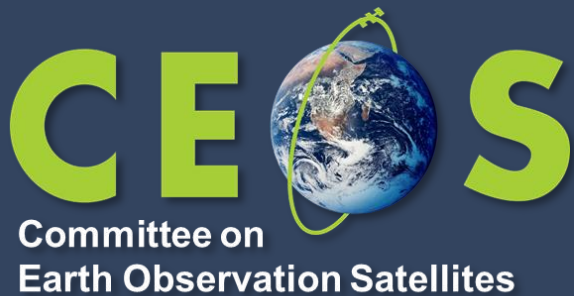


JAXA's Effort to Establish Platform for Private Sector, Academia and Government Partnership in Japan



Yuko Nakamura, JAXA

CEOS SIT-38

30th March 2023

Consortium for Satellite Earth Observation

- Establishment of Platform for Industry, Academia, Government Partnership in Japan -

✓ Purpose

- ✓ Gathering players from industry, academia and government, the Consortium will envisage the future of Satellite Earth Observation and realize it through co-creation.

✓ Vision

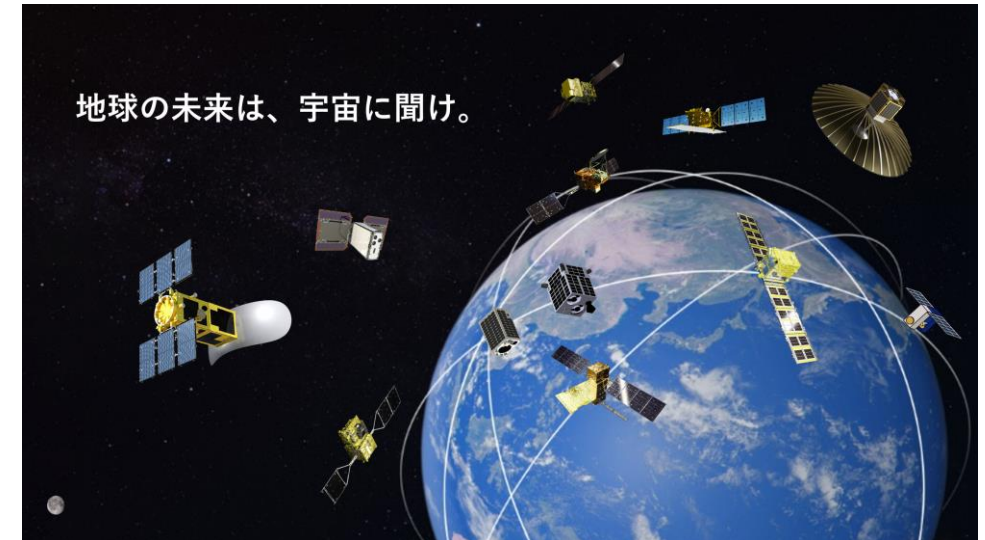
- *For prosperous global future in harmony with the Earth* -

- ✓ Safe, secure, sustainable and prosperous society realized through creating innovation, enhancing space industry and acquiring scientific knowledge

✓ Mission

The Consortium led by industry, academia and government will

1. **Deliver recommendations** of the over all strategy of Earth observation satellite for Japanese society;
2. **Install outcome from Satellite Earth Observation** to the society, **establish an ecosystem** supported by industry, academia and government and **promote co-creation** among them;
3. **Share the value** of Satellite Earth Observation to gain support from the public for its promotion.



✓ Membership

- ✓ Executive Committee: Consists of 24 experts from industry, academia and national institutes
- ✓ Members: 173 Corporations/Organizations, 30 Experts, 14 Groups of Ministries (As of 22 February)

✓ JFY2022 (Sept 2022 to March 2023)

- Study the overall strategy (recommendation) of the Earth satellite observation.

✓ JFY2023 onwards (April 2024 -)

- Facilitate industry-academia-government collaboration promotions

CONSEO Community – Players from Diverse Field



Corporate/Organization Member

173 entities

(Time of Establishment)

(107 entities)

Private sector/Municipality/Research institute etc.

