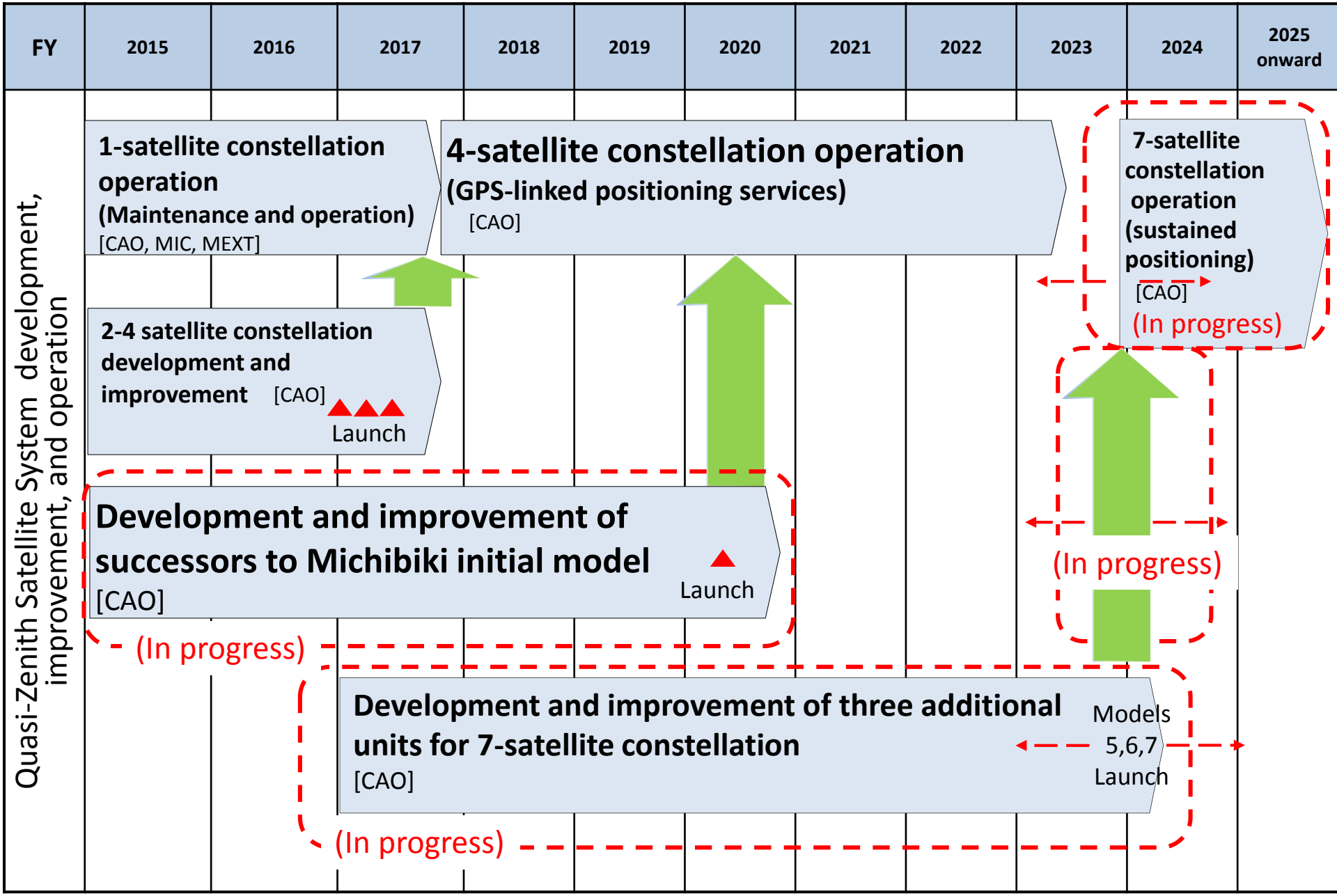
New “Basic Plan on Space Policy” Implementation Schedule (Draft)


FY
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025 onward
Quasi-Zenith Satellite System development, improvement, and operation
1-satellite constellation operation (Maintenance and operation) [CAO, MIC, MEXT]
4-satellite constellation operation (GPS-linked positioning services) [CAO]
7-satellite constellation operation (sustained positioning) [CAO]
(In progress)
2-4 satellite constellation development and improvement [CAO]
Launch
Development and improvement of successors to Michibiki initial model [CAO]
Launch
(In progress)
(In progress)
Development and improvement of three additional units for 7-satellite constellation [CAO]
Models 5,6,7 Launch
(In progress)

4. (2)①i) Satellite positioning

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Promotion of utilization of Quasi-Zenith Satellite System, etc.

Promotion of utilization of Quasi-Zenith Satellite System, etc. in Japan and abroad, particularly in the Asia-Pacific region
Support for construction of electronic control point network and reinforcement of utilization infrastructure for positioning satellites [CAO, MLIT, , etc.]

Realization of a "G-spatial society" through linkage of Quasi-Zenith Satellite and Geographic Information System (GIS) [CAO, MLIT, etc.]

Deliberation on generation of new business on a private-sector platform (From FY2014) [CAO]

(Ref.) Deliberation on operational testing
[CAO, METI, etc.]

(Ref.) Operational testing
[CAO, etc.]

★ **2020 Tokyo Olympics and Paralympics**

(Ref.) Application of results in public society
[Relevant ministries and agencies]

(Ref.) Deliberation on private-sector funding for new projects and services utilizing space, use of various supportive measures, etc.
[CAS, CAO, MIC, MEXT, MHLW, MAFF, METI, MLIT, etc.]

(Ref.) Implementation of necessary measures
[CAS, CAO, MIC, MEXT, MHLW, MAFF, METI, MLIT, etc.]

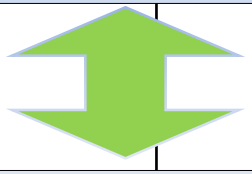
(Ref.) Survey and deliberations related to signals of positioning satellites
[CAO, MIC, MOFA, METI, MLIT]

(Ref.) Implementation of necessary measures
[CAO, MIC, MOFA, METI, MLIT]

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Application of utilization needs to various projects

Monitoring of satellite remote sensing utilization needs
Deliberation on satellite remote sensing specifications, operating procedures, potential for data utilization, etc. / Construction of mechanisms for application to various projects
[CAO, etc.]



Incorporation of results of deliberations, etc.

(Ref.) Development and operation of advanced optical satellites and advanced radar satellites [MEXT]

(Ref.) Improvement and operation of Geostationary Meteorological Satellite [MLIT]

(Ref.) Development and operation of Greenhouse Gases Observing Satellite [MEXT, MOE]

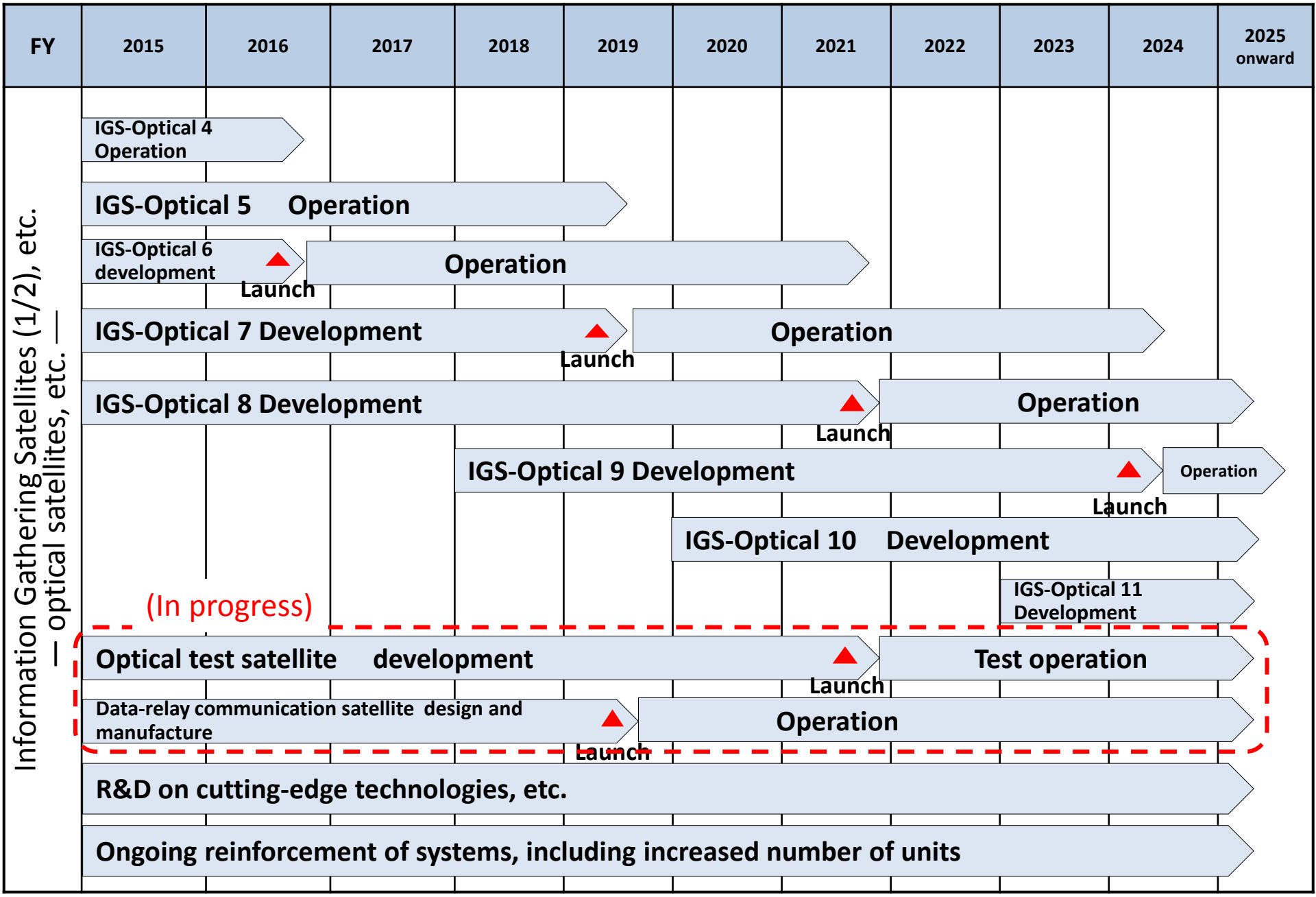
(Ref.) Deliberation on development of remote sensing satellites other than those above and advancement of sensor technologies [MIC, MOFA, MEXT, METI, MLIT, MOE]

(Ref.) Steady improvement, maintenance and update of terrestrial infrastructure underpinning satellite remote sensing [MIC, MEXT, METI, MLIT, MOE]

