

**5<sup>th</sup> SG13 Regional Workshop for Africa on  
"ITU-T Standardization Work on Future Networks: Towards  
a Better Future for Africa"  
(Cairo, Egypt, 2-3 April 2017)**

# Introduction to the Workshop



**Dr. Rim Belhassine-Cherif**

Chief Services & Innovation Officer, Tunisie Télécom

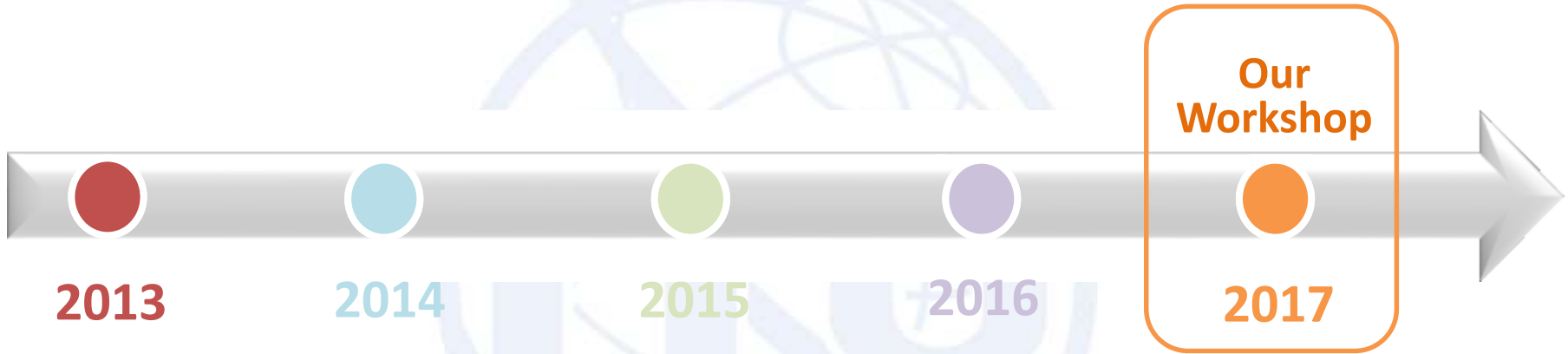
ITU-T TSAG Vice-chair, SG13 & SG13 RG-AFR Vice-chair

[Rim.belhassine-cherif@tunisiatelecom.tn](mailto:Rim.belhassine-cherif@tunisiatelecom.tn)



# Past SG13 Regional Workshops For Africa

1



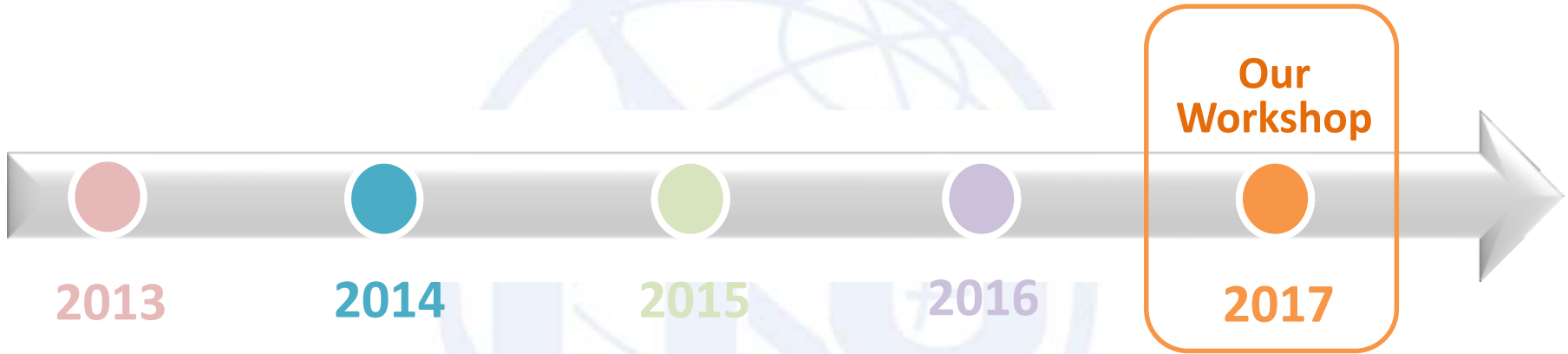
Theme	Place	Date	Host
Standardization on IMT, M2M, IoT, Cloud Computing and SDN	Algiers, Algeria	8 September 2013	ARPT





