

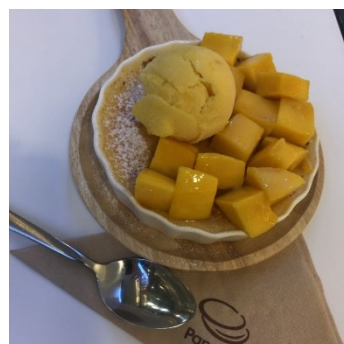
Making innovation with ITU-D

Yoshiaki NAGAYA

Ministry of Internal Affairs and Communications

Japan

I love mango!



Japan focus on ITU-D activities

Study Groups > Sharing experience

- Country experience > Case study library
- https://extranet.itu.int/itu-d/studygroups_caselib/Lists/Case%20Library%20Documents/AllItems.aspx
- Workshops for disaster management and cybersecurity

Statistics > Measurement of sustainable development

- WTIS-15 in Hiroshima, Japan
- Commitment for new indicators in expert groups of statistics

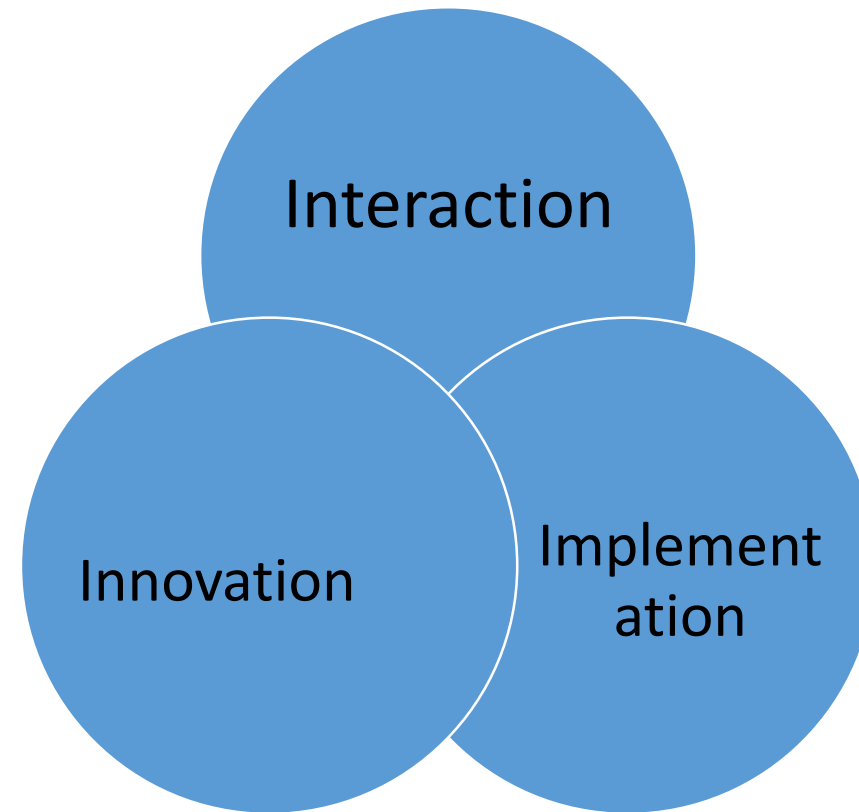
Projects > Implementation

- Guideline for Digital TV transition
- Feasibility study of Disaster Management Units in Cebu Island, Philippines
- Against Ebola virus projects for PP Res. 202

Theme of ITU-D Study Group 1

Ms. Regina Fleur ASSOUMOU-BESSOU (Côte d'Ivoire), SG1 Chair, shared her vision of

