

INTERNATIONAL TELECOMMUNICATION UNION

ITU ASIA-PACIFIC  
CENTRES OF  
EXCELLENCE

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**FINAL REPORT**  
OF THE  
2ND STEERING COMMITTEE MEETING

28-29 JANUARY 2016

BENGALURU, INDIA

## 1.0 INTRODUCTION AND OPENING

The 2<sup>nd</sup> ITU Asia Pacific Centres of Excellence (ASP CoE) Steering Committee Meeting was held in Indian Institute of Management, Bengaluru, India, on 28-29 January 2016. The Meeting was organized by the ITU and hosted by the Ministry of Communications and Information Technology, India. It was attended by 53 delegates including ITU ASP COE Steering Committee Members, GCBI Member from Asia-Pacific Region, Centres, Partners, ITU Members, ITU Secretariat and other agencies. The list of participants is attached to this report (Annex 1).

Mr. Indrajeet S. Khanna, Deputy Director General (International Relations), Department of Telecommunications welcomed all the delegates to the meeting on behalf of the Government of India. He recalled the growth that ICT has undergone over the years and congratulated the CoE for the progress made. He also thanked the Steering Committee meeting and expressed support of India to the initiative.

Mr. Ioane Koroivuki, Regional Director, ITU Regional Office for Asia and the Pacific. On behalf of ITU, Mr. Koroivuki thanked Ministry of Communications and Information Technology, India for hosting the Meeting. He briefed the participants on the ITU Academy initiative and the ITU Asia-Pacific CoE. He also thanked the CoEs, the Partners and participants to the meeting.

Ms Kalaya Chinatiworn, Chairman of the ITU ASP CoE steering committee briefed the participants on the progress made by the ITU ASP CoE in 2015. She thanked all the stakeholders for their kind support in delivering high quality trainings and encouraged all centres to take CoE to next higher level in collaboration. The chairman also requested CoEs to enhance promotion of the course.

Mr. Narendra Kumar Yadav, Member (Services), Ministry of Communications and Information Technology, India opened the meeting and delivered the keynote address. He welcomed the participants to the 2<sup>nd</sup> ITU ASP CoE Steering Committee Meeting. He highlighted the dynamics of the ICT sector and the need to build excellence in this area in cooperation with the ITU. Mr. Yadav congratulated Thailand and the ITU ASP CoE stakeholders and called for strengthening this initiative further. He also shared the recent initiatives taken by the Government of India in ICT including plans of Digital India, Make in India, Start Up India. Mr. Yadav acknowledged the efforts of BSNL and ALTTTC to the ITU Asia-Pacific Centres of Excellence. He also called upon to establish link between CoE and university to distribute content to wider stakeholders. With India assuming the

chairmanship for the coming year, Mr. Yadav assured the Steering Committee members, CoEs, ITU and Partners that India will extend its full support to accomplish collective objectives of the region in capacity building and AL TTC will deliver its best as an ITU Centre of Excellence.

Mr. Anupam Shrivastava, Chairman and Managing Director, BSNL, thanked the organizers and congratulated CoEs for their efforts on building capacity on telecom and ICT. Mr. Shrivastava mentioned on the growth being experienced in the BSNL network, which highlights the trends. He recognized the importance to bridge this digital divide and the need for capacity building. He thanked the ITU for recognizing AL TTC as a CoE and detailed the training centres nationwide. Mr. Shrivastava invited all interested partners to collaborate with the AL TTC.

Mr. Rakesh Garg, Secretary, Department of Telecommunications, in his message delivered by Mr. Khanna congratulated ITU, Centres of Excellence and its partners for their efforts in bridging digital divide through capacity building. He emphasized that delivering state of the art and relevant programs for all the players is important to ensure capacity building at strategic and operational levels. He also called for the industry to partner with the CoEs in this process and make it successful. In his message, he briefed the participants on the efforts of India to provide broadband services to over 250,000 village panchayats (the smallest administrative units of local self-government) in the country. Recognizing the high emphasis of India on capacity building in broadband, Mr. Garg assured that AL TTC would make every efforts to deliver cutting edge programs on 'Broadband Access' in accordance with international standards, benefitting the stakeholders in the Asia Pacific Region.

## **2.0 PERFORMANCE OF ITU ASP COE 2015**

The performance of the ASP CoE Network for 2015 was presented by the ITU ASP CoE Coordinator Mr. Ashish Narayan. He also shared the strategic areas of focus for ITU-D for 2015-2018, globally and in the Asia-Pacific region. Mr. Narayan emphasized on the need for development of high quality training, enhanced engagement of partners, development of unique content aligned with ITU's strategic direction. The performance report was adopted by the steering committee.