Expert Member

26 persons

(13 persons)

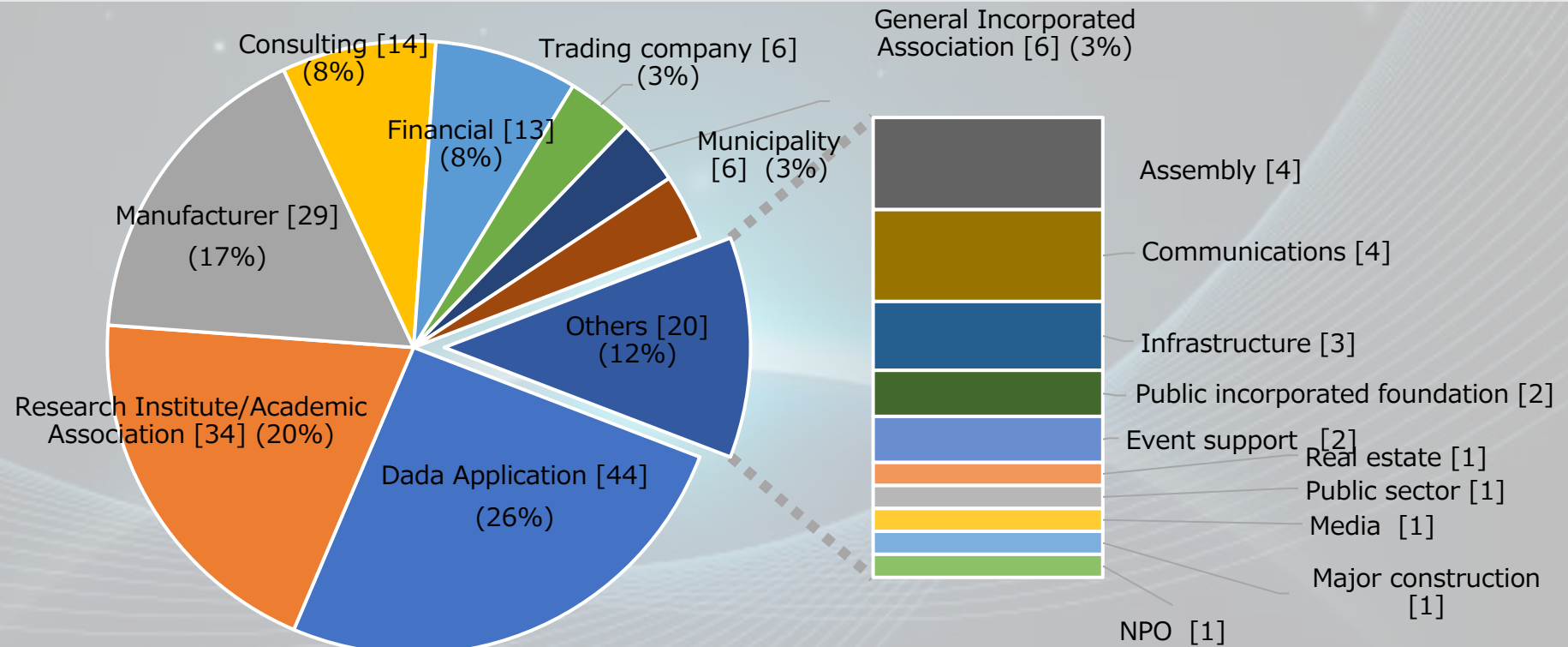
Individual membership

Observer (Ministries)

14 entities

(11 entities)

Ministries/Agencies, etc.



Solving Global Challenges and Providing Information Essential for DX/GX Enable to “Envision the Future” led by Satellite Earth Observation

Shift of Socio-economics from “Finding Issues” to “**Solving Issues**”, from “Analyzing the Situation” to “**Projecting the Future**”, from “Partial Optimization” to “**Overall Optimization**”

By highly accurate projection
Rational Policy Decisions in Food Security and Climate Change Measures

By highly accurate projection
Efficient Agriculture and Optimization of Agriculture Products/ Energy Imports

By continuous and rapid observation
Quickly Grasp and Respond to Disaster Sign and Damage

By continuous and rapid observation
Quickly Grasp and Respond to Changes in Security Environment and Economic Trends

Envision Nature and Socio-economics

Foresee (Envision) Promptly Changes that are Hard to Predict

Envision Surroundings and Work Automatically by Robots and AI

Visualize (Envision) New Value

Trial of automatic driving for car/flying car/vessel/aircraft by building AI learning environment in Earth digital twin
Toward Society with Few Accidents

Automated agricultural machinery and fishing vessels by digitalization of experience and observation data
Toward Sustainable Society with Reduced Succession Issues

Visualizing valuable information on carbon credits and natural capital
Enable New Socio-Economic Activities

By building Earth digital twin
Try to Verify New Activities
 (Typhoon control etc.)

