The Cooperation Programme between UNOOSA and JAXA on CubeSat deployment from the International Space Station (ISS) Japanese Experiment Module (Kibo) “KiboCUBE”

UNITED NATIONS
Office for Outer Space Affairs

What is KiboCUBE?

- A cooperation programme between United Nations Office for Outer Space Affairs (UNOOSA) and Japan Aerospace Exploration Agency (JAXA) which started from 2015, implemented under the Access to Space for All Initiative.
- Aims to provide educational or research institutions from developing countries with opportunities to deploy cube satellites (CubeSats) which they develop and manufacture from the International Space Station (ISS) Japanese Experiment Module (Kibo)

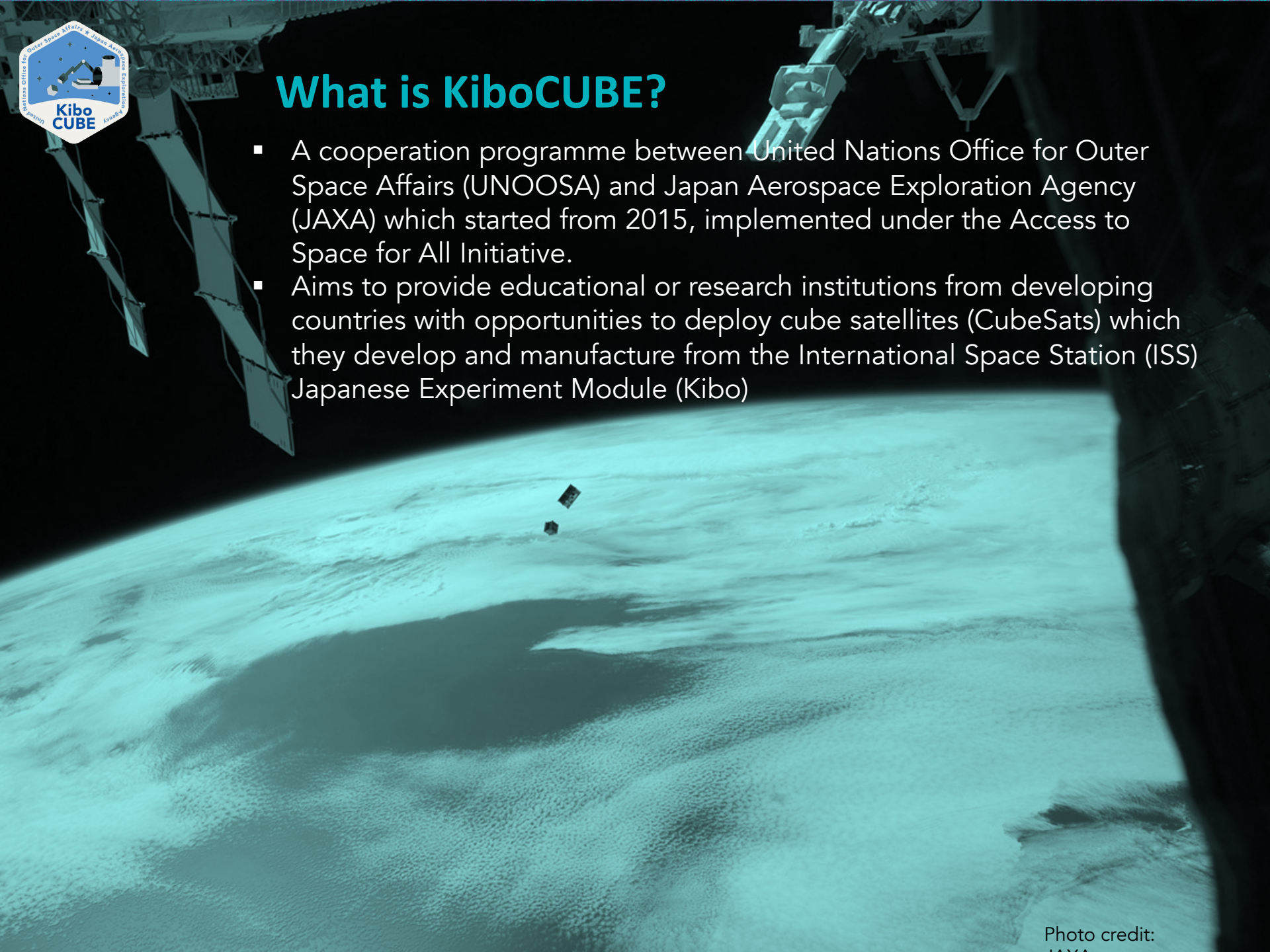
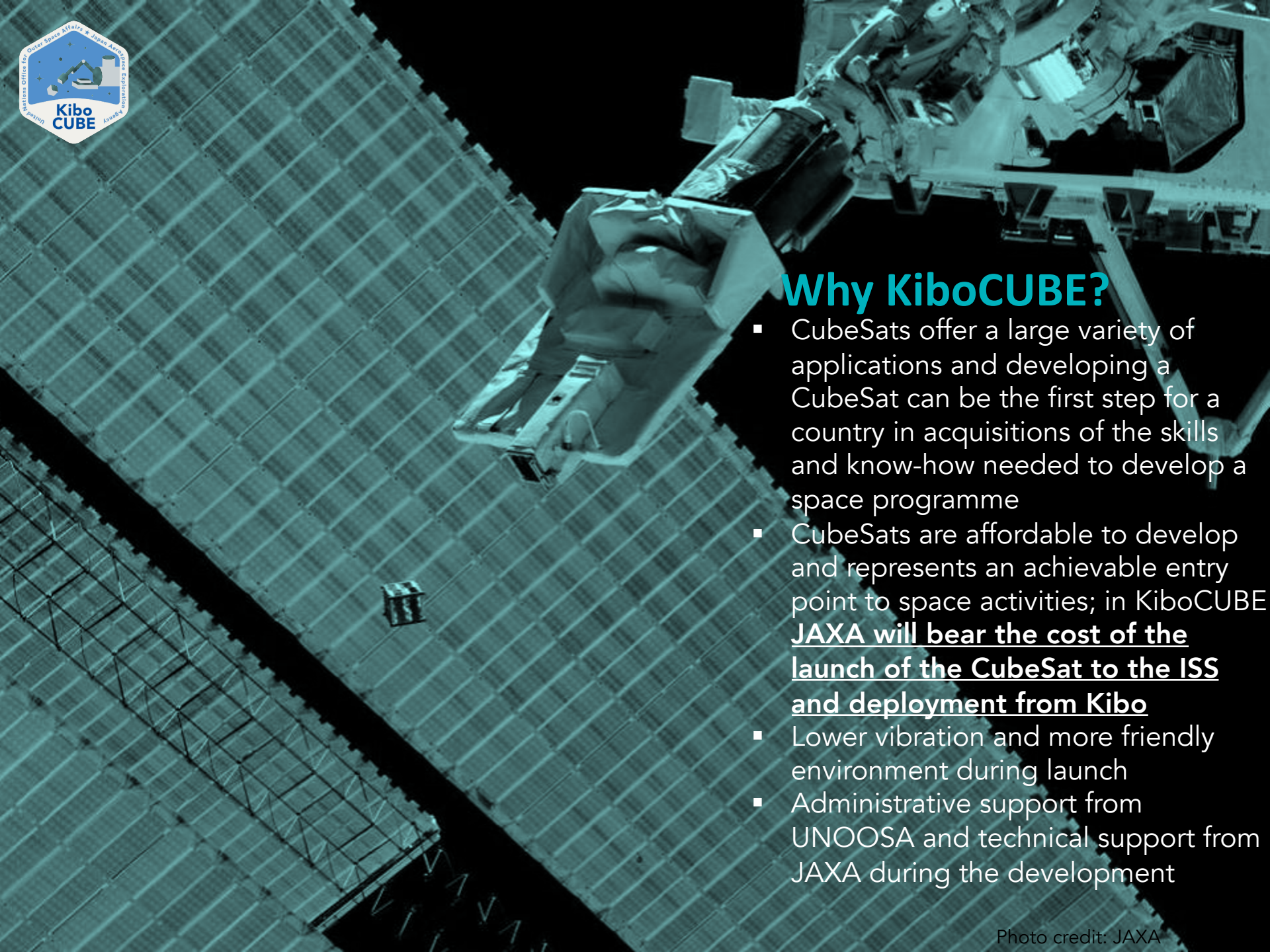


Photo credit:



Why KiboCUBE?

- CubeSats offer a large variety of applications and developing a CubeSat can be the first step for a country in acquisitions of the skills and know-how needed to develop a space programme
- CubeSats are affordable to develop and represents an achievable entry point to space activities; in KiboCUBE **JAXA will bear the cost of the launch of the CubeSat to the ISS and deployment from Kibo**
- Lower vibration and more friendly environment during launch
- Administrative support from UNOOSA and technical support from JAXA during the development

Photo credit: JAXA

KiboCUBE for Sustainable Development Goals (SDGs)

KiboCUBE may contribute to the SDGs below by fostering innovation and supporting education and training on skillsets for developing cutting-edge technology.