# Past SG13 Regional Workshops For Africa

2



Theme	Place	Date	Host
Future Networks: Cloud Computing, Energy Saving, Security & Virtualization	Tunis, Tunisia	28 April 2014	Tunisie Telecom

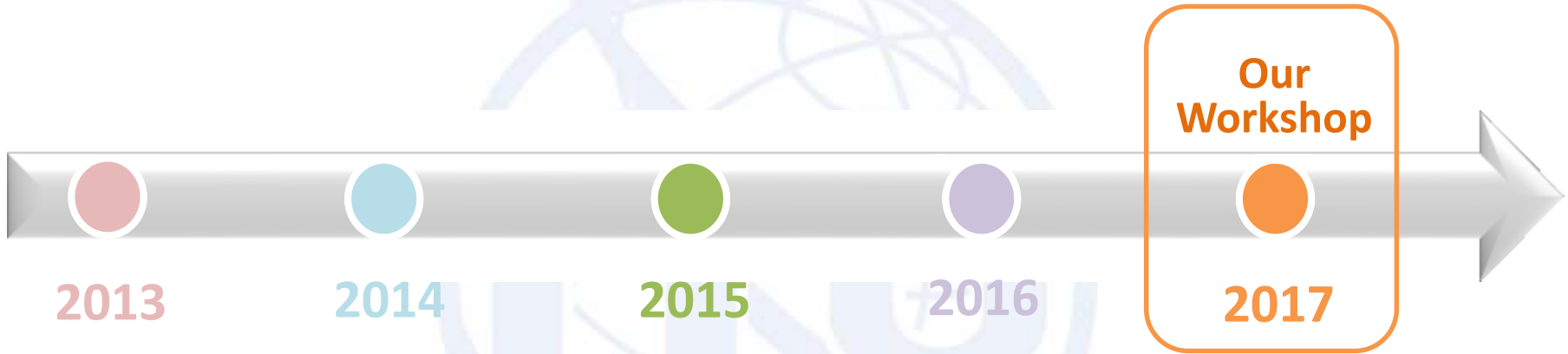




# Past SG13

3

# Regional Workshops For Africa



Theme	Place	Date	Host
ITU-T Standardization Challenges for Developing Countries Working for a Connected Africa	Livingstone, Zambia	23-24 February 2015	ZICTA

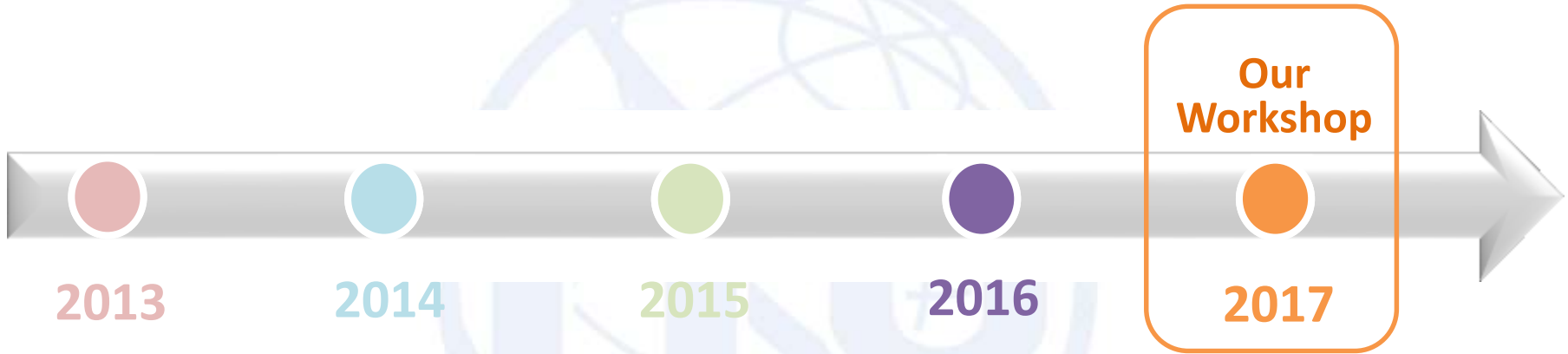




# Past SG13

4

# Regional Workshops For Africa



Theme	Place	Date	Host
Future Networks for a better Africa: IMT-2020, Trust, Cloud Computing and Big Data	Accra, Republic of Ghana	14-15 March 2016	NCA