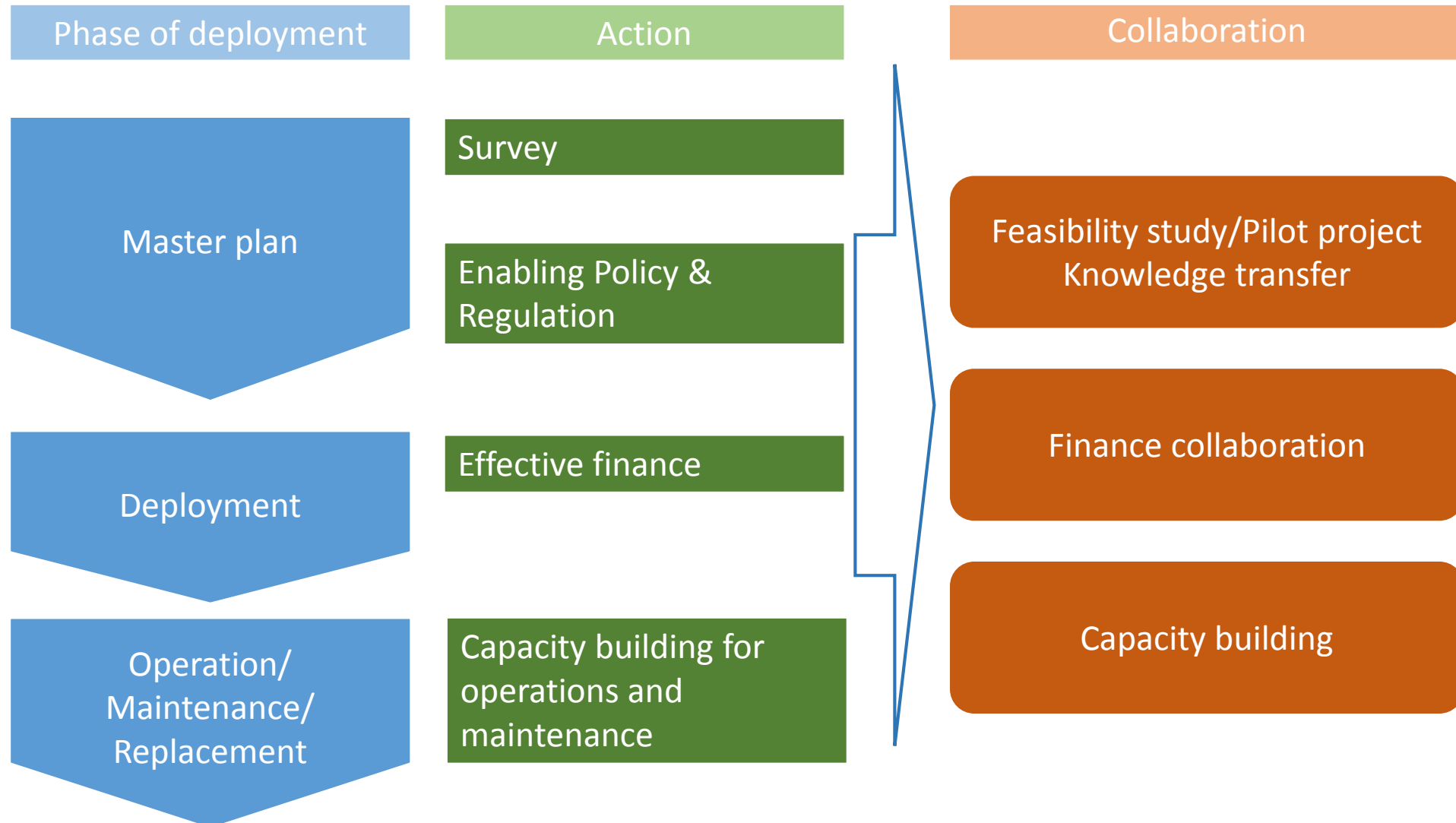
3Is



Japan's proposal in the last SGs "Interaction"

- Focus more on Workshops
 - Resolution 1 (Rev. Buenos Aires)
- Benefits
 - Needs survey
 - Various participant
 - Capacity building
- Our interest
 - Disaster management
 - Cybersecurity
 - Smart Society
 - And requested
- Panel for Early Warning System (8 May)
 - WMO, FCC, Iridium, EMEA SOA, MIC Japan
- Next rapporteurs group (Sep./Oct.)
- We seek your request of theme and participation.

