



# 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 / ID. 1902099**

**Course Period in Japan: From May 24th 2020 to June 6th 2020**

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**

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

For this purpose, the Japanese Government proposes the realization of “Super Smart Society” or “Society 5.0”<sup>\*</sup> 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 on Japan's initiatives of Digital Transformation using newest digital technologies including the topics listed below through lectures, site visits and discussions.

- |                                |                              |
|--------------------------------|------------------------------|
| • Internet of Things (IoT)     | • Digital Government         |
| • Artificial Intelligence (AI) | • Home / Remote Medical Care |
| • Blockchain                   | • face authentication        |

<sup>\*</sup>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:**  
May 24th (Sun) 2020 to June 6th (Sat) 2020
- 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. Overall Goal:**  
To implement some ideas proposed in action plan in order to promote digital economy.
- 9. 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

## 10. Program Structure

This Program consists of the following components;

<b>Preparatory Phase in Participants' Home Countries:</b> <b>April to May 2020</b> (prior to departure)  <i>After the Acceptance Notification, accepted participants shall read designated documents and prepare Country Reports in their respective countries as stated in III. Conditions and Procedures for Application 5. Document(s) to be submitted by accepted Participants (page 10):</i>	
Details	
➤ Preparation of Country Report ➤ Reading Pre-departure study materials listed below;	
<a href="https://www.youtube.com/watch?v=yF38rc-0EnI">https://www.youtube.com/watch?v=yF38rc-0EnI</a> (Japan's New "Society 5.0" Commercial)	
<a href="https://www8.cao.go.jp/cstp/english/society5_0/index.html">https://www8.cao.go.jp/cstp/english/society5_0/index.html</a> (Japanese Government's Initiatives on Society 5.0)	
<a href="https://www.keidanren.or.jp/en/policy/2018/095.html">https://www.keidanren.or.jp/en/policy/2018/095.html</a> (Japan Business Federation's report on Society 5.0)	

<b>Core Phase in Japan: May 24th (Sun) to June 6th (Sat) 2020</b>  <i>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 9. Expected Module Outputs.</i>	
<b>Module 1: Exchanging Opinions on Digital Transformation in the Next Generation and Beyond</b>	
Purpose	Details
Share the status of digital transformation in each country and identify the issues to be solved	➤ Country Report Presentation ➤ Discussion on solving the social issues by utilizing ICTs
<b>Module 2: Cases of Digital Transformation Initiatives in Japan Implemented by Government, Academics and Private sectors</b>	
Purpose	Details
Deepen Understanding on relevant public policies and cases of digitalization in Japan	➤ Lectures on Digital Transformation initiatives by national and local governments, academic and private sectors ➤ Site Visits to understand applicability of digital Transformation

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	<ul style="list-style-type: none"> <li>➤ Discussion on the findings derived from the Lectures and Observations</li> <li>➤ Preparing Final Report Presentation</li> <li>➤ Final Report Presentation and Discussion</li> </ul>

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

## 11. Tentative Schedule

Date	Content	Module	Responsible Organization
5/24 (Sun)	Arrival to Japan		
5/25 (Mon)	Briefing Session		JICA Tokyo
	Program Orientation		JTEC/JICA Tokyo
	Country Report Presentation	1	JTEC/JICA Tokyo
5/26 (Tue)	Lecture 1: Japanese Government's Approaches to Digital Transformation (1)	2	Ministry of Internal Affairs and Communications
	Lecture 2: Japanese Government's Approaches to Digital Transformation (2)	2	Ministry of Land, Infrastructure, Transport and Tourism
	Discussion by Participants on Solving Social Issues utilizing Digital Technologies	3	JTEC
5/27 (Wed)	Move to Fukuoka City		
	Lecture 3: Initiatives of City Development using AI and Quantum Computers	2	Groovenauts, Inc.
	Observation 1: Visit to Tech Park (After-school)	2	Groovenauts, Inc.
5/28 (Thu)	Lecture 4: Initiatives of Digitalization of Administrative Services by Fukuoka City	2	Fukuoka Municipal Government
	Move to Saga City		
5/29 (Fri)	Lecture 5: Initiatives by Private Sector using AI and ICT	2	OPTiM Corporation
	Observation 2: Visit to Oda Hospital (Home Medical Care Control Center)	2	OPTiM Corporation
	Observation 3: Visit to Shiraishi Town (Experimental Drone Flights)	2	OPTiM Corporation
	Move to Tokyo		