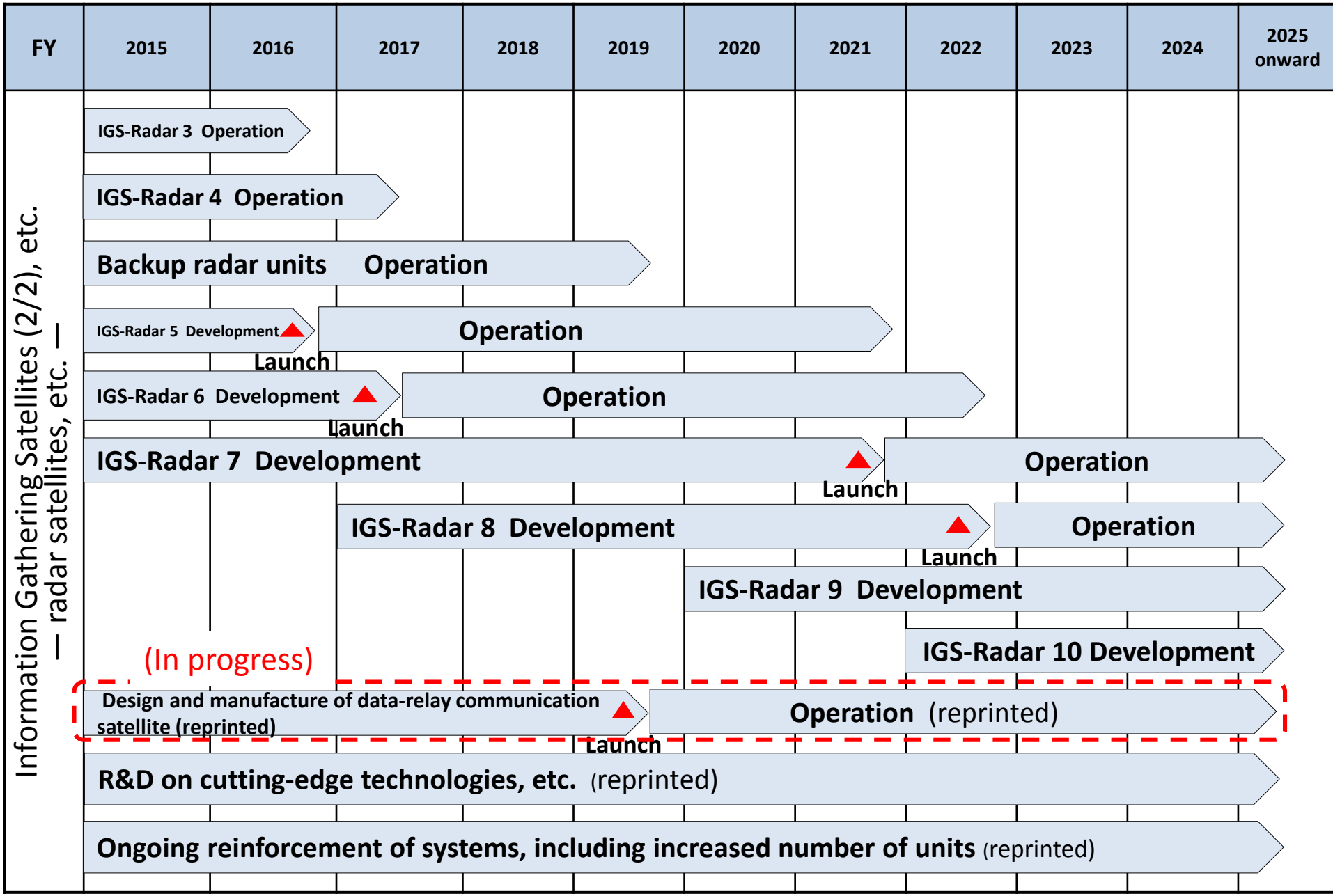
(Ref.) Promotion of joint development and joint utilization with other countries, aimed at resolving various challenges facing Japan [CAO, MOFA, MEXT, METI, MLIT, MOE, etc.]

(Ref.) Utilization of satellite remote sensing data related to national security, etc. [CAS, MOFA, MOD, etc.]

(Ref.) Utilization of satellite remote sensing data related to civil sector, etc.
[CAO, NPA, MEXT, MAFF, METI, MLIT, etc.]

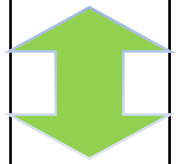


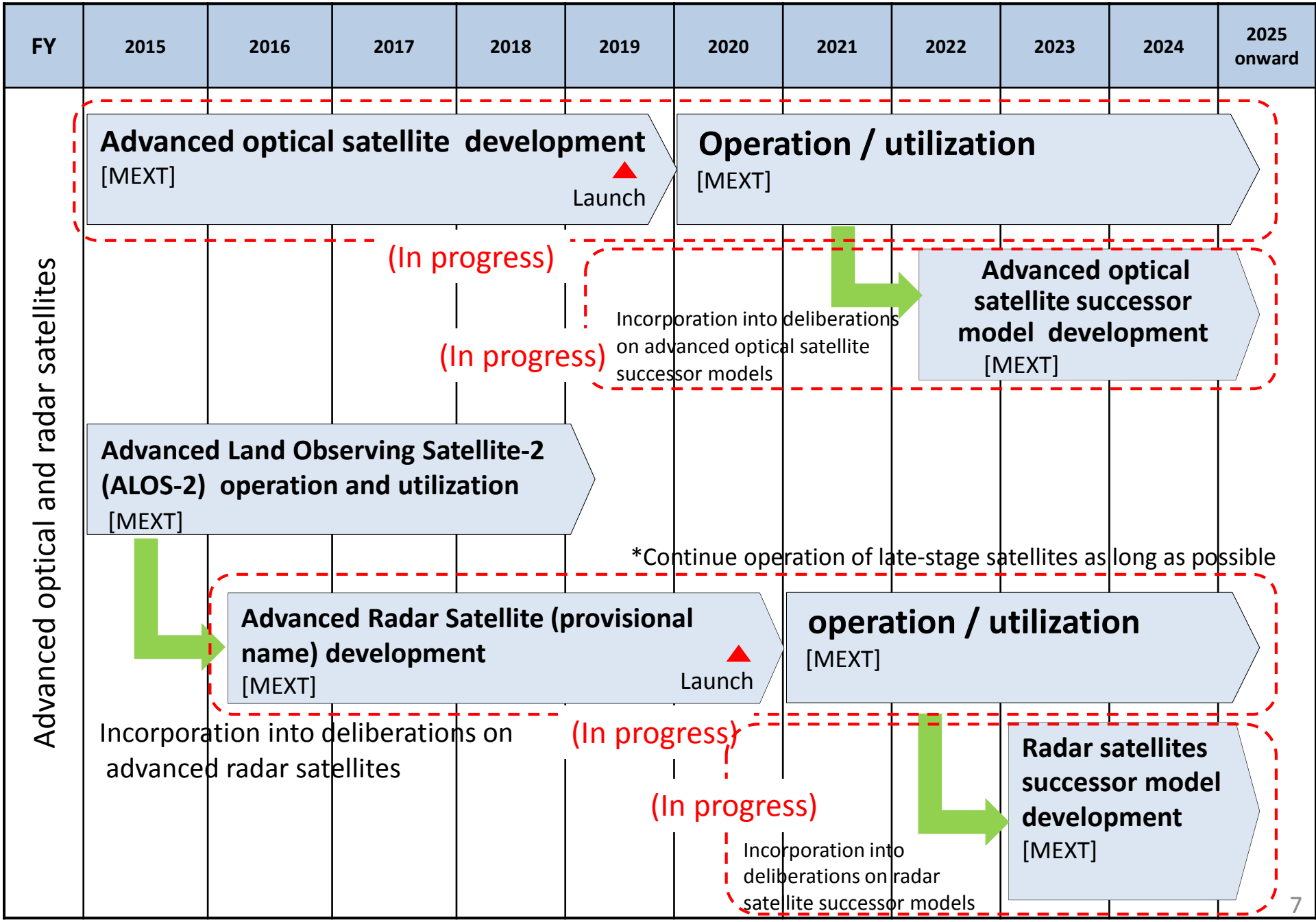
*All of the above: CAS



*All of the above: CAS

4. (2)①ii) Satellite remote sensing

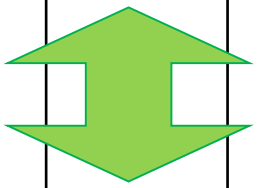
FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Small-size Operationally Responsive Satellites, etc.	**Research studies on operational needs and vision for operation of small-size Operationally Responsive Satellites, etc.** **Deliberation on potential for coordination of small-size Operationally Responsive Satellites and Information Gathering Satellites** [CAS, CAO, MEXT, MOD, etc.]										
					 Coordination						
	(Ref.) **Deliberation on launch systems for small-size Operationally Responsive Satellites, etc.** [CAS, CAO, MEXT, MOD, etc.]										


FY
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025 onward
Advanced optical and radar satellites
Advanced optical satellite development
[MEXT]
Launch
Operation / utilization
[MEXT]
(In progress)
(In progress)
Incorporation into deliberations on advanced optical satellite successor models
Advanced optical satellite successor model development
[MEXT]
Advanced Land Observing Satellite-2 (ALOS-2) operation and utilization
[MEXT]
*Continue operation of late-stage satellites as long as possible
Advanced Radar Satellite (provisional name) development
[MEXT]
Launch
operation / utilization
[MEXT]
Incorporation into deliberations on advanced radar satellites
(In progress)
(In progress)
Incorporation into deliberations on radar satellite successor models
Radar satellites successor model development
[MEXT]

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Deliberation on improvement, etc. of systems required for Earth Observation Satellite program

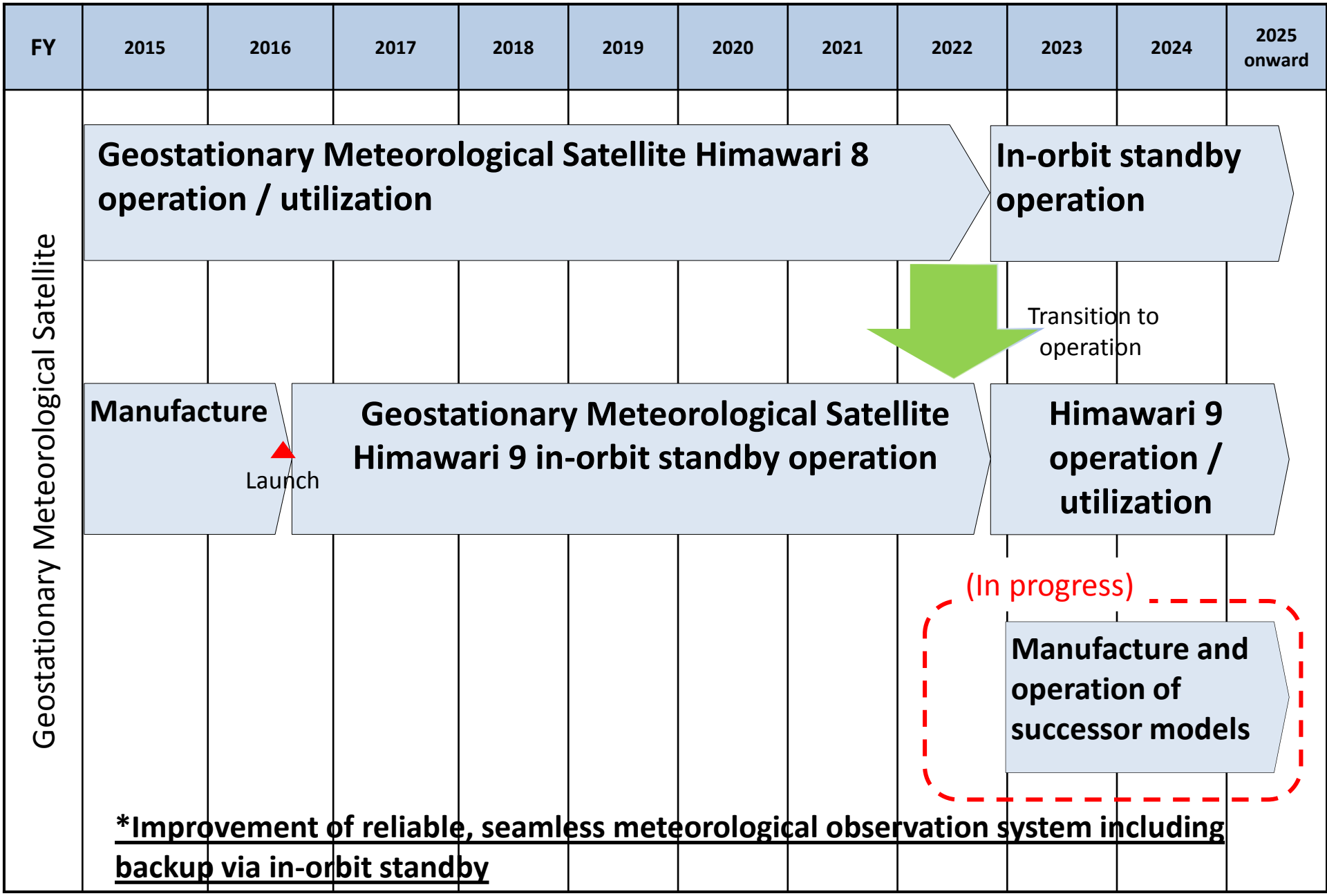
Deliberation on improvement, etc. of systems required for Earth Observation Satellite program led primarily by private-sector enterprises
(Coordinated with improvements to satellite remote sensing-related laws, etc.)
[CAO]