Issue of implementation

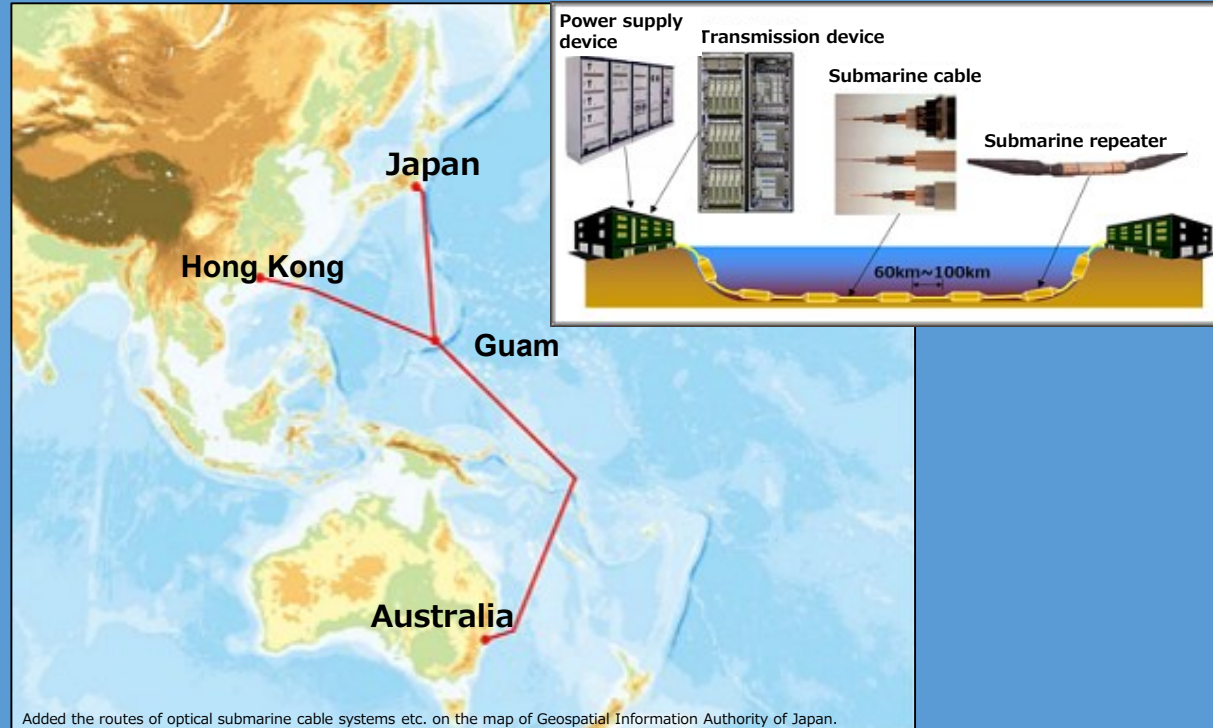


I. ICT / Postal system and related services

1-1) Optical Submarine Cable System

Examples of support by JICT

The Projects for laying optical submarine cable systems in the Asia-Pacific Area.



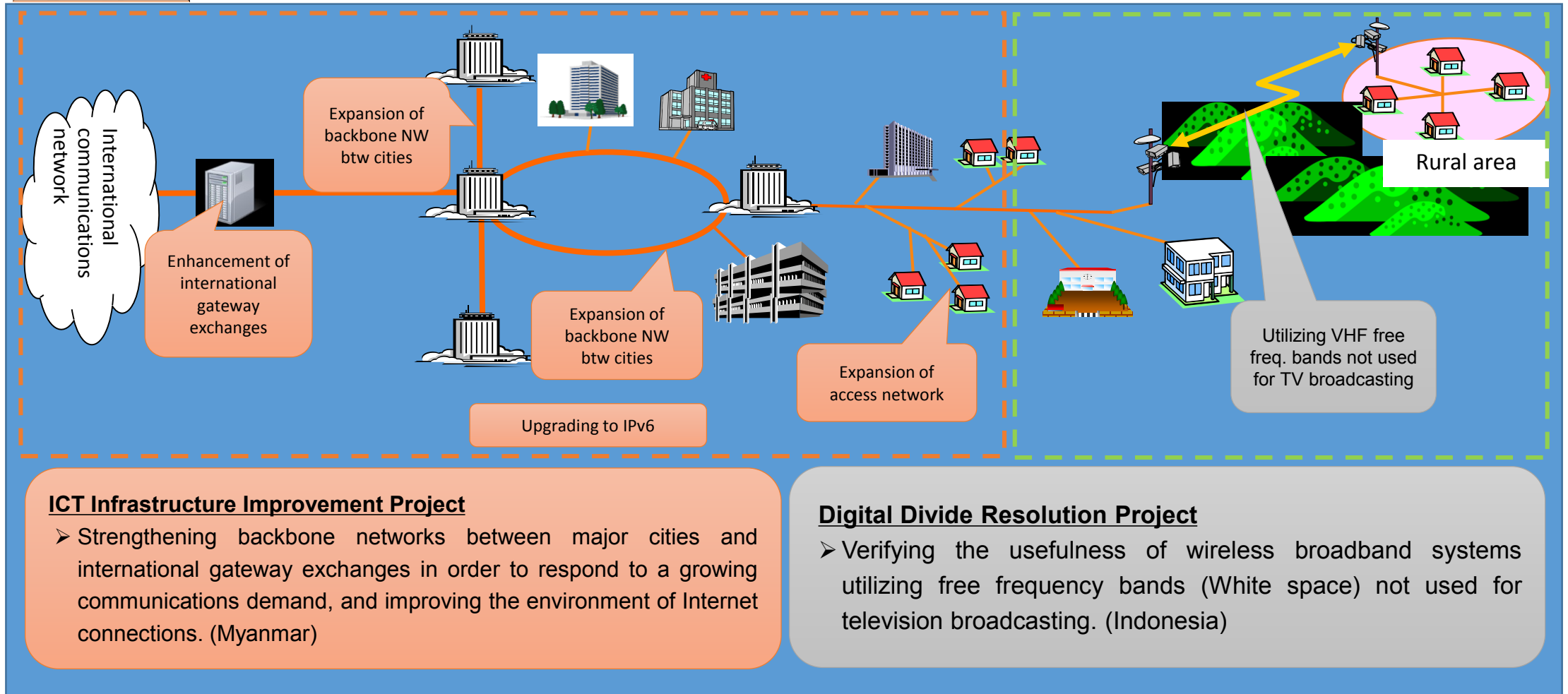
■ Japan - Guam - Australia

- Total extension: approximately 9,500 km
- Transmission capacity: up to 36 Tbps
- Total project cost: up to 183 million USD
(Support amount from JICT: up to 44.5 million USD)
- Completion: the fourth quarter of 2019 (planned)

■ Hong Kong - Guam

- Total extension: approximately 3,900 km
- Transmission capacity: up to 48 Tbps
- Total project cost : up to 138 million USD
(Support amount from JICT: up to 50.5 million USD)
- Completion: the first quarter of 2020 (planned)

