

UN/IAF Workshop 2026 @Antalya

Session: cooperation as capacity-building and ecosystem development tool

Designing Cross-Border Space Ecosystems for Sustainable Growth & Resilience

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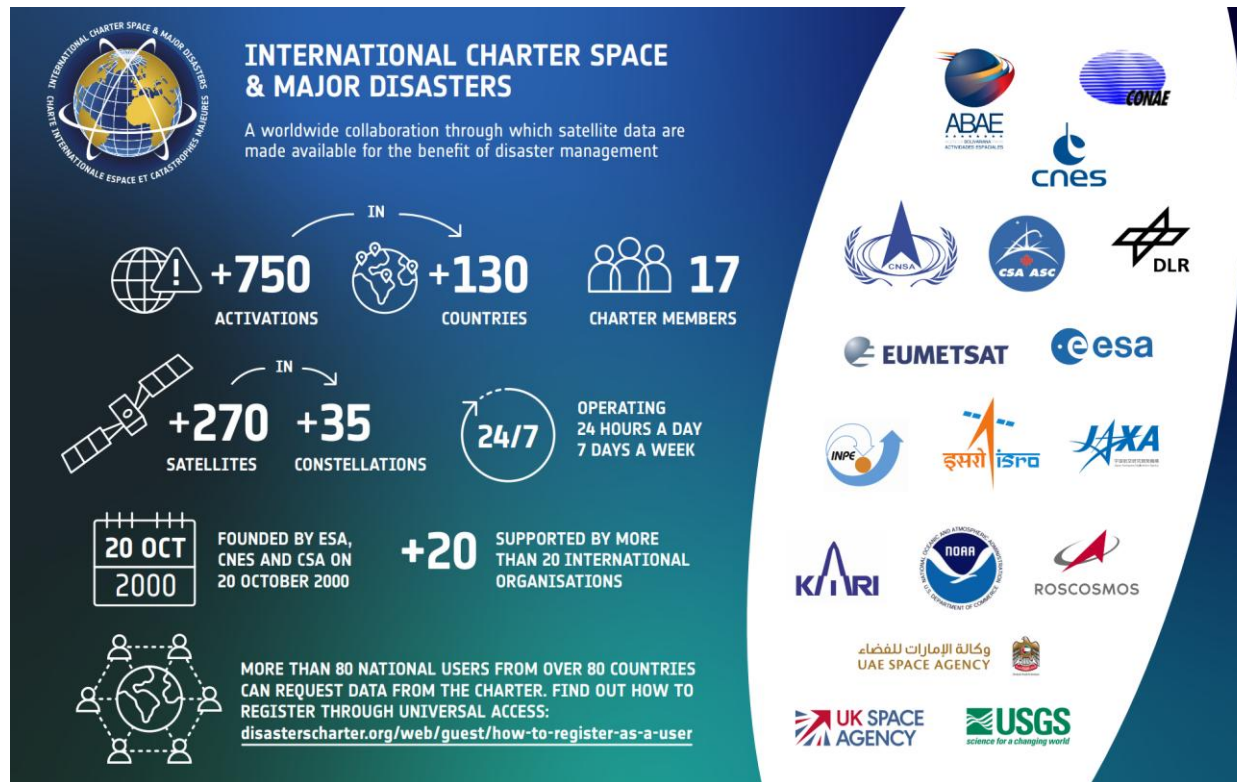
<https://www.mri.co.jp/knowledge/staff/0065.html>

<https://www.linkedin.com/in/masanori-muto/>

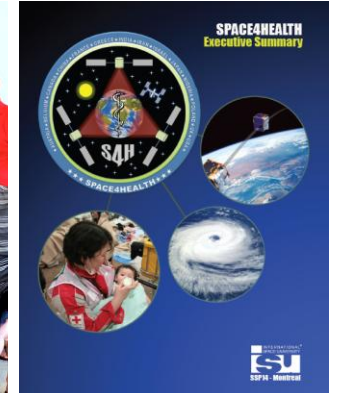
<https://www.researchgate.net/profile/Masanori-Muto>

My experiences why I see space is opportunity for growth

- Space is unexplored or frontier area where collaboration is important
 - decreasing risks + **creating innovation**
- Shifting from space agency to **commercial**



International Charter: Space & Major Disasters



International Space University (ISU)

Key Messages

Cross-border space cooperation can enable shared growth

—but only when trusted access, local capabilities, sustainable demand, and mutually beneficial value creation are designed together.

