



APRSAF

ASIA-PACIFIC REGIONAL
SPACE AGENCY FORUM

**The 21st Session of the Asia-Pacific
Regional Space Agency Forum (APRSAF):
Dawn of a New Decade**

**52nd Session of
Scientific and Technical Subcommittee**

Kazuhiro MIYAZAKI

Office for Space Utilization Promotion,

Ministry of Education, Culture, Sports, Science and Technology (MEXT)

What is APRSAF?



■ APRSAF (Asia-Pacific Regional Space Agency Forum)

Regional Cooperation Framework for Space Activities

- Established in 1993
- Largest space community in the Asia-Pacific region
- Contributing socio-economic benefits in the region

■ Objectives

Promotion and expansion of space activities and applications for socio-economic development in the region

■ Participants

Space agencies, governmental bodies, international organizations, universities, research institutions, private entities

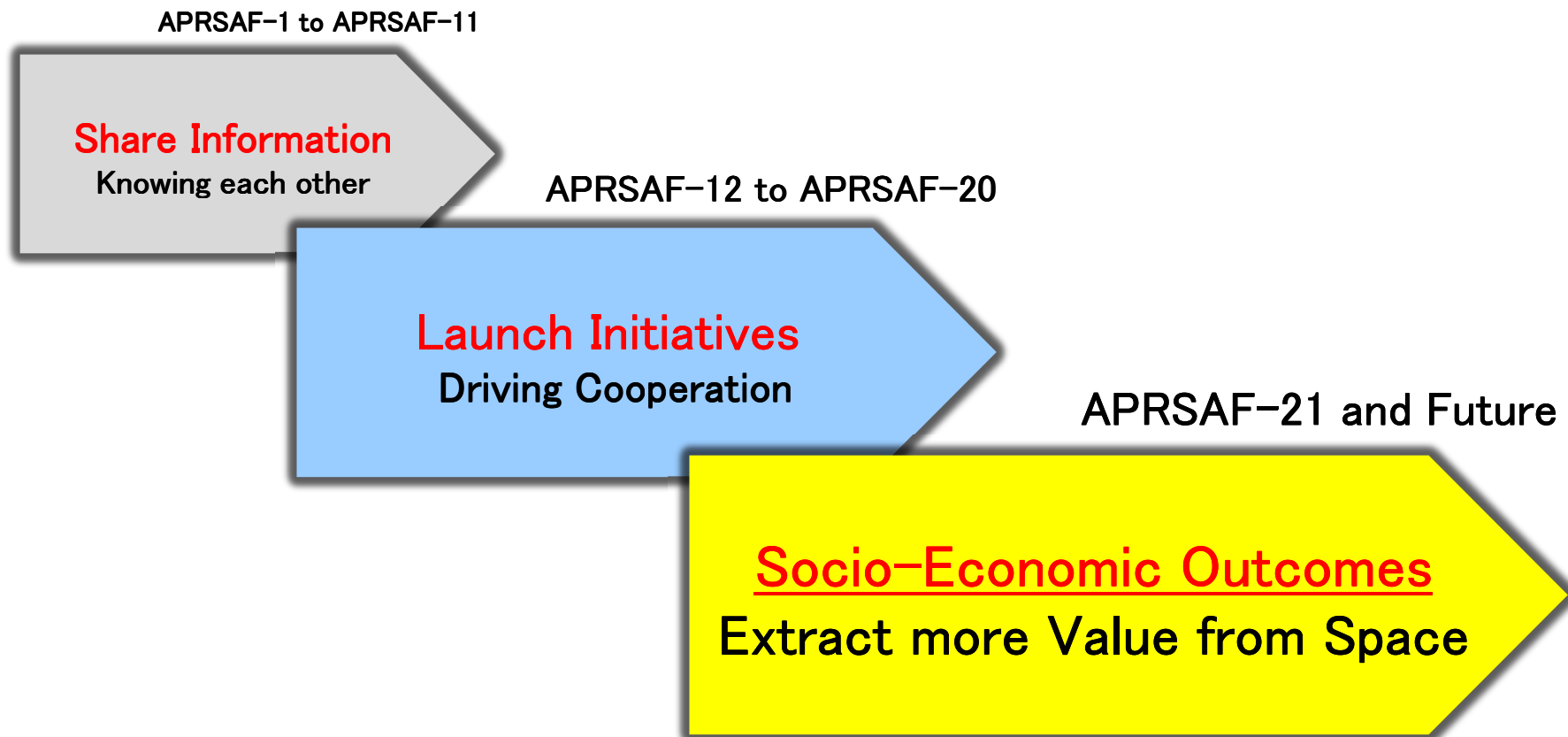
■ Organizers

Japan (MEXT, JAXA) and local host organizations

New stage of APRSAF



In the past 20 years, APRSAF has created a number of sound results. The new phase of APRSAF focuses on socio-economic outcomes.....



To improve the lives of people in the region

APRSAF Structure



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Working Groups



**Space Applications
WG**



**Space Technology
WG**



**Space Environment
Utilization WG**



**Space Education
WG**

Initiatives



**Disaster Monitoring
- Sentinel Asia -**



**Environment Monitoring
- SAFE (Space Application
for Environment) -**



**Regional Readiness Review
For Key Climate Missions
- CR³ -**



**Asian Beneficial Collaboration
through "Kibo" Utilization
- Kibo-ABC -**

Water Rocket Event

Poster Contest

Exhibition

Side Events

Related Activities



**University International
Formation Mission
- UNIFORM -**



**Multi-GNSS Asia
- MGA -**

The 21st Session of the APRSAF (APRSAF-21), Tokyo, Japan



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【Theme】

Leap to the Next Stage: Delivering Innovative Ideas and Solutions



Participants of APRSAF-21



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- 580 participants (record-high)
- Organizations from 33 countries and regions



Australia



Bangladesh



Brunei
Darussalam



Cambodia



Canada



China



France



Germany



India



Indonesia



Israel



Japan



Kazakhstan



R. of Korea



Malaysia



Mongolia



Myanmar



Nepal



Netherlands



New Zealand



Pakistan



Philippines



Romania



