups for Africa (SG17RG-AFR) and Arab (SG17RG-ARB) Regions	Tunis	2-3 April
Second Arab-African Interregional Standardization Forum on PKI for e-trust	Tunis	4-5 April

# Regional ITU-R activities

Activity Title	Venue	Date
Radiocommunication Assembly 2019	Egypt	22-25 Nov
World Radiocommunication Conference 2019	Egypt	28 Oct-22 Nov



**Thank you**