WTIS-15
13th WORLD TELECOMMUNICATION
ICT INDICATORS SYMPOSIUM
30 NOVEMBER - 2 DECEMBER 2015
HIROSHIMA, JAPAN

PROGRAMME

Venue of WTIS 2015
Grand Prince Hotel Hiroshima, Japan

www.itu.int/wtis2015

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2015

MIC
Ministry of Internal Affairs and Communications

WTIS-15

Welcome messages

2015 marks 150 years since the first International Telegraph Convention was signed which is the basis of the International Telecommunication Union (ITU). I express my heartiest congratulations to the Union for the past long efforts to promote international cooperation on radio frequency management and frameworks of policies and regulations for the development of telecommunications. It is with great pleasure that we have the opportunity to host the *13th World Telecommunication/ICT Indicators Symposium (WTIS-15)* in Hiroshima as the final memorial event of the 150 years anniversary.

I recognize that WTIS-15 serves as an important forum to discuss measures for global ICT development by consideration through discussion of how indicators of ICT development should be. It is very significant for both developed and developing countries to consider issues such as digital connectivity in the field of ICT. Taking this opportunity, we will make use of the exchange of views with delegates of all the countries within international cooperation in the ICT field. Regional vitalization is among the reasons we have hosted WTIS-2015 in Hiroshima. In Japan, we promote the ICT-related policy to ensure the provincial environment where people work, learn and live with peace of mind in order to create vital and affluent provinces. I think ICT is an important means which can be a powerful motive for provincial development not only in Japan but also in developing countries as well as in developed countries. At this symposium, you will also visit the exhibition and participate in some events that help expand relations with the local participants such as "Meet the Industry", which showcases the business of some ICT-driven local companies in Hiroshima. I hope this symposium will help all distinguished delegates to have more communication with the local people to further relationships.

Last but not least, I highly appreciate the cooperation and support of ITU, distinguished guests and all the participants present today for giving their time. I wish you much continued good fortune and hope for further advancement of ITU and a successful symposium with a pleasant stay in Hiroshima.

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H.E. Ms Sanae Takaichi
Minister for Internal Affairs and Communications
Japan

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WTIS-15

Welcome messages

On behalf of ITU I would like to express my deep gratitude to the Government of Japan for hosting the 13th World Telecommunication/ICT Indicators Symposium. WTIS-15 is the last major ITU event of the year marking the celebration of ITU's 150th Anniversary. Over the last 150 years, and with the support of our Membership, ITU has modernized, innovated, and re-invented itself. ITU continues to help coordinate scarce global resources, set international standards, and develop an enabling environment for ICT growth and investment.

This Symposium provides strategic guidance to the international community on information society trends and future monitoring. The WTIS focuses on key ICT topics that are of direct relevance to the global development debates, including the 2030 Agenda for Sustainable Development. ICTs are indispensable for achieving the SDGs and for making progress on all three pillars of sustainable development – economic development, social inclusion and environmental protection.

WTIS provides important guidance in tracking the global commitments to drive the information society and to achieve broader development objectives. It helps identify progress and highlights remaining challenges not only for the achievement of the SDGs but also for the World Summit on the Information Society (WSIS), the Broadband Commission for Digital Development, the Sendai Framework for Disaster Risk Reduction, and the Connect 2020 Agenda. All of these development initiatives have identified measurable goals and targets, and recognized the importance of objective monitoring.

I am well aware that despite the incredible progress that we have made in spreading ICTs, there are many remaining challenges. Less than half of the world's population is still not using the Internet. ICT prices remain unaffordable to large parts of the world's population, and there are great differences in the quality of Internet access for citizens and businesses. WTIS-15 will highlight the work that remains to be done and guide us in terms of new technologies and tools. It will identify and acknowledge new opportunities. I wish all participants an excellent Symposium and look forward to the debates.

