



【Online】 Knowledge Co-Creation Program (Group & Region Focus)

GENERAL INFORMATION ON

**Promoting Digital Transformation for Solving Social Challenges
- The Challenges toward Japanese Society 5.0 -**

**課題別研修「社会課題解決のためのデジタルトランスフォーメーションの
推進 -日本の Society5.0 に向けたチャレンジ-」**

JFY 2020

NO. 201902099-J001

Online Course Period: From February 1, 2021 to February 5, 2021

This information pertains to one of the JICA Knowledge Co-Creation Program (Group & Region Focus) of the Japan International Cooperation Agency (JICA), which shall be implemented as part of the Official Development Assistance of the Government of Japan based on bilateral agreement between both Governments.

‘JICA Knowledge Co-Creation Program (KCCP)’ as a New Start

In the Development Cooperation Charter which was released from the Japanese Cabinet on February 2015, it is clearly pointed out that *“In its development cooperation, Japan has maintained the spirit of jointly creating things that suit partner countries while respecting ownership, intentions and intrinsic characteristics of the country concerned based on a field-oriented approach through dialogue and collaboration. It has also maintained the approach of building reciprocal relationships with developing countries in which both sides learn from each other and grow and develop together.”* We believe that this ‘Knowledge Co-Creation Program’ will serve as a center of mutual learning process.

I. Concept

Background

More than fifty percent of the world population has access to the internet in the present-day world, while seventy percent of the impoverished possess cellular telephones. In such a world, we are obliged to take maximum advantage of this rapidly advancing technological innovation to aim the world's inclusive prosperity.

For this purpose, the Japanese Government proposes the realization of "Super Smart Society" or "Society 5.0"* as a "human-centered society that balances economic advancement with the resolution of social problems by a system that highly integrates cyberspace and physical space," that brings abundance to everyone.

For what?

This KCCP aims to provide participants with hints and clues to resolve the social issues of their countries through utilization of digital technologies.

For whom?

This program targets the middle management executives in government organizations who supervise Digital Economy and Information and Communications Technologies.

How?

This KCCP provides participants with the knowledge of Japan's initiatives of Digital Transformation using newest digital technologies including the topics listed below through lectures and discussions.

- Internet of Things (IoT)
- Artificial Intelligence (AI)
- Drone
- Quantum Computing
- Face Authentication
- Digital Government
- Smart City
- Home / Remote Medical Care
- Agriculture tech

*Society 5.0 is a notion proposed by the Japanese Government that follows Society 1.0 (Hunter-gatherer Society), Society 2.0 (Agrarian Society), Society 3.0 (Industrial Society) and Society 4.0 (Information Society).

II. Description

1. Title (No.) :

Promoting Digital Transformation for Solving Social Challenges
-The Challenges toward Japanese Society 5.0- (201902099-J001)

2. Course Period in JAPAN:

February 1, 2021 to February 5, 2021

<Important Note>

In the context of the COVID-19 pandemic, please note that there is a possibility the course period may be, changed, shortened, or the course itself cancelled.

Response to the time difference during the online program

In order to have interactive communication between lecturers and participants, Online sessions are planned during the online program.

All participants will be connected at the same time at the Webinar in the following time zones.

Japan	3:30PM to 6:30PM (Japan Standard Time: JST)
Malaysia	2:30PM to 5:30PM
Philippines	2:30PM to 5:30PM
Thailand	1:30PM to 4:30PM
Myanmar	1:00PM to 4:00PM
Rwanda	8:30AM to 11:30AM
Brazil	To be confirmed
Peru	To be confirmed

* Fixed schedule will be shared to the accepted participants with the Notice of Acceptance.

3. Target Regions or Countries:

Brazil, Malaysia, Myanmar, Peru, Philippines, Rwanda and Thailand

4. Eligible / Target Organizations:

This program is designed for governmental agencies engaged in digitalization

5. Course Capacity (Upper limit of Participants) :

10 participants

6. Language to be used in this program:

English

7. Course Objective:

To consider solutions for social issues utilizing digital technologies to tackle development issues in respective countries.

