



This PDF is provided by the International Telecommunication Union (ITU) Library & Archives Service from an officially produced electronic file.

Ce PDF a été élaboré par le Service de la bibliothèque et des archives de l'Union internationale des télécommunications (UIT) à partir d'une publication officielle sous forme électronique.

Este documento PDF lo facilita el Servicio de Biblioteca y Archivos de la Unión Internacional de Telecomunicaciones (UIT) a partir de un archivo electrónico producido oficialmente.

جرى إلكتروني ملف من مأخوذة وهي والمحفوظات، المكتبة قسم ، (ITU) للاتصالات الدولي الاتحاد من مقدمة PDF بنسق النسخة هذه رسمياً إعداده.

本PDF版本由国际电信联盟（ITU）图书馆和档案服务室提供。来源为正式出版的电子文件。

Настоящий файл в формате PDF предоставлен библиотечно-архивной службой Международного союза электросвязи (МСЭ) на основе официально созданного электронного файла.



21-23 November 2016
Gaborone, Botswana

PROGRAMME



Venue of WTIS 2016
The Grand Palm Resort Hotel, Gaborone, Botswana

www.itu.int/wtis16



WELCOME TO WTIS-16



H.H. Mr. Mokgweetsi E. K. Masisi
Vice President of the Republic of Botswana



Hon. Mr. Onkokame Kitso Mokaila
Minister of Transport and Communication
Botswana



Mr. Houlin Zhao
Secretary-General
ITU



Mr. Thari G. Pheko
Chief Executive
Botswana Communications
Regulatory Authority (BOCRA)
Botswana



Mr. Brahima Sanou
Director
Telecommunication Development Bureau
ITU

WHAT IS WTIS ?

First held in 1996, and annually since 2005, the ITU World Telecommunication/ICT Indicators Symposium (WTIS) has evolved to become the main global forum for telecommunication and information society measurements. It brings together delegates from all over the world, ranging from government ministers and business leaders to regulators, national statisticians, lead academicians and ICT data producers and analysts. The objective of the Symposium is to debate new and emerging issues on ICT data and statistics and their role in policy making, to provide strategic guidance to the international community on information society trends and future monitoring, and to develop standards and methodologies for producing high-quality data and statistical indicators. WTIS provides a unique platform for ICT data users and producers to meet and exchange knowledge, share best practices, identify business opportunities and enhance cooperation.

Outcomes

The adopted outcomes of WTIS provide strategic guidance to the national and international community, including ITU, on the future priorities of work related to monitoring the information society based on internationally agreed definitions and methodologies.

ICT Development Index

A special feature of WTIS is the launch of the latest ITU Measuring the Information Society Report, which includes the ICT Development Index (IDI). The IDI is a key international performance measure which captures the level of ICT developments in over 170 economies worldwide and compares progress made during the last year.

Participants

WTIS is attended by around 400 participants from more than 100 countries worldwide, as well as from regional and international organisations. Panellists and speakers include Ministers, Director-Generals of Regulatory Authorities and of National Statistical Offices, Chief Executive Officers of private sector companies and experts in the field of ICT measurement. Several thought leaders from Academia are also expected to attend the Symposium.

Monday, 21 November 2016

09:00 – 10:00

Opening ceremony

- Mr. Thari G. Pheko, Chief Executive, Botswana Communications Regulatory Authority (BOCRA)
- Mr. Brahima Sanou, Director, Telecommunication Development Bureau, ITU
- Hon. Mr. Onkokame Kitso Mokaila, Minister of Transport and Communications, Botswana
- Guest speaker: H.H. Mr. Mokgweetsi E. K. Masisi, Vice President of the Republic of Botswana

10:00 – 10:30

Group picture and coffee break

10:30 – 12:00

Ministerial Roundtable: Leaving no one behind

The 2015 Agenda for Sustainable Development has pledged that “no one will be left behind”, to ensure that all people equally benefit from the rights and opportunities that the SDGs voice. In terms of ICTs, this means that efforts need to focus on achieving a truly inclusive information society. Those at the “bottom of the pyramid”, including low-income groups, the illiterate, persons with special needs or those living in rural areas, need to equally benefit from high-speed and high-quality Internet connections. These population groups not only run the greatest risk of being left outside but also are those who could benefit the most from the opportunities that ICTs can offer for development. At the same time, policy makers require data to track relevant inequalities.