Mr Houlin Zhao
Secretary-General
ITU

WTIS-15

Welcome messages

The World Telecommunication/ICT Indicators Symposium remains the main global forum for information and communication technology (ICT) measurement. As a truly multi-stakeholder event, it brings together ministries, regulatory authorities, national statistical offices, academics, regional and international organizations and the ICT industry. The growing number of participants, including many high-level participants, demonstrates the growing recognition that ICTs and data-driven policy making are important for the future development of our economies and society.

ICTs enhance efficiency and productivity, and provide access to digitally-enabled services and products. They strengthen local economies, innovation and businesses. At the same time, the tremendous growth in ICT access and use means that ICTs can help measure progress and inform policy makers. Indeed, ICTs are an integral part of the debate on the data revolution because this revolution is driven by, and dependent on, ICTs. Big data, one of the topics of WTIS-15, means big opportunities and ITU has an important role to play in optimizing the potential of big data for development, for its membership.

WTIS-15 will feature the launch of our flagship *Measuring the Information Society Report 2015*. The report has become one of the most authoritative sources for ICT data and for monitoring the development of the global information society. We will also announce the results of the latest ICT Development Index, or IDI. The IDI is a benchmarking tool that identifies strengths and weaknesses in the countries under review. It aims to assist policy makers in evaluating the level and progress of ICT development, and to share and to adopt best practices.

Finally, I would like to join the ITU Secretary General in thanking our host. Japan is a showcase when it comes to ICTs. ICTs have driven Japan's economic growth for the last few decades and Japan has become an important hub of ICT innovation, and a global ICT industry leader. It is therefore a particular honour to be welcomed here in Japan and to be able to leverage on the country's ICT expertise. I invite all participants to take advantage of the many networking opportunities offered at WTIS-15.

Mr Brahima Sanou
Director
Telecommunication Development Bureau
ITU

WTIS-15

Welcome messages

I would like to congratulate the International Telecommunication Union on its 150th anniversary.

It is truly meaningful that the *13th World Telecommunication/ICT Indicators Symposium (WTIS-15)* anniversary event will be held for the first time in Japan, in Hiroshima, and it will also spur ICT industrial development and innovation in the prefecture.

On behalf of the citizens, I would like to extend you a warm welcome.

Hiroshima is an internationally competitive *Manufacturing Prefecture* with balanced industrial clusters that range from heavy industries, such as the automotive and shipbuilding industries, to cutting-edge electronic device and electronic part-making industries that include unique companies that have their own technology and top industries that account for high percentages of international market shares. We are currently moving forward with initiatives that, among other goals, make use of these characteristics and further increase the competitiveness of core industries and foster the development of new industries.

This occasion is also an opportunity for participating countries and the citizens and businesses of the prefecture to further our ICT exchanges, and I expect even further growth in the future.

Additionally, among various other attractions, Hiroshima has two UNESCO world heritage sites, the A-bomb dome and Itsukushima Shrine, possesses the island beauty, history and culture of the Seto Inland Sea, as well as food such as okonomiyaki and oysters, so I invite you to take this opportunity to experience them.

In closing, I would like to offer my best wishes for the continued growth of the International Telecommunication Union and good health and happiness for those who attend the symposium.

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H.E. Mr Hidehiko Yuzaki
Governor of Hiroshima Prefecture

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WTIS-15

Welcome messages

I would like to extend my sincere greetings on the occasion of WTIS-15, and offer a heartfelt welcome to each and every participant who has come to Hiroshima.

As you may know, Hiroshima City is familiar worldwide as a place of peace. Peace Memorial Park, home of Hiroshima's symbol – the UNESCO world heritage site of the Atomic Bomb Dome, draws many visitors from around the world, and there is no end in sight to the offerings of flowers and paper cranes at the Cenotaph for the A-bomb Victims and the Children's Peace Monument. Holding WTIS-15 here in Hiroshima will undoubtedly help to deliver a strong impression to the world, in terms of the transmission of the conference's outcome.

Hiroshima originated around 400 years ago as a castle town, and has developed as one of the pivotal cities for industry, economics, and administration in western Japan. Six rivers flow through the city, which is blessed with a warm climate and rich nature. The riverside scenery, seen from tour boats and open cafes, changes with the four seasons, and the beautiful waterfront views of the "City of Water" delight citizens and tourists alike.

