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Q1: Respondent details

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Q2: Country or Customs territory

JAPAN

Q3: Organization

Public sector

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Q4: Title of case story

Achieving Quality Infrastructure through the ICT of Japan

**Q5: Case story focus**

Infrastructure upgrading and the development of related services markets, including through support for investment climate reforms.

Q6: Case story abstract

Japan is willing to contributing to bridging the infrastructure gap, which has become a bottleneck against global economic growth. For this purpose, Japan promotes “quality infrastructure” in collaboration with other countries and international organizations through “Partnership for Quality Infrastructure”.

ICT itself is an infrastructure which is indispensable for the social and economic activities of all the countries and regions. Furthermore, ICT converts usual infrastructures into “Quality Infrastructures” by adding quality-enhancing values such as durability improvement. ICT also enhances disaster management system in swiftness, accuracy and reliability.

The Ministry of Internal Affairs and Communications has collected some of the best practices of the “Quality Infrastructure”, which were achieved with the excellence of the ICT of Japan and the assistance to the capacity building of Japan.

We will be happy if these best practices would be helpful in planning to develop and improve infrastructure in your country and region.

Q7: Who provided funding?

Private sector, Bilateral donor

Q8: Project/Programme type

Single country, Regional

Q9: Your text case story

[Watch the movie here:](https://www.youtube.com/watch?v=Ysi7GzKjvyw) <https://www.youtube.com/watch?v=Ysi7GzKjvyw>

Transcript*Japan*

Our history of modernization was constantly overcoming various limitations. However, this background of trial and error has given Japanese infrastructure distinct qualities. We will tailor our proposals to local circumstances, taking into account local climates, cultures, resource characteristics and social environments.

Japan will share its knowledge through technology transfer and human resource development. It also commits itself to creating local jobs and new industries. Our infrastructure development comes with support for operation, maintenance and financing, with a view to delivering the best results in the medium-to-long-term. Construction schedule maintenance, minimal downtime, long life and scalability...

High quality ensures economic efficiency over the whole life cycle.
We make the most of our distinct qualities to deliver timeless, sure value.
What future can you imagine for your country?
With Japan's support, your vision can become a reality right down to the finest details.

*Design Tomorrow - Infrastructure with Japan***ICT Solutions**

Japan possesses one of the highest levels of Information and Communications Technology (ICT) in the world, as well as a proven track record in this field.

For instance, we have contributed to international communications infrastructure development in various regions as a leading international supplier of optical submarine cables.

A Biometrics authentication system has also been adopted by over 70 countries, protecting people's safety and security. And we are supporting implementation of ICT for disaster management in many countries using our knowledge as a country with frequent disasters.

Japan is also making active strides in technology transfers aimed at making practical use of ICT.

With the introduction of digital terrestrial broadcasting in Botswana, we are striving to develop businesses that make use of data broadcasting and transferTV program creation technology.

And in our communication satellite business located in Turkey, we have not only produced and delivered satellites but have also provided high-level technology education programs aimed at autonomous development.

Japan's ICT is also contributing to the optimization and increased lifespan of existing public infrastructure. In the case of Vietnam's Can Tho Bridge construction, we have introduced a system for real-time measurement of strain and oscillations.

By detecting abnormalities quickly, serious damages and deformation can be prevented.
As a part of Myanmar's postal service, we are working to digitize money transfer services.

Japan is able to offer multifaceted support for your country's growth precisely because it possesses such comprehensive capacity for ICT development.

Design Tomorrow - Infrastructure with Japan

Q10: Lessons learnt

Informations on programs in ICT sectors mentions in the movie is as follows:

【1 Optical Submarine Cable】

International communications infrastructure is essential for national development. Japan has an excellent track record over many years as an international supplier of the optical submarine cable which supports most of these infrastructures.

【2 Biometric Authentication System】

Fingerprint identification technology for its Citizen ID System manages information of a lot of citizens through connecting them to digitized fingerprint data. Also, the ID booklet based on this system plays a significant role in daily life from voter registration to purchasing cars and renting videos.

【3 Disaster Management】

ICT for disaster management contributes to each phase of observation, information analysis, and information distribution for disaster risk reduction.

【4 Digital Broadcasting】

Broadcast infrastructure instantly delivers information over great distances, improving the knowledge of people and data broadcasting enables people who live in remote places to receive education and get health information as well as improve the convenience of public services.

【5 Communication Satellite】

Values of communications, broadcasting, security, earth observation, disaster prevention are at the center of attention for communication satellites. Japan's communication satellites offer more than just reliability, quick delivery, and low cost. Japan strives to work toward transfers in technology for the future of independent space exploration.

【6 System for Real-Time Measurement of Strain and Oscillations to infrastructures】

Various sensors installed in public infrastructure are used to measure the state of the infrastructure in real time continuously. Obtained data is utilized on maintenance work support related to the disaster damage and the infrastructure deterioration.

【7 Postal Services】

Through improving postal quality and realizing creation of new businesses and new services based on cooperation with Japanese enterprises, contribution is made to the socioeconomic development of these countries.