This Ministerial Roundtable will discuss national initiatives on how to close the digital divide and to ensure an inclusive information society. In particular, the session will address the following questions:

- What are the main challenges and barriers faced by those that are not yet participating in the information society?
- Which information do policy makers require to effectively monitor inequalities in ICT access and use?
- What are innovative technologies and tools to connect the unconnected?
- Which policies and regulatory steps can governments take to drive investment, and to foster public-private partnerships, so as to expand ICT access to all of their citizens, including those at the “bottom of the pyramid”?

Moderator: Dr. Cosmas Zavazava, Chief of Department, Projects and Knowledge Management, ITU

Ministers:

- Hon. Mr. Onkokame Kitso Mokaila, Minister of Transport and Communications, Botswana
- H. E. Mr. Vincent F. Byron, Attorney General, Minister of Justice, Legal Affairs and Communications, St. Kitts and Nevis
- H.E. Dr. Rufino Ovono Ondó Engonga, Secretario de Estado encargado de Telecomunicaciones y Nuevas Tecnologías, Ministerio de Telecomunicaciones y Nuevas Tecnologías, Equatorial Guinea
- H.E. Dr. Win Busayi Juyana Mlambo, Deputy Minister of Information Communication Technology, Postal and Courier Services, Zimbabwe

- H.E. Mr Justin Gournu Zacko Ministre, Ministère des Postes et Télécommunications, chargé de la Promotion des NTIC, Central African Republic
- H.E. Dumisani Ndlangamandla Minister, Ministry of Information, Communication and Technology, Swaziland

12:00 – 14:00 **Lunch break**

14:00 – 15:30 **Leaders' Dialogue: Understanding the structural impact of ICTs**

ICTs have spread rapidly over the last decade and profoundly changed the way many people in the world learn, work, live and communicate. Recent debates are increasingly focusing on the impact of ICTs and the structural changes that they are triggering in the society and economy, including in the labour market. Knowledge economies are benefitting from the extensive availability and use of ICTs, through innovation and technical and scientific advances. At the same time, people, businesses and governments need to adapt to those changes in terms of products, markets and skills requirements.

The Leaders' Dialogue will discuss social and economic changes caused by the spread of ICTs, as well as data requirements needed to understand and address those changes. In particular, the session will address the following questions:

- What are the main structural changes caused by ICTs?
- What is the impact of ICTs on employment and labour markets, and what do businesses, governments, and people need to do to adjust?
- What skills are required for tomorrow's jobs? Will mass job creation make up for mass job destruction?
- What data are available and needed to understand these issues?
- How do ICTs change societies and create new models of social cohesion?
- What are the changing data needs related to the digital revolution?

Moderator: Oshinka Tsiang, Broadcaster, Motshwarateu Media, Botswana

Keynote: Marten Blix, Digitalization Expert and Former Secretary to the Swedish Prime Minister in the Commission on the Future Challenges of Sweden

Panelists:

- Annah Ngalapi Majelantle, Statistician General, Statistics Botswana
- Seiji Takagi, Director-General for International Affairs, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications, Japan
- Maria Harrison, Commissioner, Liberia Telecommunications Authority, Liberia
- Pakamile Pongwana, Chief Executive Officer, Independent Communications Authority of South Africa
- Mbeuta Ua-Ndjarakana, Permanent Secretary, Ministry of Information and Communication Technology, Namibia
- Abdoukarim Soumaila, Secretary General, African Telecommunications Union

15:30 – 16:00 **Coffee break**

16:00 – 17:00 **Special session organized by the Government of Botswana: ICT Development in Botswana over the last 50 years and methods of measurements**

The development of Botswana's telecommunications and ICT market gained traction in 1995 when the Telecommunication Policy was adopted. Prior to 1995, telecommunication services were provided by the government entity and the infrastructure development was channeled through the incumbent operator. In 1998 the market was liberalised with two mobile operators awarded mobile licenses. In 2014, Statistics Botswana conducted its first comprehensive ICT Household Survey with the main objective to measure accessibility and usage of Information and Communication Technologies (ICTs) in Botswana. By 2016, Botswana has high usage of ICT services with mobile cellular penetration and mobile-broadband penetration among the highest in Africa.

This session will showcase Botswana's ICT development over the last 50 years.

