



“JAXA Sustainable Space Principles”

**-JAXA’s contribution to the Sustainable
Development Goals (SDGs)-**

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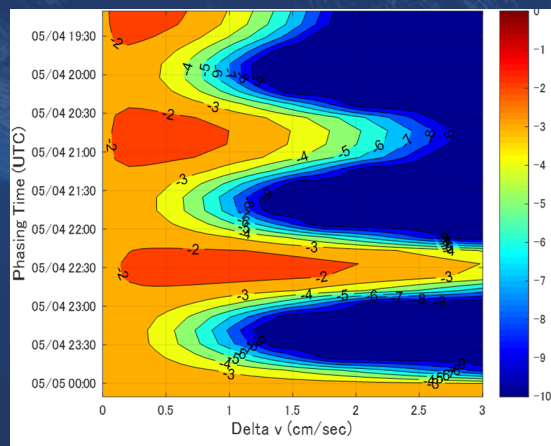
Japan Aerospace Exploration Agency (JAXA)

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Contribution to the Long-term Sustainability of the Outer Space Activities (LTS) Guidelines

Examples of JAXA's Efforts:

Collision risk avoidance assistant tool (RABBIT)

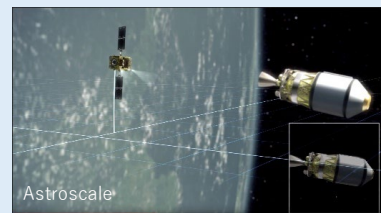


RABBIT: Risk Avoidance assist tool based on debris collision ProBaBiliTy

<https://sma.jaxa.jp/Software/RABBIT/index.html>

Commercial Removal of Debris Demonstration (CRD2)

Phase-I Launch planned in JFY2022
Key technologies demonstration



- Non-cooperative rendezvous, proximity operation, inspection

Phase-II JFY2025~
ADR demonstration



- Non-cooperative rendezvous, proximity operation, inspection
- Removal of 2nd stage of launch vehicle

<https://www.kenkai.jaxa.jp/eng/research/crd2/crd2.html>

JAXA Sustainable Space Principles

JAXA commits to the following three principles to ensure that a viable space environment can be passed on to future generations and that the humankind can continue to obtain the benefits of outer space.

- ① Together with space related entities from around the world, JAXA commits to the **preservation of the outer space** as a realm of all mankind.
- ② JAXA brings the benefits of outer space exploration and utilization **equally to the present and future generations**.
- ③ By **developing innovative technologies**, JAXA contributes to the resolution of challenges associated with the promotion of sustainable space activities.

These commitments serve as our guiding principle to achieve the “JAXA’s priority areas for sustainable outer space” in JAXA’s basic policy on the SDGs.

JAXA's basic policy on SDGs

~Explore to realize sustainable future~

SDGs Mission Statement:

By leveraging SDGs as a common global language and an opportunity for innovation for solving social issues, JAXA works with diverse partners to realize a sustainable, safe, and prosperous society through engaging in world-leading R&D and the application of its results.

SDGs Action Guidelines:

World-leading R&D

Solve challenges on Earth and in space through world-leading R&D and the application of its results.

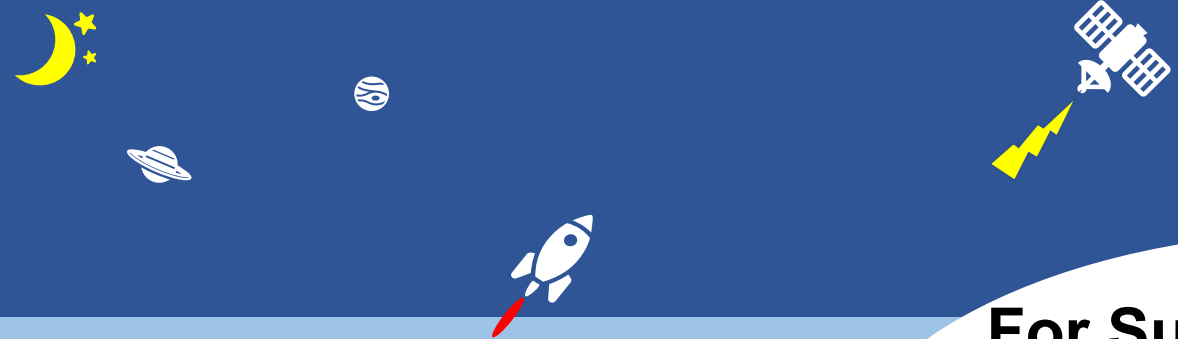
Exercising individual creativity

Exercise our individual creativity, embrace the principles of SDGs, and take actions to realize the goals, while leveraging JAXA's capabilities and assets.

Collaboration with diverse partners

Collaborate with diverse stakeholders from around the world to create synergy in activities and to maximize the return of R&D results to society.

