UNITED NATIONS
Office for Outer Space Affairs

مركز محمد بن راشد للفضاء
MOHAMMED BIN RASHID SPACE CENTRE

Access to Space for All
Payload Hosting Initiative (PHI)

2nd Round Announcement of Opportunity Webinar
1 November 2023

Access to Space for All

Space Technology Capacity Building

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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 the R&D and space activities already done in the country/region

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
- **80+** Hours of educational content on YouTube

SPACE AGENCIES

CMS · DLR · esa · JAXA · مركز محمد بن راشد للفضاء · NASA

RESEARCH INSTITUTIONS AND UNIVERSITIES

Kyutech · ZARM

PRIVATE SECTOR

AIRBUS · AVIO · SIERRA SPACE

Access to Space for All

Impact of the initiative

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Buena Vida
#GuateVaAlEspacio

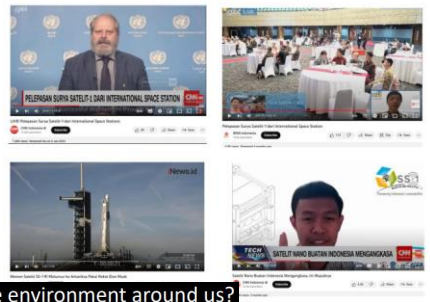
Ellas construyen el satélite guatemalteco

Conozca a las siete estudiantes que participan en el proyecto del CubeSat.

"No debemos envidiarle nada a los hombres"

"Aprendemos a trabajar en equipo y cumplir metas"

Exposure and Engagement



Launch and Deployment Event from mainstream media
> 1,000,000 views
> 2300 comments

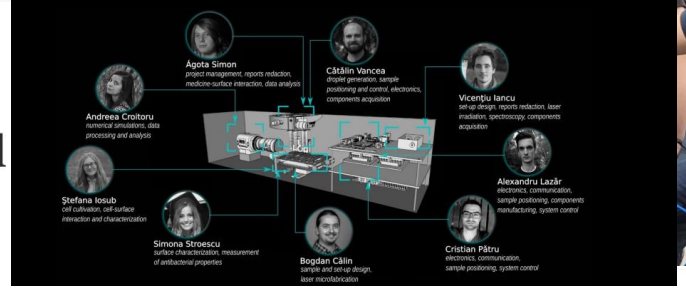
HyperGES and community impacts in Thailand

- Students stepping out of comfort zone
- Expand space biology research opportunity and awareness
- Collaboration with top organizations
- Government research grant opportunity
- Preparation for space economy through space ecosystem development in Thailand

SCIN Faculty of Science Mahidol University, TH

How has participating in DropTES changed the environment around us?

- Progress in our scientific knowlegde
- New connections
- SPIE Optics and Photonics Education Scholarship
- Best Student Presentation at ISCP-INDLAS 2018 international conference (Alba Iulia, RO)
- New project opportunities: Long-term microgravity studies



New enrollment in Mechanical Engineering at UVG **grew 176%** in 2020

Now these new students ask when are they going to send to space **Quetzal-2**?

3.How has participating in DropTES changed the environment around you?

Aerospace, AI and Digital Centre

ESPITA was able to grow ,to expand by inauguration **AEROSPACE, AI AND DIGITAL CENTER** on July 2022

Guatemalan team launches nation's 1st CubeSat, wins Interplanetary Initiative prize

International student team recognized for its success through adversity

June 6, 2022

When members of the team that built the Quetzal-1 CubeSat watched their satellite take off on a SpaceX Falcon 9 rocket in 2020, it was the culmination of six years of hard work, overcoming financial and personnel hurdles, and challenging cultural barriers.