Moderator: Itumeleng Batsalelwang, Director, Telecommunications and Postal, Ministry of Transport and Communications, Botswana

Panelists:

- Burton Mguni, Deputy Statistician General, Statistics Botswana
- Noble Katse, Director, Business Development, Botswana Communications Regulatory Authority

19:00

Dinner hosted by the Government of Botswana

Venue: The Grand Palm Resort Hotel, Gaborone International Convention Centre

Tuesday, 22 November 2016

09:00 – 10:30

ICT Development Index (IDI) award ceremony and presentation of the Measuring the Information Society Report 2016

For the 8th consecutive year, ITU will publish the Measuring the Information Society Report. The 2016 Report features the latest ICT Development Index (IDI), including global and regional IDI rankings, and an analysis of the digital divide. It will highlight key performers and the most dynamic countries. The Report presents new country data on prices for key ICT services. Following the adoption of the 2030 Agenda for Sustainable Development in September 2015, the Report highlights the role of ICTs and presents the ICT indicators included in the SDG monitoring framework. The Report also present a new metrics to monitor global mobile phone uptake and discusses the latest trends in Internet usage.

The first part of the session will feature the award ceremony of the ICT Development Index (IDI) 2016. It will present the results of the IDI 2016, reveal this year's top performers and most dynamic countries, and present the IDI 2016 Award and IDI 2016 Dynamic Country Awards.

The second part of the session will present and discuss the key findings of the Measuring the Information Society Report 2016. This will include a short video, a panel discussion, and a Q&A session with the audience.

09:00 – 09:30

IDI award ceremony

Moderator: Aki Anastasiou, CNBC Africa

- Brahima Sanou, Director, Telecommunication Development Bureau, ITU
- IDI Awardees

09:30 – 10:30

Measuring the Information Society Report 2016

Moderator: Aki Anastasiou, CNBC Africa

Panelists:

- Susan Teltscher, Head, Human Capacity Building Division and Head a.i. ICT Data and Statistics Division, ITU
- Vanessa Gray, Head, LDCs, SIDS and Emergency Telecommunications Division, ITU
- Esperanza Magpantay, Senior Statistician, ICT Data and Statistics Division, ITU
- Alison Gillwald, Executive Director, Research ICT Africa
- Dhanaraj Thakur, Research Manager, Alliance for Affordable Internet

10:30 – 11:00

Coffee break

11:00 - 12:30

New data needs for the SDGs: Update on the Expert Group on Household Indicators (EGH)

Over the past year, the Expert Group on Household Indicators (EGH) has continued its work through the online discussion forums and a face-to-face meeting held in October 2016. To track progress towards the 2030 Agenda for Sustainable Development, which expects to 'leave no one behind, it will be necessary to produce more disaggregated data, in particular data broken down by income, sex, age, disability status, geographic location and other characteristics in accordance with the Fundamental Principles of Official Statistics. The new SDG monitoring framework also includes a number of new ICT indicators that countries are encouraged to produce. This session will feature:

- The work of the EGH since WTIS 2015, in the context of new data needs required for SDG monitoring
- A discussion and agreement on the recommendations and proposals for the future work of EGH
- Country presentations related to topics under discussion in EGH, such as measuring digital inclusion and digital literacy, and data disaggregation methods.

Moderator: Aurora Rubio, Head, ITU Area Office for South East Asia, ITU

Panelists:

- Alexandre Barbosa, Head, CETIC.br, Brazil and EGH Chair
- Kennedy Shoniwa, Director, Zimbabwe National Statistics Agency
- Bernard Banda, Manager for Research and Statistics at the Zambia Information and Communications Technology Authority, Zambia

12:30 - 14:00 **Lunch break**

14:00 – 15:30 **Technology trends and data: Update on the Expert Group on Telecommunication/ICT Indicators (EGTI)**

Over the past year, the Expert Group on Telecommunication/ICT Indicators (EGTI) has continued its work through the online discussion forums and a face-to-face meeting held in October 2016. This session will feature:

- The work of the EGTI since WTIS 2015, including the review of the ITU price basket
- A discussion and agreement on the recommendations and proposals for the future work of the EGTI
- Country presentations related to topics under discussion in EGTI, including tariffs on bundled ICT services and 5G networks

Moderator: Annie Baldeo, Executive Officer, Policy Planning and Market Economics, Telecommunications Authority of Trinidad and Tobago and EGTI Vice-Chair

Panelists:

- Iñigo Herguera, Associate Professor of Economics, Complutense University of Madrid, Spain and EGTI Chair
- Aminata Garba, Assistant Professor, Department of Electrical and Computer Engineering, Carnegie Mellon University, Rwanda
- Josephine Ifeoma Amuwa, Director of Policy, Competition and Economic Analysis, Nigerian Communications Commission, Nigeria
- Victor Teppeh, Deputy Director, Research & Development, National Communications Authority, Ghana

15:30 – 16:00 **Coffee break**

16:00 – 17:30 **Big data for monitoring the information society**

The growth of ICTs has resulted in a rapid increase of new (including big) data sources, in particular from the ICT industry. ITU is looking into innovative ways to utilize big data as a new data source, and to overcome important data gaps. To this purpose, ITU recently launched a project on big data for measuring the information society. Under this project, ITU will carry out a number of pilot studies in selected countries and produce new and policy-relevant ICT statistics with big data.

