



KENYA SPACE AGENCY

Panel 6: : United Nations Access to Space for All initiative
Kenya's perspectives and lessons Learnt

30th Workshop on Space Technology for Socio-Economic Benefits:
"Challenges and Capacity-building Opportunities for Emerging Space Nations"

Friday 29 SEPTEMBER 2023 (16:45-17:45)

Presentation By: Mr. Charles Mwangi - Kenya Space Agency

Kenya Space Agency

- ▣ Kenya Space Agency (KSA) established as a State Corporation on **24th February 2017**.
- ▣ **Mandate**
 - Promote, Coordinate and Regulate space related activities
- ▣ **Vision**
 - To utilize space for Kenya's economic and social development
- ▣ **Mission**
 - To develop and nurture a vibrant and viable domestic space industry





Access to Space for All Initiative

▣ Satellite Development Track

- CubeSat Deployment from ISS Japanese Experiment Module "KiboCUBE" (2016)
 - 1st Kenyan University Nanosatellite (1KUNS) launched in 2018

▣ Hypergravity/Microgravity Track

- Accessing Space with the ISS Bartolomeo Platform (Oct 2021)
 - Climate Camera (ClimCam): Collaboration between Egypt & Uganda - Dev't in progress

▣ Space Exploration Track

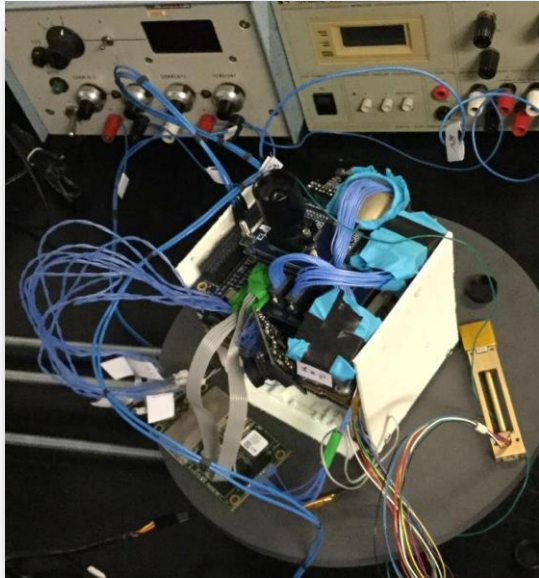
- ISONscope Telescope initiative - Keldysh Institute of Applied Mathematics (Dec 2021)
 - Kenya Space Observation and Research Telescope (K-SORT) – Groundworks in progress

▣ Space Law for New Space Actors – Technical Advisory Mission (Apr 2023)

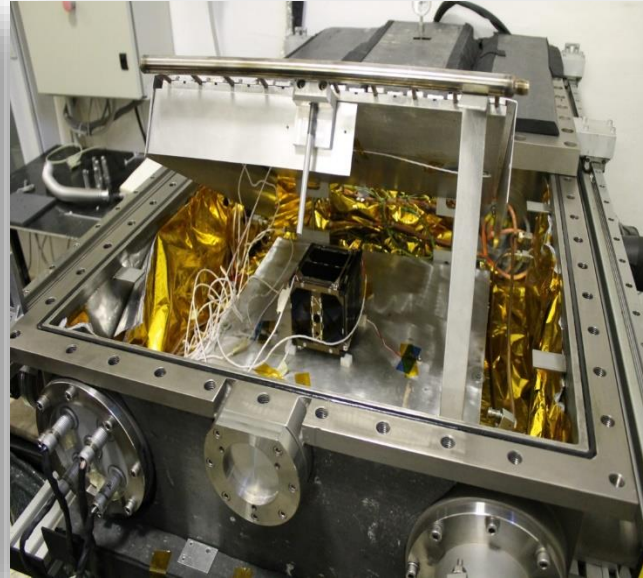
- *Project assists States to draft or revise their national space law and/or policy to be in line with the international normative frameworks applicable to outer space activities*

1KUNS-PF (Development & Launch)