5/30 (Sat)	Day Off		
5/31 (Sun)	PM: Move to Takamatsu City Cultural Experience		
6/1 (Mon)	Lecture 6: Initiatives of Takamatsu City towards Society 5.0	2	Takamatsu Municipal Government
	Observation 4: Visit to remote island (Remote Medical Care)	2	Melody International
6/2 (Tue)	Lecture 7: Initiatives of Remote Medical Care by Kagawa University	2	Kagawa University
	Lecture 8: Initiatives of Remote Medical Technologies by Melody International (Private Sector)	2	Melody International
	Lecture 9: Delivery by Unmanned Aerial Vehicles	2	Kamome-ya
	Move to Tokyo		
6/3 (Wed)	Lecture 10: Face Authentication and other Technologies by NEC (Private Sector)	2	NEC
	Lecture 11: Blockchain, Data Analysis and other Technologies by NTT DATA (Private Sector)	2	NTT DATA
6/4 (Thu)	Review Discussion 1: Discuss and Sort Out Insights and Findings gained from Lectures and Observations in Small Groups	3	JTEC
	Review Discussion 2: List-up and Discuss the Issues and their Solutions regarding the Digital Transformation in same groups and assemble them in Final Report	3	JTEC
6/5 (Fri)	Final Report Presentation	3	
	Wrap-up Discussion	3	
	Evaluation Meeting		JTEC/JICA Tokyo
	Closing Ceremony		JICA Tokyo
6/6 (Sat)	Departure from Japan		

**\*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 4.
- (4) Participating organizations are also expected to make the best use of the results achieved by their participants in Japan by revising their Action Plans after their submission and carrying out the activities proposed in the Action Plans to solve the issues and difficulties.

#### **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) **Health:** must be in good health, both physically and mentally, to participate in the Program in Japan. Pregnant applicants are not recommended to apply due to the potential risk of health and life issues of mother and fetus.  
During the Program, Participants will be using public transportation except for the cases when buses are chartered, and need to walk between train stations/bus stops and destinations for up to about one kilometer.

\* If candidates have any difficulties/disabilities and may require some assistance, please indicate them in the Medical History page of the Application Form. Such Indication allows us (people concerned in this course) to arrange better logistics or alternatives.

## **(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:**

To be submitted with the application form, if the nominee possesses valid passport. If not, the nominee is requested to submit the photocopy as soon as the passport is obtained

\*Photocopy should include the followings:

Name, Date of birth, Nationality, Sex, Passport number and Expiration date.

### **(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 April 3rd (Fri), 2020**)

### **(2) Selection:**

After receiving the document(s) through due administrative procedures in the respective governments, the respective countries' JICA Offices (or Embassies of Japan) shall conduct screenings, and send the documents to the JICA Tokyo International Center. Selection shall be made by the JICA Tokyo International Center in consultation with the organizations concerned in Japan based on submitted documents according to qualifications.

Qualifications of applicants who belong to the military or other military-related organizations and/or who are enlisted in the military will be examined by the Government of Japan on a case-by-case basis, consistent with the Development Cooperation Charter of Japan, taking into consideration their duties, positions in the organization, and other relevant information in a comprehensive manner.



### **(3) Notice of Acceptance**

Notification of results will be made by the JICA office (or the Embassies of Japan) **not later than April 24th (Fri), 2020.**

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

Country Report -- to be submitted **by May 8th (Fri), 2020:**

Before coming to Japan, accepted Participants are required to prepare a Country Report in MS Power Point or equivalent visual material (detailed information is provided in the ANNEX 2.) , which will be presented at the beginning of the Program.

We request the Participants to consult with their supervisors and colleagues about the issues and difficulties to be pointed out in the Country Report, as the Participants are expected to make plans to provide solutions to them as the Action Plans at the end of the Program.

The Country Report should be sent to JICA Tokyo by e-mail to **ticttee@jica.go.jp**

If the Country Report exceeds the size limit of an e-mail, JICA will provide the Participants with on-line storage to share the file.

