



UNITED NATIONS OFFICE
FOR OUTER SPACE AFFAIRS

Access to Space for All initiative Expert Meeting

Technical Presentation
Sixty-sixth session of the Committee on the Peaceful Uses of Outer Space
31 May 2023

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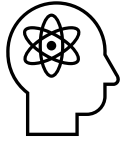


Access to Space for All

Space Technology Capacity Building



The goal of the Access to Space 4 All initiative is to provide research and orbital opportunities for UN Member States **to access space and to ensure that the benefits of space, in particular for sustainable development, are truly accessible to all**



Acquire cutting-edge skills for jobs and other opportunities and **develop hands-on capabilities** from A-Z



Free of charge access to unique ground and space infrastructure, technology, and information



Gain international cooperation experience through working with the UN and space-faring partners



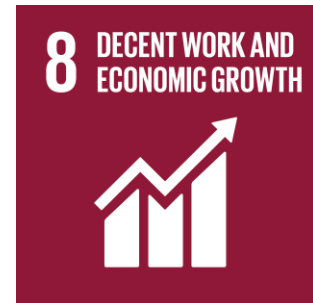
Visibility to their R&D and space activities



Motivate the young generation and **boost interest in STEM**

Access to Space for All in Numbers

- **9** Hands on Opportunities
- **1** Annual Fellowship
- **32** Awardees involving **44** Entities from **32** countries
- **5** CubeSats launched
- **7** Microgravity Experiments performed
- **20** projects in development
- **68** Scholarships granted
- **100+** Hours of educational content on YouTube





Access to Space for All Opportunities



HYPERGRAVITY/
MICROGRAVITY



Suborbital and
parabolic flights

Bartolomeo AIRBUS

China Space Station CMS

Dream Chaser SIERRA SPACE

SATELLITE
DEVELOPMENT

canSATs

PHI
مركز محمد بن راشد
للعلوم والفضاء
MOHAMMED BIN RASHID SPACE CENTER

KiboCUBE JAXA

Vega-C AVIO

SPACE
EXPLORATION

ISONscope

Ground
Analogues

Beyond GEO



Kibo-RPC JAXA

PNST MEXT
MINISTRY OF EDUCATION,
CULTURE, SPORTS,
SCIENCE AND TECHNOLOGY-JAPAN
Kyutech
Kyushu Institute of Technology

KiboCUBE Academy JAXA
UNISEC
University Space Engineering Consortium



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Overview of the Expert Meeting



Details

Date: 15 - 17 May 2023

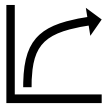
Format: online

Target Audience: partners, awardees, government, potential applicants and partners, and the general public

Objectives



Share and gain insights from success stories and challenges on capacity-building activities and effective outreach



Discuss **how to improve** the Access to Space for All initiative



Bring together partners, awardees, supporting governments, and potential future partners and applicants of the initiative to **build new partnerships**



Raise awareness of the Access to Space for All initiative





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Agenda of Expert Meeting



Day 1 Monday 15 May

- Opening Remarks
- Overview of the Access to Space for All initiative
- Session 1: Introduction of the Hypergravity and Microgravity Track

Day 2 Tuesday 16 May

- Session 2: Introduction to the Satellite Development Track
- Session 3: Introduction to the Space Exploration Track

Day 3 Wednesday 17 May

- Session 4: Effective Outreach
- Session 5: Lessons Learned and Way Forward
(Only for partners, awardees and past applicants)



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Presentations and **Videos** are available on our website!

