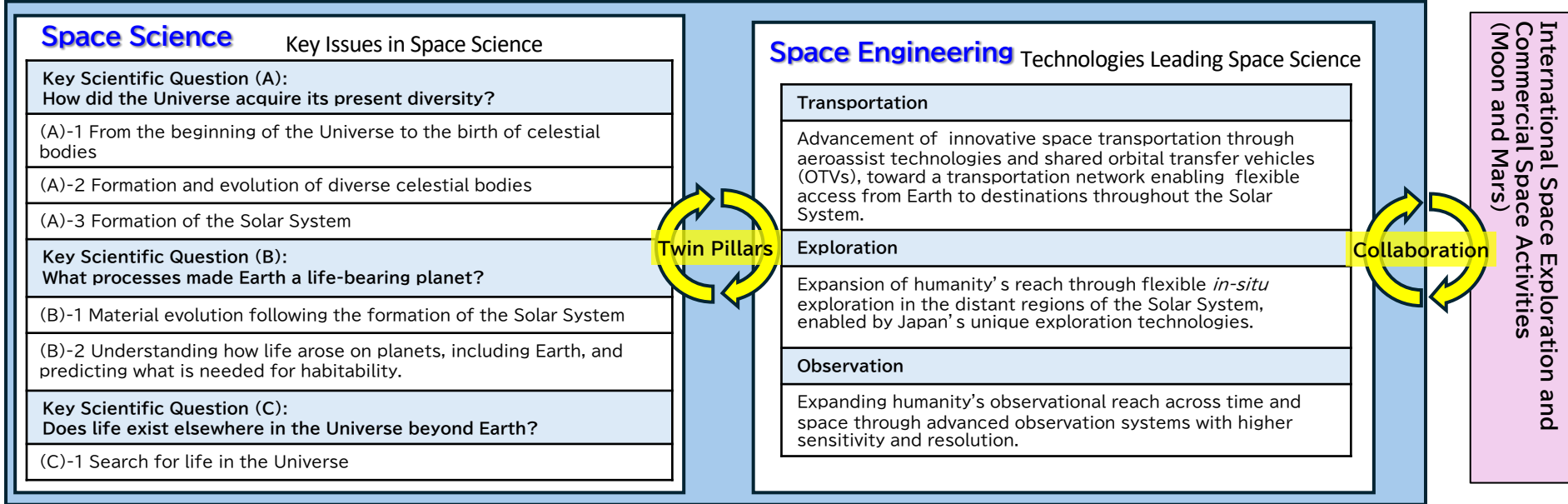


Objective: To provide a medium- to long-term plan that enables researchers to share a strategic vision of the “big picture” by **taking a broad view of the future of space science and exploration, including Japan’s role and position in the global community.**

Key features of this revision: **To continue generating world-leading achievements in space science and exploration, this revision outlines overarching policy directions including improving development efficiency, co-creation with industry, human resource development, maintaining and strengthening foundational facilities, developing mission concepts capable of sustaining support and engagement from a wide range of communities and stakeholders, and fostering an enabling environment.** These considerations were made from a broader perspective extending beyond the direct benefits to the fields of space science and exploration alone. The contents of this roadmap are intended to be reviewed and updated as appropriate in light of new knowledge and scientific achievements.

Revitalization of the Space Science Community:
Advancement of space science through the twin pillars of achievements in space science and innovation in space engineering.
Enhanced collaboration with a clear focus on pathways for research outcomes.



New Approaches to Programs and Missions for Realizing the Overarching Policy Direction: Aiming to Generate World-Leading Achievements

Nurturing Talent and Fostering an Environment That Encourages Challenges Over the Medium to Long Term

Introduction of new initiatives that enable more frequent challenging missions while fostering human resource development.

Strengthening technology front-loading, including the creation of new opportunities for technology demonstrations in the space environment.

- Provision of flight experiment opportunities using balloons, sounding rockets, and similar platforms.
- Maintenance and enhancement of common infrastructure for space science and exploration, while promoting shared use by universities, research institutions, and industry.
- Formulation of the ISAS Basic Policy for Human Resource Development with the aim of achieving overall optimization.

Reorganization of Space Science Mission Categories to Advance Research and Development Efficiently and Effectively

Strategic Large Class Projects: Flagship missions aimed at generating world-leading scientific achievements.

- Competitive Middle Class Projects: Timely, high-frequency missions of an appropriate scale (enabled by a new standardized small satellite bus system).
- Strategic International Collaboration Projects: Maximizing diverse opportunities for international collaboration to generate scientific achievements.
- Small Projects: Providing flight opportunities complementary to other mission categories.
- Space Demonstration Missions Utilizing Sounding Rockets, Scientific Balloons, Rideshare Launch Opportunities, and Similar Platforms (Small-Scale Space Demonstration Experiments).

Innovative Initiatives

- Creating missions that expand the scope of space science aimed at elucidating cosmic history and the origins of life.
- Promoting technology development in the areas of transportation, exploration, and observation to realize these missions.
- Expanding to new areas of space science ("Expanded Space Science"), including space weather and planetary defense.