Leveraging Regional Forum in Asia-Pacific

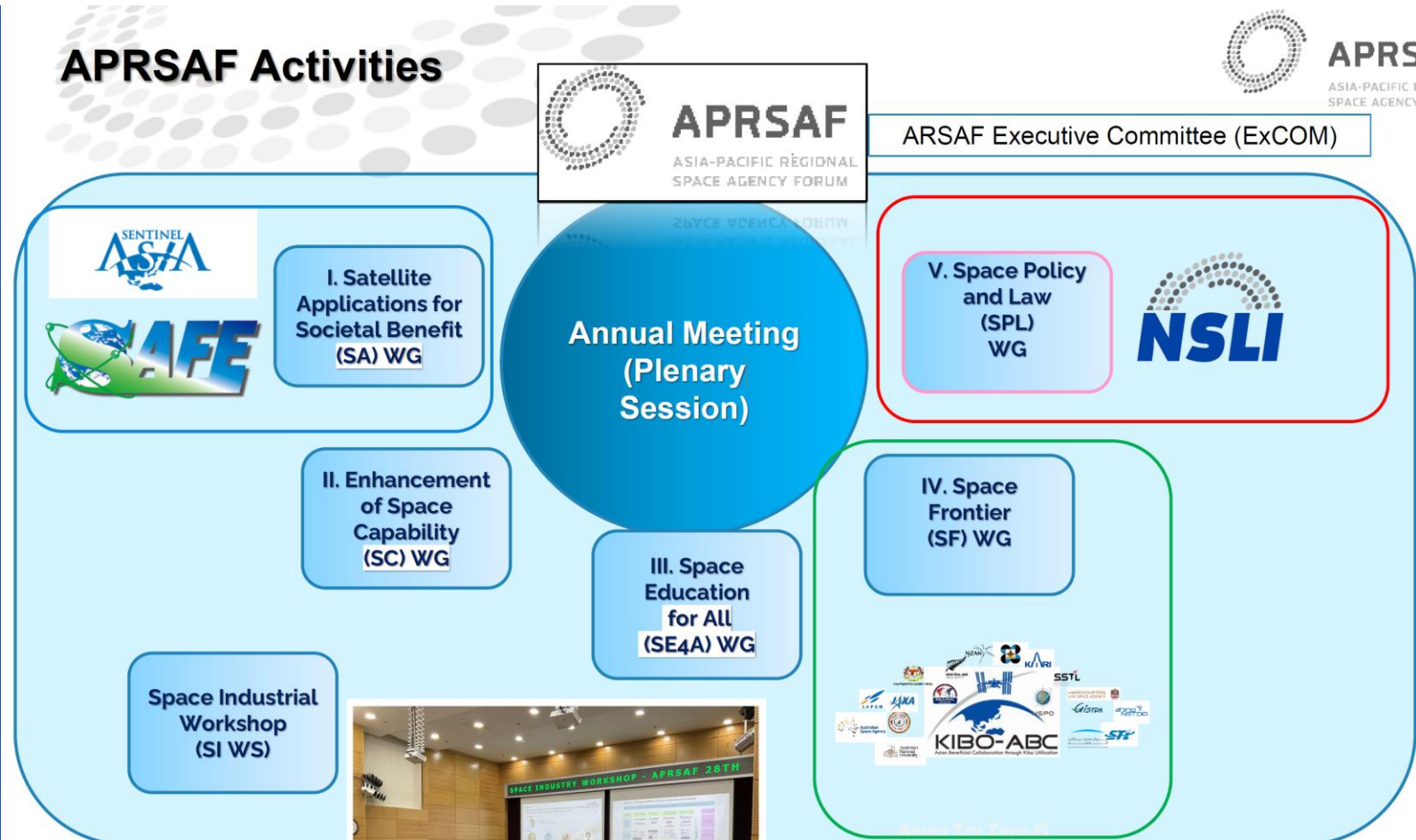
- Collaboration with APRSAF -

✓ What's APRSAF

- ✓ The Asia-Pacific Regional Space Agency Forum (APRSAF) was established in 1993.
- ✓ The largest space-related conference in APAC participated by governments, space agencies, international organization, universities and industries from over 40 countries and regions.

✓ Goal

- ✓ Aims to realize the **socio-economic development** through **solving a wide range of social issues** in APAC.
- ↑ Contributes not only to activities by space agencies but also to **the growth of the space business**. Function as a **platform for co-creation of space innovation** through partnerships between various players.



Space Industry Workshop@APRSAF-28

- ✓ APRSAF-29 (2023): Indonesia
- ✓ APRSAF-30 (2024): Australia

Summary

- CONSEO was established as a Platform for gathering players from industry, academia and government to envisage the future of Satellite Earth Observation and realize it through co-creation.
- CONSEO community consists of diverse players with various strength.
- JAXA plays a central role in this community. - As the secretariat, works like the hub to connect the various players. Also works as a player which implements national space policy.
- Through discussion in JFY2022, future society to realize by satellite EO, "Envision the Future", was envisaged by the CONSEO community.
- In JFY2023, CONSEO shifts to promotion of co-creation/partnership to foster space business.
- APRSAF is considered for an opportunity to engage with international partners.

Thank you for your attention.