

50th Anniversary of Japan-ASEAN
Friendship and Cooperation
Further Cooperation for Smart Cities
- DX for Resilience -

Special Advisor to the Prime Minister

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1-1: Importance of Resilience in Japan and ASEAN

- Japan and ASEAN nations have been working together on various initiatives for resilience.



Pasig-Marikina river channel improvement project, the Philippines

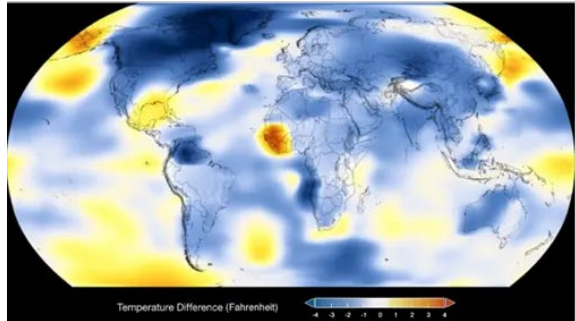


Erosion control dam in Mount Merapi, Indonesia

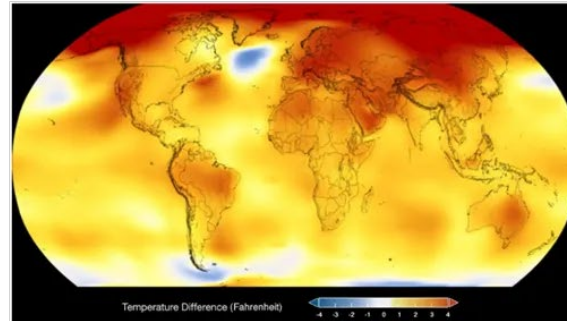
1-2: Importance of Resilience in Japan and ASEAN

- Climate change is causing more and more severe disasters.
- Improving resilience is an increasingly important global issue.

1884



2018



2013 Typhoon Haiyan (Yolanda)



Global Surface Temperature Change

(Source: NASA Scientific Visualization Studio)

Global average temperature increased by 0.85°C from the 1880s to the 2010s

<https://www.jwa.or.jp/news/2019/10/8374>
https://www.mlit.go.jp/river/shinngikai_blog/shaseishin/kasenbunkakai/shouiinkai/r-jigyohyouka/dai04kai/siryoku6.pdf



2021 Typhoon Rai (Odette)

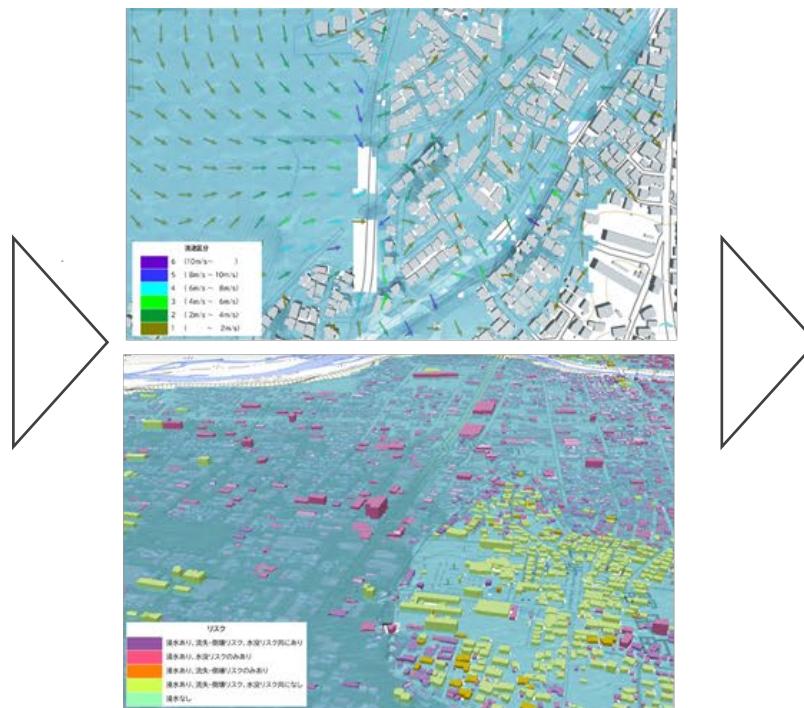
2-1: Examples of Resilience Initiatives in Japan

- DX can solve problems in all phases: normal times, pre-disaster, and post-disaster.

Normal times [Sophistication of evacuation planning by visualizing disaster risks]



3D model of the area around the Yahagi River (PLATEAU)



3D models allow simulation of water flow around buildings and the flooding/collapsing risk of each building.