8. Expected Module Outputs:

- 1) To share the status of digital transformation in each country and identify the issues to be solved
- 2) To deepen understanding on relevant public policies and cases of digital transformation in Japan
- 3) To consider the applicable knowledge and technique for solving issues of participating countries' digital transformation

9. Program Structure

This Program consists of the following components;

Preparatory Phase in Participants' Home Countries:

After the Acceptance Notification, accepted participants shall read designated documents and prepare Country Reports (detailed information is provided at the time of notice of acceptance).

Details

- Preparation of Country Report
 - Reading Pre-study materials listed below;
- https://www8.cao.go.jp/cstp/english/society5_0/index.html
(Japanese Government's Initiatives on Society 5.0)
- <https://www.keidanren.or.jp/en/policy/2018/095.html>
(Japan Business Federation's report on Society 5.0)



Core Phase : February 1, 2021 to February 5, 2021

*Participants take part in the Core Phase of the Knowledge Co-Creation Program that consist of the following modules with expected outputs stated above in **8. Expected Module Outputs.***

Module 1: Exchanging Opinions on Digital Transformation in the Next Generation and Beyond

Purpose	Details
Share the status of digital transformation in each country and identify the issues to be solved	<ul style="list-style-type: none"> ➤ Country Report Presentation ➤ Discussion on solving the social issues by utilizing ICTs

Module 2: Cases of Digital Transformation Initiatives in Japan Implemented by Government, Academics and Private sectors

Purpose	Details
Deepen understanding on relevant public policies and cases of digitization, digitalization, and digital transformation in Japan	<ul style="list-style-type: none"> ➤ Lectures on digital transformation initiatives by national and local governments, academic and private sectors

Module 3: Applicable Knowledge and Techniques	
Purpose	Details
Discuss the applicable knowledge and techniques to tackle the issues that are identified and prioritized through the KCCP and present the result	➤ Discussion on the findings derived from the Lectures and Observations

***Note:** These contents are subject to changes.

11. Tentative Schedule

Date	Content	Module	Responsible Organization
2/1 (Mon)	Briefing Session		JICA Tokyo
	Program Orientation		JTEC/JICA Tokyo
	Country Report Presentation	1	JTEC/JICA Tokyo
2/2 (Tue)	Lecture 1: Japanese Government's Approaches to Digital Transformation, "Society5.0"	2	Ministry of Internal Affairs and Communications
	Lecture 2: Initiatives of Takamatsu City towards Society 5.0, "Smart city"	2	Takamatsu Municipal Government
	Lecture 3: Initiatives of Remote Medical Care	2	Kagawa University , Melody International
2/3 (Wed)	Lecture 4: Delivery by Unmanned Aerial Vehicles (Drone)	2	Kamome-ya
	Lecture 5: Initiatives of Remote Farming	2	OPTiM Corporation
2/4 (Thu)	Lecture 6: Initiatives of City Development using AI and Quantum Computers	2	Groovenauts, Inc.
	Lecture 7:Face Authentication	2	NEC
2/5 (Fri)	Group work: Solving the social issues utilizing ICT technology in the COVID-19	3	JTEC
	Review Discussion : List-up and Discuss the Issues and their Solutions regarding the Digital Transformation	3	JTEC
	Closing ceremony	3	JTEC/JICA Tokyo

***Note:** These contents are subject to changes.

III. Conditions and Procedures for Application

1. Expectations from the Participating Organizations:

- (1) This KCCP is designed primarily for organizations that intend to address specific issues or problems identified in their operations regarding Digital Transformation or utilization of ICTs and find solutions for the said issues and problems. Participating organizations are expected to use this KCCP for those specific purposes.
- (2) This KCCP is enriched with contents and facilitation schemes specially developed in collaboration with relevant prominent organizations in Japan. These special features enable the KCCP to meet specific requirements of applying organizations and effectively facilitate them toward solutions for the issues and problems.
- (3) As this KCCP is designed to facilitate organizations to come up with concrete solutions for their issues, participating organizations are expected to ensure enough time for the participants to carry out the activities of the Preparatory Phase described in section **II-10** on page 5.