Russian Federation



Singapore



Sri Lanka



Thailand



Turkey



UAE



UK



USA



Vietnam

- 12 international organizations



Working Groupes



Space Applications WG



Space Technology WG



Space Education WG



Space Environment Utilization WG



Plenary Session



Special Session (1) – Societal Needs and Space for Practical Applications –



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- Moderated by Dr. Alexander Held, CSIRO (Australia)
- Panelists from JICA (Japan), BWDB (Bangladesh), JAXA (Japan), LAPAN (Indonesia), PHIVOLCS (The Philippines)



- Showcased some ongoing projects in which satellite-based technology are being applied in a synergistic way
 - ex. Movement of the ozone hole, river basin management, deforestation, drought monitoring, volcano monitoring,
- Highlighted the importance of concerted efforts in support of solving national and regional issues

Special Session (2) – Space Exploration “ISS and Beyond–Toward Global Space Exploration” –



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- Moderated by Astronaut Soichi Noguchi
- Panelists from Malaysia (ANGKASA) and Thailand (NSTDA)
- Shared the value of human space activities and the future perspective on global space exploration
- Stressed the importance of “passing the torch” to the next generation



Special Session (3)

– Asia-Pacific Space Leaders Meeting (AP-SLM) Session–

- To foster and promote further space cooperation in the region, leaders from 13 countries released the Joint Statement “Toward the Advancement of Activities in Exploration and Utilization of Outer Space for a Better Future of People on Earth” on 4 topics

- Space Technology Development
- Space Applications
- Space Exploration
- Capacity Building and Education



DOI (Australia), ISRO (India), LAPAN (Indonesia), JAXA (Japan), KAZCOSMOS (Kazakhstan), ANGKASA (Malaysia), ICTPA (Mongolia), SUPARCO (Pakistan), DOST (the Philippines), KARI (Republic of Korea), CRISP (Singapore), EIAST (the United Arab Emirates), VAST/STI (Vietnam)

Special Presentations



- “Summary of the International Space Exploration Forum (ISEF)”

- Mr. David Turner, U.S. DOS



- “Japan’s Space Exploration Strategy: An Interim Report from MEXT’s ISS–Space Exploration Committee”

- Dr. Atsushi Sunami, GRIPS (Japan)



ISEF builds on a process started at the EU–hosted high level international space exploration dialogue, and Japan will host the next forum in Tokyo, 2016 or 2017.