I do hope every one of you will take the time to experience our city's rich nature and landscape, food culture, and traditional arts, so that you may feel the full satisfaction of Hiroshima's particular type of hospitality, and share the wish for peace that is our lasting hope. I would be glad if everyone could feel that they would like to come back to Hiroshima again someday.

In closing, I extend my best wishes for the success of WTIS-15, as well as for everyone's health and good luck in their endeavors.

H.E. Mr Kazumi Matsui
Mayor
The City of Hiroshima

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 ICT Development Index (IDI). The IDI is a key international performance measure which captures the level of ICT developments in over 160 economies worldwide and compares progress made during the last year.

Participants

WTIS is attended by around 600 participants from more than 110 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.

ITU 150th Anniversary

The year 2015 marks ITU's 150th Anniversary. WTIS-15 will feature a special ITU 150th Anniversary Opening Ceremony and Dinner to mark 150 years of great achievements.

Celebrating ITU's 150th Anniversary

SUNDAY 29 NOVEMBER 2015

15:00 – 18:00 **Peace programme**

Flower offering for monument at Peace Memorial Park (*Pre-registration only*).

19:00 **Hiroshima Soirée**

Official reception at Grand Prince Hotel Hiroshima
(Hosted by Hiroshima Prefecture, Hiroshima City and MIC).

MONDAY 30 NOVEMBER 2015

08:00 – 09:00   **Delegates registration**

09:00 – 09:30   **Opening ceremony**

- H.E. Ms Sanae Takaichi, Minister for Internal Affairs and Communications, Japan
- Mr Houlin Zhao, Secretary-General, ITU
- H.E. Mr Yasuo Sakamoto, Vice-Minister for Policy Coordination, Ministry of Internal Affairs and Communications, Japan
- Ms Makiko Yamada, Director-General, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications, Japan
- Mr Brahima Sanou, Director, Telecommunication Development Bureau, ITU
- Mr Kiyoshi Mori, Director-General for International Affairs, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications, Japan and Chair of WTIS-15

09:30 – 10:00   **Group picture**

10:00 - 12:00   **Ministerial Roundtable: ICT as a driver of sustainable development**

In September 2015, the international community committed to a new sustainable development agenda, with 17 goals and 169 targets to be achieved by 2030. As a key enabler of development, ICT plays a key role in the policy debate aimed at implementing the 2030 Agenda for Sustainable Development. This session will hear from Ministers across the world how ICT can drive sustainable development. In particular, the session will address the following questions:

- What is the role of ICT in achieving sustainable development goals including in areas such as poverty reduction, education, economic growth or inclusive societies?
- What is the link between the level of ICT access and use and its potential in driving development?
- How can ICT drive innovation and entrepreneurship? What are the requirements and preconditions for unlocking the potential of ICT for innovation, and what is the role of businesses and the public sector?
- What data are required to monitor sustainable development, growth and innovation?

Moderator: Dr Cosmas Zavazava, Chief of Department, Project Support and Knowledge Management, ITU

Speakers:

- H.E. Ms Sanae Takaichi, Minister for Internal Affairs and Communications, Japan
- H.E. Mr Celistino Bonifacio Bakale Obinag, Minister of Transport, Technology, Post and Telecommunications, Equatorial Guinea
- H.E. Mr Debretsion G/Michael, Deputy Prime Minister Ranking, Finance and Economic Cluster Coordinator, and Minister of Communication and Information Technology, Ethiopia

- H.E. Mr Pastor Ngoua N'neme, Minister of Digital Economy and Post Office, Gabon
- H.E. Dr Joao Bernardo Vieira, Minister of Transport and Communications, Guinea-Bissau
- H.E. Dr Sharifah Zarah Syed Ahmad, Secretary General, Ministry of Communications and Multimedia, Malaysia
- H.E. Mr Tjekero Tweya, Minister of Information and Communication Technology, Namibia
- H.E. Mr Mario G. Montejo, Secretary of the Department of Science and Technology, Philippines
- H.E. Mr Alhaji Alpha Kanu, Minister of Information and Communications, Sierra Leone
- H.E. Mr Pansak Siriruchatapong, Vice Minister, Ministry of Information and Communication Technology, Thailand
- H.E. Mr Siaosi Sovaleni, Deputy Prime Minister, Tonga
- H.E. James Kapyanga, Deputy Minister of Transport and Communications, Zambia
- H.E. Dr Win Mlambo, Deputy Minister of Information Communication Technology, Postal and Courier Services, Zimbabwe