2. Nominee Qualifications:

Applying Organizations are expected to select nominees who meet the following qualifications.

(1) Essential Qualifications

- 1) Current Duties:** Mid-level executives at government agencies responsible for the digital economy and ICT development
- 2) Experience in the relevant field:** More than 5 years of working experience in the field of digital economy and ICT development
- 3) Educational Background:** be university graduates or equivalent, preferably in the field related to ICTs.
- 4) Language:** be proficient in spoken and written English (Please attach an official certificate of English ability such as TOEFL, TOEIC etc., if possible)

5) Technical Requirements for the Online Course (Computer)

Technology Proficiency:

-Basic computer skills such as, sending/receiving email with attachments, and using a web browser.

-This course is delivered using the following services: Web Conferences (Zoom) and YouTube.

(Online tutorial and support by JICA will be limited. The ability to be self-directed in learning new technology skills are required.)

6) Equipment and Internet Connection Requirement:

- Regular access to a computer, either from your home or from your office.
- Operating System: Windows or Mac OS (Updated version is preferred).
- High Speed Broadband Connection (at least 2Mbps).
- Browser: Google Chrome, Edge, Firefox, Safari can be used.
- Webcam Microphone, and Audio output Device (Speaker or Headset)

[Attention]Internet access charge incurred for this course shall be borne by your organization or your house. If you find difficulty to meet the above requirements, please be sure to consult with the JICA office in your country before you apply.

In case you are using your office computer and you are unable to get permission to use Zoom, please contact the JICA office in advance.

7) Attendance Requirement:

Participation in all program is an essential requirement for the completion of the course.

(2) Gender Consideration

JICA is promoting gender equality. Women are encouraged to apply for the Program.

3. Required Documents for Application

(1) Application Form:

The Application Form is available at the **JICA offices (or the Embassies of Japan)**.

(2) Questionnaire (Annex 1):

Each nominee is required to answer the Questionnaire indicated in the **Annex 1**.

(3) Photocopy of passport or Official ID:

If you possess your passport, please submit its photocopy. If not, please submit any official ID you have.

(4) Nominee's English Score Sheet:

To be submitted with the application form. If the applicant has any official documentation of English ability. (e.g., TOEFL, TOEIC, IELTS)

4. Procedures for Application and Selection

(1) Submission of the Application Documents

Closing date for applications: Please inquire JICA offices (or the Embassies of Japan) .

(After receiving applications, the JICA offices (or the Embassies of Japan) will send them to the JICA Tokyo Center **by December 18th (Fri), 2020**)

(2) Selection

Primary screening will be conducted at JICA office (or the embassy of Japan) after receiving official documents from your government. JICA Center will consult with concerned organizations in Japan in the process of final selection. Applying organizations with the best intentions to utilize the opportunity will be highly valued. The Government of Japan will examine applicants who belong to the military or other military-related organizations and/or who are enlisted in the military, taking into consideration of their duties, positions in the organization, and other relevant information in a comprehensive manner to be consistent with the Development Cooperation Charter of Japan.

(3) Notice of Acceptance

Notification of results will be made by the JICA office (or the Embassies of Japan) **not later than December 25th (Fri), 2020**.

5. Document(s) to be submitted by accepted Participants:

Country Report -- to be submitted **by January 22th (Fri), 2021**:

Accepted Participants are required to prepare a Country Report in MS Power Point or equivalent visual material (detailed information is provided at the time of notice of acceptance.) , which will be presented at the beginning of the Program.

6. Conditions for Attendance:

Participants of KCCP are required

- (1)** To strictly observe the course schedule.
- (2)** Not to change the program topics.
- (3)** To participate in the whole program including program orientation
- (4)** To respect copyright and portrait rights. To refrain from recording and sharing the video material, audio material, text, images, graphics and other content available during the program except for cases with specific permission.