Side Events

Industrial Exhibition



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Side Events



9th Poster Contest for Children



Technical Tours
to JAXA space center



10th Water Rocket
Event for Youth

Recommendations of APRSAF-21 (excerpt)



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- Welcomed the reorganization of working groups to facilitate outcome-oriented activities
- Re-emphasized the importance of contributing to the solving of social problems with maximum utilization of space technology
- Confirmed the common goal of further dissemination of space technology and its applications
- Welcomed the research and development on the ISS and the promotion of human resource development and capacity building
- Welcomed the discussion of space exploration and encouraged active support for its implementation
- Confirmed the importance of cooperation in rule-making for long-term space activities
- Confirmed the further promotion of the human resource development of our youth as the next generation of leaders

The 22nd Session of the Asia-Pacific Regional Space Agency Forum

to be held in 2015, Bali, Indonesia

Tentative Date : 1-4 December 2015
Tentative Venue : Bali, Indonesia
Co-organizers : State Ministry of Research, Technology and
Higher Education (RistekDikti);
National Institute of Aeronautics and Space of Indonesia (LAPAN);
Ministry of Education, Culture, Sports,
Science and Technology of Japan (MEXT);
Japan Aerospace Exploration Agency (JAXA).
Website : <http://aprsaf.org>



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MEXT

MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN



image courtesy : chandrabali



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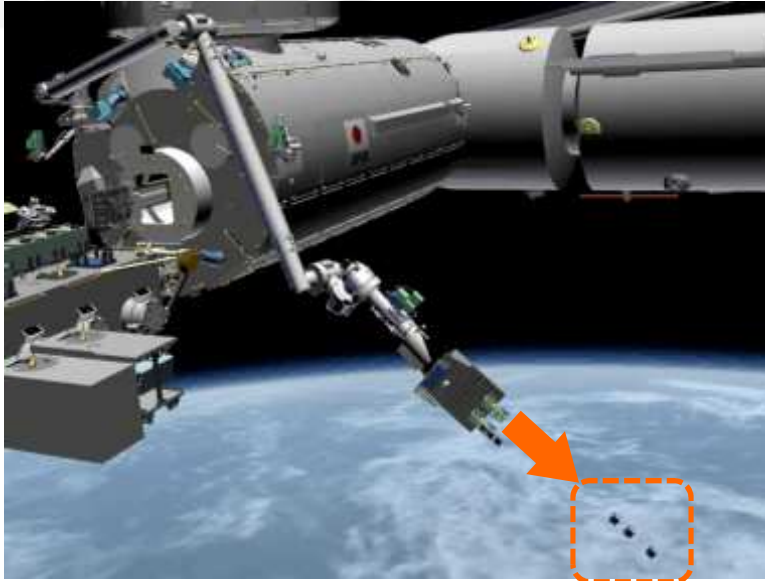
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We look forward to seeing you
in Bali!

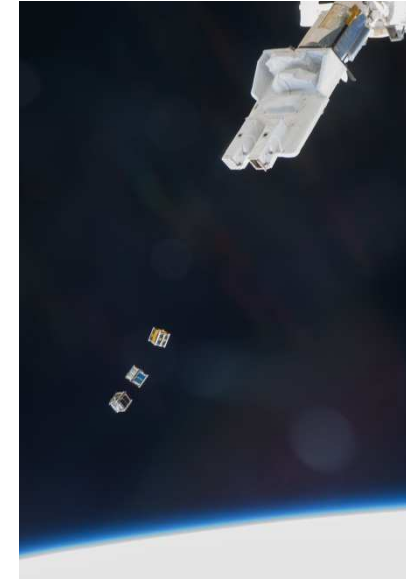
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Expansion of Kibo Utilization

- Cubesat Deployment from ISS/Kibo-



Cubesat Deployment System of Kibo



Cubesats of US and Vietnam Deployed in 2013



AESP14 (c) INPE/ITA

Brazilian Cubesat (AESP14)
to be deployed 5 Feb (today).