SDG4 "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all";

SDG 8 "Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all"

SDG 9 "Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation"

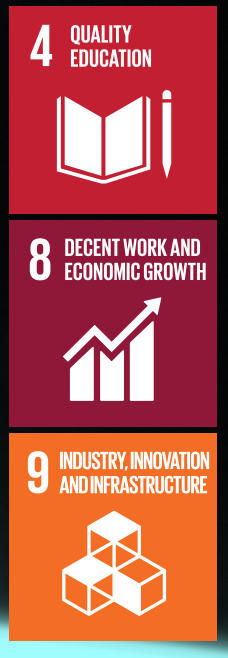


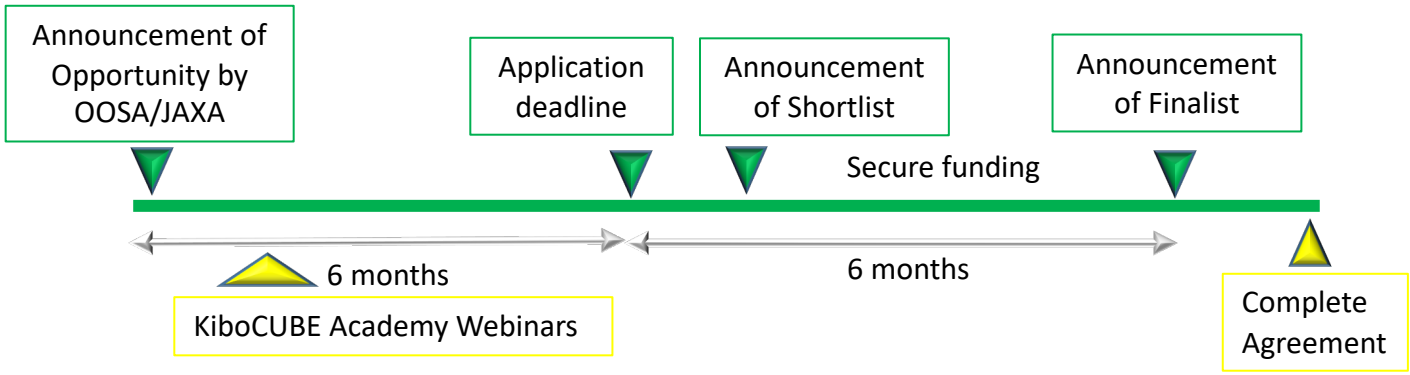
Photo credit: JAXA

Previous Winners

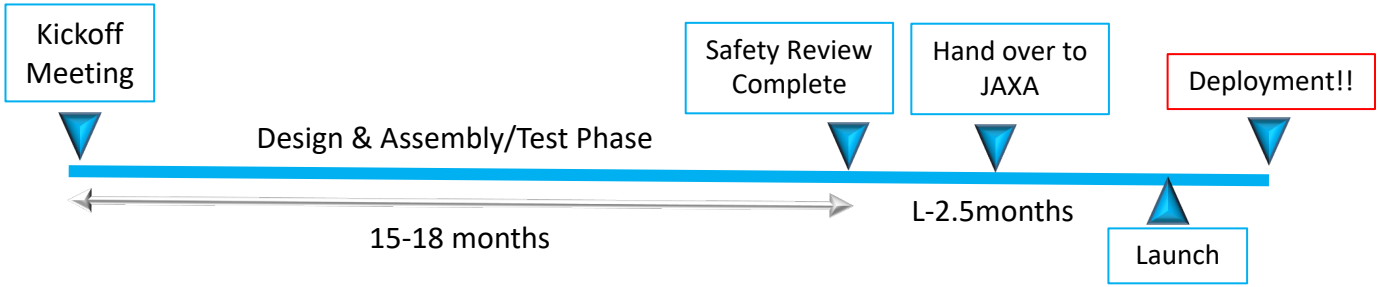
	Winner	Objective	Deployed	Launched	Selected
1st round	KENYA: University of Nairobi ”1KUNS-PF”	To monitor agriculture and coastal areas	11.05.2018	04.2018	08.2016
2nd round	GUATEMALA: Universidad de Valle De Guatemala ”Quetzal-1”	To acquire remote sensing data for natural resource management	29.4.2020	03.2020	09.2017
3rd round	MAURITIUS: Mauritius Research Council ”MIR-SAT 1”	To collect thermal infrared images and to test onboard communication	Currently under development		06.2018
3rd round	INDONESIA: Surya University ”SS-1”	To demonstrate remote communication	Currently under development		09.2018
4th round	MOLDOVA: Technical University of Moldova ”TUMnanoSAT”	To demonstrate technology and test various components	Currently under development		06.2019
5th round	SISTEMA DE LA INTEGRACIÓN CENTROAMERICANA ”MORAZAN-SAT”	To monitor weather variables in remote areas providing early warning during extreme weather events	Currently under development		12. 2020