# 5<sup>th</sup> SG13 Regional Workshop for Africa

## *At a Glance*

<b>Date</b>	02-03 April 2017
<b>Venue</b>	Novotel Cairo Airport Hotel, Cairo, Egypt
<b>Organized by</b>	The International Telecommunication Union (ITU) 
<b>Hosted by</b>	National Telecom Regulatory Authority (NTRA), Egypt 
<b>Theme</b>	ITU-T Standardization Work on Future Networks: Towards a Better Future for Africa
<b>Target Audience</b>	Regulators, operators, manufacturers, service providers, engineers, academic members , students, ...





# Objectives of the Workshop

- 1 **Emphasize the importance of standardization for developing countries in general and African countries in particular**
- 2 **Give an overview of SG13 standardization work in areas of currently high interest, such as IMT-2020 network aspects, Trust in ICT Infrastructures and Services, SDN, Cloud Computing and Big Data**
- 3 **Share the main issues in African Countries related to the workshop's topics and raise awareness about the priorities of SG13 standardization in the current study period**
- 4 **Present Africa's involvement in ITU-T Standardization as well as user experiences from African countries**



# Workshop's Agenda

## Day 1 (02/04/2017)


- 9H30 • **Opening Ceremony**
- 10H40 • **Presentation on the standards needs and values for developing countries**
- 11H10 • *Tea/Coffee Break*
- 11H30 • **Session 1: Standardization Hot Topics 1, Trusted ICT Infrastructures and Services**
- 13H00 • *Lunch*
- 14H30 • **Session 2: Standardization Hot Topics2, IMT-2020**
- 16H00 • *Tea/Coffee Break*
- 16H20 • **Session 3: Standardization Hot Topics3, Software-Defined Networking (SDN)**
- 17H50 • **Closure of day 1**





# Additional Presentation

<b>Title</b>	<b>Standards needs and values for developing countries</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> <b>facilitate the participation of developing countries</b> in the ICT standards development process</li> <li><input type="checkbox"/> explain how to allow developing countries <b>to profit from access to new technology development</b></li> <li><input type="checkbox"/> ensure that <b>the requirements of developing countries are taken into account in the development of standards</b></li> </ul>
<b>Duration</b>	<b>30 minutes</b> [10H40 – 11H10]
<b>Moderator</b>	<div style="display: flex; align-items: center;">  <div> <p><b>Eng. Ahmed Raghy</b> NTRA, Egypt</p> </div> </div>

Session 1	
<b>Title</b>	Standardization Hot Topics 1, Trusted ICT Infrastructures and Services
<b>Objectives</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Present the <b>main updates in the ITU-T standardization work</b> in the field of Trusted ICT Infrastructures and Services</li> <li><input type="checkbox"/> Discuss the <b>main current issues</b> related to this field + <b>future priorities for the standardization on Trust</b> from the perspective of the African Countries</li> </ul>
<b>Duration</b>	<b>1 hour &amp; 30 minutes</b> [11H30 – 13H00]
<b>Moderator</b>	<div style="display: flex; align-items: center;">  <div> <p><b>Mr. Marco Carugi</b> NEC, Japan</p> </div> </div>

# Speakers of Session 1

1



**Dr. Gyu Myoung Lee**

LJMU, UK/KAIST, Korea

*Standardization activities on trust in ITU-T SG13*

2



**Dr. Corinna Schmitt**

UZH, Switzerland

*IoT Connectivity vs Privacy Requests*



3



**Dr. Ramy Ahmed**

NTRA, Egypt

*Trustworthy ICT: The notion of Trust, Security, and Privacy*

4




**Mr. Simon Bugaba**

UCC, Uganda

*Infrastructures and Services: Perspectives of Developing Countries*

## Session 2

<b>Title</b>	<b>Session 2: Standardization Hot Topics 2, IMT-2020</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>❑ Present <b>the achievements of FG IMT-2020</b> + the <b>on-going work of SG13</b> on IMT-2020 standardization</li> <li>❑ <b>Activities of other SDO</b> in this field as well as recent standardization work on <b>specific topics related to IMT-2020</b> (such as softwarization, ICN, management...) could be also discussed</li> </ul>
<b>Duration</b>	<b>1 hour &amp; 30 minutes</b> [14H30 – 16H00]
<b>Moderator</b>	<div style="display: flex; align-items: center;">  <div> <p><b>Ms. Soumaya Benbartaoui</b> ARPT, Algeria</p> </div> </div>

