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| INTERNATIONAL TELECOMMUNICATION UNION | **ICT&CC Joint Coordination Activity (JCA- ICT&CC)** |
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| **Title:** | Report of the fourteenth meeting of the JCA on ICT&CC |

# 1.1 General

The fourteenth Meeting of the JCA on ICT and Climate Change was held on 10 October 2014 online under the Co-Chairmanship of Mr. Ahmed Zeddam and David Faulkner. The meeting focused on “Updates from ITU-T, ITU-D, ITU-R and General Secretariat”.

# 1.2. Agenda

# The agenda (Doc. 124 rev 3) was approved as amended.

# 1.3 Ahmed Zeddam, Chairman’s report on JCA ICT&CC and ITU-T/SG5 activities

Ahmed Zeddam said that SG5 on ‘Environment and Climate Change’ had its last physical meeting in Lima, Peru. The schedule included a meeting of this JCA on 5 December 2013 which was both face to face and online.

There Paolo Gemma who is Chairman of ITU-T SG5/WP5 gave an overview of the activities related to environmental sustainability carried out by CEN/CENELEC. There were also presentations on IEC and ISO/IEC JT1. Mr. Gabelloni provided a detailed report on the workshop on “Environmentally Sound Management of E-waste” jointly organized by ITU and CITEL in Mendoza, Argentina.

 Ahmed Zeddam informed that Draft Recommendation ITU-T L.1002 “External universal power adapter solutions for portable information and communication technology devices” is still in process and it is hoped that finalisation will take place at the forthcoming meeting of SG5 in Koichi, India.

Working Party 3/5 met in Geneva from 19 to 23 May 2014. The meeting was well attended. This meeting was met in conjunction with experts of TC ETSI EE.

At this meeting a new Recommendation was consented. This was L.1501 “Best practices on how countries can utilize ICTs to adapt to the effects of climate change”.

Three Revised Recommendations were also consented. The consent on L.1410, “Methodology for Environmental Life Cycle Assessment (LCA) of information and communication (ICT) goods, networks and services” is particularly important as ETSI has a standard on the same topic. This ITU-T Recommendation provides a common standard. SG5 has presented the document for approval (under AAP) and aims to finalise it as soon as possible. Other revised Recommendations consented at the meeting were ITU-T L.1300 “Best practices for green data centres” and ITU-T L.1310, “Energy efficiency metrics and measurement methods for telecommunication equipment”.

At the meeting several new work items were agreed. Q13/5 (Question 13) will work on a draft text entitled “Implementation guidelines for ICT supply chains due diligence on conflict minerals”. Q14/5 agreed to work on a Supplement on “Using Fibre Optic Cable to set up a low cost sustainable telecommunications infrastructure for rural communications in developing countries” and a Supplement on “Using Hybrid Satellites to set up a low cost sustainable telecommunications infrastructure for rural communications in developing countries”. Q15/5 agreed to work on a Supplement “Overview of climate change effects and possible impacts” also aimed at developing countries.

SG5 is responsible for two focus groups. These are the Focus Group on Smart Sustainable Cities (FG-SSC) and the Focus Group on Smart Water Management (FG-SWM). Details of their upcoming meetings can be found in Slide of 14 of Doc 125 along with future meetings of this JCA on November 10th (virtual) and December 9th (in Koichi, India).

# 2. Presentations and Discussion

**2.1** **Updates from ITU-T, ITU-D, ITU-R and General Secretariat:**

# 2.1.1 Vadim Nozdrin, Overview of ITU-R’s activities (Doc. 129)

Mr. Nozdrin (Counsellor, ITU-R Study Group 7 &Working Party 5B) gave an overview of the activities related to Climate Change carried out by BR. At WRC-12 the worldwide spectrum for 24-hour thunderstorm (lightning) detection systems was granted. Worldwide spectrum for oceanographic radars was also discussed. Measurement of wave height and Ocean currents allows forecasts to be produced on: fish migration, pollution flow, search and rescue, and tsunami. At WRC-15 the spectrum for active sensing will be discussed. This facilitates climate monitoring, the studying of natural systems, monitoring of potential hazards, disaster management, and population monitoring. Also at WRC-15 new global spectrum for broadband public protection and disaster relief (PPDR) will be considered which recognises the need for video and improved situational awareness to ensure safety of human life. Studies on satellite systems are in ITU-R/SG4 and studies on terrestrial systems are in ITU-R/SG5.

# 2.1.2 Hani Eskandar, Overview of Question 1/2: Creating the smart society: Social and economic development through ICT applications (Doc 127)

Mr. Eskandar presented the activities of the new ITU-D Study Question “Creating the smart society: Social and economic development through ICT applications”. The study will be carried out in ITU-D SG2 Q1 covering the key roles that ICTs can play in creating the “Smart Society” in terms of the protection of property and persons; smart management of motor vehicle traffic; saving electrical energy; measuring the effects of environmental pollution; improving agricultural yield; management of healthcare and education; management and control of drinking water supplies; and solving the problems facing cities such as land management, infrastructure construction including buildings and urban transport networks. The expected output will be

1. Case studies on how to enable use of telecommunications, including M2M communications, and access to ICT applications to support sustainable development and foster smart societies in developing countries.