Cross-border space cooperation can enable shared growth

- when (1)trusted access, (2)local capabilities, (3)sustainable demand, and (4)mutually beneficial value creation are designed together.

DIVERSE SPACE ASSETS WORKING TOGETHER

across countries, governments and the **private sector**



Earth Observation

Optical / SAR / Hyperspectral
(multi-country, public & commercial)



Satellite Communications

Broadband / IoT /
Direct-to-device



Navigation & Positioning

GNSS and augmentation



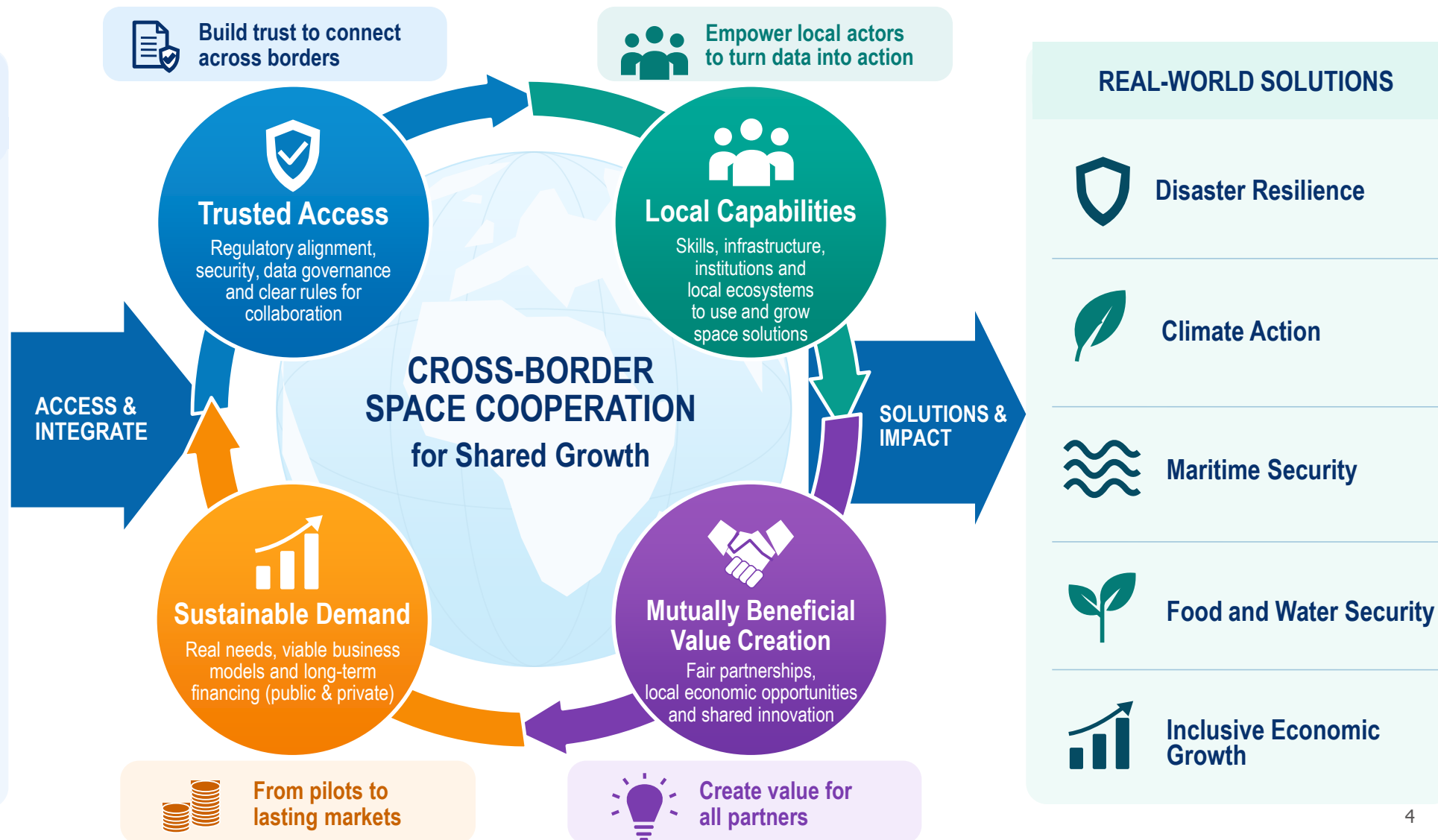
In-space R&D & Platforms

ISS, commercial stations,
space experiments



Beyond Earth

Moon, planetary exploration,
space resources



Japanese Disaster Charter (JDC) – example of space assets for all

Commercial platform enabling one-stop satellite data tasking of **both government and commercial** satellite operators/providers during initial disaster response.

■JDC has cleared... (1)integrated searching and tasking, (2)multi-license issues (EULA), and (3)business model (ongoing – not fully commercialized yet)

