Cabinet Office

# 8th Prague Space Security Conference Keynote Address

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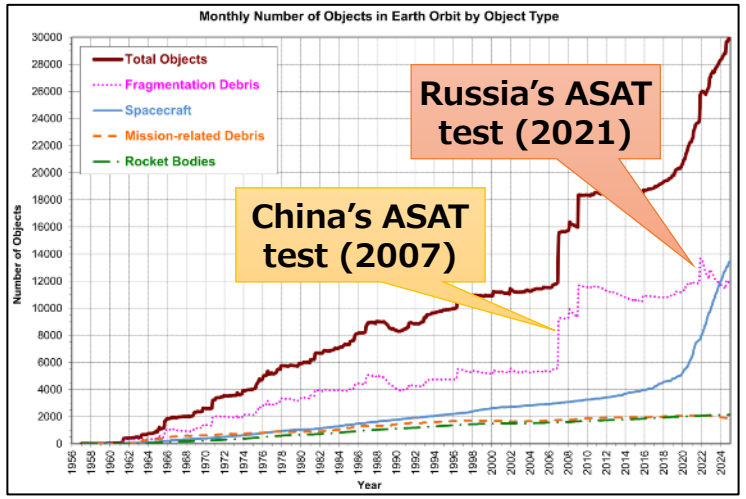
# The Changing Space Environment

- As space utilization expands, satellites and debris are rapidly increasing—raising the risk of collisions in orbit.
- As counterspace capabilities advance, threats in space are also growing rapidly.

## Increase of Orbital Objects

- **Number of Cataloged Objects in Earth Orbit:** DA-ASAT Tests and Satellite Constellations caused increase of orbital objects.
- **Untransparent and irresponsible behavior** by certain actors are of concern.




https://orbitaldebris.jsc.nasa.gov/quarterly-news/pdfs/ODQNv29i1.pdf

## Threats and Risks: Counterspace Capabilities

- **2025 Space Threat Assessment:** CSIS Highlights the Growing Threat of Counterspace Capabilities
- **Diversifying Counterspace Threats:** Jamming, Spoofing, ASATs, and Cyberattacks etc.

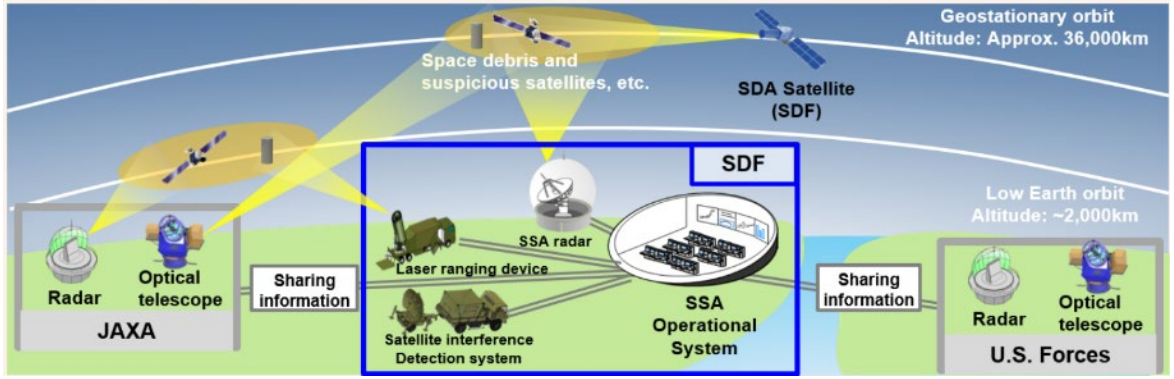
https://www.csis.org/analysis/space-threat-assessment-2025

# Japan's Efforts ①

- As space threats and risks intensify, it is essential to establish a Space Domain Awareness (SDA) posture and enhance the resilience of space operations.
- Enhanced public-private collaboration is crucial to respond effectively to these evolving space security challenges.

## Security in Space

- To ensure the stable use of outer space, Ministry of Defense has been enhancing SSA and SDA capabilities.
- Japan Air Self-Defense Force (JASDF) started SSA/ SDA operation in March 2023.




## Public-Private Collaboration

- The Public-Private Council on Enhancing the Stability of Space Systems was established in October 2023.
- To enhance the effectiveness of the Public-Private Council, we conduct annual Table-Top Exercises.
- In February 2025, approximately 170 participants took part in the exercise.

Scene from the TTX

# Japan's Efforts ②

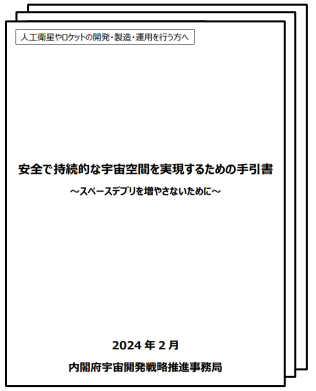
- To implement wide range of initiatives to respond to threats and risks in space.
- To build practical efforts in technology development and rulemaking in the areas of collision prevention, SSA, debris mitigation and remediation, and on-orbit services.

## Technology Development

- **Commercial Removal of Debris Demonstration (CRD2):** In February 2024, the ADRAS-J satellite (by JAXA and Astroscale) was launched. From May to November 2024, it successfully approached and observed a target piece of debris in orbit at close range.
- The project was conducted in a **transparent manner** in accordance with the "**Guidelines on a License to Operate a Spacecraft Performing On-Orbit Servicing**" (2021) under the Space Activities Act (2016).

## Rulemaking

- **"Guidelines on Collision Avoidance with Satellites, etc.":** In February 2025, a guidelines on satellite collision avoidance was released, outlining operational concepts and measures.
- **"Handbook for Realizing a Safe and Sustainable Space Environment":** In February 2024, a debris mitigation handbook was also released, based on JAXA's expertise, and Japan continues to share its efforts internationally.



# International collaborations

- International discussions—particularly at the United Nations—are becoming increasingly important.
- Strong collaboration with allies and like-minded countries is vital as well.
- Japan joined Combined Space Operations (CSpO*) Initiative in December 2023.

* 10 members: AUS, CAN, DEU, FRA, GBR, ITA, JPN, NOR, NZL and USA

## Deliberations within the United Nations

- In December 2022, the resolution entitled "Destructive Direct-Ascent Anti-Satellite (DA-ASAT) Missile Testing" submitted by the US, Japan and 9 other countries, was adopted with the support of 155 countries at the Plenary Meeting of the UN General Assembly.
- In December 2024, the resolution entitled "Weapons of Mass Destruction in Outer Space," submitted by Japan, United States, and Argentina, was adopted with the support of 167 countries at the Plenary Meeting of the UN General Assembly.

## International Symposium

- NSPS has been organizing National Space Policy Secretariat Symposium since 2016 with the aim of deepening discussions on safe and sustainable use of outer space.
- At this year's symposium, we were honored to welcome many distinguished panelists.

Mr. Minoru Kiuchi,
Minister of State for Space Policy

Ms. Aarti Holla-Maini,
UNOOSA Director

Cabinet Office