



Korean Space Security In the Era of Compound National Security

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PART 1. Current Status of Korean Space Security

Key Sectors for Space Security

01 Space Security Policy

02 Security Asset Development

03 Security Asset Utilization

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05 Space Cyber Security

Space Security Policy

Establishment of efficient space security governance

- Korea AeroSpace Administration
 - Management of security assets and space security
- National Intelligence Service
 - Regulations on space security affairs
- Ministry of Defense
 - Coordination of defense space affairs

" Expanding cooperation among ministries and agencies "

Enactment of the Framework Act(2024. 08)

Development Directions

- ✓ Consideration of the space security secretary under the President's Office
- ✓ Policy exchange among the public, private, industrial, academic and research institutions through Korean Academy of Space Security

Development of Security Assets



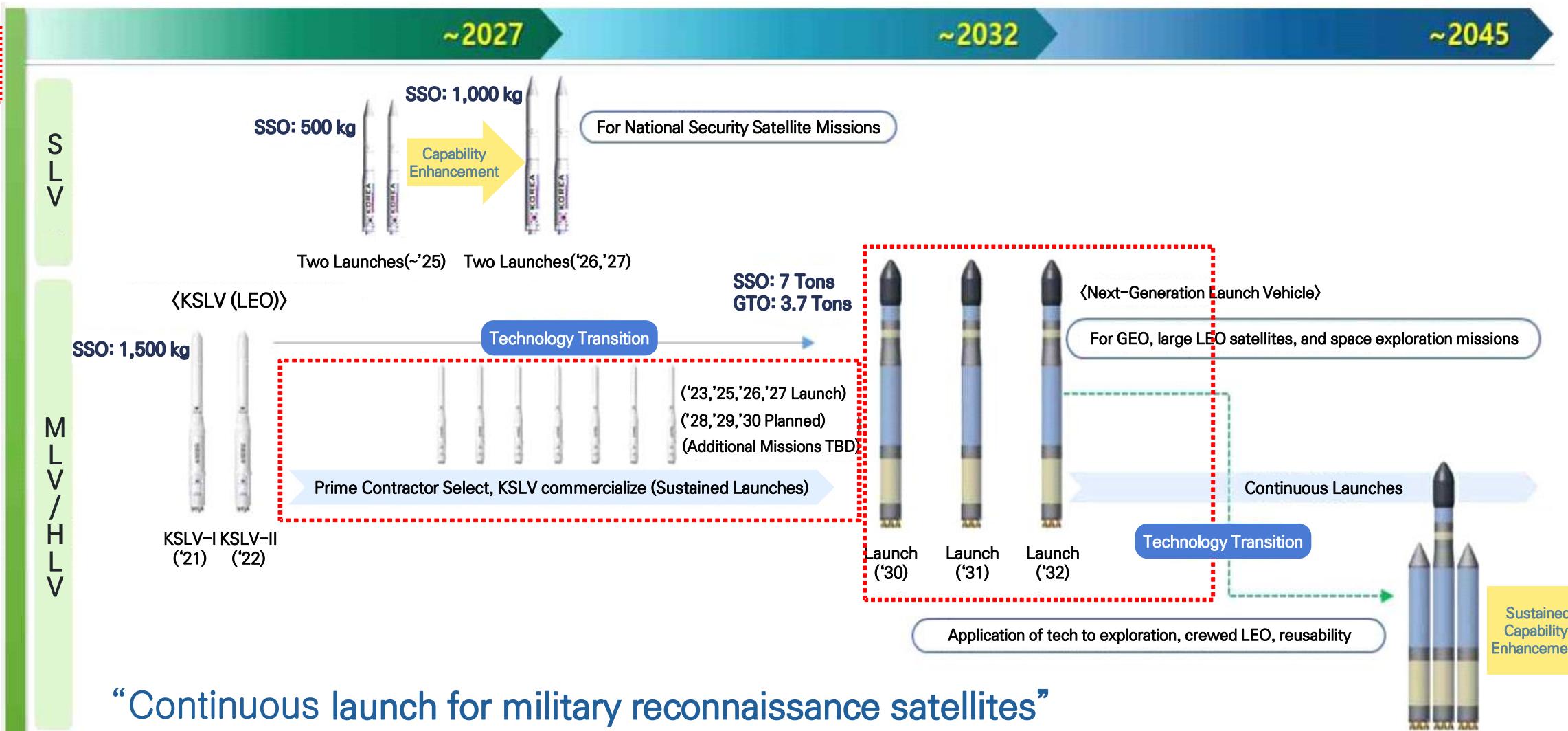
Article 1 of the Special Act on the Establishment and Operation of the Korea AeroSpace Administration