12:00 – 13:30   **Lunch Break**

13:30 – 15:30   **Leaders' Dialogue: Future ICT trends, policies and measurement challenges**

Achieving ICT-led sustainable development will require a concerted effort from policy makers, telecommunication regulatory authorities and the private sector. Statistical offices will have to ensure that reliable and policy-relevant data are available to support the right decisions. In view of the time frame of the 2030 Agenda for Sustainable Development, this session will highlight key future ICT trends, address the evolving debate around 5G and the Internet of Things, present examples of effective policies and strategies to cope with those trends, and reflect on measurement approaches necessary to capture these developments. In particular, the session will address the following questions:

- What are regulatory responses to ensure ICTs can be leveraged fully for sustainable development?
- How will technological developments, such as 5G and the Internet of Things (IoT) shape future developments of the information society?
- How will ICT technology trends impact the measurement of the ICT sector, as well as the knowledge that we have of the society as a whole based on new data from the ICT sector?
- How can producers of official statistics, such as Ministries, regulators and national statistical offices, adapt to these future ICT trends so that their contribution to monitoring development remains relevant?

Moderator: Ghida Fakhry, broadcast journalist

Speakers:

- Antonio Correia, Chairman, National Communications Authority, Ministry of Public Works, Transport and Communications, Timor-Leste
- Kazunari Furugen, Senior Vice President, Member of the Board, and Senior Executive Manager of Corporate Business Headquarters, NTT West, Japan
- Areewan Haorangsi, Secretary General, Asia-Pacific Telecommunity (APT)

- Basuki Yusuf Iskandar, Head, ICT Research and Human Resources Development, MCIT Indonesia
- Seung Keon Kim, Vice President, Statistics Information Center, Korea Association for ICT Promotion (KAIT)
- Dražen Lučić, President of Council, Croatian Regulatory Authority for Network Industries (HAKOM)
- Philippe Metzger, Director General, Federal Office of Communications (OFCOM), Switzerland
- Tadashi Onodera, Chairman, KDDI, Japan
- Seizo Onoe, Chief Technology Officer, Executive Vice President, Member of Board of Directors and Managing Director of R&D Innovation Division, NTT DOCOMO, Japan
- Jaume Salvat, CEO, Aggaros
- Stefan Schweinfest, Director, United Nations Statistics Division (UNSD)
- Abdoulkarim Soumaila, Secretary General, African Telecommunications Union

15:30 – 16:00	**Coffee break**
16:00 – 17:30	**Launch ceremony of the ICT Development Index (IDI)**

During this launch ceremony, the results of the latest IDI will be revealed, as presented in the Measuring the Information Society Report 2015. Top performers and dynamic countries will be highlighted. An award will be given to the country ranked first on the IDI 2015 and to the countries that improved most on the IDI.

Moderator: Ghida Fakhry, broadcast journalist

17:30	**Press conference** (for media only)

19:00	**150th Memorial Soirée, Grand Prince Hotel Hiroshima**

Dinner reception at Grand Prince Hotel Hiroshima (hosted by MIC)
150th Memorial speech by Professor Ken Sakamura (ITU 150 Award winner)

TUESDAY 1 DECEMBER 2015

09:00 – 10:30   **A World That Counts: the role of ICT in advancing a data revolution**

In its report to the UN Secretary General entitled "A World That Counts", the Independent Expert Advisory Group on the Data Revolution for Sustainable Development provides a set of recommendations on how to improve data for monitoring sustainable development. This session will highlight the central role of ICT to this data revolution, identify challenges and opportunities, and discuss options for statistical offices to embrace the data revolution. In particular, the session will address the following questions:

- What is the link between ICT growth and the data revolution?
- How can the statistical community become a driving force in the data revolution?
- How can developing countries participate in the data revolution?
- What skills are required by official data producers to exploit new data sources, in particular those from the ICT industry, and what are the capacity building needs in developing countries?
- How can big data sources from the ICT industry complement official statistics and which challenges need to be addressed?