Examples



I. ICT / Postal system and related services

1-5) Security and Safety System

Examples

1. License plate authentication



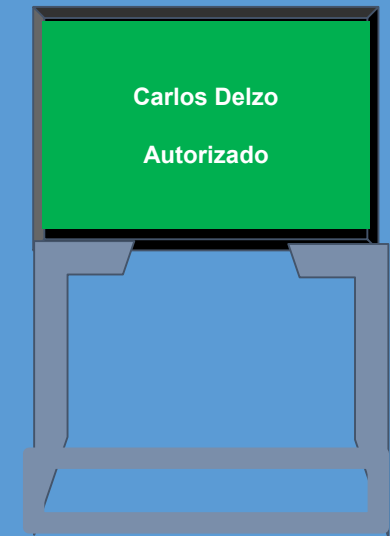
- Reading the license plate
- Confirmation with the registered database

2. Driver face authentication



- Reading the face of the driver
- Confirmation with the registered database

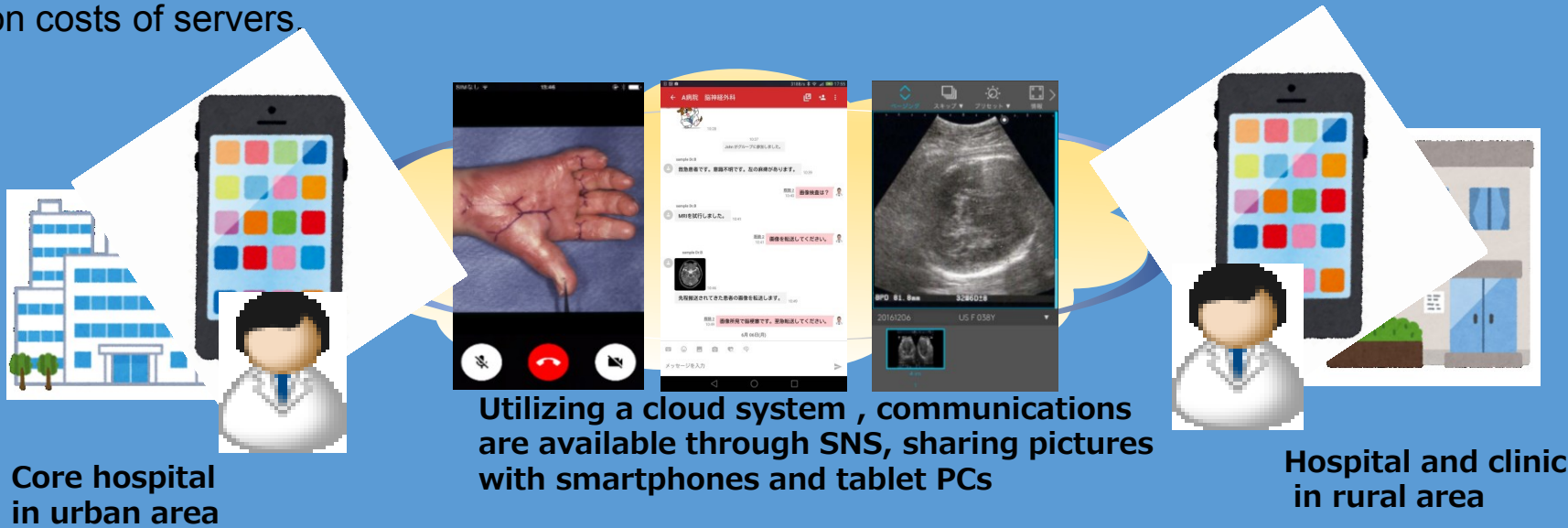
3. Notice of admission



Examples

Telemedicine network

- Implementing a demonstration project that utilizes smartphones to achieve convenient and highly accurate telemedicine. (Peru)
- Introducing SNS-type mobile cloud services, in which healthcare personnel can share medical images and contact each other.
- Utilizing a cloud system located outside hospitals, thus reducing the burdens of expensive installation and operation costs of servers.



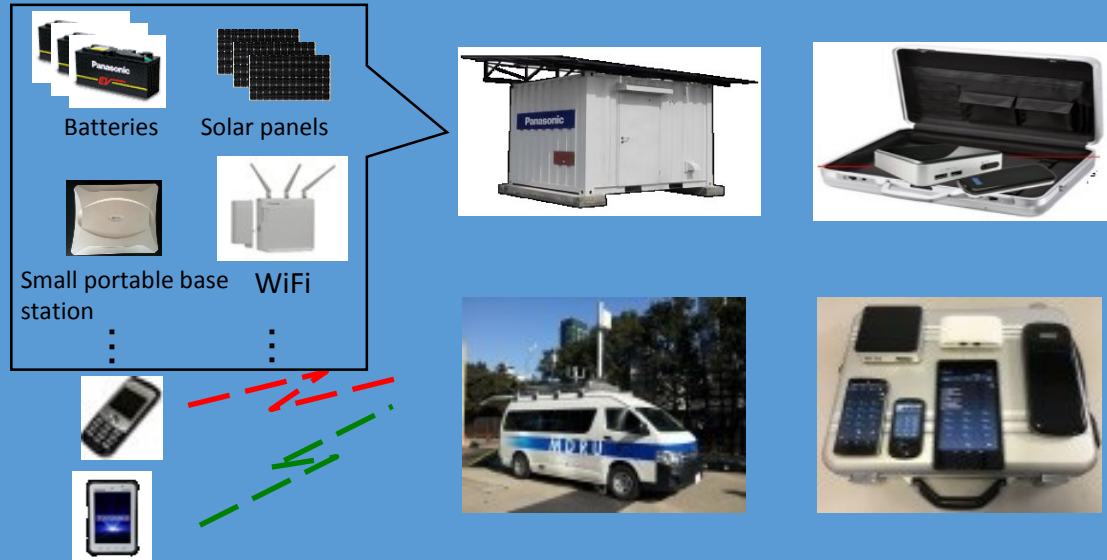
I. ICT / Postal system and related services

