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.
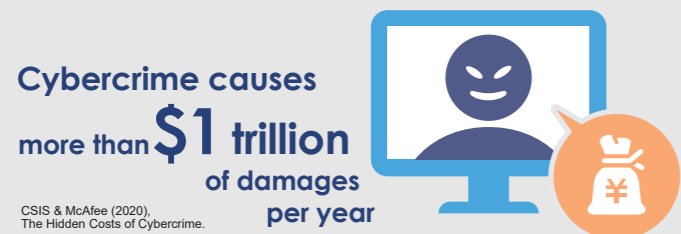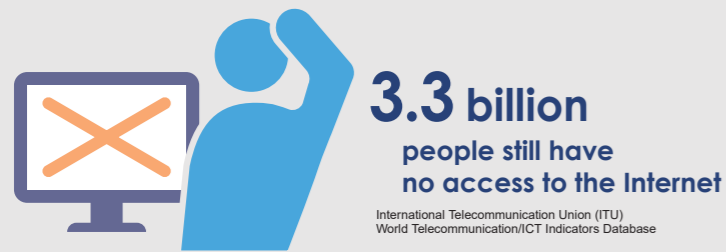

DX: Digital Transformation

JICA is supporting developing countries to help achieve the Sustainable Development Goals (SDGs).

LDCs have big potentials to reap the benefits of global digitalization

The Internet is now indispensable tool for our daily lives and essential for socio-economic growth. Use of digital technology is also rapidly expanding in developing countries and it is expected to help solve various different social challenges and to become an engine for economic growth. It is high time now to take this opportunity and to fully utilize it to address previously unresolved challenges, to achieve higher growth as well as productivity.

DX

Global DX Market has Annual Growth of 16%

UnivDatos Market Insights Pvt Ltd, Digital Transformation Market: Current Scenario and Forecast (2020-2026)

Global Smartphone penetration will increase from 65% in 2019 to 80% in 2025

GSM Association, The Mobile Economy 2021

3.3 billion people still have no access to the Internet

International Telecommunication Union (ITU) World Telecommunication/ICT Indicators Database

Cybercrime causes more than $1 trillion of damages per year

CSIS & McAfee (2020), The Hidden Costs of Cybercrime.

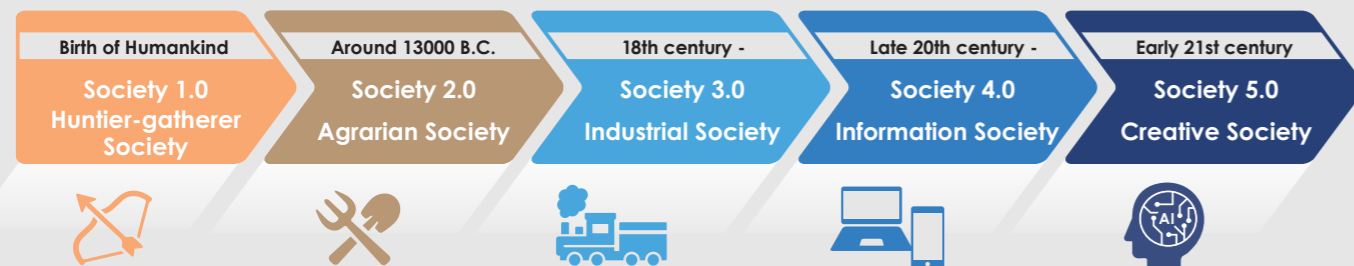## The Digital Divide and the Cyber Security are Serious Threats.

However, there are still many people who could not access to the Internet. The digital divide exists not only between the developed and developing countries but also between urban and rural, men and women, as well as elderly and youth. Similarly, while the safety and security are becoming global concerns, it is essential to be vigilant and establish effective safeguards against cyber threats.

Open, free, and secure digital transformation contributes to quality development

Significantly, both the global prosperity and community development cannot be true without adopting digitalization of global socio-economic activities. It is important, therefore, to adopt the digital technologies to enjoy the benefits of digital transformation while mitigating the negative risks. In addition, secure cyberspace needs to be created through concerted efforts and collaborations of international communities. Japan is working to realize a human-centered society (Society 5.0) and to expand a reliable, free, and globally trusted exchange of data through Data Free Flow with Trust (DFFT) initiative. These initiatives will enable both economic development and resolution of social challenges by incorporating advanced technologies into our daily lives. JICA will address these challenges through utilizing Japanese knowledge and technologies.

Birth of Humankind	Around 13000 B.C.	18th century -	Late 20th century -	Early 21st century
Society 1.0 Huntier-gatherer Society	Society 2.0 Agrarian Society	Society 3.0 Industrial Society	Society 4.0 Information Society	Society 5.0 Creative Society

Cooperation Policies 1

Mainstreaming DX for effective ODA

When digital technologies are incorporated into development activities and DX is promoted in the developing countries, it is possible to attain better development impacts. JICA is committed to enhance cooperation effectiveness and to create new values in various different fields.