The Korea AeroSpace Administration shall secure innovative technologies through the development of aerospace technology, promote the aerospace industry, and implement policies and projects to protect the public from space hazards.

05.27. Launch of the Korea AeroSpace Administration (KASA)

Special Act on the Establishment and Operation of the Korea AeroSpace Administration (enacted on January 26, 2024, effective as of May 27, 2024)

Development of Security Assets (Launch Vehicle)

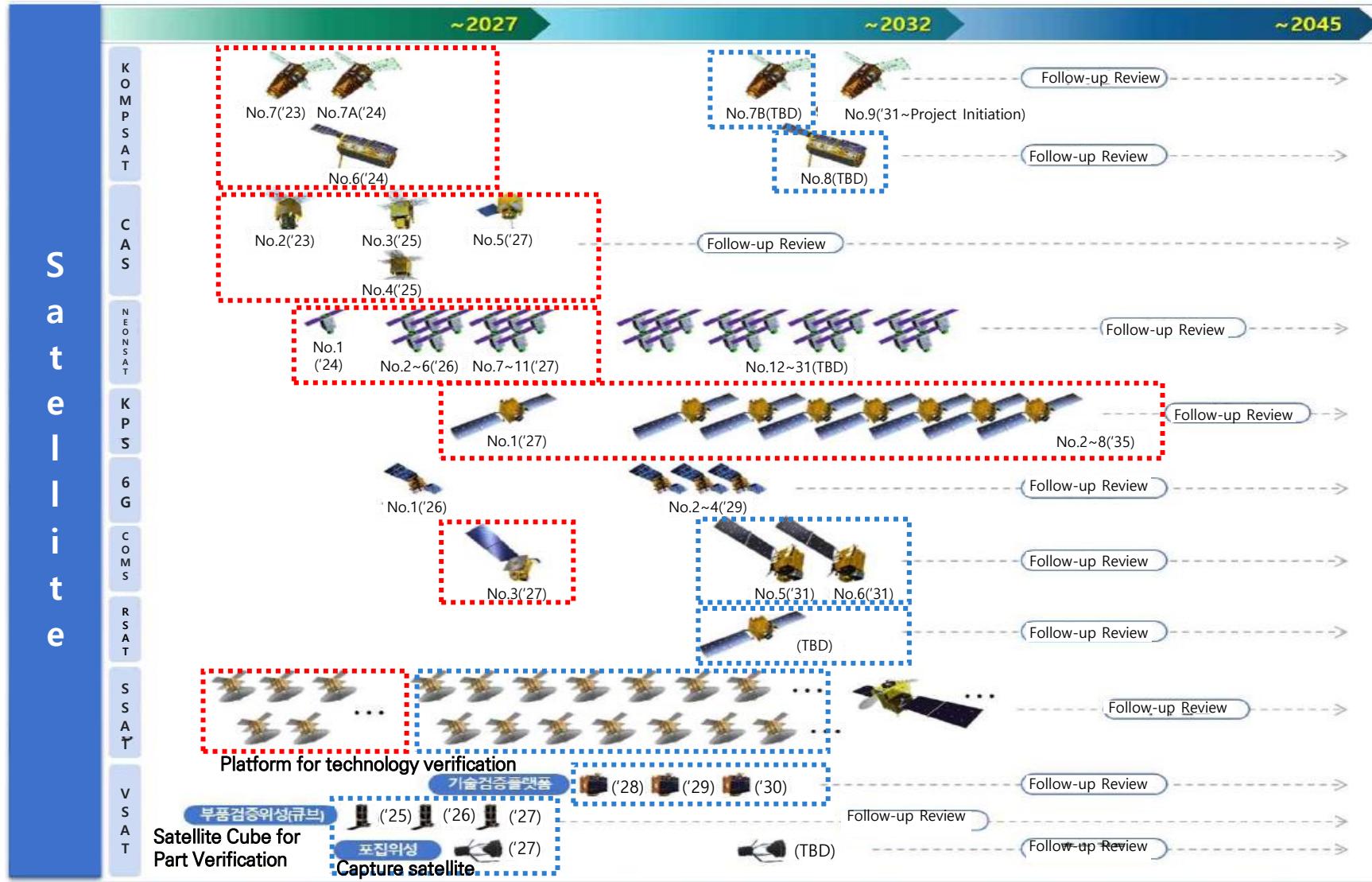


Development of Security Assets (Satellite)

Under development

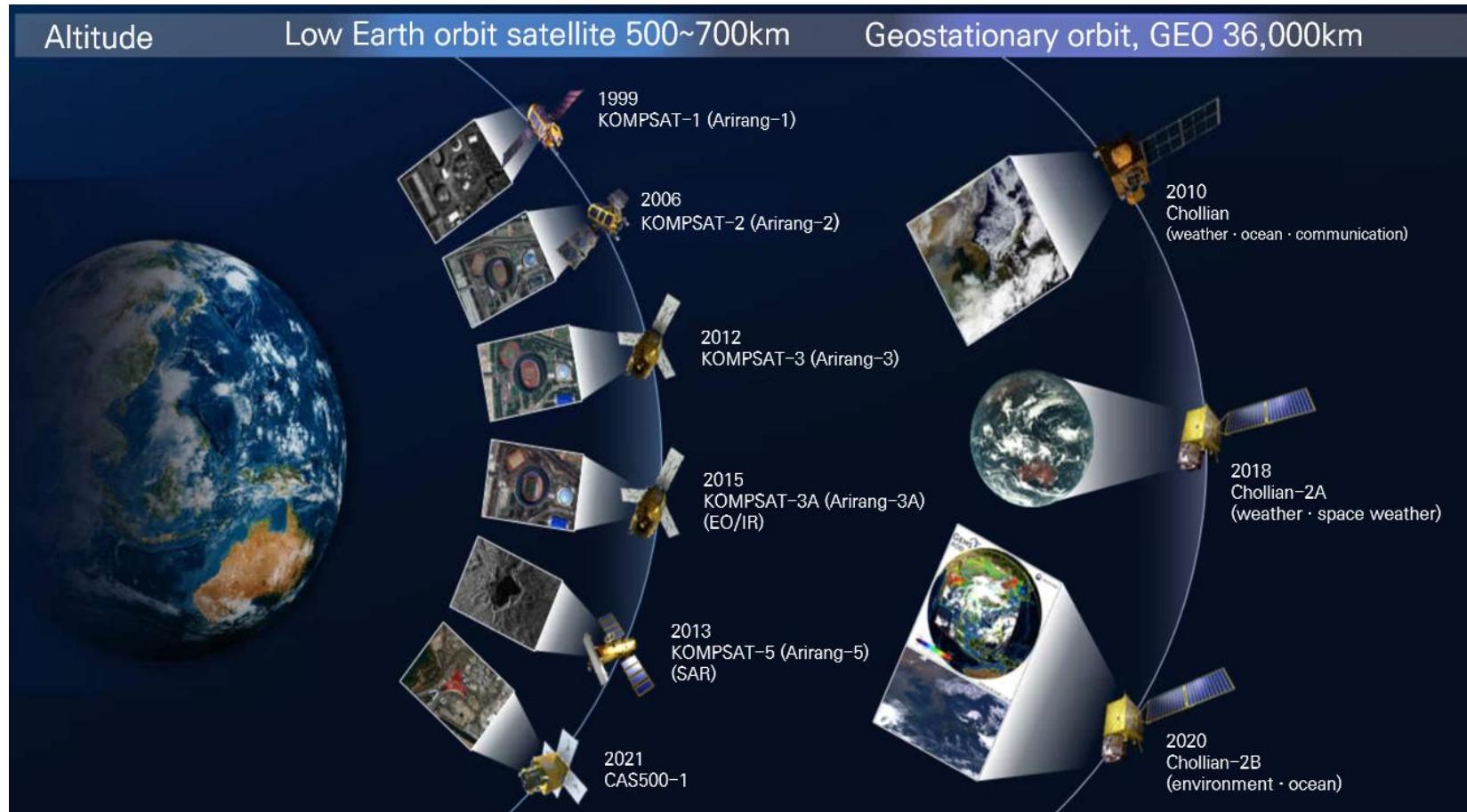
Development plan

“Continuous development of optical space surveillance system”