Moderator: Alexandre Barbosa, Head, CETIC.br

Speakers:

- Enrico Giovannini, Full Professor of Economic Statistics, Rome University "Tor Vergata", Italy
- Margarita Guerrero, Director, Statistics Division, UN ESCAP
- Johannes Jütting, Manager, PARIS21 Secretariat
- Tango Matsumoto, CTO & CIO, Fujitsu Limited, Japan

10:30 – 11:00   **Coffee break**

11:00 - 12:30   **Big data and the ICT industry: building effective public-private partnerships**

The ICT sector constitutes one of the major sources of big data, including telecommunication operators, Internet and social media service providers, and satellite companies. A number of statistical offices have started to engage in projects with private data providers in order to exploit such data for official statistical purposes. Key to this discussion are issues of data access and concerns related to data protection, privacy and security. This session will bring together public and private stakeholders to examine best practice cases in building effective partnerships. In particular, the session will address the following questions:

- What are the main issues and challenges to be addressed in terms of accessing and using new ICT data sources and how can data users deal with privacy and legal issues?
- What are examples of model agreements for data sharing between private and public entities?
- What are examples of successful partnerships between NSOs, data providers, academia, etc. and what are the lessons learnt?

Moderator: Stefan Schweinfest, Director, United Nations Statistics Division (UNSD)

Speakers:

- Susan Teltscher, Head, ICT Data and Statistics Division, ITU
- Erik Wetter, Co-founder and Chairman, Flowminder Foundation
- Andrew Murray, Statistician, Central Statistics Office, Ireland
- Igor Kuzma, Senior Counsellor, Statistical Office of the Republic of Slovenia

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

13:10 - 14:00 **Meet the Industry: Part 1**

14:00 – 15:30 **ICT and innovation: policies, measurement and impact**

Science, technology and innovation have been recognized widely as drivers of business development, economic growth and social development. ICTs play a key role in enhancing innovation across different sectors, including health, agriculture, environment, energy, transport, and security. The ICT sector is also highly innovative, constituting an important source of R&D and productivity growth. This session will present emerging topics related to ICT and innovation, addressing the following questions:

- What role does ICT and connectivity have as a driver of innovation, and what are some of the models highlighting the importance of ICTs?
- What are the key indicators used to monitor and track the level of ICT-related innovation, within and outside of the ICT sector?
- How are countries and regional and international organizations measuring innovation and what are the main data sources?

Moderator: Sacha Wunsch-Vincent, Senior Economist, WIPO

Speakers:

- Yuko Harayama, Executive Member, Council for Science, Technology and Innovation, Cabinet Office, Government of Japan
- Sarah Sung Ju Eo, Senior Researcher, Korea Association for ICT Promotion (KAIT)
- John Garrity, Manager, Policy Research, Global Technology Policy, Cisco Systems
- Andrew Ure, Public Policy Manager, Asia-Pacific, Middle East and Africa, Google

15:30 – 16:00 **Coffee break**

Emerging trends: Internet of Things (IoT) and mobile applications as a growing source of development data

Growth in the number of connected devices and mobile apps and their usage has been steep over the past years, in line with the spread of smartphones and mobile broadband access. Such applications are also a rich source of new data that could provide useful input to ICT policy makers and analysts. This session will present concrete examples of mobile apps in the development field and showcase their potential as a source of non-traditional data. In particular, the session will feature:

- An overview of IoT and the growth in mobile apps (numbers, types, origin, devices)
- Examples of new apps and how they contribute new data on the information society, the use of ICTs as well as other development aspects
- Specific development topics such as health, government, business, finance and others