Used in disaster preparedness discussions to examine advanced measures

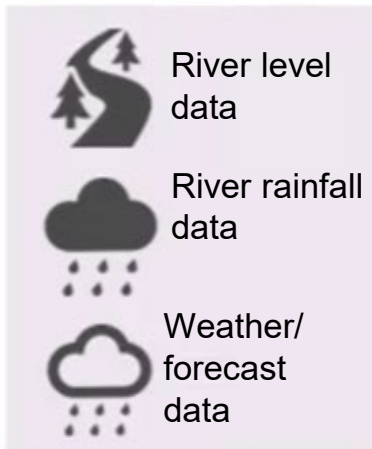
2-2: Examples of Resilience Initiatives in Japan

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Pre-disaster

[Speeding up flood response and evacuation with AI]

River water level gauge



AI-powered water level prediction system



Water level gauges, rain gauges, and inundation sensors are installed in rivers to acquire real-time data

AI water level prediction at each measuring point based on the acquired data and forecast rainfall

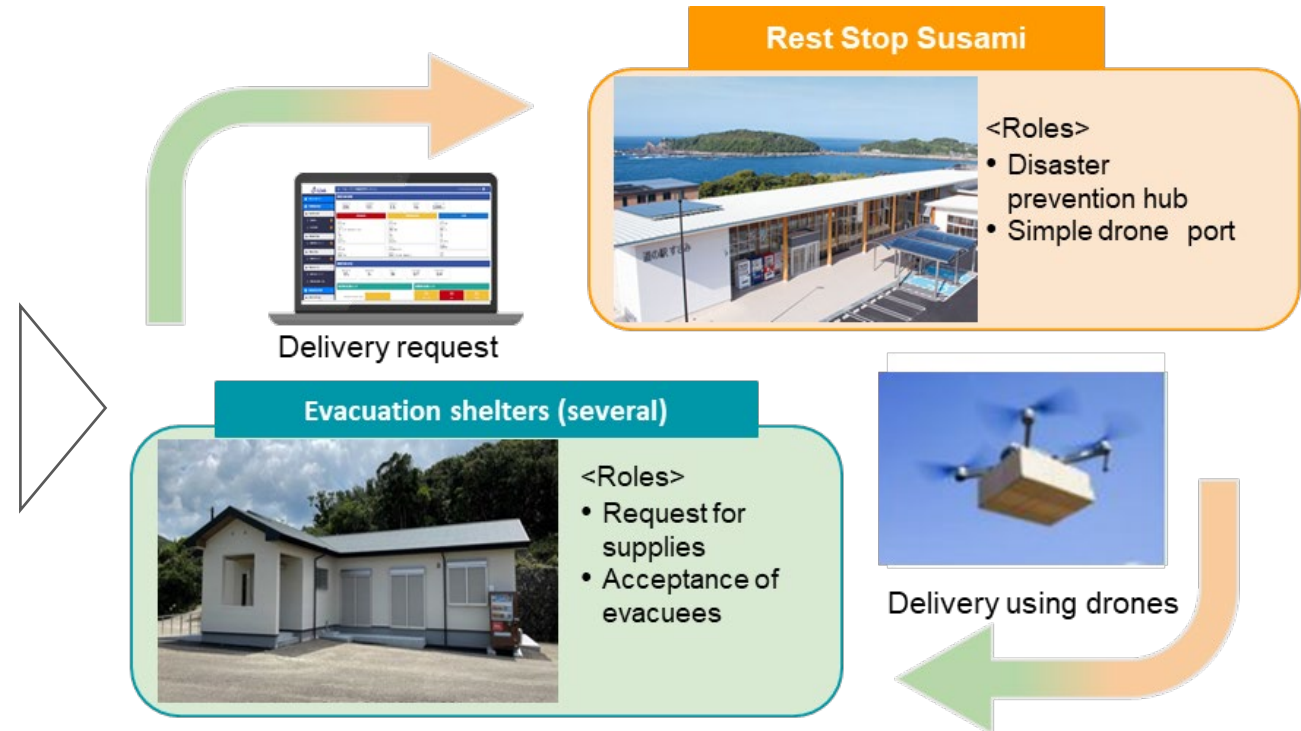
Early grasp of the situation
Evacuation preparations

2-3: Examples of Resilience Initiatives in Japan

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Post-disaster

[Delivery of relief supplies using automated drones]



3-1: Toward Social Implementation of Smart Cities

Matching opportunities with service provider companies and capacity-building efforts are important.

Business matching



At the 4th Japan-ASCN High Level Meeting

Capacity building



UNCRD Training



JICA Training

- **The key is sharing experiences, strategies and best practices to jointly develop innovative solutions to each challenge.**
- **With Japan's knowledge and expertise, we would like to contribute to realizing smart cities in ASEAN nations and promote specific projects for “implementation.”**
- **We will welcome proposals from ASEAN nations.**

Thank you