1-4) ICT System for Disaster Management

Examples

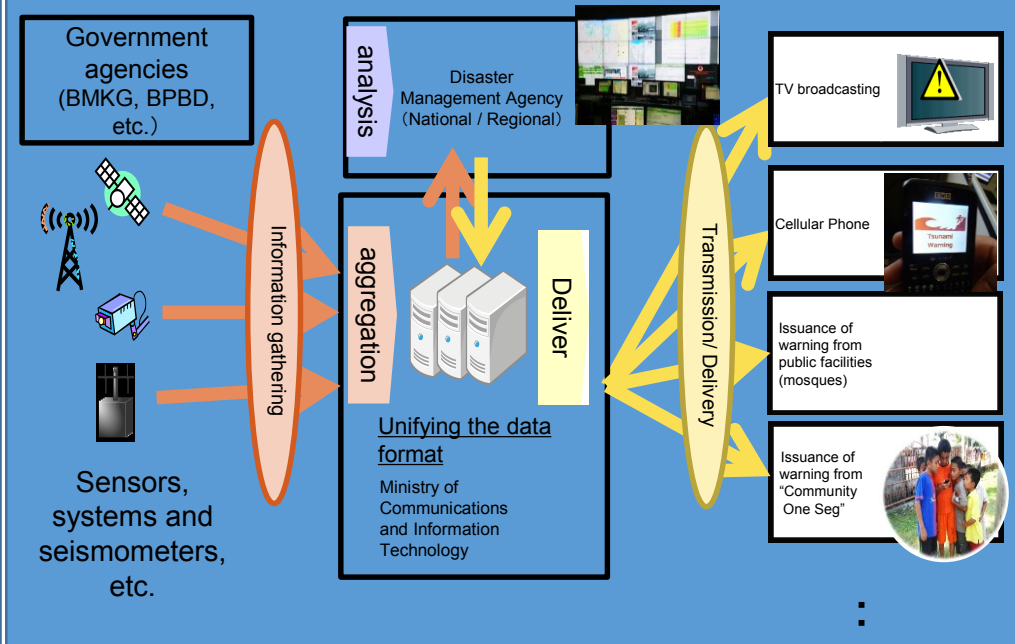
ICT Disaster Management Unit

➤ A system with a built-in power supply and wireless equipment capable of quickly restoring communication in times of disaster. (Philippines (Implemented))



Early warning system

➤ A system that collects, analyzes, and distributes disaster information consistently and enables the transmission of disaster information promptly with absolute accuracy. (Indonesia (Under consideration))



Examples

CYDER: CYber Defense Exercise with Recurrence

➤ Exercises on a simulated environment, experiencing a series of countermeasures against cyberattacks, and improving organizational practical responsive capability. (Thailand)

