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 (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)

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