KiboCUBE Milestone

Selection Schedule (around 12months)



Development Schedule (around 18months)

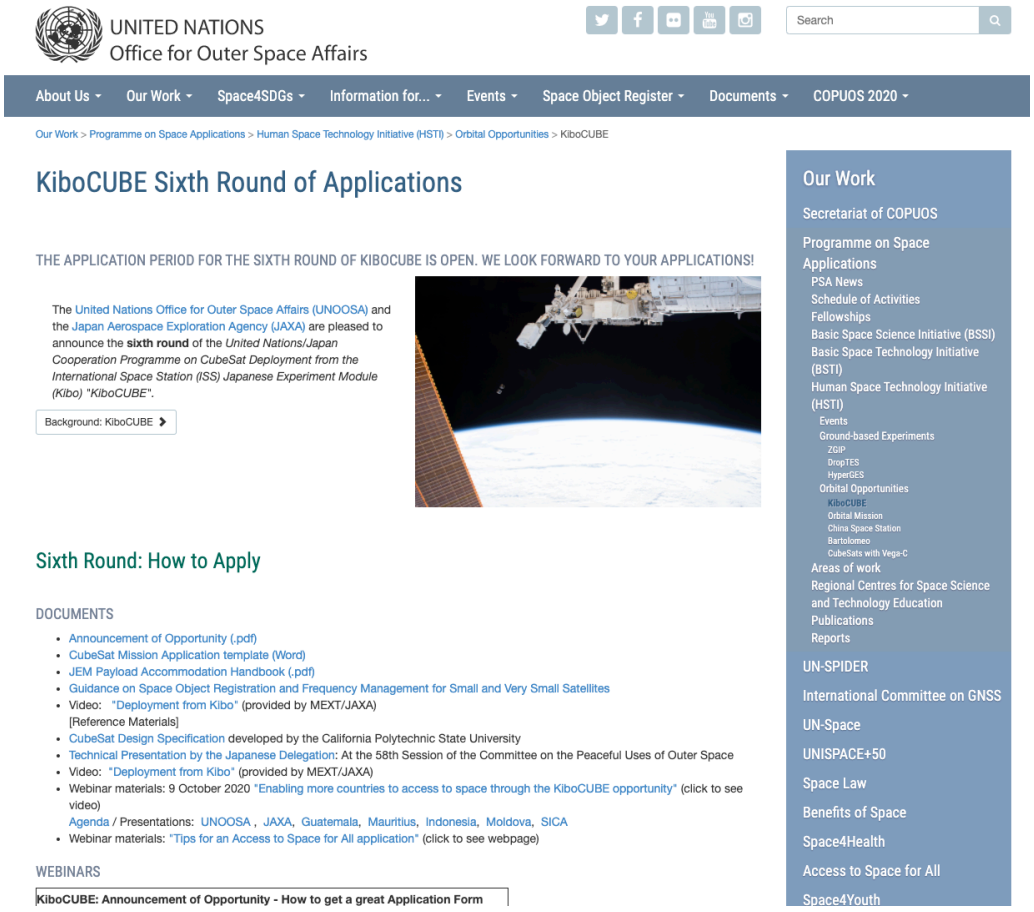


How to apply for the 6th Round of KiboCUBE

- **<u>Application Submission Deadline: 31 May 2021</u>**
- Selection and notification of shortlisted: Middle of July 2021
- Updated application submission: 31 October 2021
- Final selection and notification of winner(s): 1 December 2021

Find the documents at https://www.unoosa.org/oosa/en/ourwork/psa/hsti/kibocube/kibocube/2020.html

Join us in the KiboCUBE Academy Technical webinars to be held in early 2021!



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KiboCUBE: THE COOPERATION PROGRAMME BETWEEN UNOOSA AND JAXA ON CUBESAT DEPLOYMENT FROM THE INTERNATIONAL SPACE STATION (ISS) JAPANESE EXPERIMENT MODULE (Kibo)

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THANK YOU!

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