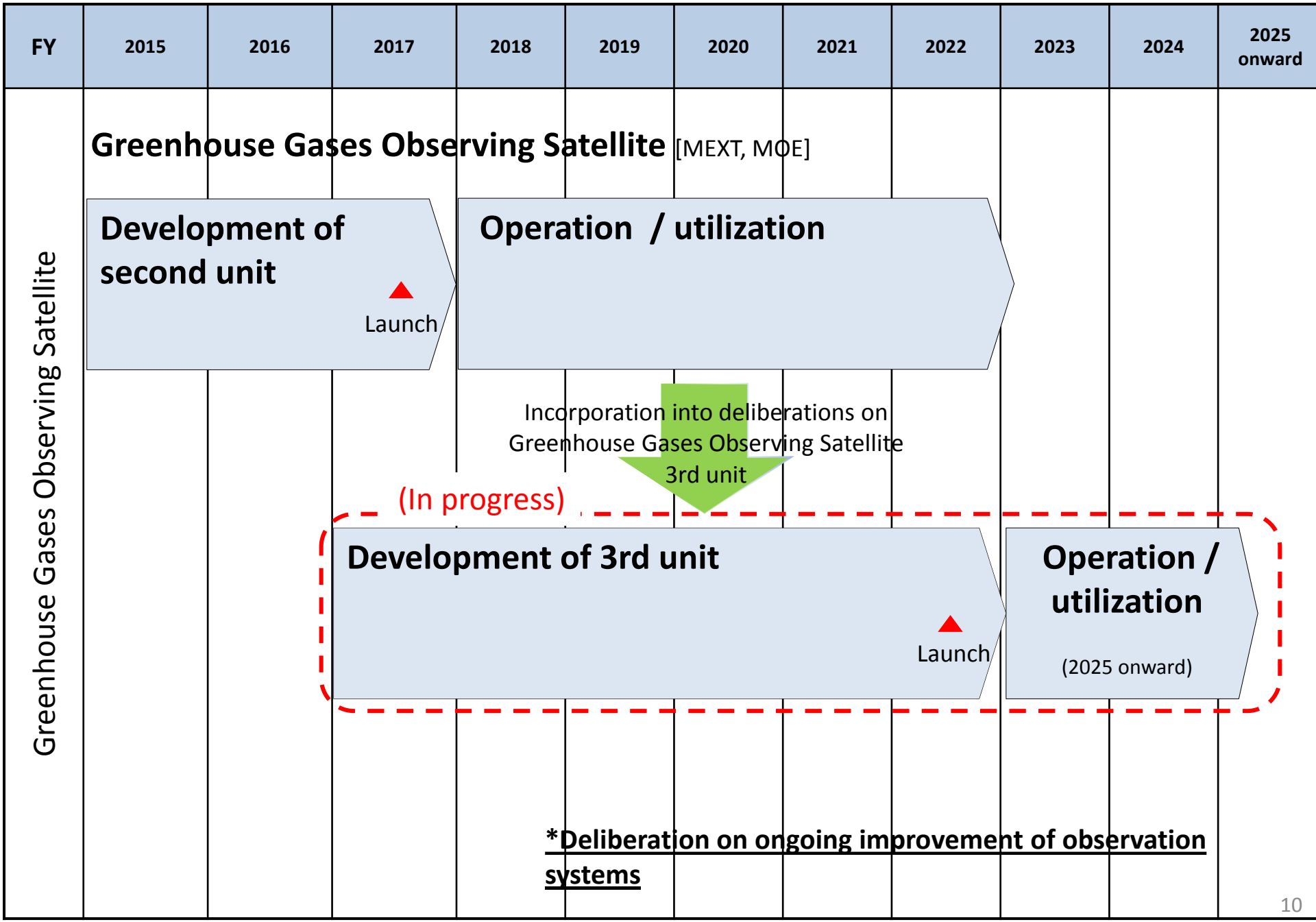
Deliberation on bill related to satellite remote sensing
[CAO, MOFA, MEXT, METI]

▲ Submission to Diet

Application of systems, etc.
(with passage by Diet as prerequisite)



*All of the above: MLIT


FY
2015
2016
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2018
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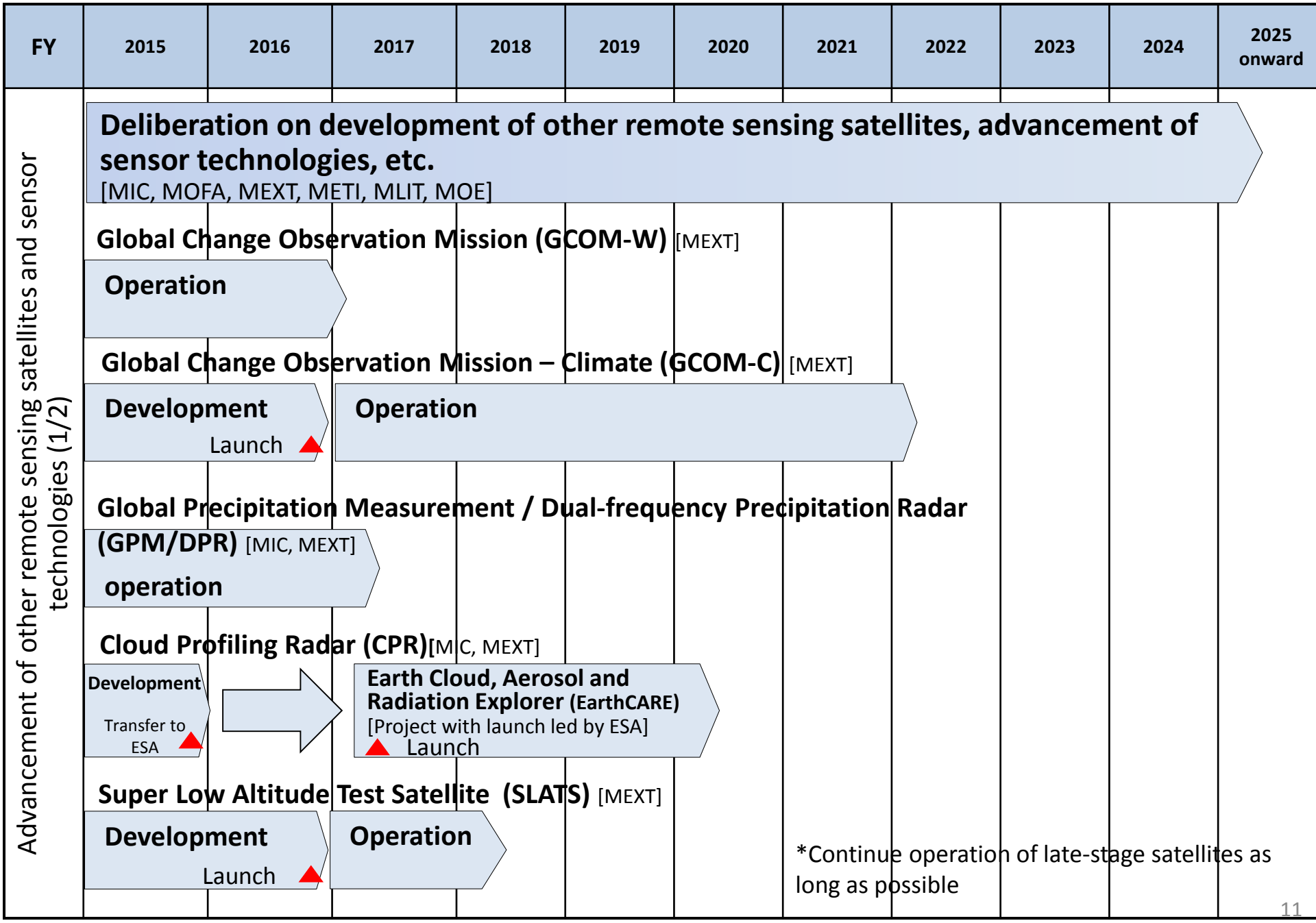
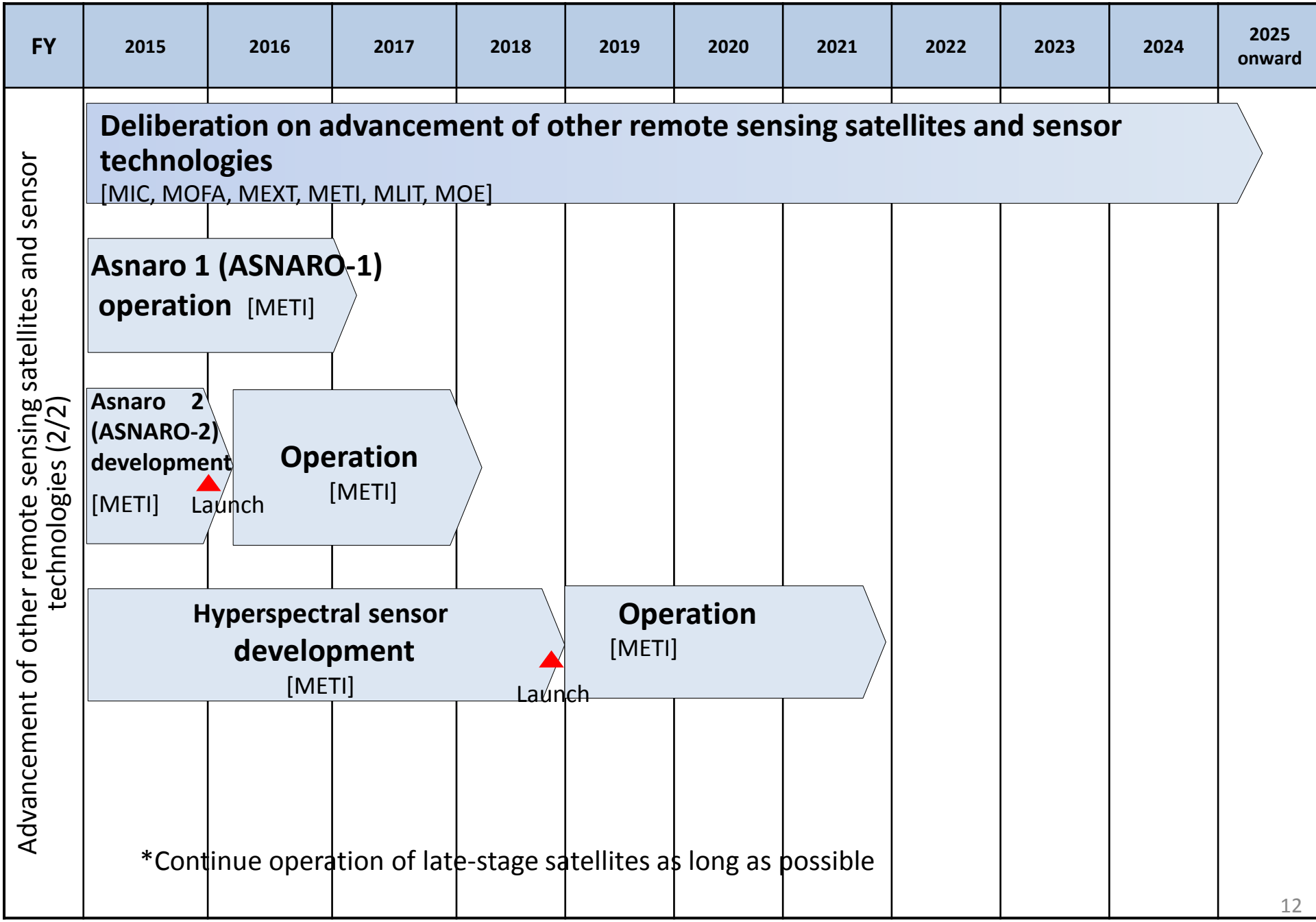
2020
2021
2022
2023
2024
2025 onward
Greenhouse Gases Observing Satellite
Greenhouse Gases Observing Satellite [MEXT, MOE]
Development of second unit
Launch
Operation / utilization
Incorporation into deliberations on Greenhouse Gases Observing Satellite 3rd unit
(In progress)
Development of 3rd unit
Launch
Operation / utilization
(2025 onward)
*Deliberation on ongoing improvement of observation systems


FY
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025 onward
Advancement of other remote sensing satellites and sensor technologies (1/2)
Deliberation on development of other remote sensing satellites, advancement of sensor technologies, etc.
[MIC, MOFA, MEXT, METI, MLIT, MOE]
Global Change Observation Mission (GCOM-W) [MEXT]
Operation
Global Change Observation Mission – Climate (GCOM-C) [MEXT]
Development
Launch
Operation
Global Precipitation Measurement / Dual-frequency Precipitation Radar (GPM/DPR) [MIC, MEXT]
operation
Cloud Profiling Radar (CPR)[MIC, MEXT]
Development
Transfer to ESA
Earth Cloud, Aerosol and Radiation Explorer (EarthCARE)
[Project with launch led by ESA]
Launch
Super Low Altitude Test Satellite (SLATS) [MEXT]
Development
Launch
Operation
*Continue operation of late-stage satellites as long as possible