## **3.0 CONFIRMATION OF THE ITU ASP COE STEERING COMMITTEE AND CHAIRMAN**

The Steering Committee Members of China, India, Malaysia, Thailand, Vietnam, GCBI Member (Mr. Indrajeet Khanna) and the ITU attended the meeting. In accordance with the CoE procedures, India assumed the Chairmanship of the ITU Asia-Pacific Centres of Excellence from Thailand until the next Steering Committee Meeting.

#### 4.0 ITU ACADEMY PRESENTATION

Mr. Mike Nxele, Human Capacity Building Officer, Telecommunication Development Bureau of the ITU presented the ITU Academy activities, the global compositions of the 32 ITU Centres of Excellence and the synergy with other ITU Bureaus.

Mr. Nxele also informed the meeting of the Global Human Capacity Building Symposium which will be held in September this year in Nairobi, Kenya, and urged all Centres of Excellence to participate in this event. Exhibition space will be made available for Centres to showcase their work in training and Capacity building.

He also detailed the implementation of the CoE programs in 2015 and mentioned about the training materials developed by the ITU Academy in the key areas including Spectrum Management, Quality of Service, ICT & Climate Change and existing materials in areas of Broadband, Smart Sustainable Cities, Conformance & Interoperability amongst others.

Following the presentation, Mr. A. Gururaj from Telecom Sector Skill Council enquired if ITU has done any study on the skills requirement globally and what mechanism is used to determine the demand. The representatives from ITU mentioned that the priorities of the ITU are set by conferences and other strategic document. Further, the ITU received inputs on upcoming issues of high importance from its capacity building program feedbacks, ITU COEs and partners experiences, and demands expressed from other ITU programs.

Commodore J. Jena, Deputy Director General, COAI expressed the need for focusing on application of ICT technology. He offered cooperation between the 8 Indian TCoEs ([www.tcoe.in](http://www.tcoe.in)) and the ITU ASP CoEs.

The representative from PITA, Mr. Fred Christopher, thanked the ITU ASP COEs for continuing support to the training in the Pacific.

The Chairman, enquired about the progress on NIA and IMPACT. Mr. Ioane Koroivuki, Regional Director briefed the steering committee on the progress with NIA and IMPACT.

The Chairman also urged the CoEs not to postpone courses unless completely unavoidable in order not to inconvenience the participants.

The Steering committee also mentioned the need to examine the current evaluation criteria.

#### 5.0 PRESENTATIONS BY CENTRES OF EXCELLENCE

The Chairman invited the ITU ASP Centres of Excellence for their presentation. The following presentations were made:

- **State Radio Monitoring Centre (SRMC), China:** Dr. Jingchun Li, Deputy Director General and CTO, SRMC, introduced the organization structure, functions as well as laboratory capacities of SRMC. He informed the participants about the experience with training on Spectrum Monitoring held from 4-12 August 2015. He also introduced the training plan of spectrum management in 2016 including face to face training on Spectrum monitoring and online training on spectrum management in 2016.
- **Ministry of ICT - TOT Academy (Thailand):** Ms. Sudaporn Vimolseth, Vice President introduced the TOT Academy, the history, vision, clientele, partnerships and experiences in organizing training activities. She detailed the knowledge management activities being undertaken at the corporate, national, regional and international level. She briefed the participants on the program of ITU ASP CoE for 2015. For 2016, she proposed the following activities:
  - Making Quadplay Pay: Costing and Pricing Infrastructure Access (in partnership with NBTC)
  - Internet and IPv6 Security (in partnership with APNIC)
  - Internet of Things (in partnership with NBTC)
- **China Academy for Information and Communication Technology (CAICT), China:** Ms. Li Fu made the presentation on behalf of the CAICT and China Telecommunication Technology Labs (CTTL). She introduced the organizations, their structures, functions and competencies.

They also introduced the international certification work as well as laboratory capacities. Ms. Fu informed the meeting about the course conducted in 2015, and proposed the following trainings for 2016

- Conformance and Interoperability, Online training
- Conformity and Interoperability with focus on 4G LTE and IMS. Face to face, (October 2016)

- **Advanced Level Telecom Training Centre (ALTTC), India:** Mr. D.N. Sahay introduced the ALTTC structure, history, functions, equipment, partnership and core competency. He introduced the various workshops and trainings being conducted by the ALTTC for national and international organisations.

He briefed on the training programs conducted in 2015 and proposed the following topics for 2016

- NGN Project Planning and Costing,
- Net Neutrality
- Broadband Access Technologies including Whitespace
- Designing Mobile Applications Platform in Telecom Environment
- Critical Factors for success in Broadband Roll out

He also proposed to offer partnership on setting up other training centres for countries in need.