Examples of fields that can be effective with DX

- **Smart Agriculture** — Real-time monitoring using sensors to optimize fertilizer and water quantities and improve yields.
- **Telemedicine** — Medical data and images checked remotely by medical specialists to provide advice on site.
- **Smart City** — Technologies analyzing the situation for quality services through a cross-sectoral city management system.
- **Mobile Banking** — Mobile phone services enabling people to access to them where traditional financial services are not reaching.
- **e-Government** — Public Administration improvement by data sharing allowing it to provide tailor-made and prompt services.

Transparency

Efficiency, Accuracy

Inclusion, Penetration

Integration, Fusion

Recognizing, Judgement

Promptness Quick, Minuteness

Improvement of ICT Ecosystem
Support the development of public ICT infrastructure to leverage private business sectors.

Reinforcement of Cyber Security
Foster Human Resource and Institutional Capacity Building for public and private sectors.

Development of human resources and industries for promotion of DX
Train champions of digitalization who can lead DX in their countries and exchange knowledge with partner countries.
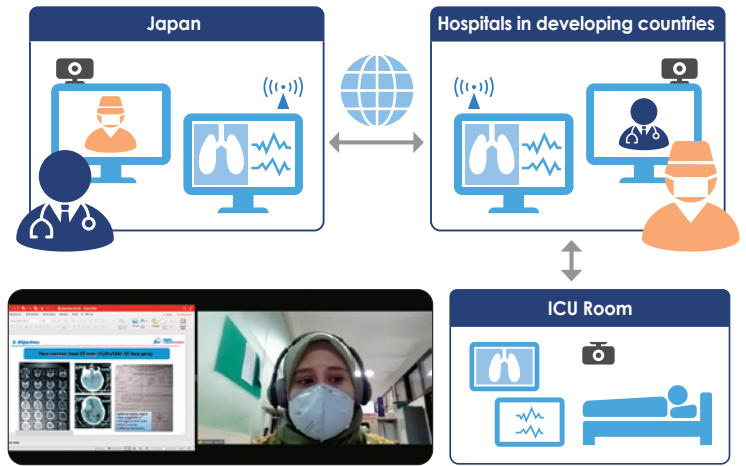
Cooperation Policies 2

Establishing bases of ICT for digitization

For the developing countries to prosper from the digital economy, it is essential for the people to connect to the Internet and have access to services that cater to individual's "wants" in safe and secure manner. JICA has been training human resources in the cyber security field in more than 30 countries around the world. Also, JICA will cooperate in establishing ubiquitous and stable ICT infrastructure to connect more people to the Internet, and will support the development of human resources and the creation of new industries. In these collaborations, JICA will work actively with companies, universities, and local Governments to create an environment and relationship that will prosper all.

What has JICA done?

1 Supporting tele-ICU treatment for new COVID-19 using remote technologies

Due to the global COVID-19 pandemic, the world has seen the surge of patients who need treatments in the ICUs. JICA has provided tele-medicine support to mitigate the situation in developing countries by remotely connecting Japanese medical specialists to the local ICU medical personnel, and provide them with technical advices and capacity building activities. This project has started in 2021 and now providing support in more than 10 countries.

Indonesian doctors receiving training remotely.

Study Session to the Vietnam Information Security Association.

2 Training cyber-security professionals and producing advocacy animation in Vietnam

Vietnam is seeing surge in cyber-attacks since 2014. Since 2019, JICA has been providing highly specialized trainings and equipment to the Information Security Bureau of the Ministry of Information and Communications to improve quality control and response capabilities, as well as producing cyber-security themed animation materials to raise awareness among children.

Collaborating with Partners

Enhancing the use of new and emerging technologies with diverse partners

Successful Digital Transformation requires wide and broad partnerships with private sectors, academia, CSOs/NGOs, Public Organizations, and international organizations. JICA will actively utilize new knowledge and pursue more open and innovative ways of cooperation with partners. The goal is to deliver development outcomes and results through innovative trials and demonstrations with partner countries and other partners, and to share the innovations and results with diverse partners.

What is Global Agenda?

The JICA Global Agenda is business strategy by 20 issues carried by JICA, to contribute to the achievement of the SDGs in 2030 and to realize the principles that Japan aims to achieve through development cooperation, such as "human security," "quality growth," and "addressing global issues". We will set global goals based on our analysis of the issues we face, and work to improve the results of our development cooperation projects. In addition, we will promote communication and collaboration not only with developing countries but also with a variety of domestic and international partners, aiming to maximize the results of development cooperation.

Cover Photo— Children are learning to use laptops at a school in Kenya.
Photo : Bartosz Hadyniak/Getty Images