### **6. Conditions for Attendance:**

- (1)** to observe the schedule of the Program,
- (2)** not to change the Program subjects or extend the period of stay in Japan,
- (3)** not to bring any members of their family,
- (4)** to return to their home countries at the end of the Program in Japan according to the travel schedule designated by JICA,
- (5)** to refrain from engaging in political activities, or any form of employment for profit or gain,
- (6)** to observe Japanese laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the Program expenditure depending on the severity of said violation,
- (7)** to observe the rules and regulations of their place of accommodation and not to change the accommodation designated by JICA, and
- (8)** to participate the whole Program including a Preparatory Phase prior to the Core Phase in Japan.

## IV. Administrative Arrangements

### 1. Organizer:

(1) **Name:** JICA TOKYO CENTER

(2) **Contact:** Tatsuaki INOUE/Mr. (tictree@jica.go.jp)

### 2. Travel to Japan:

(1) **Air Ticket:** The cost of a round-trip ticket between an international airport designated by JICA and Japan will be borne by JICA.

(2) **Travel Insurance:** Coverage is from time of arrival up to departure from Japan. Thus traveling time outside Japan will not be covered.

### 3. Accommodation in Japan:

JICA will arrange the following accommodations for the participants in Japan:

JICA Tokyo Center (JICA TOKYO)

Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan

TEL: 81-3-3485-7051 FAX: 81-3-3485-7904

(where “81” is the country code for Japan, and “3” is the local area code)

If there is no vacancy at JICA TOKYO, JICA will arrange alternative accommodations for the participants. Please refer to facility guide of TIC at its URL,

<https://www.jica.go.jp/tokyo/english/office/index.html>

(English Guide to JICA Tokyo)

<https://www.youtube.com/watch?v=jWyCOMj3ljE>

(Video Images of JICA Tokyo)



### 4. Computers

Participants are requested to bring their own laptop/notebook computers for preparation and presentation of Action Plan, and for communication by e-mail. Please note that text materials will be provided only in electronic forms.

### 5. Expenses:

The following expenses will be provided for the participants by JICA:

(1) Allowances for accommodation, meals, living expenses, outfit, and shipping

(2) Expenses for study tours (basically in the form of train tickets.)

(3) Free medical care for participants who become ill after arriving in Japan (costs related to pre-existing illness, pregnancy, or dental treatment are not included)

(4) Expenses for program implementation, including materials

For more details, please see “III. ALLOWANCES” of the brochure for participants titled “KENSU-IN GUIDE BOOK,” which will be given before departure for Japan.

### 6. Pre-departure Orientation:

A pre-departure orientation will be held at the respective country’s JICA office (or Japanese Embassy), to provide participants with details on travel to Japan, conditions of the workshop, and other matters.

## **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:**

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. Issues or challenges in utilization of ICTs or Digital Transformation to be solved in your country/city
4. Brief description of policy and/or program (project) you are responsible for (e.g. goals and objective, main activities and outputs, work plan, etc.)

(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.

## Annex 2

### **Country Report** (Accepted Participants only)

Accepted Participants are required to prepare their Country Report in MS Power Point or equivalent visual material and submit it **not later than May 8th (Fri), 2020** to the e-mail address ([ticttee@jica.go.jp](mailto:ticttee@jica.go.jp)) before participating in the KCCP.

For countries with more than two Participants, Participants may make one combined Country Report.

The contents of the Country Report should include the following as much as possible:

1. Information of ICT Sector in your country
  - (1) number of communications service providers, number of users and average communication fees
  - (2) number of ICT enterprises, types of services and number of ICT engineers
  - (3) status of development of communication infrastructure, including optical fiber, cellular communication network
2. Strategy and promotion of Digital Government in your country
  - (1) Description of our government's strategy and initiatives to promote Digital Government (Central and Local)
  - (2) Status of support by other countries and international organizations
3. Status of digital transformation in your country
  - (1) Examples of utilization of Cloud Computing, IoT (Internet of Things) and Big Data
  - (2) Examples of utilization of newest ICTs in industries, medical services, education and other fields
  - (3) Issues or challenges to be solved in your country's utilization of ICTs or Digital Transformation
  - (4) Your organization's role in utilization of ICTs or Digital Transformation, including your job description

***\*Please put page number on each presentation slide!***

## ***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 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:

**JICA Tokyo Center (JICA TOKYO)**

**Address: 2-49-5 Nishihara, Shibuya-ku, Tokyo 151-0066, Japan**

**TEL: +81-3-3485-7051 FAX: +81-3-3485-7904**