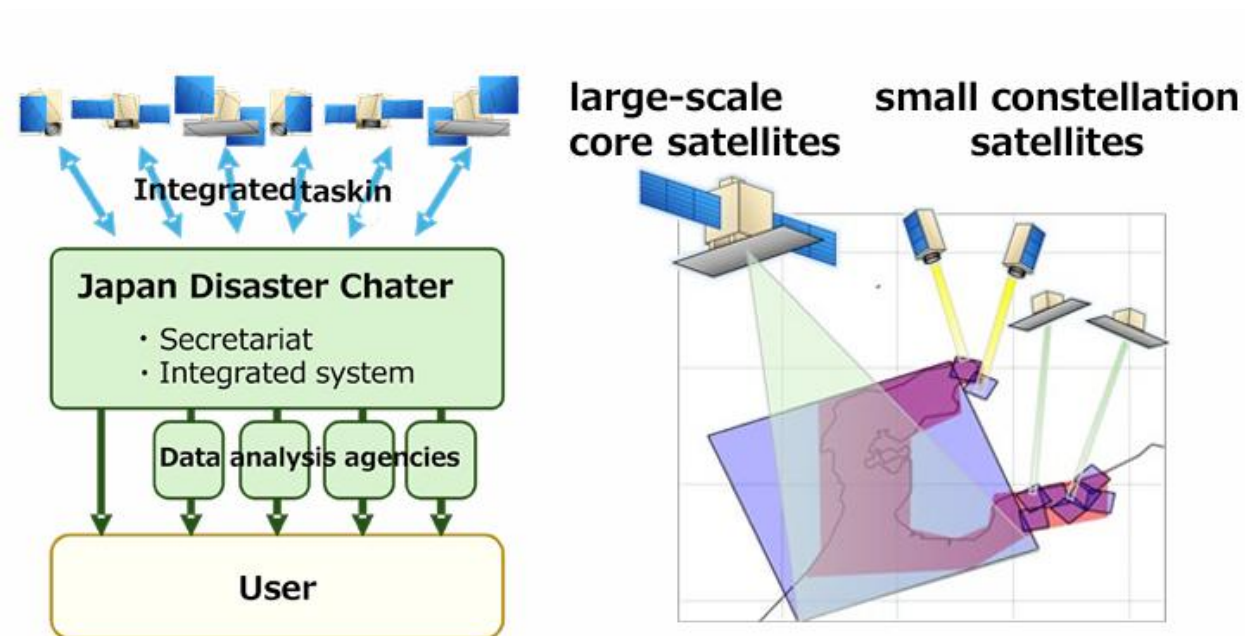


Fig1. Japan Disaster Charter(BRIDGE) Scheme Concept

https://earth.jaxa.jp/conseo/en/casestudy/pdf/UC_SDS_1_e.pdf

No.	Satellite / Constellation	Operator / Data Provider	Country	Sensor Type
1	ALOS-2 (Daichi-2)	JAXA	Japan	SAR.
2	ALOS-4 (Daichi-4)	JAXA	Japan	SAR.
3	COSMO-SkyMed (CSK)	ASI / e-GEOS	Italy	SAR.
4	COSMO-SkyMed Second Generation (CSG)	ASI / e-GEOS	Italy	SAR.
5	StriX constellation	Synspective	Japan	SAR.
6	QPS-SAR constellation	iQPS	Japan	SAR.
7	Capella constellation	Capella Space	United States	SAR.
8	SPOT-6	Airbus	France	Optical.
9	Pléiades 1A / 1B	Airbus	France	Optical.
10	GRUS constellation	Axelspace	Japan	Optical.
11	Dove constellation — PlanetScope imagery	Planet	United States	Optical.
12	NewSat constellation	Satellogic	United States	Optical.

Commercial data providers (incl. startups small sats) 5

How JDC worked? – use case is important to change the operation

Observation Timeline – delivered data timely for decision makings

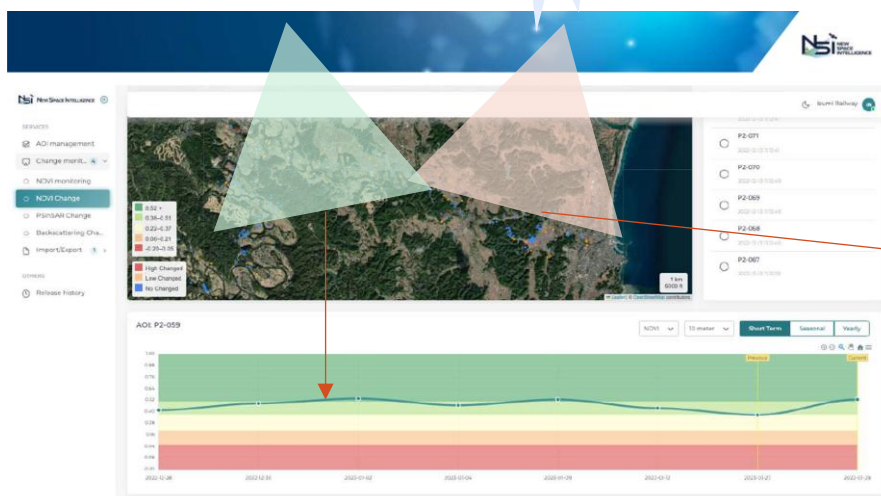
- August 15th PM: Activation before typhoon hit – **searched for timely observation slots for AOI**
- August 16th **8:14PM Emergency Observation** by Capella
- August 17th **11:00AM Detected inundation and used to choose the priority areas for checking**