FY
2015
2016
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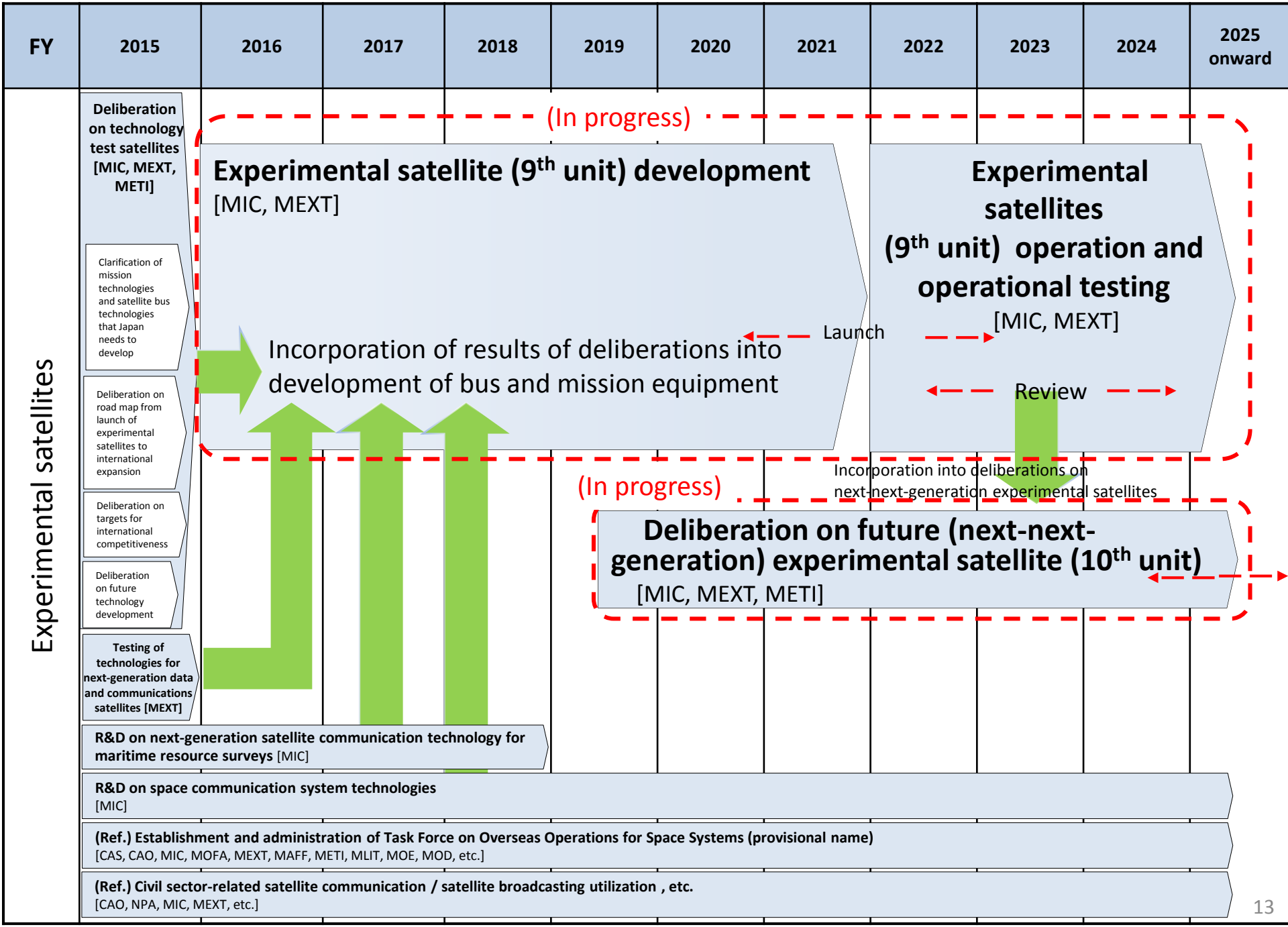
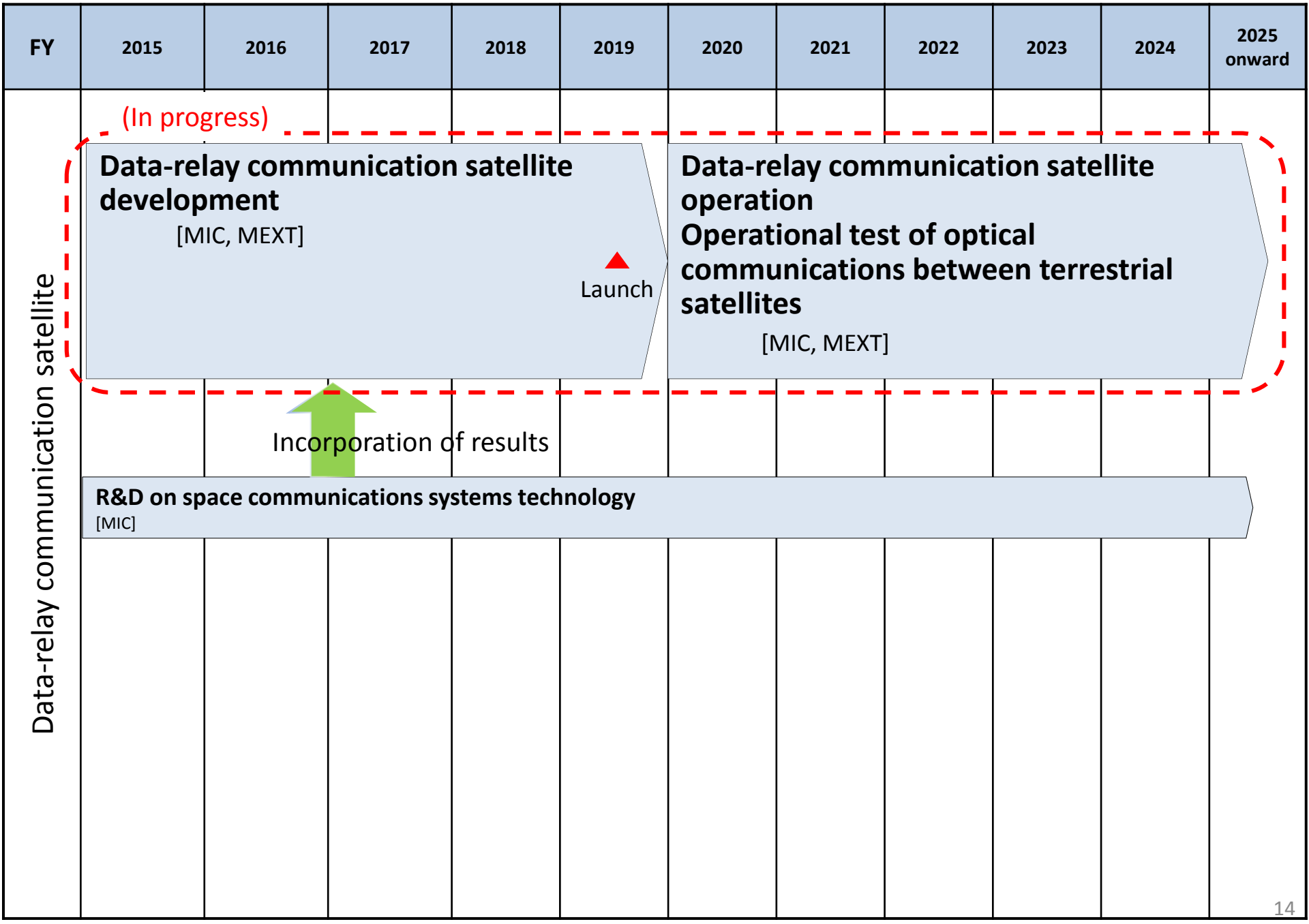
2019
2020
2021
2022
2023
2024
2025 onward
Advancement of other remote sensing satellites and sensor technologies (2/2)
Deliberation on advancement of other remote sensing satellites and sensor technologies
[MIC, MOFA, MEXT, METI, MLIT, MOE]
Asnaro 1 (ASNARO-1) operation [METI]
Asnaro 2 (ASNARO-2) development
[METI]
Launch
Operation
[METI]
Hyperspectral sensor development
[METI]
Launch
Operation
[METI]
*Continue operation of late-stage satellites as long as possible


FY
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025 onward
Experimental satellites
Deliberation on technology test satellites [MIC, MEXT, METI]
Clarification of mission technologies and satellite bus technologies that Japan needs to develop
Deliberation on road map from launch of experimental satellites to international expansion
Deliberation on targets for international competitiveness
Deliberation on future technology development
(In progress)
Experimental satellite (9th unit) development
[MIC, MEXT]
Incorporation of results of deliberations into development of bus and mission equipment
Launch
Experimental satellites (9th unit) operation and operational testing
[MIC, MEXT]
Review
Incorporation into deliberations on next-next-generation experimental satellites
(In progress)
Deliberation on future (next-next-generation) experimental satellite (10th unit)
[MIC, MEXT, METI]
Testing of technologies for next-generation data and communications satellites [MEXT]
R&D on next-generation satellite communication technology for maritime resource surveys [MIC]
R&D on space communication system technologies
[MIC]
(Ref.) Establishment and administration of Task Force on Overseas Operations for Space Systems (provisional name)
[CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]
(Ref.) Civil sector-related satellite communication / satellite broadcasting utilization , etc.
[CAO, NPA, MIC, MEXT, etc.]


