Official side event

“Shaping Sustainable Aging Through Digital Innovation in Asia-Pacific Countries”

JICA perspective on sustainable aging through digital innovation with a focus on cooperation and innovative approach

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Japan and Thailand's aging situations

<table>
<thead>
<tr>
<th></th>
<th>Japan</th>
<th>Thailand</th>
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<tbody>
<tr>
<td><strong>Total Population</strong></td>
<td>125.71 million</td>
<td>66.17 million</td>
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<tr>
<td><strong>Aging Population</strong></td>
<td>36.19 million</td>
<td>13.35 million</td>
</tr>
<tr>
<td><strong>Percentage to total</strong></td>
<td>28.8% (aged 65 and above)</td>
<td>19.6% (aged 60 and above)</td>
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<tr>
<td><strong>Status as of 2021</strong></td>
<td>Super-aged society (aged 65 above 20%)</td>
<td>Aged society</td>
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Sources: Japan’s Annual Report on the Aging Society (2021)  
NSO Aging Population Survey in Thailand (2021)

Fertility rate in Thailand is rapidly decrease and become as same as Japan’s one.

Population Pyramid

Source: UN World Population Prospects 2022
Rich experiences (both success and challenges) on the elderly/aging society issues to be shared for knowledge co-creation of both countries
Long and continuous cooperation makes positive difference

C-TOP  2007 - 2011
To establish the model of community-based care service, through its pilot activities for improving QOL (quality of life).

L-TOP  2013 - 2017
Policy recommendations on the long-term care for the elderly are accepted by the relevant ministries and organizations.

S-TOP  2017 - 2022
Toward the nationwide expansion, community-based models are developed for the seamless provision of medical, rehabilitative, social and life-support services for elderly persons.
### Networking among Local Govs. etc. 2022 - 2025

This project establishes a network of organizations from both nations to foster mutual learning at LGs and local community levels. Notable outcomes include dementia cafes, senior citizen day care centers, and dementia supporter training.

### Volunteer Dispatch to elderly care organs.

Support and exchange knowledge in taking care of elderly people including Elderly Care, Public Health, and nutritionists.

### Private Sector Engagement

Case Study: MIMAMORI system 2016

This ICT technology uses sensors to detect the movements of the patients who require nursing care, and also notifies the nurses, care workers and family members.
Private Sector Engagement with Innovative technologies
### SOLUTIONS BY PRIVATE COMPANIES (1)

<table>
<thead>
<tr>
<th><strong>Monitoring Robot</strong> (Digital Platform for health care data monitoring)</th>
<th>![Monitoring Robot Image]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Beds &amp; Wheel chair</strong></td>
<td>![Beds &amp; Wheel chair Images]</td>
</tr>
<tr>
<td><strong>Healthcare Software &amp; App</strong> (data platform)</td>
<td>![Healthcare Software &amp; App Image]</td>
</tr>
</tbody>
</table>
## Exercise package

![Exercise package image]

## Medical/Dental Supplies

![Medical/Dental Supplies image]

## Software & App(2) - Dementia test

![Software & App(2) - Dementia test image]
Matching Framework of Collaboration

Overall Goal
Healthy aging of the elderly people

Supply-Side by Private Sector (Solutions)
- Private Companies
  - Products/Technology
  - Services
  - Knowledge
  - Equipment (Wheelchair, Beds, etc.)
  - Robot, Censor, Camera, etc.
  - Exercise solution
  - Nutrition/Food Solution
  - Anti-Dementia Solution

Demand-Side (Needs)
- Elderly Care Service Facilities
  - Public Sec.
  - Private Sec.
  - Staying Facilities
  - Visiting Facilities
  - Home Care

Matching
- Intervene, Promote, Facilitate, Catalyze

JICA (Sovereign/Public)

Technical Cooperation
- Multi-layered approach
- Innovative approach to addressing aging
- Intervene, Promote, Facilitate, Catalyze
- Healthy aging of the elderly people
DX to Improve Well-being for All

- Aiming for a resilient society
- ensuring people’s safety,
- diverse opportunities
- and well-being
- with digital technology.