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Development



Testing

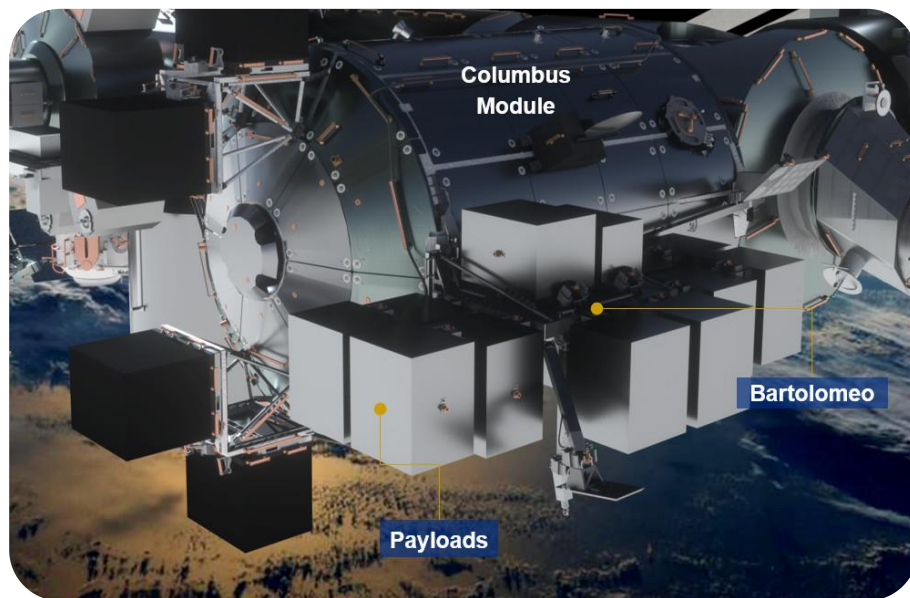


Launch

ISS Bartolomeo Opportunity

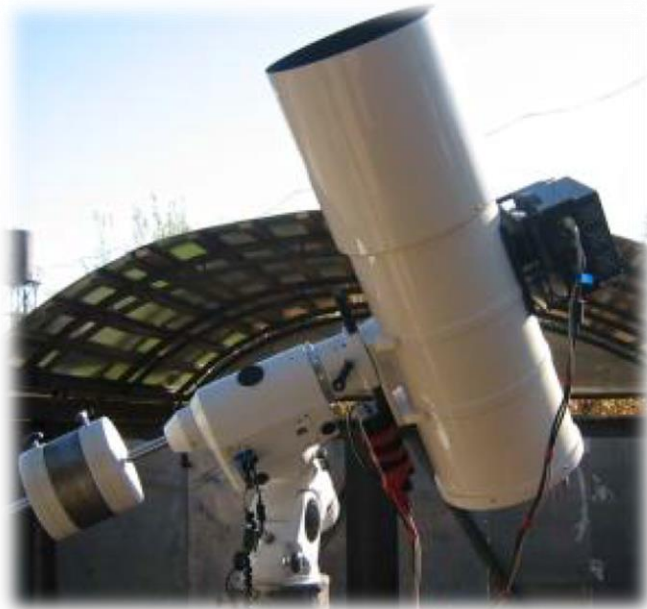


Award Ceremony for Egypt-Kenya-Uganda Climate Camera

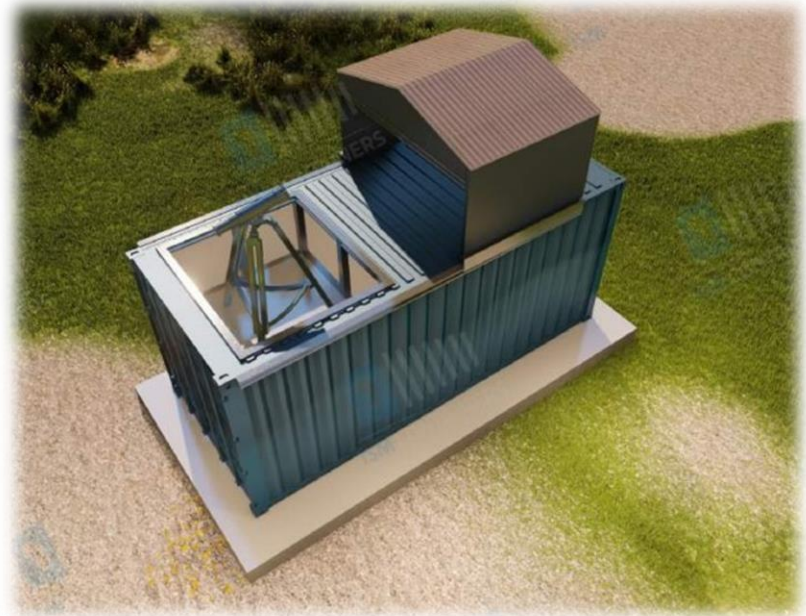


Airbus Bartolomeo Platform on the International Space Station

ISONscope Telescope Opportunity



Optical Telescope (20cm)
Source KIAM



Telescope Shelter – Kenyatta University,
Kitui Campus, Kenya



Lessons for Access to Space for All

- ❑ Creating a Buzz and excitement on Space...
 - Space appears and within reach... especially for developing countries
- ❑ Building indigenous human capacity in space disciplines in developing countries
 - Satellite Engineering (KiboCUBE and ISS Bartolomeo opportunity)
 - Space Science (ISONscope)
 - Space Law for New Space Actors
- ❑ Opportunities to collaborate and access to equipment (hardware & software) as well as space-related infrastructure
- ❑ Technology transfer and support from international partners enabling the developing countries to grow their indigenous space sector.
- ❑ Foundational step in promoting and encouraging the uptake of STEM subjects in schools to guarantee the future of the space industry



Thank You

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