FY
2015
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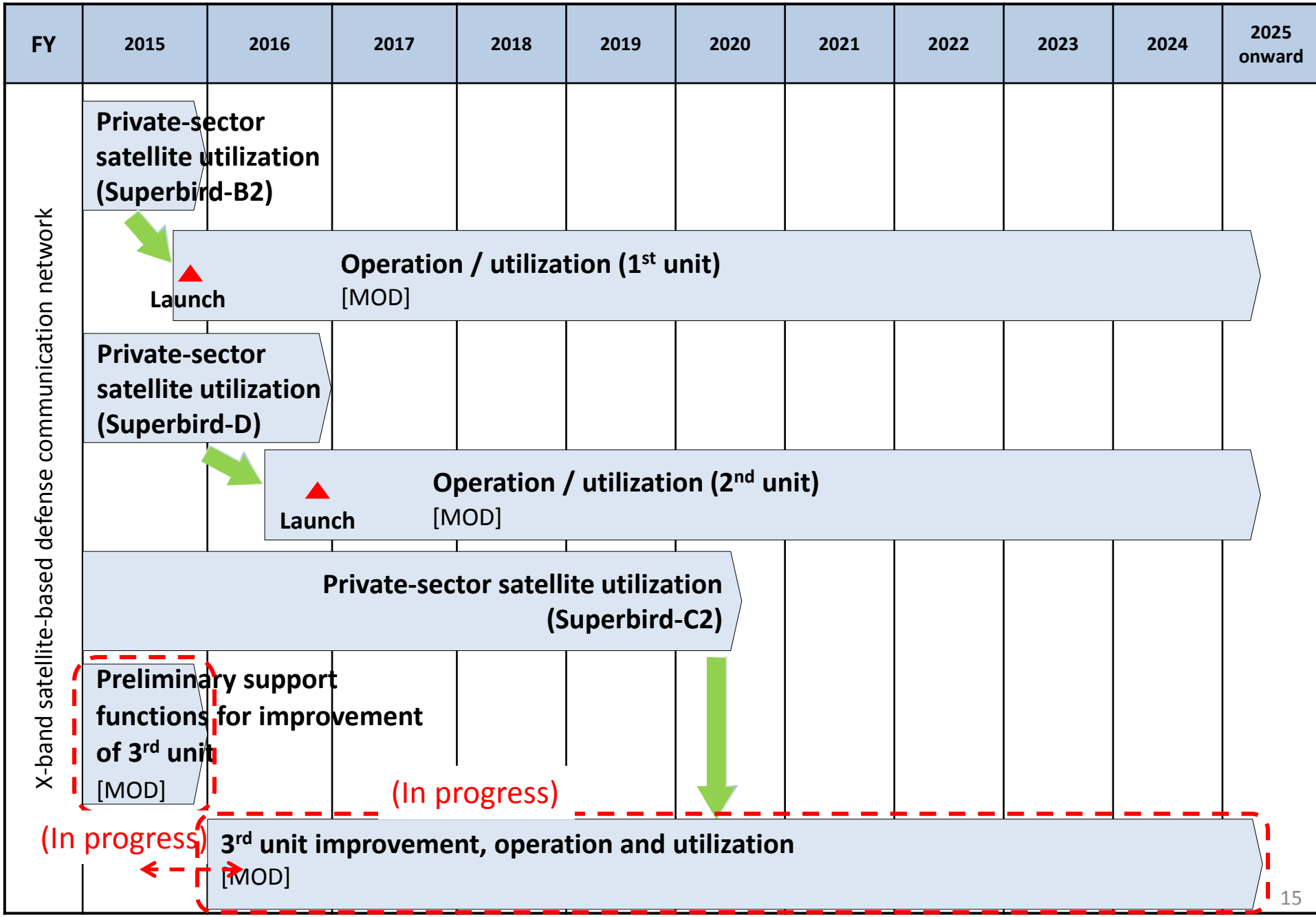
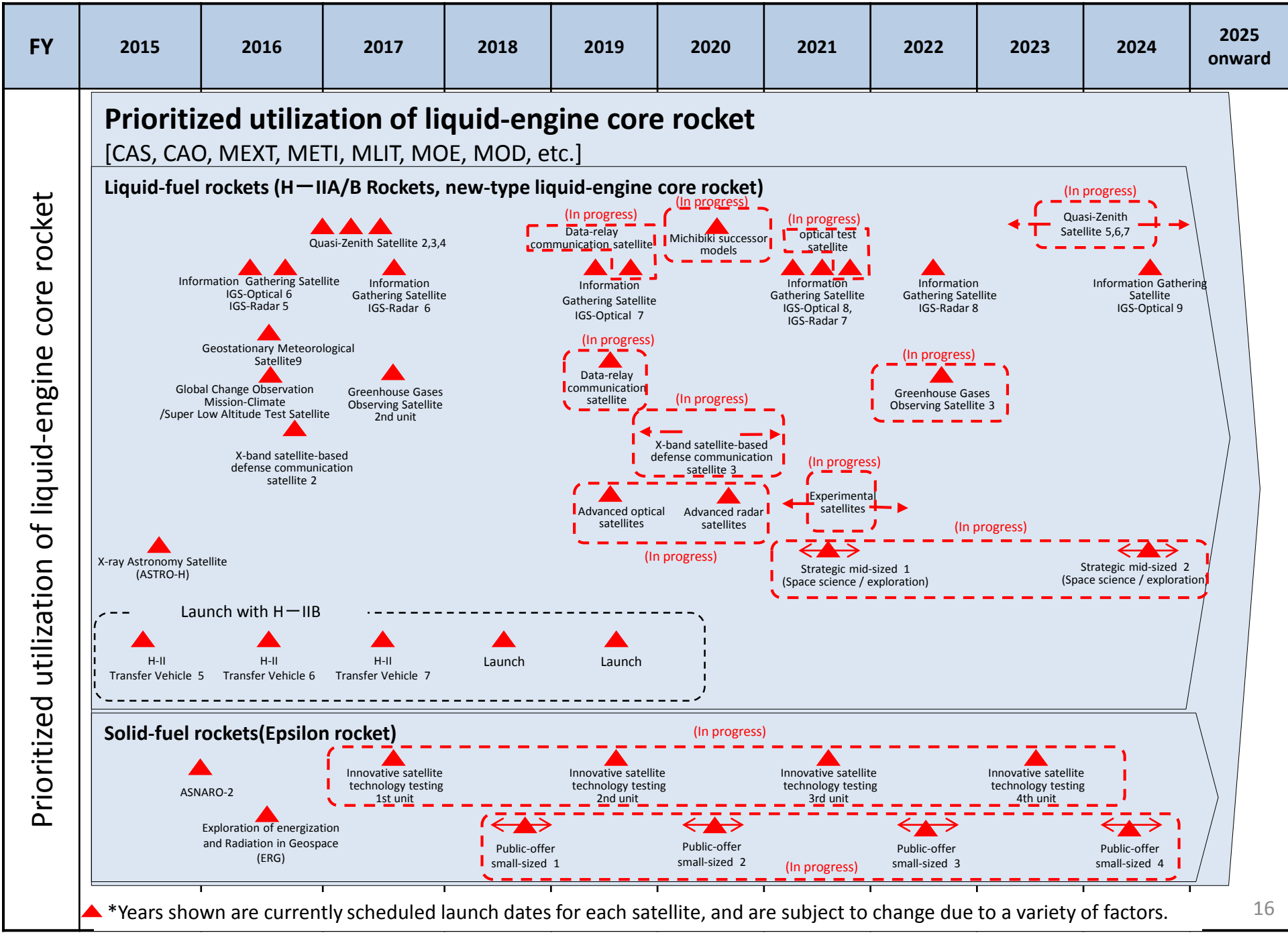
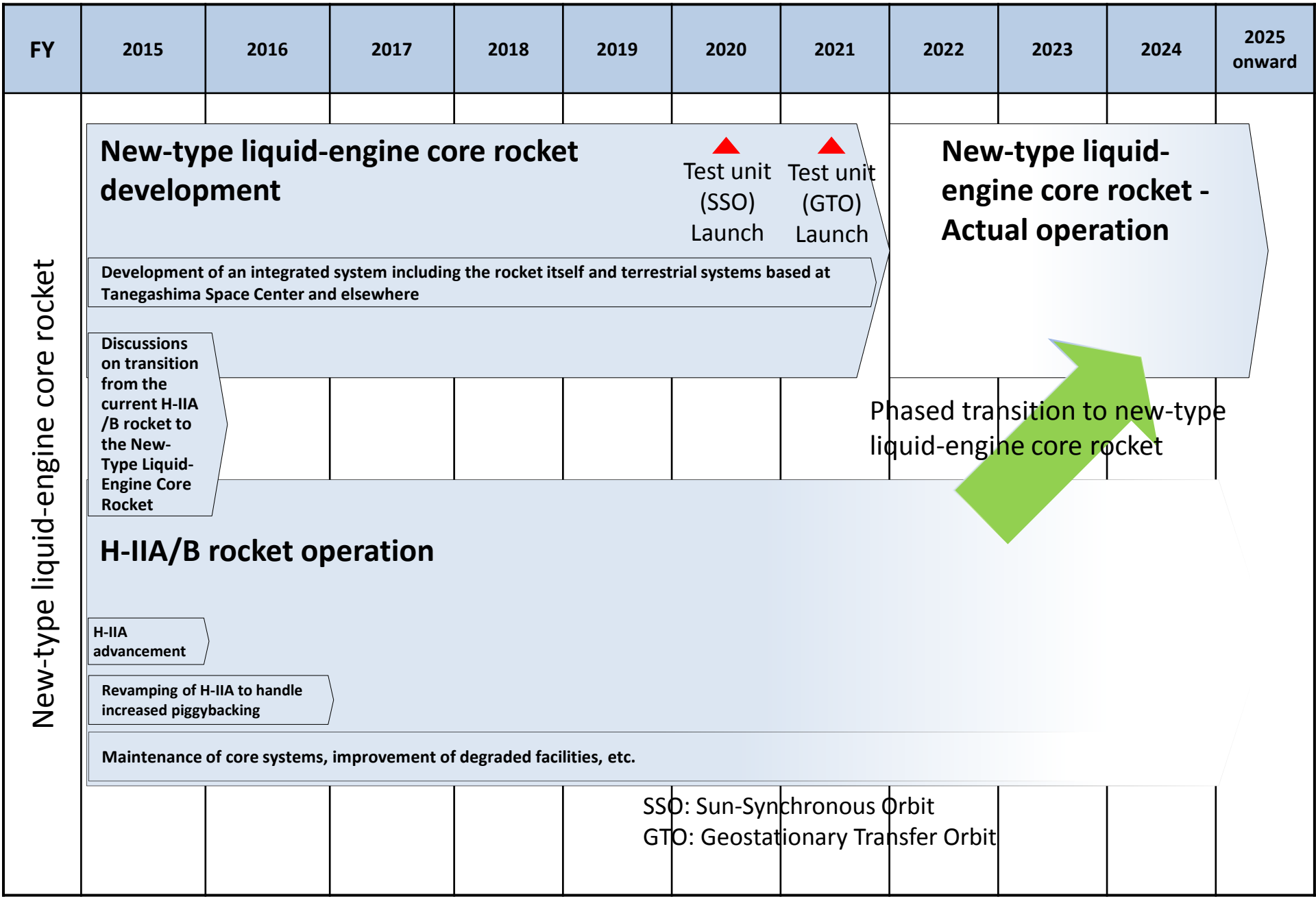
2021
2022
2023
2024
2025 onward
Data-relay communication satellite
(In progress)
Data-relay communication satellite development
[MIC, MEXT]
Launch
Data-relay communication satellite operation
Operational test of optical communications between terrestrial satellites
[MIC, MEXT]
Incorporation of results
R&D on space communications systems technology
[MIC]

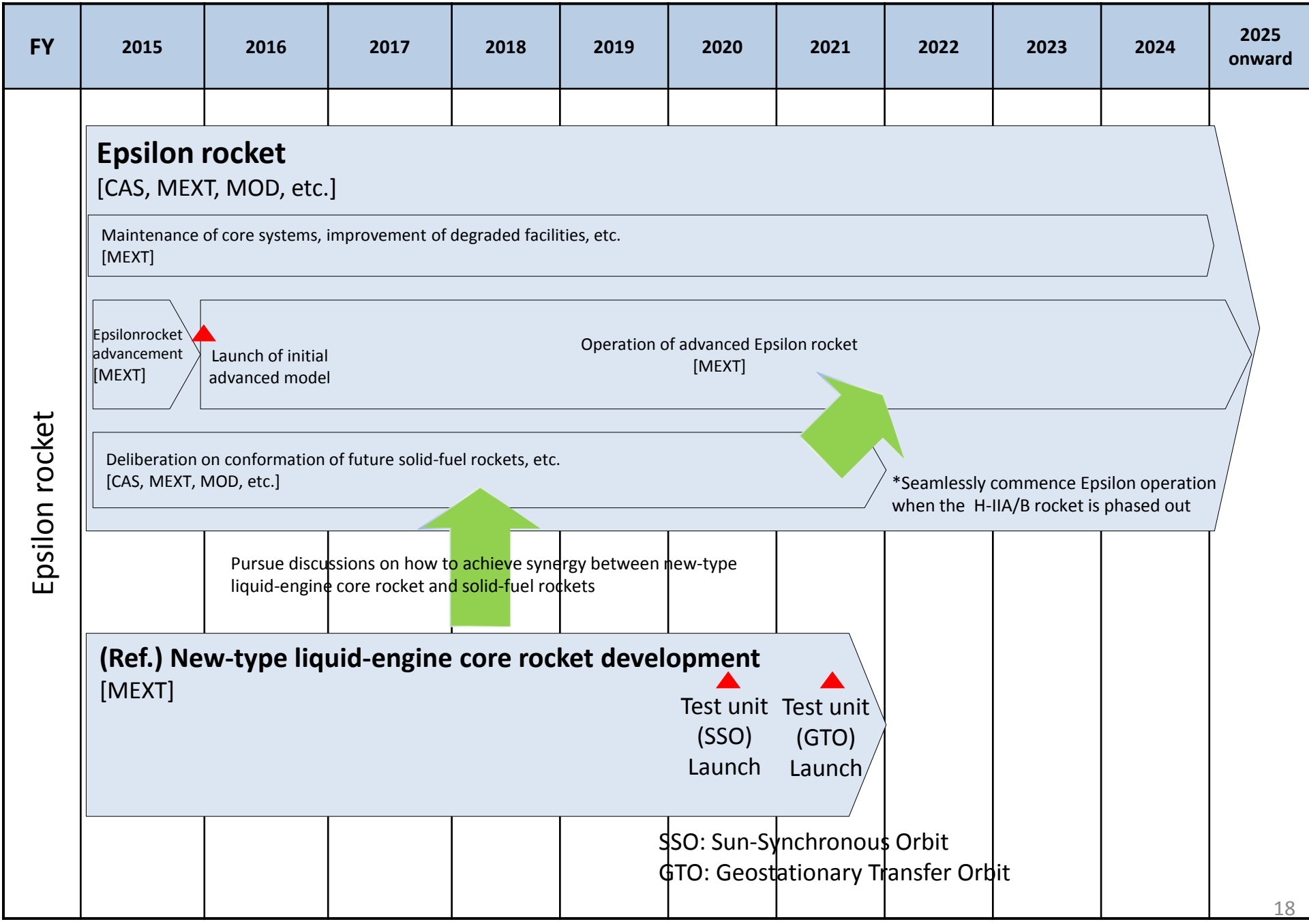
4. (2)①iii) Satellite communication / Satellite broadcasting




FY
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025 onward
Prioritized utilization of liquid-engine core rocket
Prioritized utilization of liquid-engine core rocket
[CAS, CAO, MEXT, METI, MLIT, MOE, MOD, etc.]
Liquid-fuel rockets (H－IIA/B Rockets, new-type liquid-engine core rocket)
Quasi-Zenith Satellite 2,3,4
Information Gathering Satellite IGS-Optical 6 IGS-Radar 5
Information Gathering Satellite IGS-Radar 6
Geostationary Meteorological Satellite9
Global Change Observation Mission-Climate /Super Low Altitude Test Satellite
Greenhouse Gases Observing Satellite 2nd unit
X-band satellite-based defense communication satellite 2
X-ray Astronomy Satellite (ASTRO-H)
(In progress)
Data-relay communication satellite
Information Gathering Satellite IGS-Optical 7
(In progress)
Michibiki successor models
(In progress)
optical test satellite
Information Gathering Satellite IGS-Optical 8, IGS-Radar 7
Information Gathering Satellite IGS-Radar 8
(In progress)
Quasi-Zenith Satellite 5,6,7
Information Gathering Satellite IGS-Optical 9
(In progress)
Data-relay communication satellite
(In progress)
Greenhouse Gases Observing Satellite 3
(In progress)
X-band satellite-based defense communication satellite 3
(In progress)
Experimental satellites
Advanced optical satellites
Advanced radar satellites
(In progress)
(In progress)
Strategic mid-sized 1 (Space science / exploration)
Strategic mid-sized 2 (Space science / exploration)
Launch with H－IIB
H-II Transfer Vehicle 5
H-II Transfer Vehicle 6
H-II Transfer Vehicle 7
Launch
Launch
Solid-fuel rockets(Epsilon rocket)
ASNARO-2
Exploration of energization and Radiation in Geospace (ERG)
(In progress)
Innovative satellite technology testing 1st unit
Innovative satellite technology testing 2nd unit
Innovative satellite technology testing 3rd unit
Innovative satellite technology testing 4th unit
Public-offer small-sized 1
Public-offer small-sized 2
(In progress)
Public-offer small-sized 3
Public-offer small-sized 4
*Years shown are currently scheduled launch dates for each satellite, and are subject to change due to a variety of factors.



