Traditionally, most activities in space development and utilization have been conducted by governments, but recently, the private sector has been rapidly increasing its contributions to space development and utilization around the world.

Transformation of structures in the space industry is accelerating, with increasing numbers of players from the private sector, and governments that traditionally played key roles in the technologies for space development and utilization have also taken on additional challenges to promote industrialization, with a focus starting from the initial stage of technological development in space development and utilization.

Growing the space industry can contribute to economic growth resulting from the huge potential brought forth from exploring innovative mechanisms and technology. The space industry is also expected to contribute to improving productivity and competitiveness of other industries through the development of new services. In this context, the role of industry promotion by government will be increasingly required in the future for space development and utilization as well.

Accordingly, at this session, speakers will introduce their latest activities overall, including policies to promote or support industrialization and contribute to innovation for evolving needs.
Space Cooperation with Asia - Pacific Region

(Plenary, November 8)

We believe that international cooperation is a cornerstone to the success of long-term sustainability in human space endeavors. While cooperation between major space-faring nations is vital, cooperation on different platforms is emerging as a new trend, and ensuring that benefits of space applications become more generally available.

Across the globe, certain countries have assumed a lead role in ensuring fruitful interactions and initiatives, as well as strong regional cooperation in space.

Regarding this stance, the Asia-Pacific region presents an important story, and stands to contribute and gain from strong cooperative efforts in space applications. The following major factors underscore the calls for more initiative in this region:

✓ Large geographic region in terms of landmass and oceans
✓ Diverse ethnic groups requiring multiple applications
✓ Biodiversity and wide range of climatic conditions
✓ Large populations
✓ Significant emergence of space players in the region
✓ Excellent space technology expertise available in the region

Considering the factors above, speakers will introduce their latest and future activities, as well as prospective areas for space cooperation in this region.
The continual development of new and innovative technology has transformed many industries and reshaped how the world works. It is therefore imperative that we understand how these developments can also help to meet the needs of a nation. Hence, the theme for APRSAF-25 is “Innovative Space Technology for Evolving Needs”.

Space-based navigation systems like the Global Positioning System (GPS) has become an essential technology for land, air, and sea navigation. The mutual reliance of internet-based networks and space-enabled communication and information services have aroused government and industry players alike to focus on space cybersecurity and data privacy. The innovation of High Throughput Satellites (HTS) is already having an impact across Asia Pacific region, in particular for delivering services where other networks cannot reach and doing it affordably. HTS has the capacity to help service providers meet the high-bandwidth demands of banking, retail, maritime, and aeronautical applications.

Singapore, with her extensive base of ICT technologies and capabilities and growing support from the government, can translate all these from terrestrial use to space applications. There is also an increasing use of space technology for everyday needs. From land management to on-demand satellite communication, each one hoping to tackle Singapore’s needs.

This session aims to share successful new innovation in space technology from Singapore to tackle the needs of the country in the New Space Era.
Heads of Space Agencies Session
- Innovative Space Technology for Solving Societal Issues -
(Plenary, November 8)

Space science and technology have tremendous potential to play innovative roles in solving social issues differently than before. Heads of space agencies in the region will present their agency’s activities/achievements concerning innovative technology including R&D and introduction. They will also describe future possibilities/expected contributions in solving social issues or difficulties they face.

Moreover, they will discuss possibilities and expected cooperation areas in resolving their national and regional priorities, including disaster risk management, energy management and agricultural management with innovative technology for better solutions.

Space Exploration Session
(Plenary, November 9)

In recent years, new players from both public and private sectors are emerging to actively participate in space exploration. Because space exploration requires a comprehensive range of challenging technology compared to Low-Earth Orbit (LEO) activities, participation from various backgrounds, including space-faring and space-emerging countries, and from space and non-space industries is essential. Therefore, there are various opportunities for space-emerging countries and industries in the Asia-Pacific region to be involved in space exploration. These opportunities are not limited to traditional space-related areas such as launch vehicles or space vehicles, but also non-space areas such as medicine, construction, and food.

This session aims for continuation and expansion of the discussions held at the second International Space Exploration Forum (ISEF2). In this session, representatives from space agencies, industry, and the young generation will discuss the possibilities of participation in space exploration by various players, the evolving role of space agencies, and the new cooperation arising among existing and emerging players in space exploration.
Industrial development and promotion of the space sector is an important national policy agenda for many countries. There are various approaches, however, toward promotion of the space industry, depending on stages of space development.

In the early stage of space development, countries often rely on transfer of key technologies from foreign countries. Then space activities will be promoted by a government, and industry promotion is done through governmental contracts with an aim to develop its indigenous technological capabilities.

At a later stage, countries focus more on commercially oriented space development and utilization, providing new business opportunities for private companies. For a country seeking to build a solid industrial base of space development, one of the great challenges is how to enable growth of a wider array of space players.

In this session, space policy officials will introduce each country’s policies and initiatives for promoting their national space industry and thus provide the APRSAF participants an opportunity to learn about various approaches taken according to stages of space development. Challenges for implementing such policies and potential cooperation areas in the region will also be discussed.

Following all the sessions of APRSAF-25, the space leaders in the Asia-Pacific region including the heads of space agencies and the senior officials of the governments/international organizations will be welcomed to exchange their views on:

1) Future perspective and direction of the space activities in the Asia-Pacific region
2) Expectation for APRSAF activities (Common issues to be addressed in the future, suggestions to improve operations of APRSAF activities): Major ideas and suggestions shared among the space leaders will be incorporated into the Joint Statement to be adopted at the end of the APRSAF-25.