# Speakers of Session 2

1



**Mr. Mohamed Ramadan**  
NTRA, Egypt

*IMT 2020 Standardization:-  
Pave the Way for 5G and  
Igniting Mobile Broadband*

2



**Mr. Luca Pesando**  
Telecom Italia

*IMT2020: How  
SG13/WP1 can valorise  
the FG results*



3



**Eng. Charles Asadu**  
Ministry of  
Communications, Nigeria

*IMT – 2020: Requirements  
for Africa*


4



**Mr. Brice Murara**  
RURA, Rwanda

*IMT-2020 Requirements;  
how developing countries  
can cope*

## Session 3

<b>Title</b>	<b>Standardization Hot Topics 3, Software-Defined Networking (SDN)</b>
<b>Objective</b>	Highlight the <b>roadmap of SDN standardization activities</b> carried out by ITU-T and other SDOs and organizations, with focus on the <b>main issues/challenges and use cases</b> related to software-defined networking
<b>Duration</b>	<b>1 hour &amp; 30 minutes</b> [16H20 – 17H50]
<b>Moderator</b>	<div data-bbox="537 939 795 1202" data-label="Image">  </div> <div data-bbox="846 1029 1207 1146" data-label="Caption"> <p><b>Mr. Simon Bugaba</b> UCC, Uganda</p> </div>

# Speakers of Session 3

1

**Eng. Mohammad Salaheldin**  
CISCO Egypt  
*SDN and NFV*

2



**Ms. Zhang Yuan**  
China Telecom

*The standardization of SDN and  
China Telecom network  
restructure based on SDN &NFV*



3



**Eng. Mohammad Keshk**  
Ericsson

*SDN Solution Overview*

4

**Mr. Laidoudi Lyassine**  
Algeria Telecom Mobile, Algeria

*Organization and challenges for Telecom  
operators with SDN*





# Workshop's Agenda

## Day 2 (03/04/2017)

- 9H30** • Brief summary of Day 1 discussion & program of day 2
- 9H40** • **Session 4: Standardization Hot Topics 4, Cloud Computing & Big Data**
- 11H10* • *Tea/Coffee Break*
- 11H30** • **Session 5: Technology Convergence**
- 13H00* • *Lunch*
- 14H00** • **Session 6: Experiences & Successful Stories from Africa**
- 15H00** • **Panel Discussion: Importance of standardization of SG13 hot topics for African countries**
- 15H45** • **Closing session**








# Summary of Day 1

<b>Objective</b>	Give a <b>brief Summary of Day 1</b> and present the discussion and the program of Day 2 of the workshop
<b>Duration</b>	<b>10 minutes</b> [9H30 – 9H40]
<b>Presenter</b>	<b>Ms. Shahira Selim</b> NTRA, Egypt

# Session 4

<b>Title</b>	<b>Standardization Hot Topics 4, Cloud Computing and Big Data</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li>❑ Highlight the main achievements in technologies, services and standards related to <b>cloud computing activities of ITU-T</b> and other SDOs while presenting an <b>overview on Cloud Computing scenarios in Developing Countries</b></li> <li>❑ Discuss <b>the main advances in technologies and services related to Big Data</b> + the major current and future activities of <b>SG13 and ITU-T</b> on this topic</li> </ul>
<b>Duration</b>	<b>1hour &amp; 30 minutes</b> [9H40 – 11H10]
<b>Moderator</b>	<div style="display: flex; align-items: center;">  <div> <p><b>Mr. Elliot Kabalo</b> ZICTA, Zambia</p> </div> </div>

## Speakers of Session 4

1



**Dr. Rim Belhassine-Cherif**

Tunisie Télécom, Tunisia

*Overview on Cloud Computing scenarios in Developing Countries*

3



**Eng. Mohamed Aly Eladel**

Ericsson Ireland

*Telco Cloud & Using Big Data to Improve Customer Experience & to Drive new Revenue Streams*