Click [here](#) or scan the **QR code**

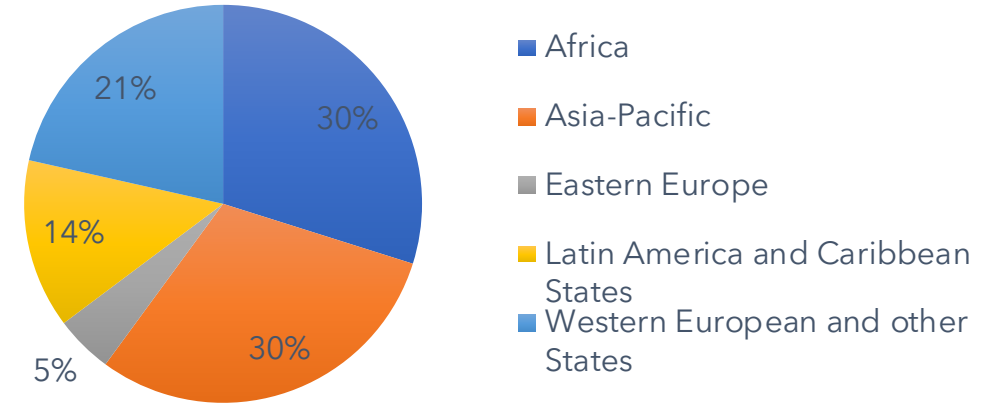


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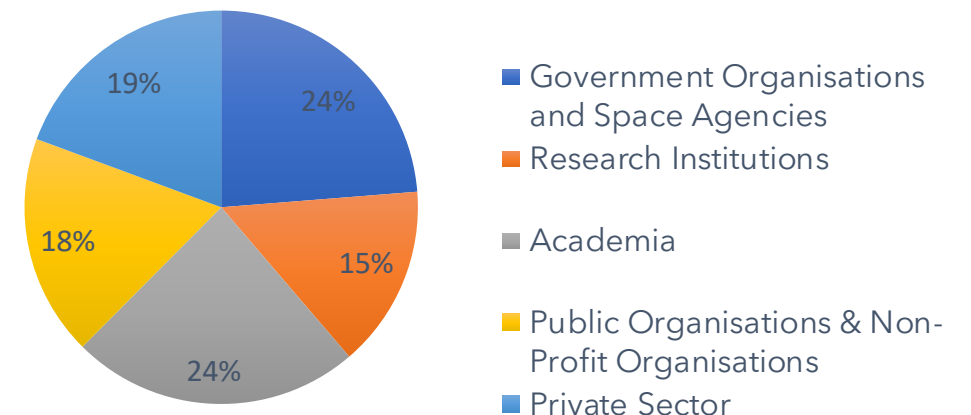
Results of the Expert Meeting

- **596** people from **89** nations registered.
178 from Africa, 180 from Asia-Pacific, 28 from Eastern Europe, 82 from Latin America and the Caribbean, and 128 from Western European and other States
- **More than 100 attendees** at any given time with a maximum of **140** attendees connecting simultaneously.
- **28** speakers (of which 10 were women)
- The average rating of the event was **4.65** (out of 5)

Registration - Nationality



Registration - Type of Organisations





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Impact and Lessons Learnt



Impact



Opportunities and Partnerships: able to draw new partners and get connected with international space actors, get exposed to the space industry, build capacity for the workforce

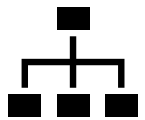


Raised Visibility: media coverage for the awardee entity but also to space and STEM education, encouraged the participation of women and the young generation

Lessons Learnt from Awardees



Funding: financial budget must be **carefully considered and planned in advance for the long process**



Team Organisation: need to assess human resources, learn to work with multidisciplinary teams, have **project management and systems engineering skills**



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Recommendations

Existing Opportunities



Publish an **annual plan** of the schedule



Training and information sharing on legal issues related to the implementation of the projects



More **outreach on different platforms** of social media

Future Activities



More **educational material and scholarship and internship opportunities** for students and educators in countries with limited space education programs



More hands-on opportunities such as;

- **microgravity experiment opportunities onboard space stations;**
- **launching opportunities for nanosatellites;**
- **access to a network of laboratories;**
- support to the **development of ground station infrastructure;** and
- **space exploration-related** activities.



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Way Forward



- UNOOSA and the partners will **take the feedback into consideration** when opening a new round of applications.
- List of opportunities to be open in 2023
 - DropTES : 31 May 2023** see the [DropTES Rounds page](#) or scan the QR code
 - HyperGES : 31 May 2023** see the [HyperGES Rounds page](#) or scan the QR code
 - KiboCUBE : 2 June 2023** see the [KiboCUBE Rounds page](#) or scan the QR code
 - Payload Hosting Initiative (PHI) : Q4 2023**
 - Post-graduate study on Nano-Satellite Technologies (PNST) Fellowship: Q4 2023**
- Continue to build **new partnerships to provide more opportunities.**
- Explore more ways of **advancing outreach activities.**





Access to Space for All

Partnerships

We are looking for...



On-ground and on-orbit experiment opportunities



Sub-orbital, parabolic and balloon flight opportunities



Launch opportunities for CubeSats/hosted payloads



Access to infrastructure and provision of scientific tools



Fellowships/internships for students/professors from developing countries



Educational content



Open-source cost-free software and tools





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Thank you!