Security Asset Utilization

“Continuous increase of national space assets for Earth observation, more than 60 by 2030”

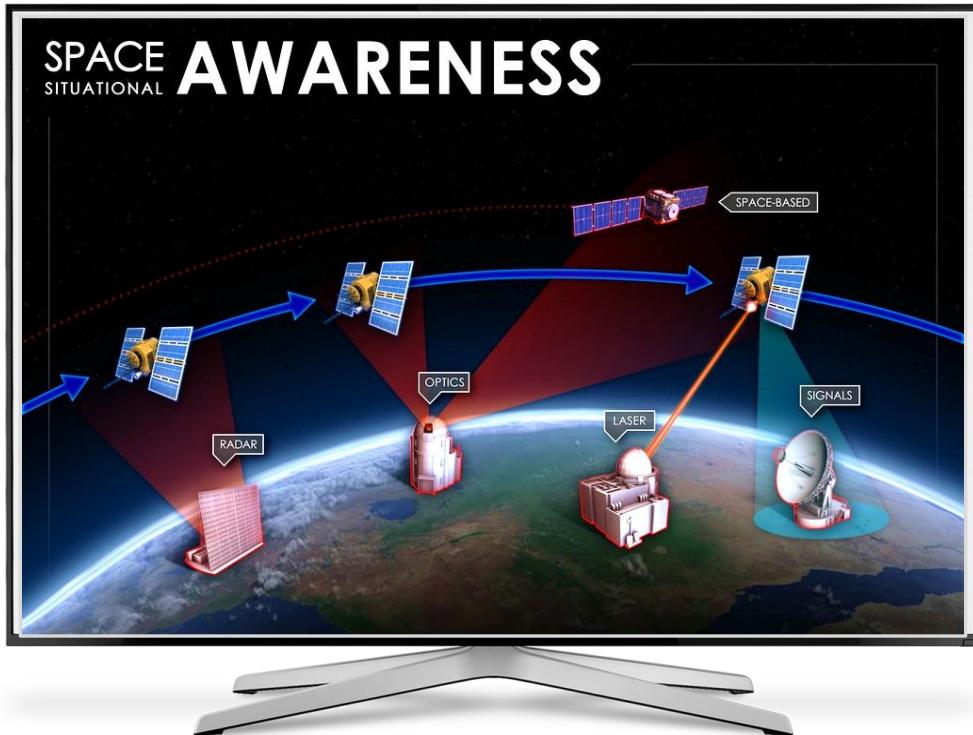


“Combining sensor-fusion, big data, and artificial intelligence

to comprehensively recognize all areas of land, sea, and space, & to maximize security asset utilization

through automated and efficient information acquisition.”

Space Situational Awareness



“Enhance the global space situational awareness system through the expansion of independent surveillance capabilities and international, civil–military cooperation”

※ Securing independent capabilities and developing new technologies

- Electro-optical space surveillance system, laser satellite tracking system, and civil–military system in operation
- All-weather radar monitoring system and asteroid/mid-altitude satellite optical monitoring system in progress

※ Civil–Military Cooperation and International Cooperation

- Establishment of civil–military cooperation system for Space traffic management, space situational awareness/space domain awareness
- Participation in international organizations and consultative bodies to jointly respond to global issues of space risk

Space Cyber Security



The 4th National Plan for Space Development Promotion (2022.12) presented the strategic direction for space cyber security.