Moderator: Annie Baldeo, Executive Officer, Policy Planning and Market Economics, Telecommunications Authority of Trinidad and Tobago (TATT)

Speakers:

- Steve Chan, Professor and Chair, Cyber Analytics and Network/ Relationship Science, Swansea University
- Mustafa Naseem, Director, Innovations for Poverty Alleviation Lab, Pakistan
- Ludwig Siegele, Technology Editor, The Economist
- Iwao Aota, General Manager, Production Engineering Division, Mazda Motor Corporation, Japan

WEDNESDAY 2 DECEMBER 2015

09:00 – 10:30

Special session: Expert Group on Telecommunication/ICT Indicators and Expert Group on Household Indicators

Over the past year, the Expert Group on Telecommunication/ICT Indicators (EGTI) and the Expert Group on Household Indicators (EGH) have continued their work through the online discussion forums and a face-to-face meeting held in September 2014.

This session will feature:
- The work of the EGH and EGTI since WTIS 2014
- A discussion and agreement on the recommendations and proposals for the future work of the two expert groups
- Country presentations related to topics under discussion in EGTI and EGH, such as data on advanced mobile-broadband technologies and monitoring of over-the-top Internet services

Moderator: Khopotso Mtwazi, Director, Information Society Evaluation, Department of Telecommunications and Postal Services, South Africa

Speakers:

- Alexandre Barbosa, Head, CETIC.br, Brazil and Chair of the Expert Group on ICT Household Indicators (EGH)
- Iñigo Herguera, Professor of Economics, University of Madrid and Chair of the Expert Group on Telecommunications/ICT Indicators (EGTI)
- Sentot Bangun Widoyono, Director of Finance, ICT and Tourism Statistics, BPS - Statistics Indonesia
- Sami Alfakhri, Senior Economist, Communications and Information Technology Commission (CITC), Saudi Arabia

10:30 – 10:45

Break

10:45 - 12:00

Presentation of the Measuring the Information Society Report 2015

For the seventh consecutive year, ITU will publish the Measuring the Information Society Report. The 2015 report presents for the first time a quantitative assessment of the global ITU goals and targets agreed upon at the ITU Plenipotentiary Conference (PP-14) and included in the Connect 2020 Agenda. The report features the latest ICT Development Index (IDI) and its analyses, covering the digital divide and least connected countries. The report presents new data on prices for fixed and mobile telecommunication and broadband Internet services and highlights trends in this regard. The report also looks into recent developments, opportunities and challenges of the Internet of Things (IoT).

This session will present the main findings of the Report, followed by Q&A.

Moderator: Ludwig Siegele, Technology Editor, The Economist

Speakers:

- Susan Teltscher, Head, ICT Data and Statistics Division, ITU
- Esperanza Magpantay, Senior Statistician, ICT Data and Statistics Division, ITU
- Vanessa Gray, Senior Analyst, ICT Data and Statistics Division, ITU
- Ivan Vallejo, Analyst, ICT Data and Statistics Division, ITU

12:00 - 13:30	**Lunch break**
12:40 - 13:30	**Meet the Industry: Part 2**
13:30 – 14:00	**Chair's summary and conclusions**

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

- Mr Kiyoshi Mori, Director-General for International Affairs, Global ICT Strategy Bureau, Ministry of Internal Affairs and Communications, Japan and Chair of WTIS-15

14:00 – 14:30 **Closing ceremony**

- H.E. Mr Yasuo Sakamoto, Vice Minister for Policy Coordination, Ministry of Internal Affairs and Communications, Japan
- Mr Brahima Sanou, Director, Telecommunication Development Bureau, ITU

14:45 **Excursion to Miyajima**

19:00 **Closing Reception: Think digitally and enjoy locally**

At Takanobashi Shopping Arcade in Hiroshima City

WTIS-15 side events

TUESDAY 1 DECEMBER 2015

13:10 – 14:00   **MEET THE INDUSTRY: PART 1** (Main Conference Room)

"Effect of e-government on private companies and cutting edge ICT technology"