IV. Administrative Arrangements

1. Organizer (JICA Center in Japan)

JICA Tokyo Center (JICA Tokyo)

2. Implementing Partner

Japan Telecommunications Engineering and Consulting Service (JTEC)

V. ANNEX:

Annex 1

Questionnaire

Each nominee is requested to attach completed questionnaire as a preparatory report on the following information to the Application Form.

The completed Questionnaire will be used for screening of the nominees.

Contents of Questionnaire:

<Your information>

1. Brief description of your professional career, including years of experience and field(s) of expertise
2. Brief description of your institution (please attach an organization chart, if available)
3. Brief description of policy and/or program (project) you are responsible for (e.g. goals and objective, main activities and outputs, work plan, etc.)

< Challenges in your country>

1. Brief description of top priority issues in your country (city) and projects and efforts to solve them (regardless of ICT field)
2. Issues or challenges in utilization of ICTs or Digital Transformation to be solved in your country/city
3. Brief description of social issues in the COVID-19 and hypothesis of solutions utilizing ICT technology

(Note)

- ✓ The answer should be typewritten in English on A4 size paper (21 cm by 30 cm). The maximum length is 4 pages (35 lines per page in 12-point font with margins of at least 2.5 cm on all sides).
- ✓ The above contents need to be discussed from the viewpoint of applicant's and applying organization's responsibilities.
- ✓ Please be specific as much as possible with actual figures and data.

For Your Reference

JICA and Capacity Development

The key concept underpinning JICA operations since its establishment in 1974 has been the conviction that “capacity development” is central to the socioeconomic development of any country, regardless of the specific operational scheme one may be undertaking, i.e. expert assignments, development projects, development study projects, Knowledge Co-Creation programs, JOCV programs, etc.

Within this wide range of programs, Knowledge Co-Creation programs have long occupied an important place in JICA operations. Conducted in Japan, they provide partner countries with opportunities to acquire practical knowledge accumulated in Japanese society. Participants dispatched by partner countries might find useful knowledge and re-create their own knowledge for enhancement of their own capacity or that of the organization and society to which they belong.

About 460 pre-organized programs cover a wide range of professional fields, ranging from education, health, infrastructure, energy, trade and finance, to agriculture, rural development, gender mainstreaming, and environmental protection. A variety of programs and are being customized to address the specific needs of different target organizations, such as policy-making organizations, service provision organizations, as well as research and academic institutions. Some programs are organized to target a certain group of countries with similar developmental challenges.

Japanese Development Experience

Japan was the first non-Western country to successfully modernize its society and industrialize its economy. At the core of this process, which started more than 140 years ago, was the “*adopt and adapt*” concept by which a wide range of appropriate skills and knowledge have been imported from developed countries; these skills and knowledge have been adapted and/or improved using local skills, knowledge and initiatives. They finally became internalized in Japanese society to suit its local needs and conditions.

From engineering technology to production management methods, most of the know-how that has enabled Japan to become what it is today has emanated from this “*adoption and adaptation*” process, which, of course, has been accompanied by countless failures and errors behind the success stories. We presume that such experiences, both successful and unsuccessful, will be useful to our partners who are trying to address the challenges currently faced by developing countries.

However, it is rather challenging to share with our partners this whole body of Japan’s developmental experience. This difficulty has to do, in part, with the challenge of explaining a body of “tacit knowledge,” a type of knowledge that cannot fully be expressed in words or numbers. Adding to this difficulty are the social and cultural systems of Japan that vastly differ from those of other Western industrialized countries, and hence still remain unfamiliar to many partner countries. Simply stated, coming to Japan might be one way of overcoming such a

cultural gap.

JICA, therefore, would like to invite as many leaders of partner countries as possible to come and visit us, to mingle with the Japanese people, and witness the advantages as well as the disadvantages of Japanese systems, so that integration of their findings might help them reach their developmental objectives.



CORRESPONDENCE

For enquiries and further information, please contact the JICA office or the Embassy of Japan. Further, address correspondence to:

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