Announcement of the ROK-US Government Joint Security Advisory (2023.06)

Launch of a consultative body led by the National Intelligence Service (2024.06)

**“Establishment of national security guidelines,
evaluation system and
hacking test environment”**

PART 2. About the Korean Academy of Space Security

History and Activities

Key Milestones

- 2022.12.16 Proposal for the Establishment of Korean Academy of Space Security
- 2023.01.30 Formation of the Preparatory Committee for the Establishment of Korean Academy of Space Security
- 2023.05.03 **Holding of Society's inaugural general meeting**
- 2023.06.23 Permission for establishment of incorporated association (academic society under the National Intelligence Service)
- 2023.07.05 **Registration for establishment of incorporated association**
- **2024.09.20 Designated as an academic research institute specializing in space security(National Intelligence Service)**

Main Activities

ASPA(Australian Secondary Principal's Association)
Conference Panel Organisation and Presentations
(27 November – 2 December)

The 1st International Space Security Symposium Held

An advisory group meeting Held

11.27

11.22

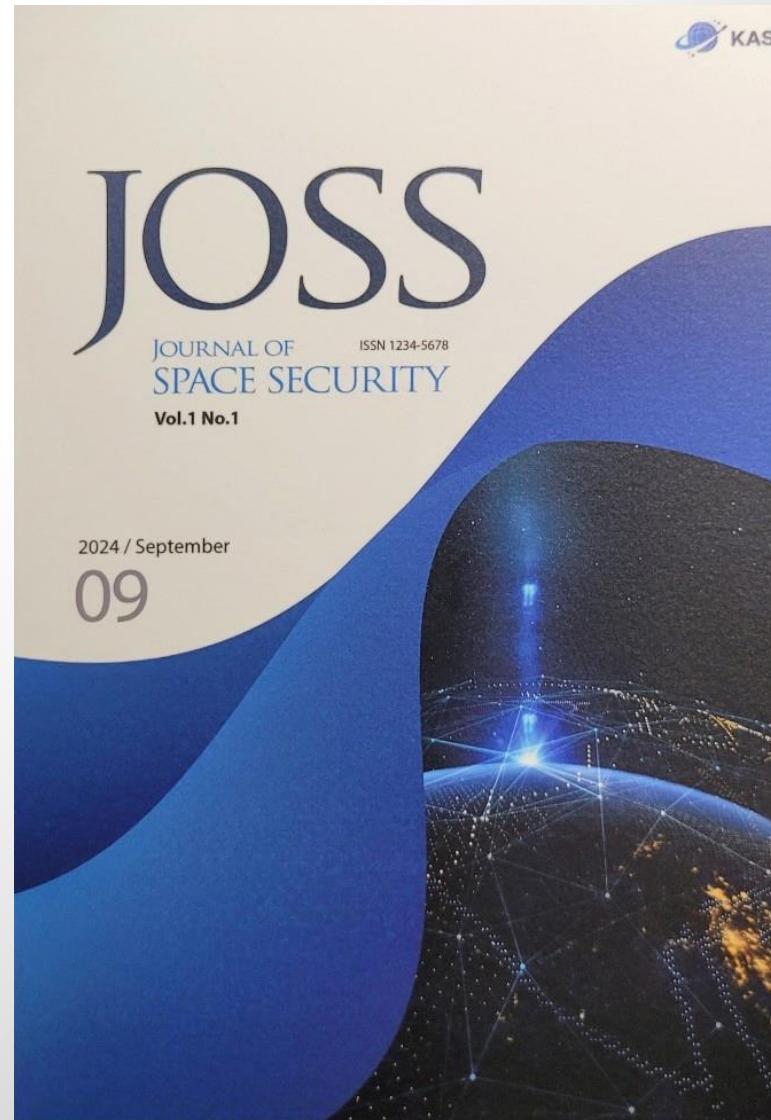
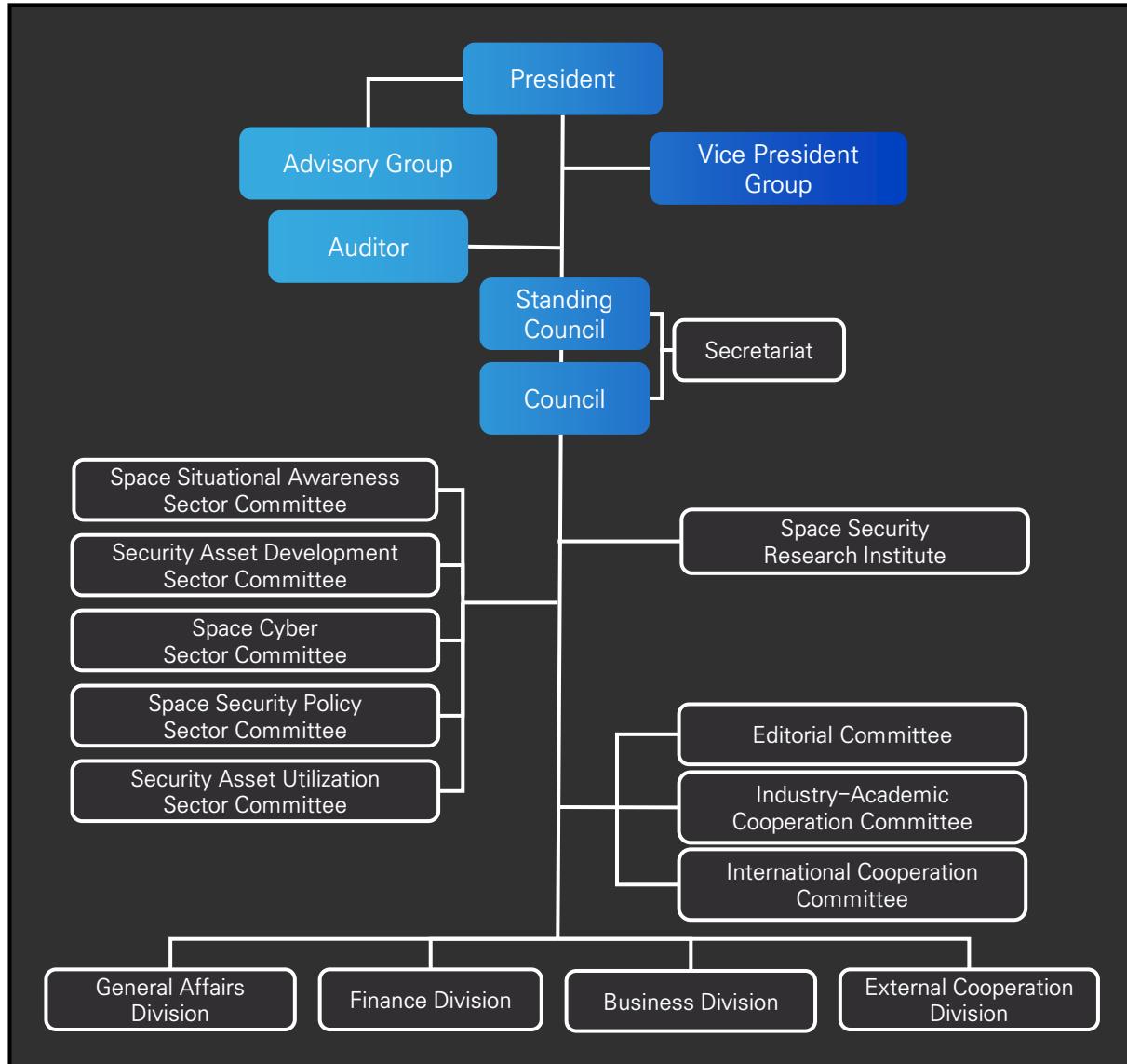
07.18