[Normal Times]
Variety of satellite data for
regular monitoring

Disaster
happens

Emergency
observation

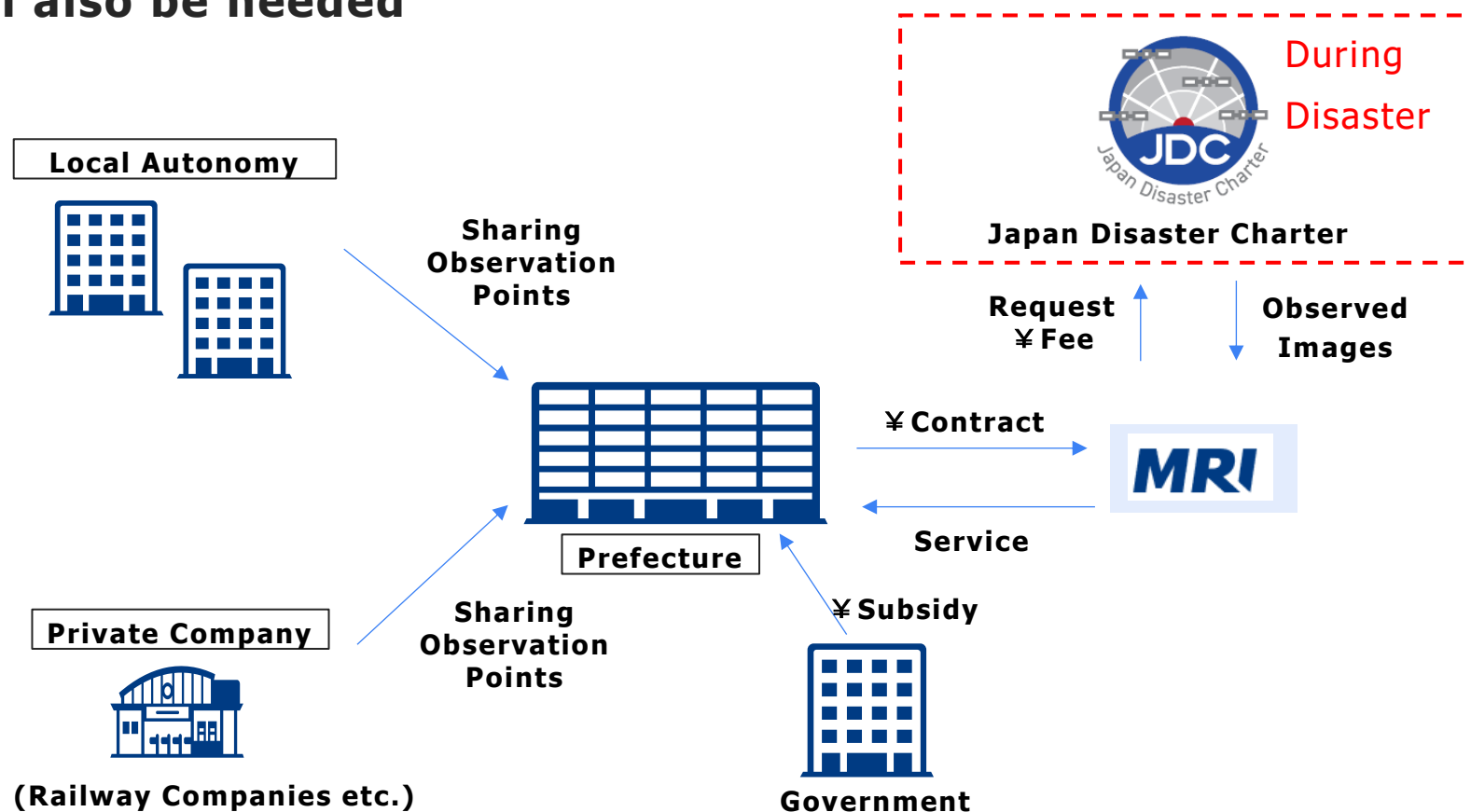
[Disaster Response]
Satellite Data from “Japanese Disaster Charter”



Detected Inundation Area in Isumi Railway (Typhoon 2024)