JICA will support building a better society through utilizing digital technology and data.

While establishing bases of ICT with human resource development and industry creation, we will contribute to create a free and safe cyberspace.

DX: Digital Transformation
## JICA Approach on Digital Transformation (DX)

JICA DX Team, as an internal advisory, spearheads the digital transformation initiative in cooperation with SDGs and Regional Projects. STI/ICT team leads ICT Infrastructure development, cybersecurity, Digital Skills.

### Goals

**DX Vision**
- Create a quality digital society where everyone can realize diverse Well-being

**Enabling Environments**
- Develop infrastructure to promote the benefits of digitization and reduce disparities and cybersecurity risks.

### Mandate

**Driving DX across the Sectors**

1. ICT/Digital Infrastructure
2. Digital Skills and Business
3. Cybersecurity

### Focus Activity

**JICA DXLab**
- 1. Promote to utilize data & technologies in operation.
- 2. Facilitate agile/flexible collaboration with private digital partners.

**Cybersecurity Cluster**
- Capacity building on cybersecurity, especially for Asia Region countries, by referring Data Free Flow with Trust (DFFT).

### DX Ecosystems

<table>
<thead>
<tr>
<th>DX Enablers</th>
<th>Partners</th>
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<tbody>
<tr>
<td>Knowledge Sharing</td>
<td>Private Companies</td>
</tr>
<tr>
<td>Experts Group Development Partners</td>
<td>University Research Inst.</td>
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<tr>
<td>Exploration</td>
<td>Other GoJ Organization</td>
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<tr>
<td>Quick-win PoC</td>
<td>Experts</td>
</tr>
<tr>
<td>Platform</td>
<td>Municipalities</td>
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<tr>
<td>Satellite Data PF JICA-VAN</td>
<td>CSOs</td>
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<tr>
<td>Data Base</td>
<td></td>
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<tr>
<td>Data catalogue system</td>
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DXLab is an initiative to open up 1,500+ ODA projects and initiatives globally to partners with innovative digital technologies, in an effort to promote quick and flexible co-creation for creating impacts.

**Unlock ODA and JICA network**
Open up ODA projects to leverage digital solutions and unleash opportunity for co-creating with digital partners

**Open Sourcing of Digital Partners**
Match with digital partners that provide solutions for identified challenges

**Implement PoC for Validation**
Design, implement and evaluate the PoC for validating the solutions

**Deploy Solution in ODA++**
Deploy the validated solution within the ODA project for creating impacts
Health: Telemedicine ICU for COVID-19

- Remote technical assistance for 12 partner countries
- Telemedicine (tele-consultation and tele-education) for ICU hospitals that play a critical role in intensive care against the COVID-19 pandemic
- Connect Japanese medical professionals with ICU physicians and nurses in the partner countries
- Medical equipment and ICU facility also provided

So far, **684 doctors and nurses** have been engaged in telemedicine

### Project Design

- **ICU in Partner Countries**
  - Share patient information

- **ICU Room/Medical Container**
  - Clinical data, Vital data...

- **JPN Doctors & Nurses**
  - See the shared patient

### Main Activities

1. **Online Training**
   - Basic trainings on skills and knowledge in intensive care

2. **Case Conferences**
   - Discussion on previous cases to learn how to manage among participants

3. **Scheduled Care**
   - Tele-consultation on actual clinical cases with real-time patient info sharing
Summary

- Rich experiences (both success and challenges) on the elderly/aging society issues to be shared for knowledge co-creation of both countries

- Long and continuous cooperation makes positive difference

- A multi-layered approach is important for addressing aging

- Matching framework of collaboration between Needs and Solutions.

- Digital innovation is an important role for promoting quick and flexible co-creation for creating impacts.