The session will showcase the experience from these pilot case studies, followed by a Q&A session.

Moderator: Esperanza Magpantay, Senior Statistician, ICT Data and Statistics Division, ITU

Panelists:

- Margus Tiru, Consultant to ITU

- Joseph Bulan, Statistical Specialist, Philippine Statistics Authority, Philippines
- Paul Kiage, Assistant Director, Universal Service Obligations and Funding, Communications Authority, Kenya
- Jorge Iván Rodríguez Rojas, Advisor of Sector Studies, Ministry of Information Technologies and Communications, Colombia

Wednesday, 23 November 2016

09:00 – 10:30

ICT indicators for disaster risk reduction

Natural disasters have devastating effects on human beings and cause economic loss, particularly in the world's most vulnerable regions. Two of the major development plans agreed upon in 2015 recognize the importance of these challenges: The 2030 Agenda for Sustainable Development calls for building resilience to disasters, and the Sendai Framework for Disaster Risk Reduction has set specific goals to build resilience, and to improve disaster management through prevention, preparedness, and response.

Technological innovations, and in particular ICTs, provide unprecedented opportunities to effectively address the issue of climate change and to provide critical tools for disaster monitoring, early warning, and emergency response efforts. This session will discuss existing and new ICT indicators that policy makers and other stakeholders need to effectively predict, monitor, manage and respond.

In particular, this session will address the following questions:

- Which ICT indicators and data can be used to provide disaster risk information and assessments?
- What is the role of ICT indicators for national disaster risk reduction strategies?
- What is the role of new data sources, including big data, and of geographic information systems (GIS) for disaster management and climate change?

Moderator: Vanessa Gray, Head, LDCs, SIDS and Emergency Telecommunications Division, ITU

Panelists:

- John Harding, Programme Officer, UN Office for Disaster Risk Reduction (UNISDR)
- Alasdair Hainsworth, Chief, Disaster Risk Reduction Services Division, World Meteorological Organisation (WMO)
- Seiji Takagi, Director-General for International Affairs, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications, Japan

10:30 – 11:00

Coffee break

11:00 – 12:30

Better ICT data for better policy making: Stakeholder perspectives

One of the main concerns often raised by ICT policy makers is how to improve the quality, availability and dissemination of ICT data so that they accurately

reflect countries' ICT developments, including various dimensions of ICT access, use and skills, and support ICT policy-making.

This session will bring together different stakeholders who will share their views on how ICT data could be improved, how the use of ICT data can be enhanced and what some of the key challenges are that need to be addressed at the national and international levels. Stakeholder perspectives will be shared by representatives from the public and private sector, research institutions, national statistical offices, as well as ITU. Panelists will also discuss data priorities for the future.

Questions addressed by the panel:

- What are some of the key issues to be addressed (nationally and globally) in order to improve ICT statistics both qualitatively and quantitatively?
- What is the role of different stakeholders in ensuring/facilitating improved ICT statistics?
- What are some of the future data priorities related to ICT developments that should be addressed?
- How can new data sources help improve ICT statistics?
- Why is national coordination important and what are good models for coordination in the production of ICT statistics at the national level?
- How can ICT data be more effectively disseminated and used to improve ICT development?

Moderator: Andrew Rugege, Regional Director, ITU Regional Office for Africa

Panelists:

- Susan Teltscher, Head, Human Capacity Building Division and Head a.i., ICT Data and Statistics Division, ITU
- Marten Blix, Digitalization Expert and Former Secretary to the Swedish Prime Minister in the Commission on the Future Challenges of Sweden
- Annah Ngalapi Majelantle, Statistician General, Statistics Botswana
- Seung Keon Kim, Director General, Korea Association for ICT Promotion, Korea (Rep. of)
- Alexandre Barbosa, Head, CETIC.br, Brazil
- Alison Gillwald, Executive Director, Research ICT Africa

12:30 – 14:30

Lunch break

14:30 – 15:00

Presentation of Chair's summary and conclusions

The Chair of WTIS will present his conclusions and recommendations of the meeting.

15:00 – 15:30

Closing ceremony

16:00

Excursion: Game drive and bush braai (barbecue)

WTIS-16 sponsored by