*All of the above: MEXT


FY
2015
2016
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2018
2019
2020
2021
2022
2023
2024
2025 onward
Epsilon rocket
Epsilon rocket
[CAS, MEXT, MOD, etc.]
Maintenance of core systems, improvement of degraded facilities, etc.
[MEXT]
Epsilonrocket advancement
[MEXT]
Launch of initial advanced model
Operation of advanced Epsilon rocket
[MEXT]
Deliberation on conformation of future solid-fuel rockets, etc.
[CAS, MEXT, MOD, etc.]
*Seamlessly commence Epsilon operation when the H-IIA/B rocket is phased out
Pursue discussions on how to achieve synergy between new-type liquid-engine core rocket and solid-fuel rockets
(Ref.) New-type liquid-engine core rocket development
[MEXT]
Test unit (SSO) Launch
Test unit (GTO) Launch
SSO: Sun-Synchronous Orbit
GTO: Geostationary Transfer Orbit

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Deliberation on launch sites, etc.	**Deliberation on launch sites, etc.** [CAS, CAO, MEXT, MOD, etc.]										

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Launch systems for small-size Operationally Responsive Satellites, etc.

Deliberation on launch systems for small-size Operationally Responsive Satellites, etc.
[CAS, CAO, MEXT, MOD, etc.]

Coordination

(Ref.)
Research studies on operational needs and vision for small-size Operationally Responsive Satellites, etc.
[CAS, CAO, MEXT, MOD, etc.]

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

SSA: Space Situational Awareness

SSA: Space Situational Awareness

Discussions on reinforcement of coordination between Japan and US strategic forces (data collection and adjustments contributing to the construction of operational framework)
[CAO, MOFA, MEXT, MOD, etc.]

Construct SSA-related facilities and an operational framework integrated with MOD, JAXA and other Japanese governmental institutions
[CAO, MOFA, MEXT, MOD, etc.]

Research studies on concretizing the capabilities of space-based observation systems
[CAO, MEXT, MOD]

4. (2)①vi) MDA: Maritime Domain Awareness

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
MDA: Maritime Domain Awareness	**Comprehensive deliberations on MDA (Maritime Domain Awareness) through test utilization of various satellites, etc.** [CAS, CAO, MOFA, MLIT, MOD, etc.]										
			Incorporation into related plans [CAS, CAO, MOFA, MLIT, MOD, etc.]								

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Early-warning functions, etc.

Deliberation on the viability of early-warning satellites, etc.
[CAS, CAO, MOD]

(In progress)

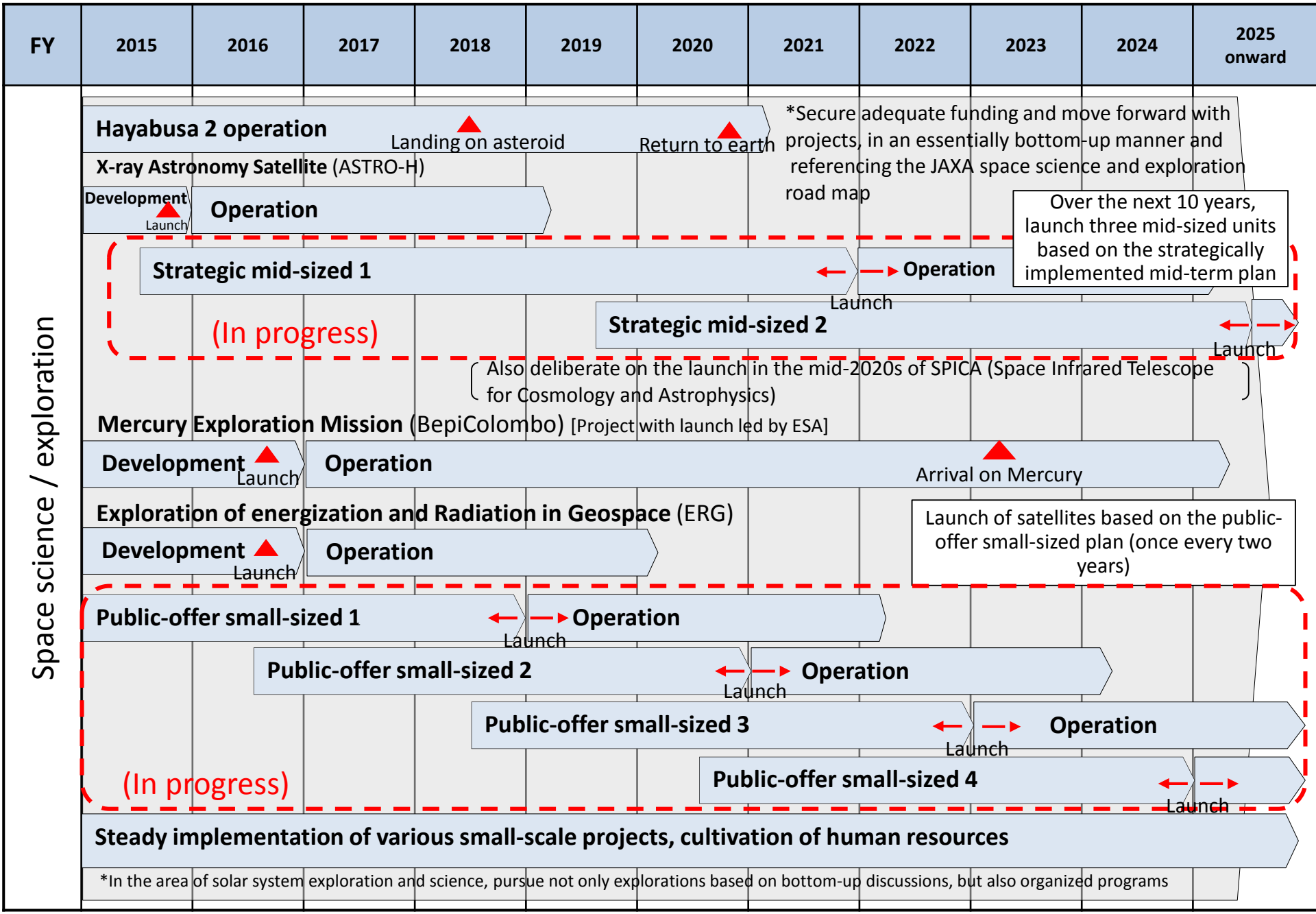
Research and testing of dual-wavelength infrared sensors in outer space
[MOD]

Piggybacking on advanced optical satellites

4. (2)①viii) Improving the overall resiliency of space systems

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Improving the overall resiliency of space systems	**Deliberation on measures to maintain and reinforce the overall resiliency of space systems** [CAS, CAO, MOD, etc.]										
		Implementation of measures based on the outcomes of deliberations [CAS, CAO, MOD, etc.]									

4. (2)①ix) Space science / exploration and manned space missions



*All of the above: MEXT

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Manned space activities including the International Space Station (ISS)

Japanese Experiment Module "KIBO" operation and utilization
[MEXT]

Handling of shared operating costs of International Space Station (ISS)
- **H-II Transfer Vehicle "Kounotori" operation**
- **Technologies expected to have strong positive repercussions in the future**

[MEXT]

▲ Launch (HTV 5) ▲ Launch (HTV 6) ▲ Launch (HTV 7) ▲ Launch ▲ Launch

*HTV: H-II Transfer Vehicle "Kounotori"

Implement initiatives, based on conclusion reached by end of 2016, on whether or not to participate in ISS mission extension from 2016 through 2024 and what if any form participation will take.
[MEXT]

4. (2)①ix) Space science / exploration and manned space missions

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
International manned space missions	**Deliberation on international manned space exploration policy and nature of participation** [MEXT]										

2nd ISEF (International Space Exploration Forum)

4. (2)②i) Comprehensive initiatives aimed at encouraging new entrants to the field and expanding space utilization

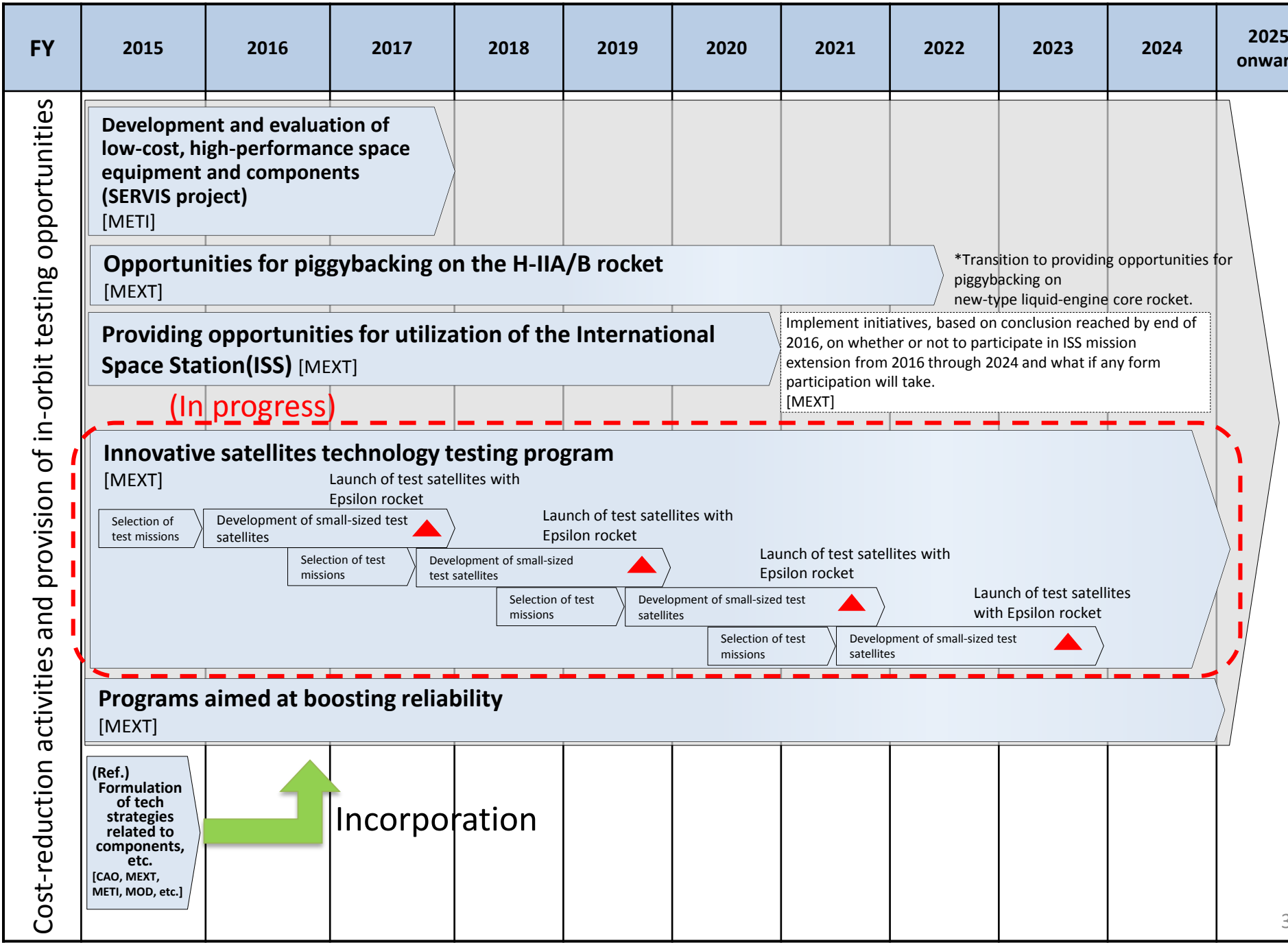
FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Systemic frameworks for encouragement of new private-sector participants	**Establishment/improvement of systemic frameworks for encouragement of new private-sector participants** [CAO, MEXT, METI, etc.]										
	(Ref.) Deliberation on space operations bill [CAO, MOFA, MEXT, METI] ▲ Submission to Diet	**(Ref.) Implementation of programs, etc.** (with passage of laws by Diet as prerequisite)									
	(Ref.) Deliberation on remote sensing-related bill [CAO, MOFA,MEXT, METI] ▲ Submission to Diet										

4. (2)②i) Comprehensive initiatives aimed at encouraging new entrants to the field and expanding space utilization

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Utilization of private-sector financing and various support measures, etc. to create new space-related businesses and services	**Deliberations on utilization of private-sector financing and various support measures, etc. to create new space-related businesses and services, including those that generate value by applying information and communications technology to "big data" acquired and accumulated through utilization of space-based systems, such as satellite remote sensing data and positioning data** [CAS, CAO, MIC, MEXT, MHLW, MAFF, METI, MLIT, , etc.]		**Implementation of necessary measures** [CAS, CAO, MIC, MEXT, MHLW, MAFF, METI, MLIT, , etc.]								

