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(Appendix 2) Evaluation criteria and related indicators

Mid to long-term objectives	Evaluation criteria	Related evaluation/monitoring indicator
3. Implementation of space projects to	[Realization of a secure and safe	<evaluation indicator=""></evaluation>
achieve the goals in the space	society and ensuring security]	(Outcome index)
policy scheme		Outcomes of efforts for assuring security and realizing a safe and secure
3.1. Satellite positioning	o Appropriateness of planning,	society
3.2. Satellite remote sensing	investigation and management efforts	(Management index)
3.3. Satellite communications	for assuring national security and realizing a safe and secure society and	 Advance verification concerning the implementation of R&D Management concerning the implementation of R&D
3.4. Space transportation system	production of relevant outcomes	(Example: R&D progress management, installation, maintenance and
3.5. Space situational awareness	production of relevant outcomes	operation of facilities and equipment, etc.)
3.6. Maritime domain awareness, early	(Mainly in 3.1 - 3.7, 3.11, 4.2)	Coordination and collaboration with external security and disaster
· · ·		management organizations, etc.
warning capacity, etc.		
3.7. Mission assurance		<monitoring indicator=""></monitoring>
3.8. Space science and exploration		(Outcome index)
3.9. International Space Station		○R&D outcomes according to international benchmark
3.10. International manned space		(Example: Core rocket launch success rate, on-time success rate)
exploration		(Management index)
3.11. Basic technologies for		oCoordination and collaboration with external security and disaster
development and operation of		management organizations, etc. (Example: No. of agreements and joint research projects, etc.)
satellites, etc. (tracking and		• Acquisition and operation of external funds (Example: No. of commissions)
maneuvering, environmental test	Growth in space utilization and	Evaluation indicator>
technologies, etc.)	promotion of industry	(Outcome index)
	promotion of industry	Outcomes of efforts for expanding space utilization, promoting industries
4. Works in cross-disciplinary R&D	OAppropriateness of planning,	and improving the international competitiveness of the space industries
4.1. Expansion of space utilization and	investigation and management efforts	including efforts taking quality, costs and schedules in account
industrial promotion in	for expanding space utilization	(Management index)
collaboration with private sectors	including the creation of new	OAdvance verification concerning the implementation of R&D
4.2. Maintenance and reinforcement of	businesses, industrial promotion, and	OManagement concerning the implementation of R&D
space industry/ scientific bases for	improvement of the international	(Example: R&D progress management, installation, maintenance and
	competitiveness of Japan's space	operation of facilities and equipment, etc.)
creating new value (e.g., space	industry, and resulting outcomes	 Coordination and collaboration with external organizations including private business operators
debris measures, space solar power	(Mainly in 3.1 - 3.5, 3.8 - 3.11, 4)	private ousiness operators
generation)	(mainly in 5.1 - 5.5, 5.0 - 5.11, 7)	<monitoring indicator=""></monitoring>
		(Outcome index)

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	R&D outcomes according to international benchmark
	(Example: Core rocket launch success rate, on-time launch success rate)
	oProvision of opportunities for space demonstration
	(Example: Provision of opportunities for demonstration to private sectors
	and universities)
	○Social return and dissemination of R&D outcomes
	(Example: No. of applications for intellectual property right, no. of
	acquired rights, no. of licensing cases of such right, no. of
	commissioned businesses, no. of ISS utilizations, no. of
	facilities and equipment sharing cases)
	○Creation of new businesses
	(Example: No. of businesses created by private business operators relating
	to JAXA)
	Oistribution of data to outside
	(Example: No. of satellite data items distributed to domestic and overseas
	related organizations)
	(Management index)
	Coordination and collaboration with external organizations including
	private business operators
	(Example: No. of agreements and joint research products, No. of technical
	supports, No. of private business operators and universities
	which participated in JAXA's policies or institutions)
	• Acquisition and operation of external funds
	(Example: No. of businesses using private funds)
[Producing the world's highest	<evaluation indicator=""></evaluation>
results as well as maintaining and	(Outcome index)
	Outcomes of efforts for creating the world's best outcomes in space science
improving Japan's global	and exploration, and maintaining and improving Japan's international
presence in space science and	
exploration fields]	presence (Management index)
	• Advance verification concerning the implementation of R&D
oAppropriateness of planning,	Management concerning the implementation of R&D
investigation and management efforts	(Example: R&D progress management, installation, maintenance and
for conducting space science research,	
space exploration and manned space	operation of facilities and equipment, etc.) Coordination and collaboration with external organizations including
activities to contribute to creating the	universities and overseas organizations
world's highest level scientific	universities and overseas organizations
outcomes and maintaining and	/Monitoring in disectory
improving the international presence of	<monitoring indicator=""></monitoring>
Japan; resulting outcomes	(Outcome index)
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		oR&D outcomes according to international benchmark
	(Mainly in 3.8 - 3.10, 4.2)	(Example: Presentation in in prominent magazines)
		Outcomes of institutional development and operation for fostering human
		resources (Example: Career options for received students)
		(Management index)
		 Coordination and collaboration with external organizations including
		universities, overseas organizations
		(Example: No. of agreements and joint research projects)
		• Institutional development and operation for fostering human resources
		(Example: No. of students received, personnel exchanges)
		ONo. of papers (Example: No. of peer-reviewed papers. No. of highly cited
		papers)
		• Acquisition and operation of external funds
		(Example: Amount and number of acquisitions of external funds such as
		Grants-in-Aid)
5. Aeronautical science and technology	[Promoting the aviation industry and	<evaluation indicator=""></evaluation>
	enhancing our global competitiveness]	(Outcome index)
		Outcomes of efforts for promoting the aviation industry and strengthening
	○Appropriateness of planning,	international competitiveness
	investigation and management efforts	(Management index)
	for promoting the aviation industry and	OAdvance verification concerning the implementation of R&D
	strengthening the international	○Management concerning the implementation of R&D
	competitiveness of Japan; resulting	(Example: R&D progress management, installation, maintenance and
		operation of facilities and equipment, etc.)
	outcomes	oCoordination and collaboration with external organizations including
		universities and private business operators
		<monitoring indicator=""></monitoring>
		(Outcome index)
		• R&D outcomes according to international benchmark
		Social return and dissemination of R&D outcomes
		(Example: No. of applications for intellectual property right, no. of
		acquired rights, no. of licensing cases of such right, no. of
		facilities and equipment sharing cases)
		(Management index)
		oCoordination and collaboration with external organizations including
		universities and private business operators
		(Example: No. of agreements and joint research projects)
		• Acquisition and operation of external funds (Example: No. of commissions)

Evaluation criteria/indicators and monitoring indicators (draft)

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Note) The evaluation indicator is an index for evaluation. The monitoring indicator is an index required for understanding accurate facts for accurate and strict evaluation. In actual operation, an appropriate indicator needs to be selected and set according to the evaluation item.