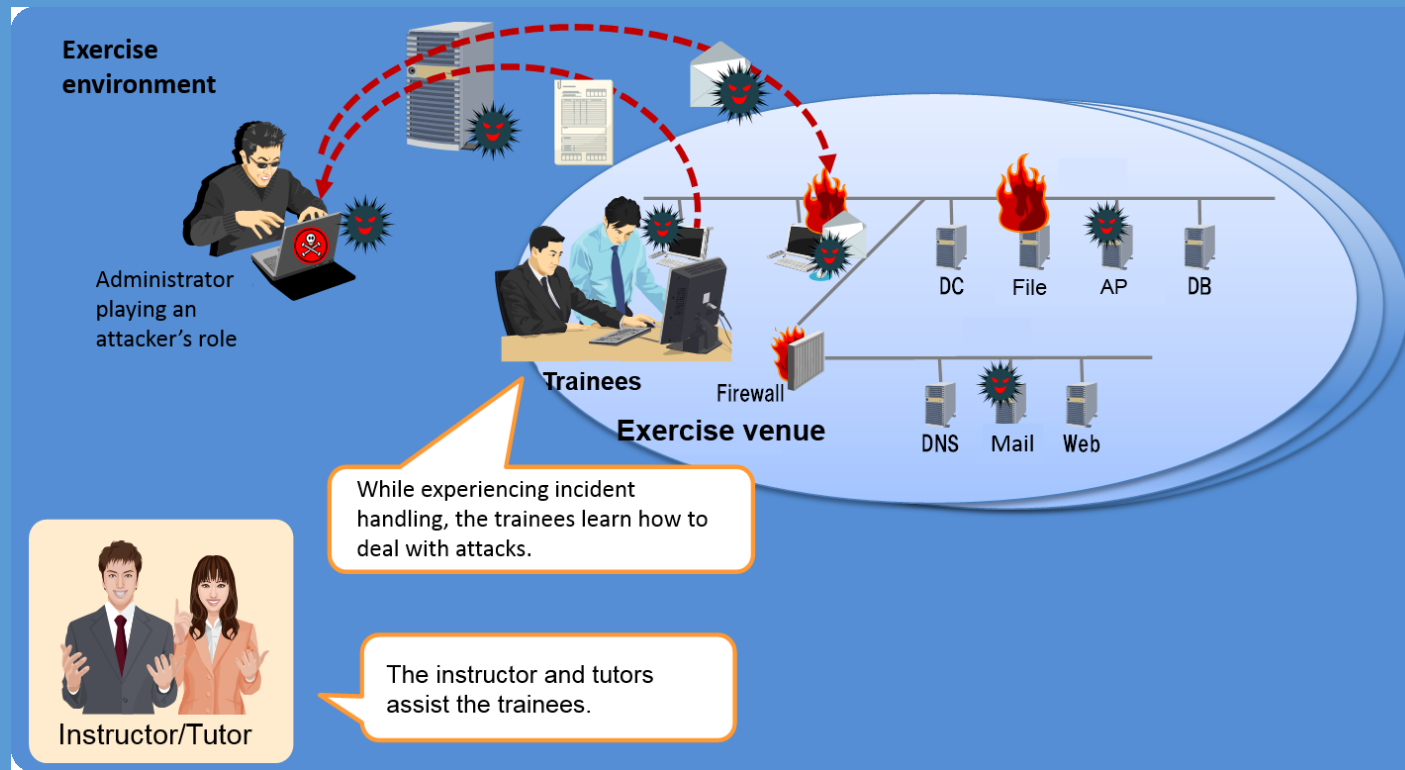
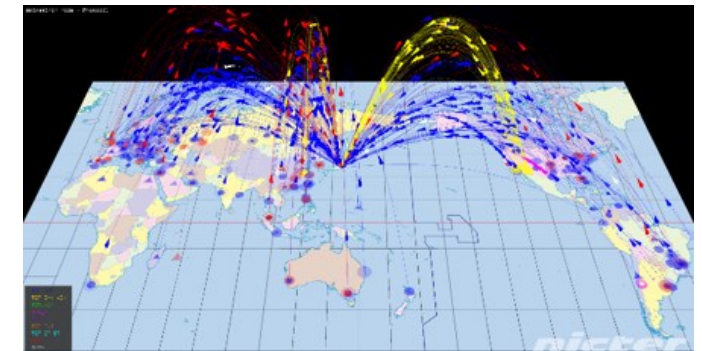
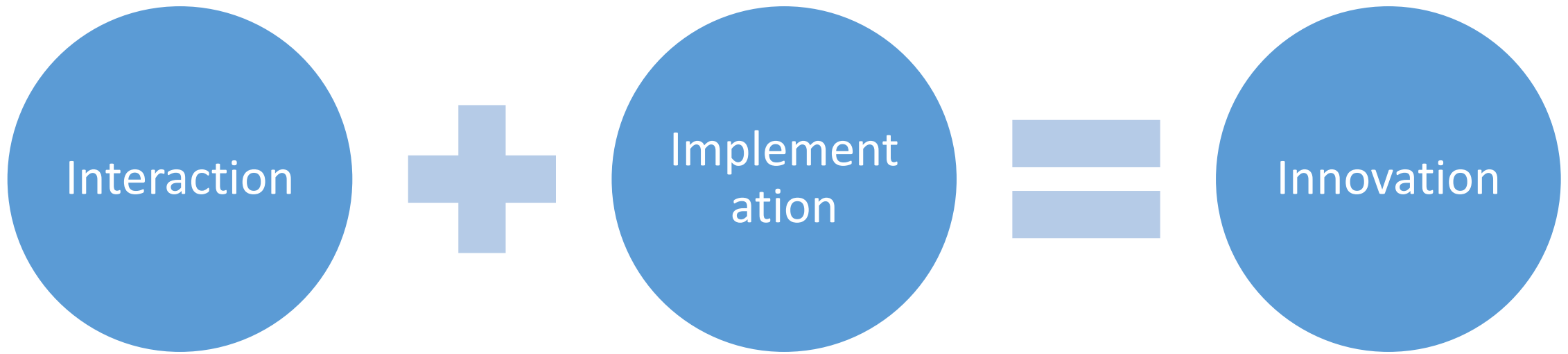