2. Analysis of factors affecting the efficient roll-out of connectivity to support ICT applications that enable e‑government applications in smart cities and rural areas.

3. Sharing of best practices in the use of ICT networks to enable road safety.

He shared the table of contents of a draft report with focus on smart societies for developing countries.

The Rapporteur will harmonise this activity with the activities of the Focus Group on Smart Sustainable cities and the Focus Group on Machine to Machine Communications.

# 2.1.3 Maritza Delgado, Update of BDT activities on ICTs and Climate Change

Ms. Delgado made this presentation on behalf of Mrs. Fuatai Purcell, Head of LSE Division. PKM/BDT. BDT is mandated to assist countries to develop policies on climate change adaptation and mitigation, legal and regulatory frameworks for disaster risk reduction, relief operations, recovery and early warning and alerting. As well as implementation of projects related to the mandate. She outlined the activities of four study groups which have activities related to climate change.

Examples of projects include: an early warning system for floods in Uganda, building human and institutional capacity in the use of monitoring data in rural areas, deployment of MDRU (Movable and Deployable ICT Resource Unit) to facilitate better disaster preparedness and response for Philippines, Satellite Connectivity in SIDS of the Pacific Islands, the Agreement signed in Samoa at SIDS conference is now in its first face of implementation. Tuvalu and Micronesia have already started with the project. BDT is working closely with the WMO on the use of weather stations for Climate Change Adaptation.

# 2.1.4 Mischa Liatowitsch, Overview of General Secretariat’s activities (Doc 128)

Included in his presentation was a report of the activities of the ITU Broadband Commission Task Force on Sustainable Development. Out of the 17 proposed Sustainable Development Goals (SDGs), only 4 reflect the important role of broadband and ICT for development (education, gender equality, resilient infrastructure, and means of implementation). The Broadband Commission believes there is considerable scope to integrate the unique role of ICT more fully into the current proposal for SDGs. A report has been written to describe these possible actions.

Following this the ITU participated in the Climate Summit held on 23 September 2014 at UNHQ, New York and convened by UN Secretary-General Ban Ki-moon. The key outcomes were

1. Pledges to the Green Climate Fund (GCF) for a total of around $2.3 fairly below the target of $15 billion

2. Joint support to pricing carbon by 73 governments, 11 regional governments and more than 1000 businesses

3. Commitments on cutting emissions made by world leaders as well as new and existing public/private coalitions

4. Long-term vision aimed at finalizing a meaningful agreement at COP-21 with a first draft ready by the end of COP-20.

The ITU plans to have more limited involvement in the UN Climate Change Conference (COP-20/CMP-14 in Lima, Peru 1-12 December 2014) owing to the close timing with the Plenipotentiary Conference 2014 (PP-14). The ITU’s regional office will represent ITU at the conference. ITU´s goal at the conference will be to continue to be perceived as an agency that participates in and contributes to the UNFCCC process and feeds the work of the UNFCCC into the work of ITU Study Groups and vice versa and to highlight that UN agencies are tackling climate change as “One UN”. There will be a “One UN” exhibition area where agencies present their work in joint-exhibit booths.

There was some discussion about other possible topics which could be included in the ITU booth.

# 2.1.5 Cristina Bueti, Overview of ITU-T’s activities (Doc 125)

Ms Bueti reported on the ITU-T SG5 Regional Group for Asia and the Pacific (SG5 RG-AP). This met in Beijing, China on 26 September 2014 in conjunction with the ITU-T Green Standards Week. The Green Standards week ‘Call for Action’ proposed closer links between the ICT and electricity sectors.

Ms Bueti presented an overview of ITU-T’s environmental programme including the upcoming activities of

1. ITU-T SG5, Next meeting: 8-19 December 2014, Koichi, India

2. This JCA, Next e-meeting: 10 November 2014

3. The Focus Groups on ‘Smart Sustainable Cities’ Next meeting: 13-16 October 2014, Geneva, Switzerland

4. The Focus Group ‘Smart Water Management’ Next meeting: 17 October 2014, Geneva, Switzerland.

She encouraged participants to become more aware of the importance of these topical meetings and join in the discussions by attending.

In her presentation she included details of the latest publications from ITU-T and information about the Global portal on ICTs, environment and climate change.

# 2.2. Contributions and Open Discussion

There were no other contributions.

Open discussion was held at the end of each presentation with no further discussion at this point because of lack of time.

# 3. Any other business

David Faulkner thanked and congratulated the speakers for their valuable contributions.

# 4. Next Meeting

The Fifteenth Meeting of JCA ICT&CC will have a special focus on “Energy efficiency”.

It will take place online only on November 10th 2014, 12:00-13:30 hours CEST.

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