Opening Remarks: H.E. Mr Yasuo Sakamoto, Vice-Minister for Policy Coordination, Ministry of Internal Affairs and Communications, Japan
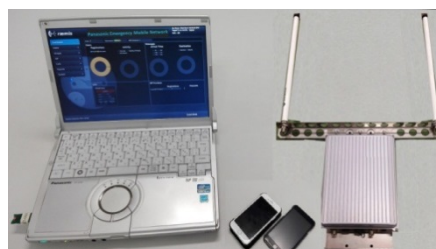
The new role of e-Government for industries

Many governments have been developing new roles for e-government activities in collaboration with industries. New major functions are created based on a data-driven economy with usage of open/big data. The Waseda Institute of e-Government of which Prof. Dr Obi is president, has published the World e-government ranking survey annually using the indicators from ITU for evaluating the progress of its activities and contributing to the private sector via online services with innovative applications. In this regard, he will focus on the benefit of industries by the public- private-partnership (PPP) scheme with e–government promotion by global perspective. Also, he will emphasize that the strength of SME is the key for this partnership.

Speaker: Prof. Dr. Toshio Obi, Professor and Director, Institute of e-Government, Waseda University, Japan, and Executive Adviser, Communication Industries Association of Japan (CIAJ)

Introduction of ICT Resource Unit for contribution to disaster relief and bridging the digital divide

Panasonic Corporation introduces ICT resource unit which is required from some countries. This is the unit to accommodate Cellular BTS, management software and various equipment in response to customer's request. It can be applied to restoration of communication in case of disaster by the government/state/municipality at a disaster site where external power sources and commercial cellular networks are damaged. The unit also contributes to bridging the digital divide. It works outside cellular coverage without the commercial power.

Speaker: Mr Keizo Ishiguro, Director, Organization Staff R&D Division, AVC Networks Company, Panasonic Corporation, Japan

Moderator: Mr Mutsuharu Nakajima, Director for International Policy Coordination, International Policy Division, Global ICT Strategy Bureau, MlC, Japan

WEDNESDAY 2 DECEMBER 2015

12:40 – 13:30   **MEET THE INDUSTRY: PART 2 (Main Conference Room)**
"Example of progressive ICT business by Hiroshima local companies"

Opening Remarks: Mr Taihei Kurose, Director-General, Chugoku Bureau of Telecommunications, Ministry of Internal Affairs and Communications, Japan

Gunkanjima-island project

Keisoku Research Consultant Co., Hiroshima supports infrastructures to be long lasting by inspection, survey and monitoring using the latest remote sensing technology to maintain the infrastructure of roads or bridges. They also consider these technologies and know-how, to be able to contribute to the conservation of cultural heritage.

Since 2010, the 3D survey project for Gunkanjima-island, which was used in the James Bond film "007 Skyfall" and is registered to the World Heritage list, has been carried out.

They produced a whole 3D-model of this island from the image analysis technology "Structure from Motion" and a huge number of aerial photographs by UAV and they exhibit these visual contents at Gunkanjima digital museum which opened this September. Moreover, they tried a restoring simulation of the old days of Gunkanjima-island which we can no longer see. This makes it possible to understand visually the process of coal production.

Speaker: Mr Keisuke Kimoto, Section Chief, Creative Engineering Space Section, Keisoku Research Consultant Co., Hiroshima, Japan

Flying our dreams with RC helicopters

Hirobo Limited was founded in 1949 as a spinning company. 30 years later, they tried to change their business. One of the new businesses they started from 1977 was manufacturing radio control model helicopters for hobby collectors. They grew to be the No.1 manufacturer in the world. They started manufacturing industrial RC helicopter from 1988. Since 2012, their challenge is to develop the world's first electric unmanned coaxial counter rotation helicopters which they are exhibiting in this Symposium.

Speaker: Mr Takahiro Kobayashi, Manager, Model Section, LF Manufacturing Department, Hirobo Limited, Japan

Moderator: Mr Fusanobu Yonago, Director for Technology Cooperation, International Policy Division, Global ICT Strategy Bureau, MIC, Japan

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