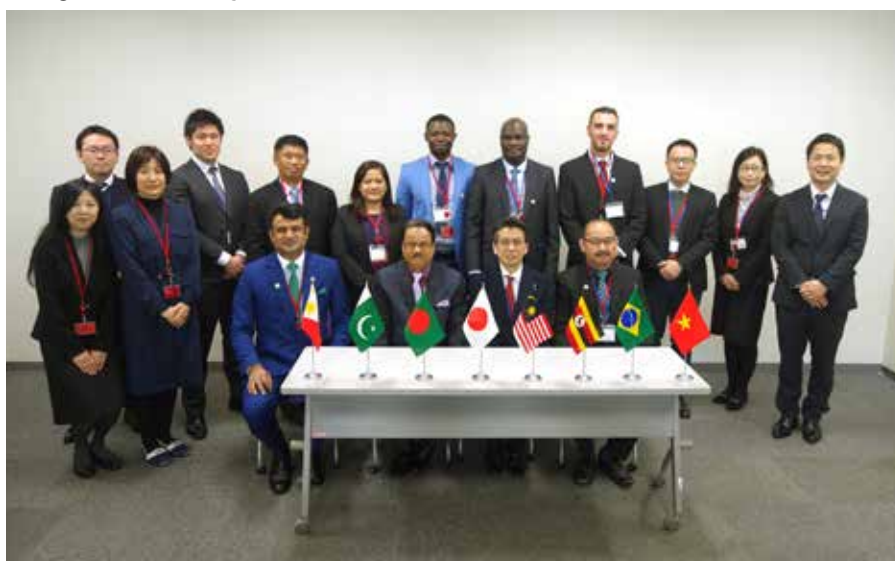


FY2019 JICA Knowledge Co-Creation Program: Improving ICT Policy Promotion Skills Utilizing Standards

— Overcome challenges by deployment of ICT infrastructure corresponding to the situation —

International Cooperation Department
The ITU Association of Japan

■ Figure 1: Courtesy visit to MIC



For two weeks from January 24th to February 7th, 2020, the ITU Association of Japan held a group training course on behalf of the Japan International Cooperation Agency (JICA). The course was implemented by the ITU Association of Japan with the support of the Ministry of Internal Affairs and Communications (MIC), as part of a three-year program from FY 2019 to FY 2021, and this was a new training course in the program.

In the training course, our aim was to support trainees, deepening their understanding of ICT standards and policies, improving their ICT policy planning and promoting skills for developing suitable ICT infrastructure to overcome challenges, incorporating standards and international trends.

This year there were nine trainees from seven countries: Brazil, Malaysia, Pakistan, Philippine, Uganda, Vietnam and Bangladesh.

The training started with a series of

lectures on Japanese government policies relating to ICT standardization, radio wave utilization and telecommunication business. These were followed by lectures and presentations on problem analysis methods (PCM), country reports, ITU standardization trends, activities of standardization organizations in Japan, related standardization activities at other companies and groups, and individual reports. There were also visits to related facilities. Program details are given below.

First, there were three lectures on Japan's communication and standardization policies from the MIC, on the topics of ICT standardization, radio policy, and telecommunications policy.

The trainees then received a lecture on Project Cycle Management (PCM) analysis methods, with the aim of using PCM to extract elements of standardization activities and to conduct a preliminary study of Japan's activities. They identified standardization-related

issues in their own countries and held group discussions to share knowledge and information among themselves. This PCM lecture was delivered before the trainees each presented their individual reports, and in group discussions each trainee had the opportunity to draw up problem-solving methods for standardizing ICT in their own countries. Through this active learning, the trainees were able to summarize the state of standardization activities in their own countries.

There were also two lectures on activities of Japanese Standardization organizations: *Standardization trends of ITU-T and TTC in ICT field* from the Telecommunication Technology Committee (TTC) and *Standardization of Radio Systems* from the Association of Radio Industries and Businesses (ARIB).

Standardization activities of communication business groups were presented in lectures including: *KDDI's ICT Service and R&D Technology Strategies* (KDDI), *Global Standardization of Mobile Communication Systems* (NTT Docomo), *Trends in Network Standardization* (NTT), *Standardization in ITU-T SG20 and Smart City use cases* (NEC), and *Standardization of Sensor Information Model for Infrastructure Monitoring Using IoT Area Network* (OKI).

Various companies and organizations conducted facility tours and lectures, which included a visit to TELECOM ENGINEERING CENTER (TELEC). There, trainees attended a lecture titled *Certification System for Radio Equipment in Japan* and viewed radio-equipment standard certification facilities, giving them an understanding of the importance of standard certification. At the National Institute of Information and Communications Technology (NICT), the trainees viewed an exhibition of NICT's latest research and attended

■ Figure 2: Group presentation after the lecture



■ Figure 3: Observation in NICT



a lecture titled *Standardization Activities in NICT*. At the Fujitsu Kawasaki Factory, the trainees visited the Fujitsu showroom (technology hall) and received a lecture titled *Rule-Making Activities to Solve Social Issues*. At the NHK Broadcast Center, the trainees were shown around the Technical Operation Center (TOC) and Cross Media Station, and received lectures titled *Setup of Digital Terrestrial Television Broadcasting Network*, *The role of broadcasting and telecommunication and their possibility for collaboration*, and *The Outline of NHK Digital Content Service*. At the HEMS^{*} Interoperability Test Center at Kanagawa Institute of Technology, the trainees were shown ECONET Lite equipment in an actual smart house, and received a lecture titled *Current Status of Smart-Houses*.

As a tour of Japanese culture for the trainees, we also arranged English-speaking volunteer guides for a visit to the Meiji Shrine and the Harajuku district (Takeshita-dori) at the end of the training course.

On the final day, each trainee presented an individual report. These

reports included a discussion of the current state and future prospects for standardization in each of their home countries. These were summarized using PCM and other methods, and resulted in lively discussions on the progress of ICT standardization in each country.

After the course, we asked the trainees for their evaluations, opinions and requests regarding lecture content,

textbooks and facility tours. We analyzed and examined the evaluation results, and identified improvements in the course implementation. The training course was rated highly by the trainees.

The ITU-AJ intends to further enhance this training course, to increase its value and make it more meaningful, by making improvements in the programs for the next year and beyond.

■ Figure 4: Closing Ceremony



* Home Energy Management System