4. (2)②ii) Organization of environment geared toward stable supply of core components, etc. for space systems

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Formulation of tech strategies related to components, etc.	**Formulation of tech strategies related to components, etc.** [CAO, MEXT, METI, MOD, etc.]	**Implementation of necessary measures based on technology strategy** **Incorporation into related plans** [CAO, MEXT, METI, MOD, etc.]									


FY
2015
2016
2017
2018
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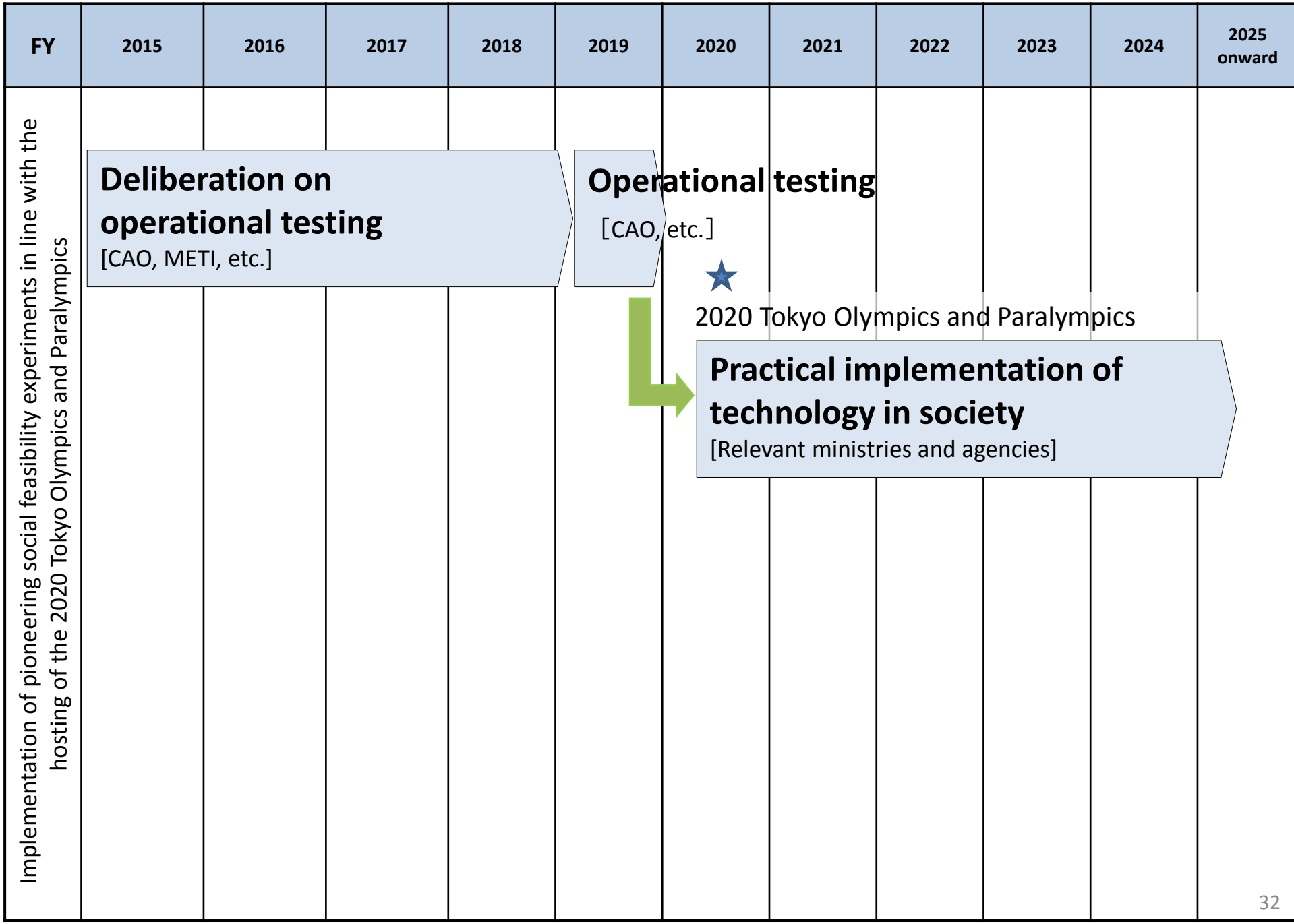
2020
2021
2022
2023
2024
2025 onward
Cost-reduction activities and provision of in-orbit testing opportunities
Development and evaluation of low-cost, high-performance space equipment and components (SERVIS project)
[METI]
Opportunities for piggybacking on the H-IIA/B rocket
[MEXT]
*Transition to providing opportunities for piggybacking on new-type liquid-engine core rocket.
Providing opportunities for utilization of the International Space Station(ISS) [MEXT]
Implement initiatives, based on conclusion reached by end of 2016, on whether or not to participate in ISS mission extension from 2016 through 2024 and what if any form participation will take.
[MEXT]
(In progress)
Innovative satellites technology testing program
[MEXT]
Launch of test satellites with Epsilon rocket
Selection of test missions
Development of small-sized test satellites
Launch of test satellites with Epsilon rocket
Selection of test missions
Development of small-sized test satellites
Launch of test satellites with Epsilon rocket
Selection of test missions
Development of small-sized test satellites
Launch of test satellites with Epsilon rocket
Selection of test missions
Development of small-sized test satellites
Programs aimed at boosting reliability
[MEXT]
(Ref.) Formulation of tech strategies related to components, etc.
[CAO, MEXT, METI, MOD, etc.]
Incorporation

4. (2)②iii) Initiatives to expand utilization of space in the future



4. (2)②iii) Initiatives to expand utilization of space in the future

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
LNG propulsion system-related technology	**R&D on LNG (Liquefied Natural Gas) propulsion systems (including operational testing)** [MEXT]										

LNG: Liquefied Natural Gas

4. (2)②iii) Initiatives to expand utilization of space in the future

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Reusable space transportation systems	**R&D on reusable space transportation systems** [MEXT]										
	(Ref.) April 3, 2014: Committee on National Space Policy, “Long-Term Vision on Space Transportation Systems”										

4. (2)②iii) Initiatives to expand utilization of space in the future

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Initiatives aimed at creating a vital future society and increasing the prosperity of Japan's citizens via the latent potential of space , etc.	**Initiatives aimed at creating a vital future society and increasing the prosperity of Japan's citizens via the latent potential of space** [MEXT, METI, MOE, etc.] **R&D on space-based solar power system technology** [MEXT, METI] **Promotion of international joint research on Asian migratory birds, etc.** [MOE]										
	Research studies on measures to address the effects on Japan's satellites of changes in the outer space environment such as solar activity [MIC, MEXT, etc.]										

4. (2)③i) Comprehensive reinforcement of space policy implementation frameworks

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Implementation of measures by government of Japan based on the Basic Plan on Space Policy in a unified manner	**Implementation of measures based on the Basic Plan on Space Policy, under the jurisdiction of the Strategic Headquarters for Space Development.** [CAO] ・Relevant ministries and agencies secure the necessary budget and personnel for implementation of the Basic Plan on Space Policy, and promote private-sector activities. ・Revisions and reorganization of administrative institutions, etc. carried out when required for implementation of the Basic Plan on Space Policy.										

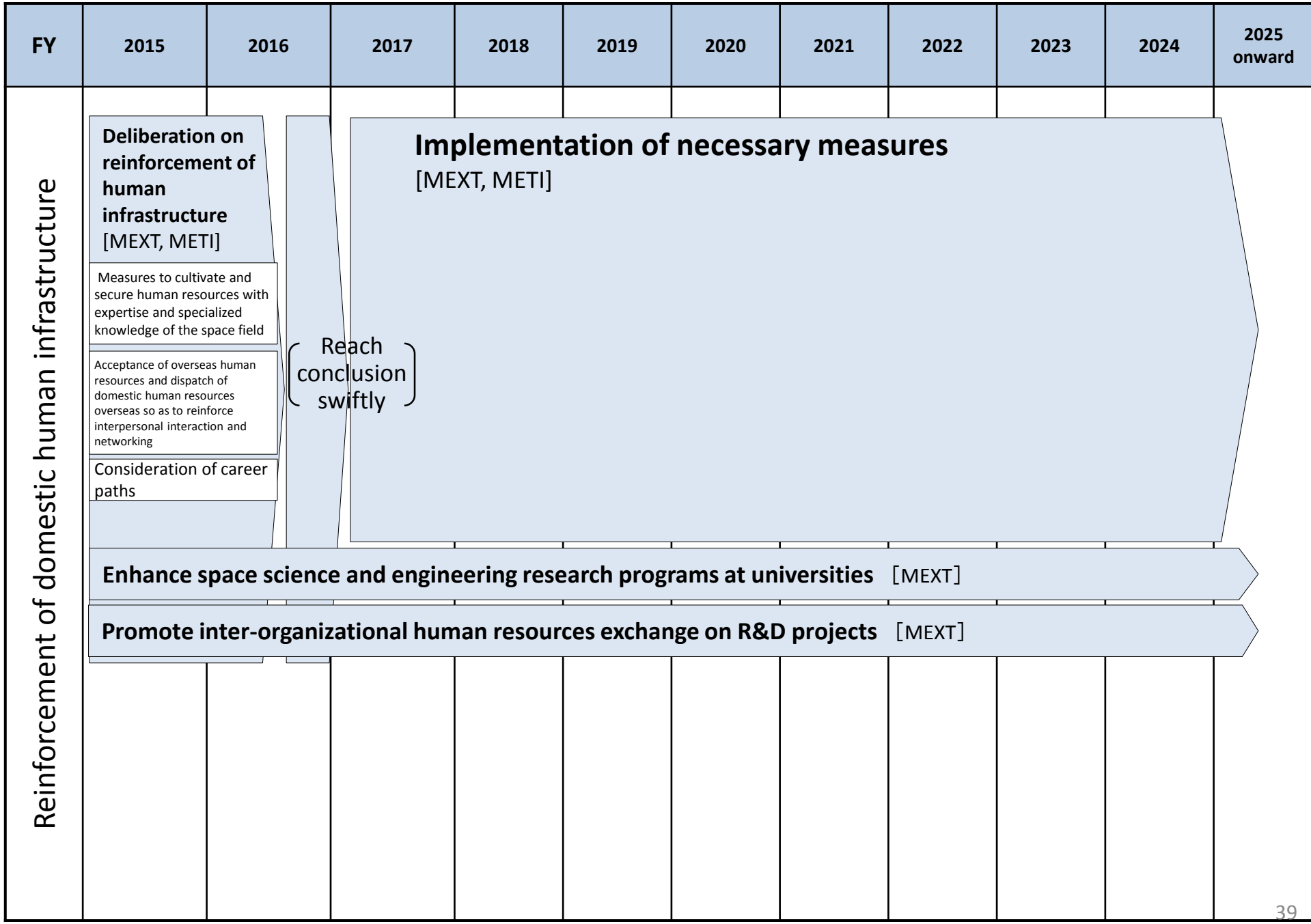
4. (2)③i) Comprehensive reinforcement of space policy implementation frameworks

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Reinforcement of partnership between the MOD and JAXA	**Reinforcement of partnership between the MOD and JAXA** [MEXT, MOD]										

4. (2)③II) Reinforcement of survey, analysis, and strategic planning functions

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Reinforcement of survey, analysis, and strategic planning functions	**Deliberation on how to consolidate the experiences and insights relevant organizations have accumulated, and mechanisms for sharing these throughout the entire government of Japan** [CAO, MOFA]	**Implement necessary measures** [CAO, MOFA]									

4. (2)③iii) Comprehensive reinforcement of domestic human infrastructure, furtherance of public understanding



4. (2)③iii) Comprehensive reinforcement of domestic human infrastructure, furtherance of public understanding

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Furtherance of public understanding	**Initiatives to raise public interest in space and contribute to expansion of the next generation of human resources** ［MEXT］ （Promotion of various initiatives building on the value of outer space activities by Japanese astronauts, etc.）										

4. (2)③iv) Amendment of legal frameworks etc.