JAXA's Priority Areas



For Sustainable Outer Space

- Challenging the human frontier and returning its benefits to society on Earth
- **space infrastructure, institutionalization and rule-making for sustainable space activities**



For Sustainable Earth

- Contributing to a carbon neutral and circular society
- Green aerospace systems R&D
- Providing scientific evidence for climate action, environment conservation, SDGs and ESG investment promotion



For Sustainable Society

- Land & infrastructure management, national resilience, disaster prevention
- Infrastructure development supporting Society 5.0*
- Solving global challenges, economic growth, innovation



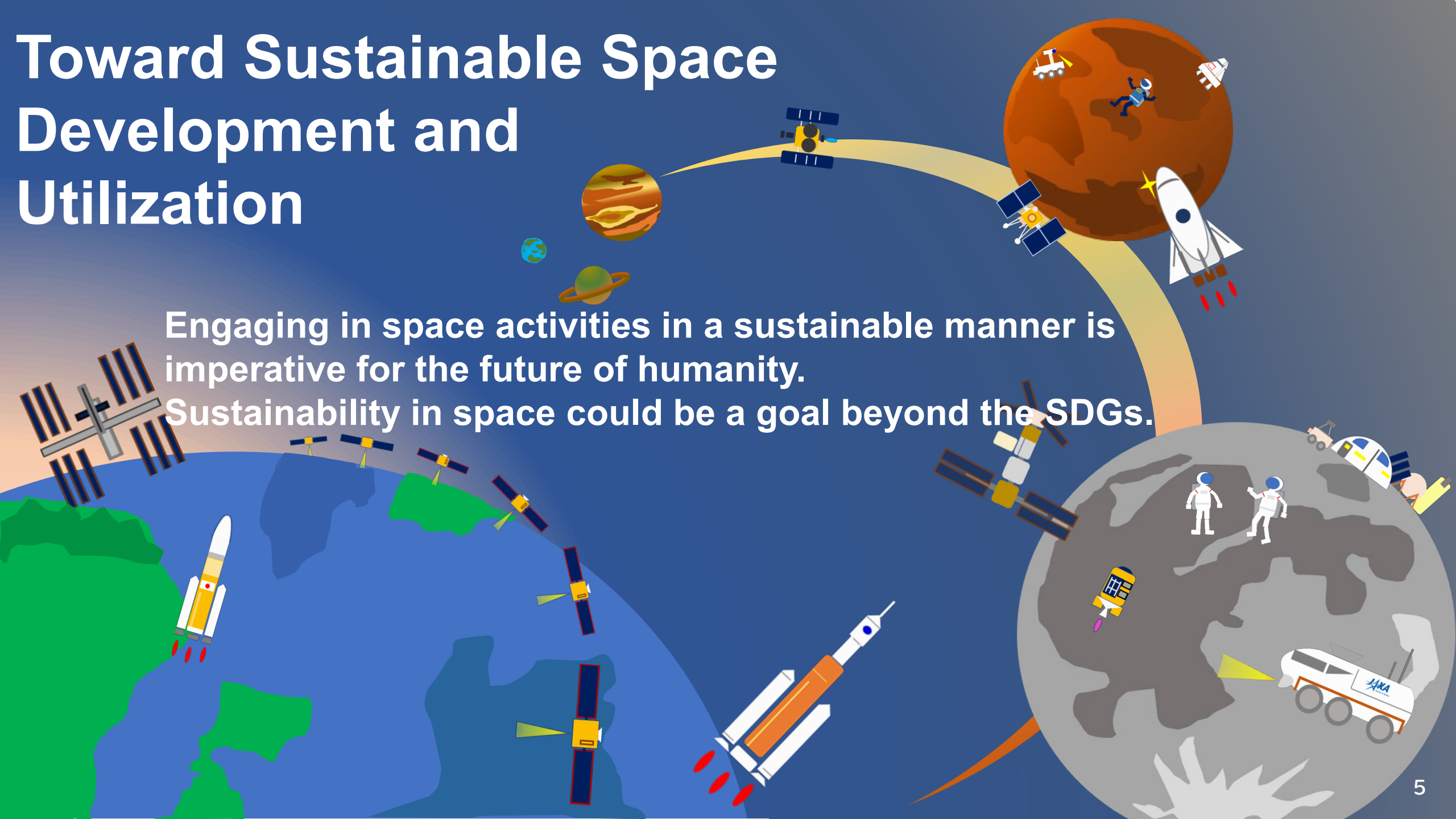
For Sustainable Organization

- Fair and accountable organizational management, promotion of diverse partnerships
- Creating joy and amazement, human development



Toward Sustainable Space Development and Utilization

Engaging in space activities in a sustainable manner is imperative for the future of humanity.
Sustainability in space could be a goal beyond the SDGs.





**JAXA wishes to further promote sustainability of Earth and Space.
Join us in realizing new values for a sustainable future beyond the SDGs!**

Thank you for your attention!