Dr. Sushil Vachani, Director, Indian Institute of Management, Bangalore addressed the meeting. He introduced the concept of MOOC, which is now been adopted by top universities globally to scale out education. He also informed the participants about IIM Bangalore's endeavour and courses being offered under EdX. He detailed the success of these courses and shared his vision to develop the courses that can reach the masses and provide them the knowledge they need. Dr. Vachani offered partnership to ITU and its Members for working together.

The following partners offered partnership through email.

- Globeron: Mr. Ronald van Kleunen, CEO offered to partner trainings on Wi-fi.
- APNIC: APNIC has offered to support the training on "Internet and IPv6 Infrastructure Security"

The following partners offered

- IIM Bangalore: Prof. Gopal Naik made a presentation of study on the demands of rural population to improve livelihoods. He highlighted the importance of education, health, agriculture, employment, banking and telecom connectivity.

- Gumbi Software: Mr. Satish Hegde mentioned about the use of satellite based education in remote parts of the country used to promote tele-education. With effective use of technology, he mentioned that, the cost per child for education is very low using this solution.
- Tene Agri: Mr. Y.B. Srinivasan, Managing Director, Tene presented the e-agriculture solution including the pest solution and use of agriculture. Tene Agri offered to partner and build solutions and / or capacity in the area of e-agriculture.
- NTIPRIT: Mr. Vineet Verma, Director, NTIPRIT offered partnership with CoE and ALTTC. (Network Security and Access). They also expressed interest to be a training delivery partner for Green Telecom and Smart City courses of the ITU.
- NICF: Mr. Ajay Kumar, Deputy Director General offered on behalf of NICF to provide specialized training in communications finance. NICF are looking for partners in the area of training in finance and making telecom services affordable.
- Huawei: Mr. Subrata Kumar Mitra, Director Public and Government Affairs, Huawei expressed support through product and expertise to ALTTC and other CoEs. He also mentioned the need to build capacity in the area of increasing Broadband penetration.
- IEEE: Mr. Hwa Chiang Leo offered support to ITU ASP CoE and offered to work together in the area of capacity building. He also offered experts to join IEEE conference during Communique Asia.
- Ministry of ICT Iran: Mr. Hassan Pashaey, Faculty of ICT, Ministry of ICT, Iran offered to be a partner in the ITU ASP CoE and requested to do training in the areas of "Mobile Broadband" and offered partnership in other trainings.
- PITA: Mr. Fred Christopher, Manager highlighted that it is important to consider the need for capacity building in the Pacific while framing the CoE program. He appreciated the partnership and proposed to continue as logistics support to do trainings in the Pacific.
- COAI: Commodore J. Jena, Deputy Director General, COAI introduced the initiative of Indian TCoEs comprising of 8 research centres. He proposed that the ITU training modules can be linked with job function in coordination with skill council to make students job ready. He also mentioned that M2M and IOT are emerging as fields of industry requirement.

## 6.0 KEY ISSUES DISCUSSED AND DECISIONS TAKEN BY THE STEERING COMMITTEE

The participants including representatives of Members, Centres and Partners held active deliberation on the key issues. After discussion, the decisions of the Steering Committee on these issues were as follows:

Issues for consideration	Decision of Steering Committee
<b>Time limit for finalization of program agenda, dates and invitations for 2016</b>	It was decided that all Centres should send their final course proposals by 15 February 2016.
<b>Deadline for Issue of invitation</b>	It was decided that the timeline for issue of invitations should be - 3 months for face to face programs, and - 2 months for online training programs
<b>The strategic direction of the ITU Asia-Pacific CoE 2016 and onwards,</b>	<p>Core strategy of ITU ASP CoE includes unique content, international character, high quality, alignment with ITU mandate, leverage on partnerships, deliver at low or no fees.</p> <p>Establish mechanisms to scale out CoE operations through partnerships, online learning, adoption of MOOCs.</p> <p>Enhancing participation of LDCs, LICs, LLDCs and SIDSs</p> <p>Steering Committee strongly recommends CoEs to conduct at least one course in Pacific Island Countries, LDCs, LICs, LLDCs</p> <p>Consider training on issues such as Emergency Telecommunication</p>
<b>Content Development</b>	<p>Include Peer Review</p> <p>Keeping ahead of the curve in technology areas</p> <p>Focus on these courses to enhance employability and accreditation</p>
<b>Experts and content</b>	CoEs to ensure international practices in the training content
<b>Promotion plan</b>	Request all steering committee members, CoEs and partners to promote all the courses. Identify key stakeholders in the country to send the invitations.