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Legal framework for space operations	**Deliberation on space operations bill** [CAO, MOFA,MEXT, METI] ▲ Submission to Diet	**Application of systems, etc.** (with passage by Diet as prerequisite)									

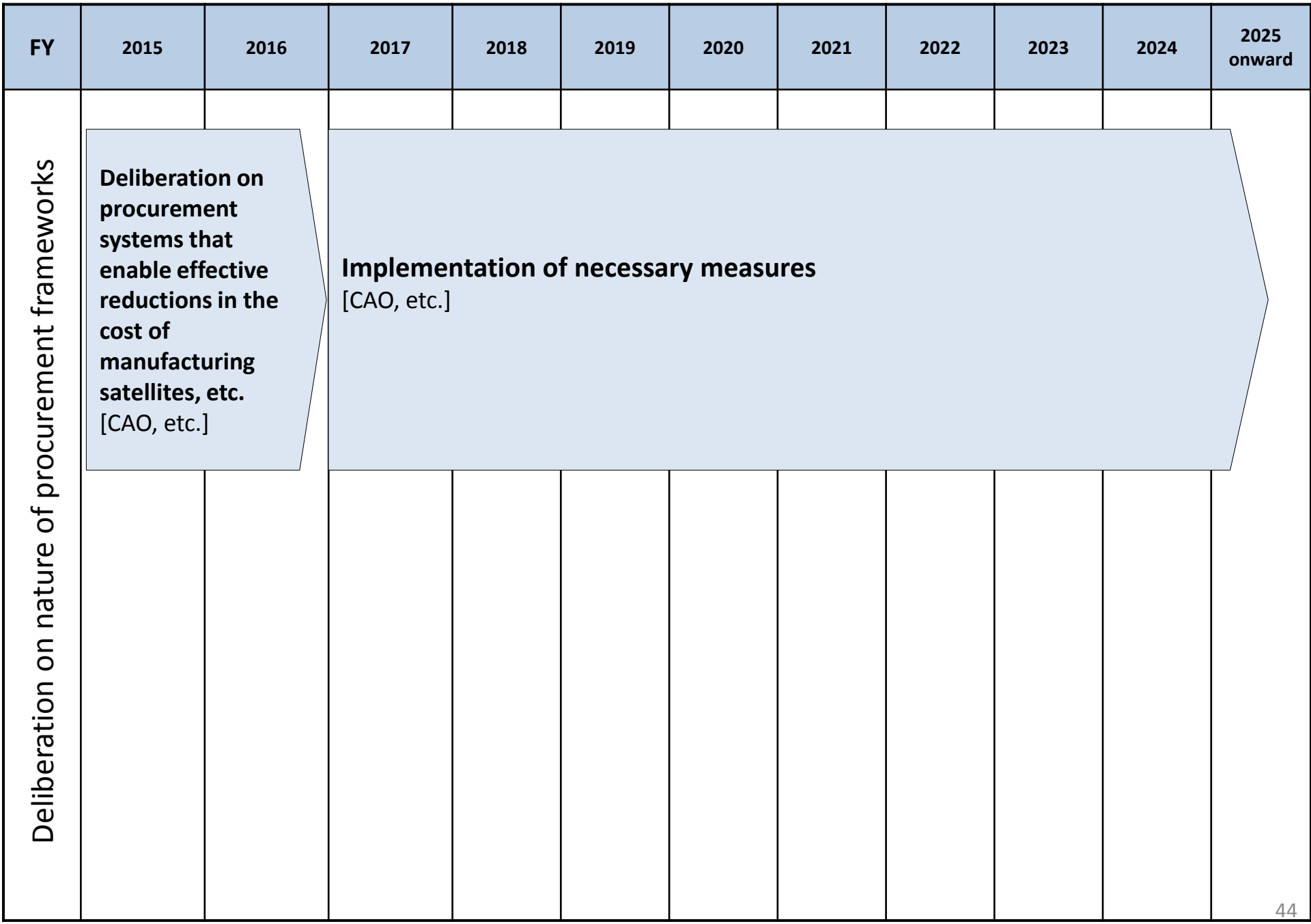
4. (2)③iv) Amendment of legal frameworks etc.

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Legal framework for satellite remote sensing	**Deliberation on satellite remote sensing bill** [CAO, MOFA, MEXT, METI] ▲ Submission to Diet	**Application of systems, etc.** (with passage by Diet as prerequisite)									

4. (2)③iv) Amendment of legal frameworks, etc.

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Steps to address disruption of positioning satellite signals	**Survey and deliberations on positioning satellite signals** [CAO, MIC, MOFA, METI, MLIT]	**Implementation of necessary measures** [CAO, MIC, MOFA, METI, MLIT]									

4. (2)③iv) Deliberation on nature of procurement frameworks



FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Realization and reinforcement of the rule of law in outer space

Promotion of the formulation of the International Code of Conduct for Outer Space Activities

Proactive participation in discussions, outreach, etc. [MOFA]

Proactive participation in and contribute to discussions in international conferences such as the United Nations COPUOS (Committee on the Peaceful Uses of Outer Space) [CAO, MOFA, MEXT, etc.]

-Attendance at relevant committees, coordination with UN space agency

-Dispatch of specialists to space-related symposiums and seminars

Proactive utilization of bilateral and multilateral space cooperation as opportunities for rule formulation [MOFA, MEXT]

- Actively utilize regional cooperative frameworks such as the ARF (ASEAN Regional Forum) and opportunities for bilateral and multilateral policy dialogue
- Utilization of opportunities to welcome visitors from overseas, including at Japan’s invitation

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Building a multi-layered network of cooperation with other countries in the space field

Promote bilateral Japan-US space cooperation in both the national security and civil sectors
[CAS, CAO, MIC, MOFA, MEXT, METI, MOE, MOD, etc.]

Hold regular intergovernmental dialogues on space with the US, the EU, Australia, etc.
[CAS, CAO, MIC, MOFA, MEXT, METI, MOE, MOD, etc.]

Promote cooperation and dialogue between governments and space agencies, and implement initiatives. [CAS, CAO, MIC, MOFA, MEXT, METI, MLIT, MOD, etc.]

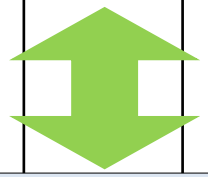
Forging partnerships within the ISEF (International Space Exploration Forum), and host the forum
[CAO, MOFA, MEXT]

Strengthen international space exploration partnerships
[CAO, MOFA, MEXT]

Formulation of next plan

Implement next 10-year Global Earth Observation System of Systems (plan)
[CAO, MEXT, MOE, etc.]

Deliberations and cooperation on efficient, effective implementation of various bilateral and multilateral support
[CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]



(Ref.) Establish the Task Force on Overseas Operations for Space Systems (provisional name)
[CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]

4. (2)④ii) Strengthening of international space cooperation

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Joint satellite development, piggybacking, aimed at resolving challenges

Promotion of joint development and joint utilization aimed at resolving challenges facing Japan

Deliberation on joint development and joint utilization [CAO, MEXT, METI, etc.]

Investigate the possibility of joint satellite development (including piggybacking) and joint utilization of satellite data that contribute to the resolution of challenges such as energy, climate change, and disasters, with other nations, including those located along sea lanes stretching from the Middle East to Japan's marine territory and others in the Asia-Pacific region,

Deliberation and promotion of international standardization and joint utilization of earth observation data
[CAO, MOFA, MEXT, METI, MOE, etc.]

Promotion of disaster preparedness through space utilization employing disaster cooperation dialogue and Japanese disaster preparedness platform, etc.
[CAO, MLIT, etc.]

(Ref.)
Establishment and administration of the Task Force on Overseas Operations for Space Systems (provisional name)
[CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]
Deliberation on and implementation of bills on space operations and satellite remote sensing
[CAO, MOFA, MEXT, METI]

4. (2)④ii) Strengthening of international space cooperation

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Promotion of international government, industrial and academic partnership

Promotion of strategic cooperation with other nations involving a diverse range of industrial, academic, and governmental actors
[CAO, MOFA, MEXT, etc.]

Promotion of international cooperation and partnerships related to ultra-compact satellite base technology R&D and human resource cultivation [CAO, MEXT, etc.]

Dispatch of specialists and experts for initiatives related to international space utilization, human resource cultivation, science and technology cooperation, etc. [CAO, MEXT, etc.]

(Ref.)
Establishment and administration of the Task Force on Overseas Operations for Space Systems (provisional name)
[CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]
Deliberation on and implementation of bills on space operations and satellite remote sensing
[CAO, MOFA, MEXT, METI]

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Space cooperation in the Asia-Pacific region

Asia-Pacific cooperation

Boost the effectiveness of the APRSAF (Asia-Pacific Regional Space Agency Forum) Government-level meetings, discussion of international cooperation, working groups on various themes, etc. [MOFA, MEXT, etc.]

Quasi-Zenith Satellite　Asia-Pacific Roundtable implementation
[CAO, MIC, MEXT, METI, MLIT, MAFF, etc.]

Provide support for construction of electronic control point networks in the Asia-Pacific region
[CAO, MIC, METI, MLIT, , etc.]

Promotion of Japan-ASEAN cooperation
[CAS, CAO, MIC, MOFA, MEXT, METI, MLIT, MOD, etc.]

Promotion of space cooperation based on existing ASEAN space and disaster preparedness initiatives [CAO, MIC, MOFA, MEXT, METI, MLIT, , etc.]

Provide support to enable completion of the "Implementation Schedule for Utilization of Space to Reinforce Defense Capabilities," aiming to strengthen ASEAN disaster preparedness cooperation through space technology utilization [CAO, MIC, MEXT, METI, MLIT, etc.]

(Ref.)
Establishment and administration of the Task Force on Overseas Operations for Space Systems (provisional name) [CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]
Deliberation on and implementation of bills on space operations and satellite remote sensing
[CAO, MOFA, MEXT, METI]

4. (2)④iii) Establishment of the Task Force on Overseas Operations for Space Systems (provisional name)

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward

Establish the Task Force on Overseas Operations for Space Systems (provisional name)

Establish and administer the Task Force on Overseas Operations for Space Systems (provisional name)

[CAS, CAO, MIC, MOFA, MEXT, MAFF, METI, MLIT, MOE, MOD, etc.]

◎During the first half of fiscal 2015, we will establish the Task Force composed of the government of Japan and private-sector actors, and work to expand a joint public-private commercial space sector for export, and deliberate on specific measures to take (approaches to various countries, etc.)

◎Coordination with the Strategic Council on Economic Cooperation and Infrastructure

(Ref.) Consolidate the experiences and insights relevant organizations have accumulated, deliberate on mechanisms for sharing these throughout the entire government of Japan
[CAO ,MOFA]

(Ref.) Implement necessary measures

[CAO, MOFA]

(Other) Other initiatives aimed at achieving space policy objectives

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Other initiatives aimed at solidifying national security in space	**Utilization of satellite remote sensing data for national security** [CAS, MOFA, MOD, etc.]										

(Other) Other initiatives aimed at achieving space policy objectives

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Other initiatives to utilize space in the civil sector	**Utilization of satellite remote sensing data in the civil sector** [CAO, NPA, MEXT, MAFF, METI, MLIT, , etc.]										
	Satellite communication / Satellite broadcasting utilization, etc. in the civil sector [CAO, NPA, MIC, MEXT, etc.]										

(Other) Other initiatives aimed at achieving space policy objectives

FY	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025 onward
Initiatives to maintain and reinforce space industry and science and technology infrastructure	**Initiatives to maintain and reinforce space industry and science and technology infrastructure** [MEXT, METI]										