The Aerospace Laboratory at UVG

- New generation of students continue working on developing technologies for CubeSats in the aerospace laboratory at UVG
- The laboratory receives continuous visits from schools
- Other space missions:
  - DSRG: pieces manufactured for this experiment launched in Artemis I
  - Space Biofilms

Access to Space for All
Opportunities

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HANDS-ON

HYPERGRAVITY/ MICROGRAVITY

- DLR ZARM DropTES
- esa HyperGES

→ Suborbital and parabolic flights

- Bartolomeo — AIRBUS
- China Space Station — CMS
- Dream Chaser — SIERRA SPACE

SATELLITE DEVELOPMENT

- PHI — canSATs

- KiboCUBE — JAXA
- Vega-C — AVIO

SPACE EXPLORATION

- ISONscope
- Ground Analogues

→ Beyond GEO

EDUCATION

- Systems Engineering Webinar Series — NASA
- Kibo-RPC — JAXA
- PNST — MEXT — Kyutech
- KiboCUBE Academy — JAXA — UNISEC

Access to Space for All
Satellite Development Track

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Payload Hosting Initiative (PHI)

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MOHAMMED BIN RASHID SPACE CENTRE

- Partner: Mohammed Bin Rashid Space Centre (MBRSC)
- Established: 2021
- Aim to provide opportunities for **hosting a payload (up to 5U) on a 12U PHI modular satellite platform** developed by MBRSC.
- Opportunity in the 2nd round: **up to Two awardees** each provide a payload with a **maximum size of 3U**. The maximum combined size of the two payloads to be selected will be **5U**.

1st round Awardees

- National Space Science Agency, Bahrain
  https://www.unoosa.org/oosa/en/ourwork/access2space4all/awardees/bahrain_nssa.html

NSSA
الهيئة الوطنية لعلوم الفضاء
National Space Science Agency

- Antarikchya Pratisthan Nepal, Nepal
  https://www.unoosa.org/oosa/en/ourwork/access2space4all/awardees/nepal_apn.html

Access to Space for All
Awardees

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Our Work > Access to Space for All

ACCESS TO SPACE FOR ALL

A joint initiative to offer access to space research facilities, infrastructure and information ... to promote international cooperation in ... uses of outer spa...

For Member States | Partnerships | Awardees | Contributi... | Brochure

Hypergravity/Microgravity Track | Satellite Development Tra... | Space Exploration Track

Workshops and Expert Meetings

Access to Space for All Latest Information

EVENT Access to Space for All will hold a hybrid side event at the 66th session of COPUOS on 31 May 2023, read more (26 May 2023)

EVENT KiboCUBE will hold a hybrid side event at the 66th session of COPUOS on 2 June 2023, read more (26 May 2023)

EVENT 1st Access to Space for All Expert Meeting has been held on 15-17 May 2023 online, read more (17 May 2023)

NEWS UNOOSA and ESA announced the 2nd round HyperGES awardees on 8 May, watch here (8 May 2023)

Access to Space for All Awardees

Through the various programmes under the initiative, UNOOSA has awarded opportunities to 30 awardees from all regions. The awardees conduct various activities, not only for the development of science and technology, but also outreach, education, and other impactful actions. Learn more about the teams and their space/related activities.

Our awardees

ACCESS TO SPACE FOR ALL
AWARDEE PAGE

Access to Space for All Awardees News

- Hypergravity/Microgravity track awardees
- Satellite development track awardees
- Space exploration track awardees

HYPERGRAVITY/MICROGRAVITY TRACK AWARDEES

- Bartolomeo Awardees
- China Space Station Awardees
- Dream Chaser Awardees
- DropTES Awardees
- HyperGES Awardees

SATELLITE DEVELOPMENT TRACK AWARDEES

- PHI Awardees
- KiboCUBE Awardees

Secretariat of COPUOS
Programme on Space Applications
UN-SPIDER
International Committee on GNSS
UN-Space
Space Law
Benefits of Space
Access to Space for All
For Member States
Partnerships
Opportunities
Awardees
Acknowledgement
Space Law for New Space Actors
Space for Persons with Disabilities
Space4Youth
Space4Water
Space4Women
World Space Forum
Worldwide Space Agencies
Capacity Building Activities

Any questions?

Contact us

✉ unoosa-access-to-space@un.org

Help us help
#AccSpace4All

For more stats and information, check out the brochure!

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