	<p>Enhance Inter-CoE co-operation.</p> <p>Identify target audience clearly - then look at how to promote?</p> <p>Contact industry associations and respective skill building entities, universities and Academia</p> <p>ITU may consider to setup post training communication and development.</p> <p>Develop annual training brochure with all details ahead of time. CoEs to submit training plans to Steering Committee at least 1 month in advance of the SC meeting.</p> <p>A common brochure to be developed immediately after the decision of the steering committee in hard copy and soft copy. ITU Secretariat to provide design.</p>
<b>Training fees amount</b>	The Steering Committee approved a ceiling of USD 800 per week as the applicable maximum fees for face to face trainings and USD 100 per person for online trainings.
<b>Decisions between Steering Committee meetings to meet new demand</b>	In order to cater to new demands that arise after the steering committee meeting, new courses can be proposed to Chair with information to Steering Committee Members, in the stipulated areas of respective CoEs, while providing a timeframe of 1 week for any comments that they may have.
<b>Training Material Approval Process</b>	The training material to be submitted to ITU at least 1 month in advance.
<b>Create a community communication platform for CoE Steering Committees</b>	The ITU to create the community on ITU Academy
<b>ITU revenue share percent</b>	The Steering Committee recommended to continue the revenue share of 20 % to the ITU.
<b>Encourage senior level participants</b>	Change name from training to program  Target curriculum to audience

	Faculty is critical for delivery of the program
	Brand of the host organisation
	Title of the program
<b>Next CoE SC meeting</b>	Representative of China expressed her gratefulness to the host for the hospitality. China proposed to host the next steering committee in China in Q4, 2016. The steering committee was pleased to accept the offer.

## 7.0 EVALUATION GUIDELINES

The following guidelines for evaluation were recommended by the Steering Committee

### *Online Courses*

Current practice for online courses

- Quiz: 60%
- Chat session: 10%
- Discussion Forum: 10%
- Assignment: 20%

**Eligible criteria for certification --- 60%**

### *Face to Face*

- *Current practice for face to face*
  - *Attendance: From 10% to 20%*
  - *Individual class participation, Group Exercise and Innovative Ideas: From 30% to 35%*
  - *Quiz: From 60% to 45%*

**Eligible criteria for certification --- 60%**

## 7.0 ITU ASIA-PACIFIC CENTRES OF EXCELLENCE PROGRAMS PROPOSED FOR 2016

	Training topics	CoE	Dates	Venue	Partners
1	NGN Project Planning and Costing	ALTTC	08-12 February	Ghaziabad, India	
2	Spectrum Monitoring	SRMC	16-22 May	Chengdu, China	

<b>3</b>	Making Quadplay Pay: Costing and Pricing Infrastructure Access	MICT (Thailand)	13-17 June	Bangkok, Thailand	NBTC
<b>4</b>	Internet and IPv6 Infrastructure Security	MICT (Thailand)	23-27 May	Bangkok, Thailand	APNIC
<b>5</b>	Internet of Things	MICT (Thailand)	15-19 Aug	Bangkok, Thailand	NBTC
<b>6</b>	Net Neutrality	ALTTC	Q3	Ghaziabad / Delhi	COAI, NTIPRIT, NICF, TRAI
<b>7</b>	ICT Applications for rural development: Deploying strategic solution	ALTTC			IIM Bangalore
<b>8</b>	Making Broadband Universal: Critical Factors for success in Broadband Roll out, available, affordable	ALTTC	Oct Week 1		MICT Iran
<b>9</b>	Telecom Strategy for the Pacific: Implementation aspects	ALTTC / MICT		Pacific	PITA
<b>10</b>	IP Multimedia Subsystem (IMS) and 4 Generation-Long Term Evolution (4G-LTE)	CAICT	17-21 Oct	Beijing, China	NTIPRIT
<b>11</b>	Mobile Broadband	ALTTC		Iran	Iran
	Online Trainings	CoE	Dates	Partners	
<b>1</b>	Conformity and Interoperability :PTN (Packet Transport Network) Interoperability Test, EMC regulatory requirements for ICT products, Mobile Terminal Testing	CAICT	April		
<b>2</b>	Spectrum Management	SRMC	Q3 2016		
<b>3</b>	Broadband Access Technologies	ALTTC			[partners] / Microsoft

The meeting ended with closing remarks from Mr. Ioane Koroivuki, Regional Director, ITU Regional Office for Asia-Pacific and Mr. Indrajeet S. Khanna, Deputy Director General, Ministry of Communications and Information Technology, India.



ANNEX 1: LIST OF PARTICIPANTS

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