5



**Eng. Mohamed Abdallah**

CISCO Egypt

*IT Transformation: Disrupt or be Disrupted*

2



**Ms. Soumaya Benbartaoui**

ARPT, Algeria

*Overview of the ITU works on Cloud Computing*

4




**Mr. Marco Carugi**

NEC, Japan

*Cross-domain data utilization via FIWARE as data-exchange platform*

# Session 5

<b>Title</b>	<b>Technology Convergence</b>
<b>Objectives</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Highlight the <b>key trends and importance for technology convergence</b> integrated with networking solutions for IMT-2020, cloud computing and big data including trust</li> <li><input type="checkbox"/> Provide a view on how we can <b>timely address technology convergence in the future standardization work</b></li> </ul>
<b>Duration</b>	<b>1 hour 30 minutes</b> [11H30 – 13H00]
<b>Moderator</b>	<div style="display: flex; align-items: center;">  <div> <p><b>Mr. Simon Bugaba</b> UCC, Uganda</p> </div> </div>

# Speakers of Session 5

1



**Dr. Gyu Myoung Lee**

LJMU, UK/KAIST, Korea

*Technology Convergence -  
IMT-2020, cloud computing  
and big data including trust*

2



**Mr. Brice MURARA**

RURA, Rwanda

*Smart Africa Initiative as an  
Enabler for efficient Technology  
convergence in Africa*

3




**Eng. Mostafa Essa**

Vodafone Egypt

*The Evolution of  
Communication Networks  
(beyond 5G)*

## Session 6

<b>Title</b>	<b>Experiences &amp; Successful Stories from Africa</b>
<b>Objective</b>	Present some <b>experiences and successful stories of different African telecommunication stakeholders</b> in the workshop's topics, with focus on the efforts made by these stakeholders to <b>initiate standardization activities</b> on these topics or <b>to get involved in the existent standardization activities</b> of the ITU-T or other SDOs
<b>Duration</b>	<b>1 hour</b> [14H00 – 15H00]
<b>Moderator</b>	<div data-bbox="533 1062 770 1326" data-label="Image">  </div> <div data-bbox="801 1133 1309 1248" data-label="Caption"> <p><b>Dr. Rim Belhassine-Cherif</b> Tunisie Télécom, Tunisia</p> </div>

# Speakers of Session 6

1



**Mr. Sebastian Namukolo**  
University of Zambia, Zambia  
*Experience with ICT Equipment Failure in Africa and Successful Standardization effort in Zambia*



2



**Mr. Brice MURARA**  
RURA, Rwanda  
*Rwanda approach towards emerging technologies, opportunities and challenges.*

## Panel Discussion: Importance of standardization of SG13 hot topics for African countries

<b>Objective</b>	Discuss the <b>importance of standardization of SG13 hot topics</b> presented during the Workshop for African countries + possible measures to <b>increase the participation of African Countries in the SG13 standardization activities</b> on these topics
<b>Duration</b>	<b>45 minutes</b> [15H00 – 15H45]
<b>Moderator</b>	 <p><b>Eng. Ahmed Raghy</b> NTRA, Egypt</p>



# Panel's Participants



**Dr. Gyu Myoung Lee**  
LJMU, UK/KAIST, Korea



**Mr. Brice MURARA**  
RURA, Rwanda



**Mr. Marco Carugi**  
NEC, Japan



**Ms. Racky Seye**  
Ministère des Postes et des  
Télécommunications, Sénégal



**Mr. Elliot Kabalo**  
ZICTA, Zambia



**Dr. Ramy Ahmed**  
NTRA, Egypt



## Closing Session

- ***Presentation of results and final summary on lessons learnt during the workshop:***

**Mr. Simon Bugaba, UCC, Uganda**

- ***Closure of the Workshop:***
  - **Dr. Rim Belhassine-Cherif ,Tunisie Télécom, Tunisia  
*on behalf of Dr. Leo Lehmann, SG13 Chairman***
  - **Eng. Ahmed Raghy, NTRA, Egypt**



# Mark your Calendar!



## 5<sup>th</sup> SG13RG-AFR meeting

<b>Date</b>	04-05 April 2017
<b>Venue</b>	Novotel Cairo Airport Hotel, Cairo, Egypt
<b>Organized by</b>	The International Telecommunication Union (ITU) 
<b>Hosted by</b>	National Telecom Regulatory Authority (NTRA), Egypt 
<b>Target Audience</b>	Delegates and representatives from Member States, Sector Members and Associates of the ITU-T Study Group 13 in the region



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**Thank you for your Attention**



**Dr. Rim Belhassine-Cherif**  
[Rim.belhassine-cherif@tunisitelecom.tn](mailto:Rim.belhassine-cherif@tunisitelecom.tn)