2023

2024

- 09.05 The 1st policy discussion meeting held
- 09.04 JOSS Volume 1 Issue 1 Published
- 08.22 MOU Agreement(Rabdhan University:UAE)
- 08.12 Establishment of the Space Security Research Institute
- 08.12 Establishment of the Security Asset Utilization Sector Committee
- 08.12 Domestic cooperation(Visit Korea Aerospace Research Institute,KARI)
- 07.29 International cooperation(Australia Strategic Policy Institute ASPI: Ongoing cooperation agreement)
- 07.12 International cooperation(US RAND Cooperation:Ongoing cooperation agreement)
- 07.11 International cooperation(6th Summit for Space Sustainability : Tokyo, Japan)(July 11-12)
- 07.11 Signing of a Framework Agreement(US Secure World Foundation)
- 07.11 Signs MOU(European Space Policy Institute, ESPI)
- 06.20 International cooperation(Visit European Space Policy Institute)
- 06.18 Signs MOU(Prague security studies institute, PSSI)
- 06.16 International cooperation(7th PSSI Space Security Conference: Prague, Czech Republic)(June 16-18)
- 06.12 Joint Academic Conference(The Korea Institute of Military Science and Technology)(June 12-14)
- 05.08 Joint Academic Conference(The Korean Association of Cybersecurity Studies, KACS)
- 04.17 Signs MOU(Korea Association For Space Technology Promotion, KASP)
- 03.11 Visiting academic society(Visit to Hanwha System and discuss cooperation)
- 02.19 Visiting academic society(Visit to LIG Nex1 and discuss cooperation)
- 02.05 New Year's Party (National Intelligence Service)