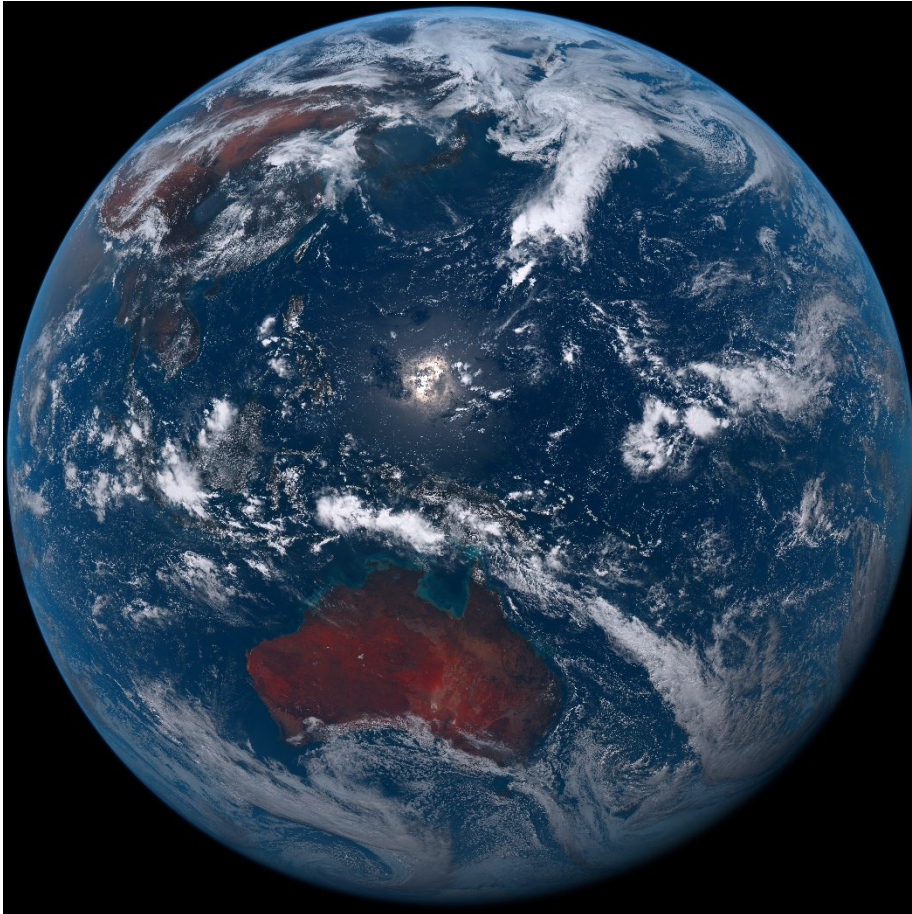
Image of cyberattacks





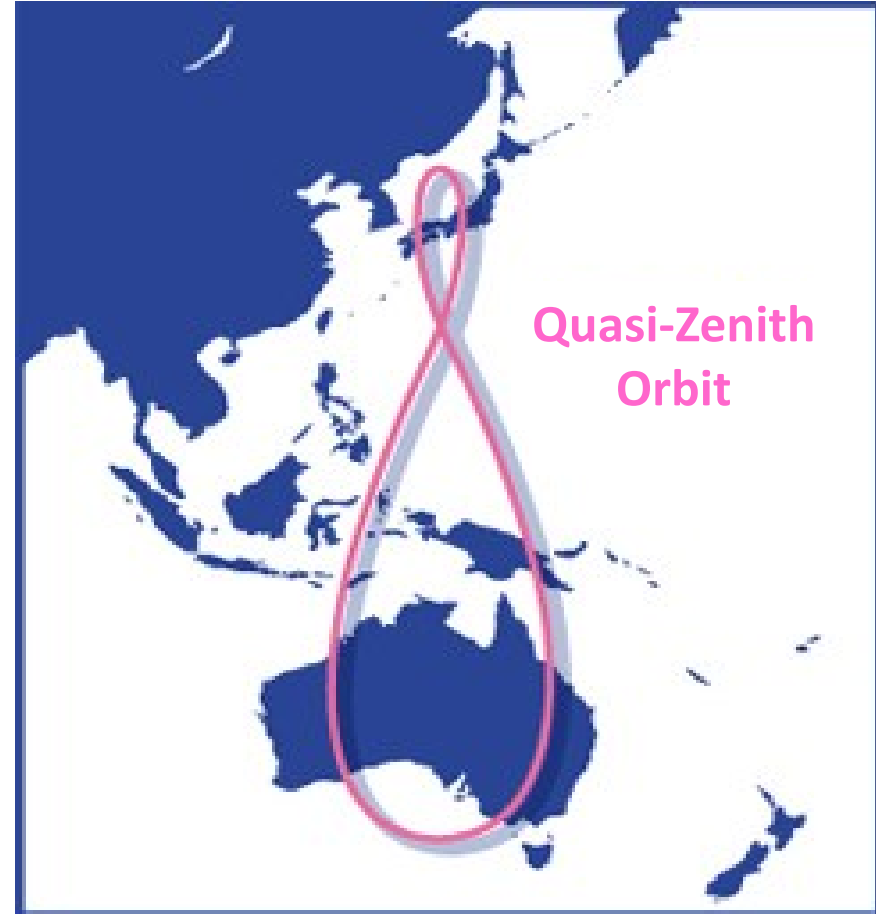
+ regional partnership

Geostationary Weather Satellite



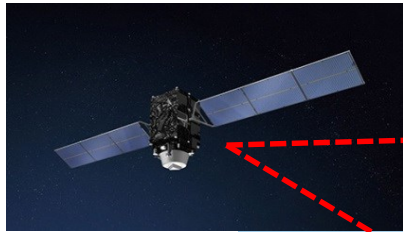
<http://himawari8.nict.go.jp/>

Quasi-Zenith Satellite for positioning



Info. Auto-mobility in agriculture using high accuracy 3D positioning

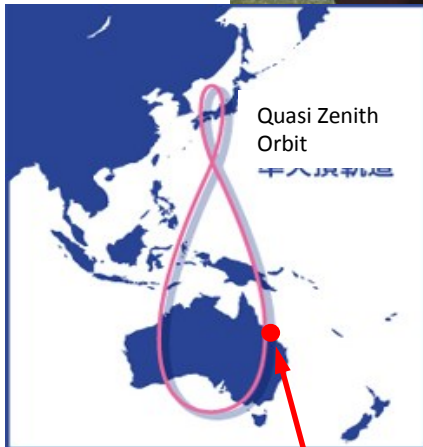
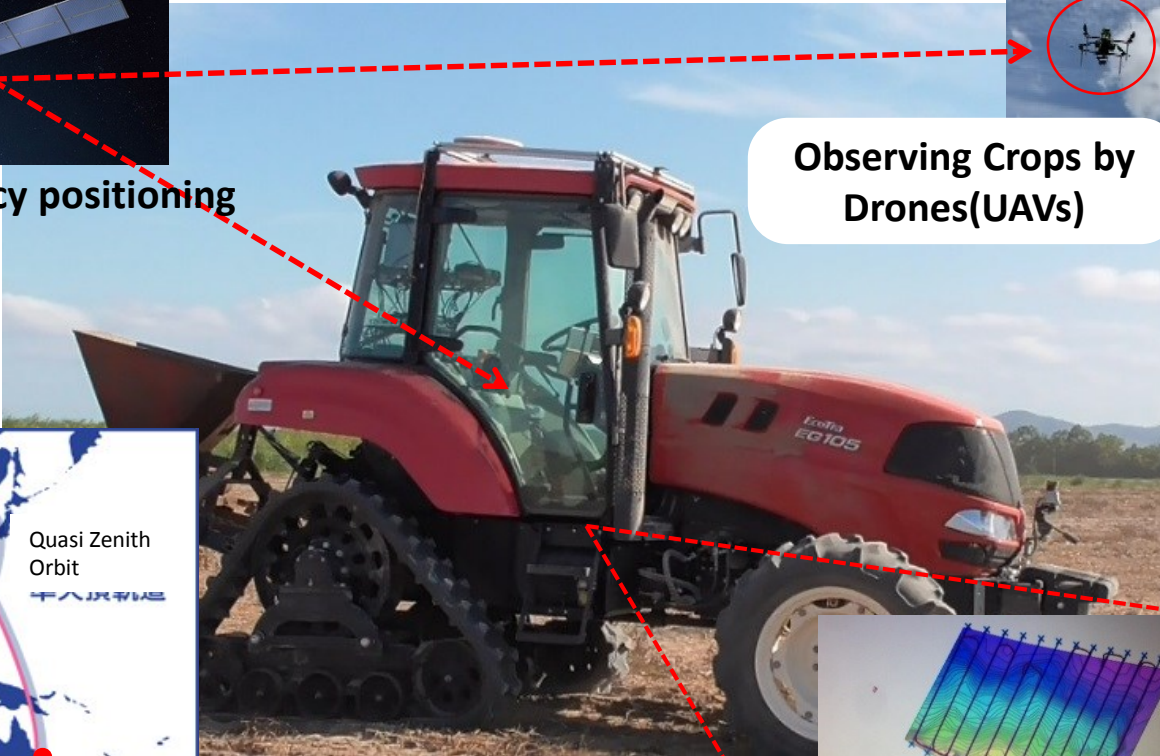
- ✓ Automation by high accuracy 3D-positioning signal
- ✓ Observation data from Drones (UAVs)
- ✓ Improve productivity by integration of 3D digital maps



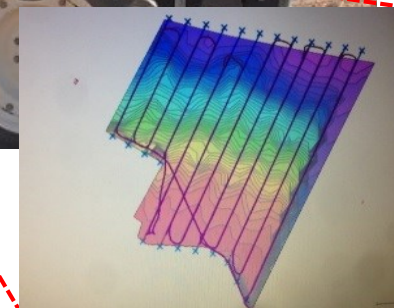
High accuracy positioning from QZSS



Observing Crops by Drones(UAVs)



Mackay in Queensland (Place of Pilot PJ in 2017)



3D digital map



Tillage



Spray



Fertilize

Auto-manipulation depending on data of growth, altitude, weather...

Preparation of PP-18

- Plenipotentiary Conference 2018
 - 29 Oct. - 16 Nov. in Dubai, United Arab Emirates
- APT preparatory meeting for PP
 - 3rd meeting, 18-21 June, Melbourne, Australia
 - 4th and last meeting, 27-30 August, Malaysia
 - Asia Pacific Common Proposal for PP

- Join to discussion on the future of ITU for Asia-Pacific!!

Thank you for your attention!

- Contact

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- Reference

- Casebook of MIC's Collaborations in the World
- <http://www.soumu.go.jp/english/gisb/index.html>