Business Model – localizing space assets for wider use cases

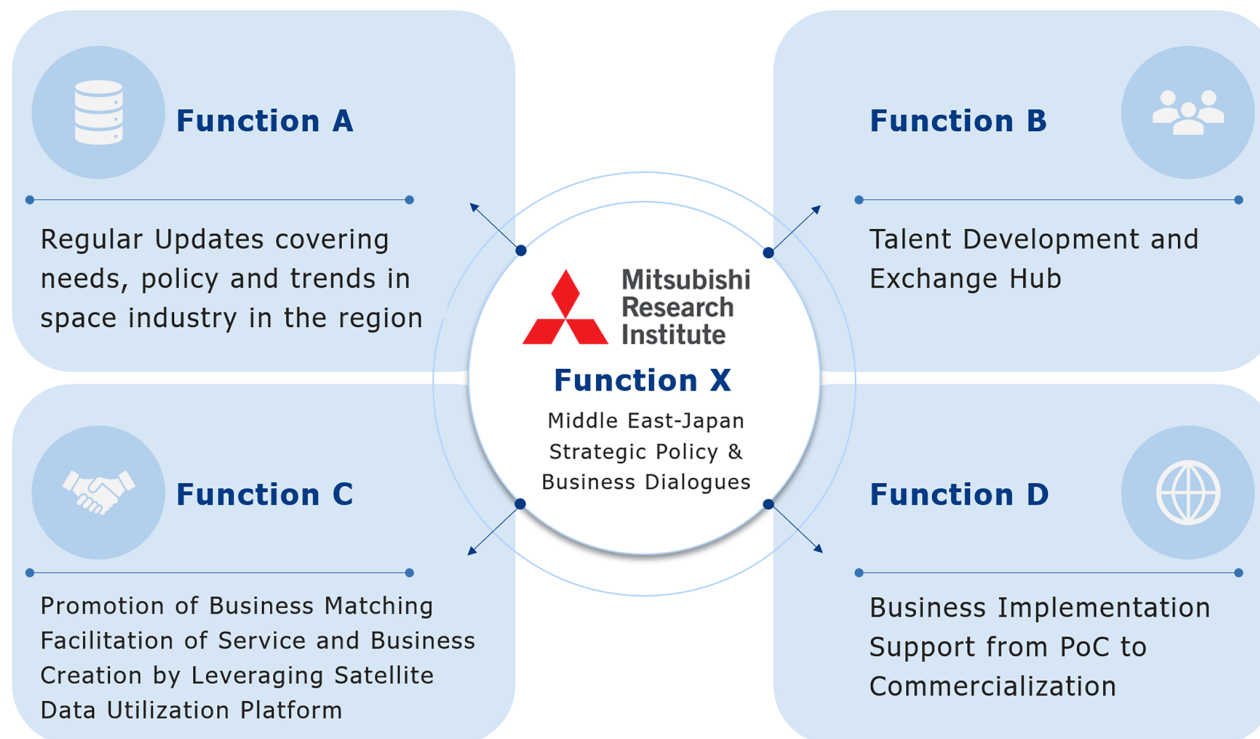
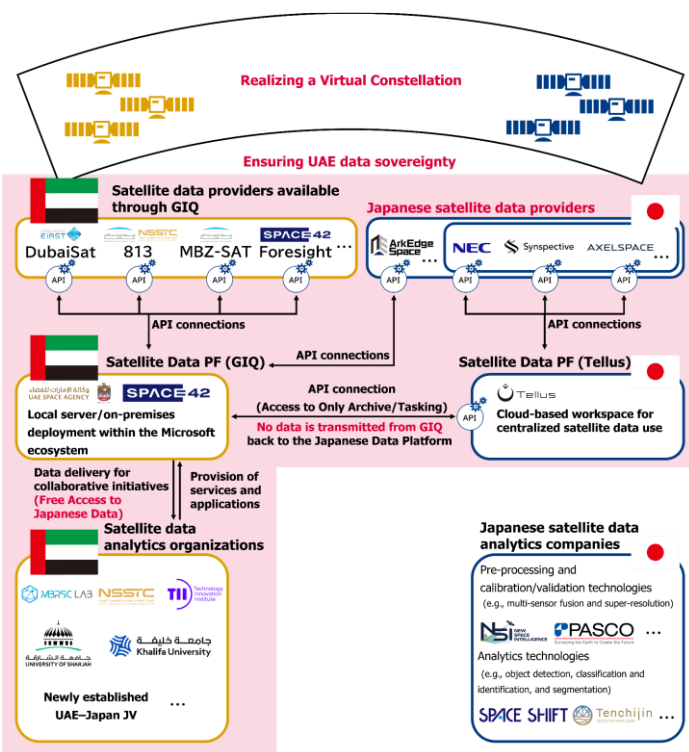
- Data subscription for normal phase (e.g., infrastructure monitoring) + Emergency Contract for Disasters needed for **sustainable use**
- Data sharing model among Prefecture/City and Infrastructure Company (**non-space sector**) shall also be needed



Collaboration Platform between Japan & Middle-East



Strategic Collaboration of Policy and Business in the Space & Satellite Industry
by establishing **Middle East–Japan Industry–Government–Academia Platform**



<https://www.mri.co.jp/en/news/20260525.html>

JAXA's Space Strategy Fund Project for Japan's Space Ecosystem with Middle East (JFY2026-2030)

Key to innovation in space

- **Know each other** (seeds/needs), share ideas and co-develop solutions to maximize our potential space capabilities.
- Space collaboration hub/platform covering government, industry, academia and **non-space sectors** should be established for emerging challenges such as AI in space.
- Design cross-border space cooperation with trusted access, local capabilities, sustainable demand, and mutually beneficial value creation – starting from **small use cases**.