Organization and International Journal



Introduction to the International Conference on Space Security 2025

- Held every other year
- In conjunction with the Fall Academic Conference
- Scheduled in 5–6 November 2025
- Venue : Olimpic Parktel, Seoul
- Overseas Participating Organizations : PSSI, ASPI, SWF, RAND, etc.



Introduction of the Corporative Members of the Korean Academy of Space Security

1. Hanwha Systems
2. Loggers IT Korea
3. Far East Telecom
4. National Security Technology Research Institute
5. Eutel
6. Pixonier
7. Setreci
8. Security Platform
9. RFHIC
10. LIG Nexone
11. KT SAT
12. Institute for National Security Strategy
13. Changwoo Trading
14. Aerospace Research Institute
15. Space&Bin
16. Taekyung Electronics
17. Korean Air
18. REMPUS
19. CONTEC
20. Korea Aerospace Industries (KAI)
21. KAIST
22. Agency for Defense Development
23. NeckerDomeise
24. AP Satellite
25. Doowon Heavy Industries
26. Digitron
27. Soltop
28. Smart Intercom
29. Smart Korea PCB
30. iThree System
31. Wave Electronics
32. Korea Astronomical Research Institute
33. ETRI
34. Hancom InSpace
35. Hanwha Aerospace



PART 3. International Space Cooperation

Current Status of International Space Cooperation

Establishment of a cooperative system with international space security organizations (first half of 24)

- Signing MOU with PSSI, at the 7th PSSI Space Security Conference (Czech Republic, June)
 - Strengthening academic exchanges, Promoting joint & Mutual dispatch of delegations
- Delegation to US SWF the 6th Space Sustainability Summit (Japan, July)
 - Agreement on drafting a basic cooperation principles with SWF, strengthening cooperation with RAND in the field of space traffic control
 - Agreement on joint academic conference and joint education program with European Space Policy Institute (ESPI)



PSSI: Prague Security Studies Institute / SWF: Secure World Foundation
RAND: Reserch & Development / ESPI: European Space Policy Institute

Current Status of International Space Cooperation (Continued)

Establishment of a cooperative system with international space security organizations (second half of 24)

- Participation in the workshop "Current Status of Earth Observation Satellites and Cooperation Measures" (India, August)
 - Strengthening satellite technology cooperation between Korea and India, exploring ways to utilize satellite imagery
 - Speaker: "Laws and Policies for the Utilization of Satellite Data and Imagery in Korea"
- Signing MOU with European Space Policy Institute (IAC, Italy, October)
 - Mutual dispatch of ESPI experts and researchers, mutual support for seminars, symposiums, and educational programs, etc.



Planning International Space Cooperation

PSSI: Prague Security Studies Institute / COSPAR: Committee on Space Research
ASPI: Australia's Strategy for Space / JAXA: Japan Aerospace Exploration Agency

- Strengthening cooperation based on 24-year MOU signings
 - PSSI, ESPI MOU-based cooperation concretization (June 25, Paris Air Show)
 - Continuing cooperation with SWF, RAND (September 25, Australian IAC and ASPI, COSPAR, etc.)
- Promoting expansion of the 25-year MOU and hosting international academic conferences
 - Meeting for International Cooperation with JAXA (Japan) (October)
 - Hosting International Academic Conference / Joint Conference / 1.5 Dialogue Meeting (November)
- Launch of international joint research
 - 2~3 1yr projects (expecting in 2026)



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Korean Academy of Space Security

Thank you

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