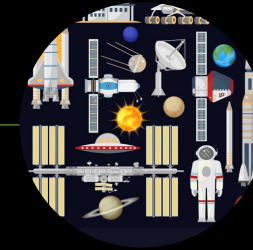


Space Technology in Egypt

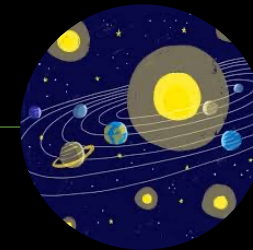




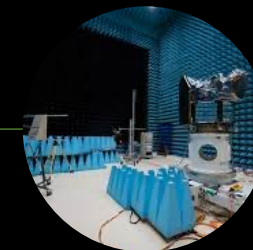
Space Technology Development



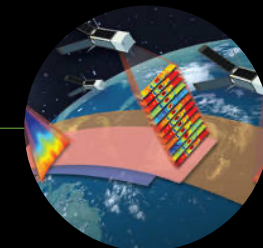
Space Awareness



Space Services

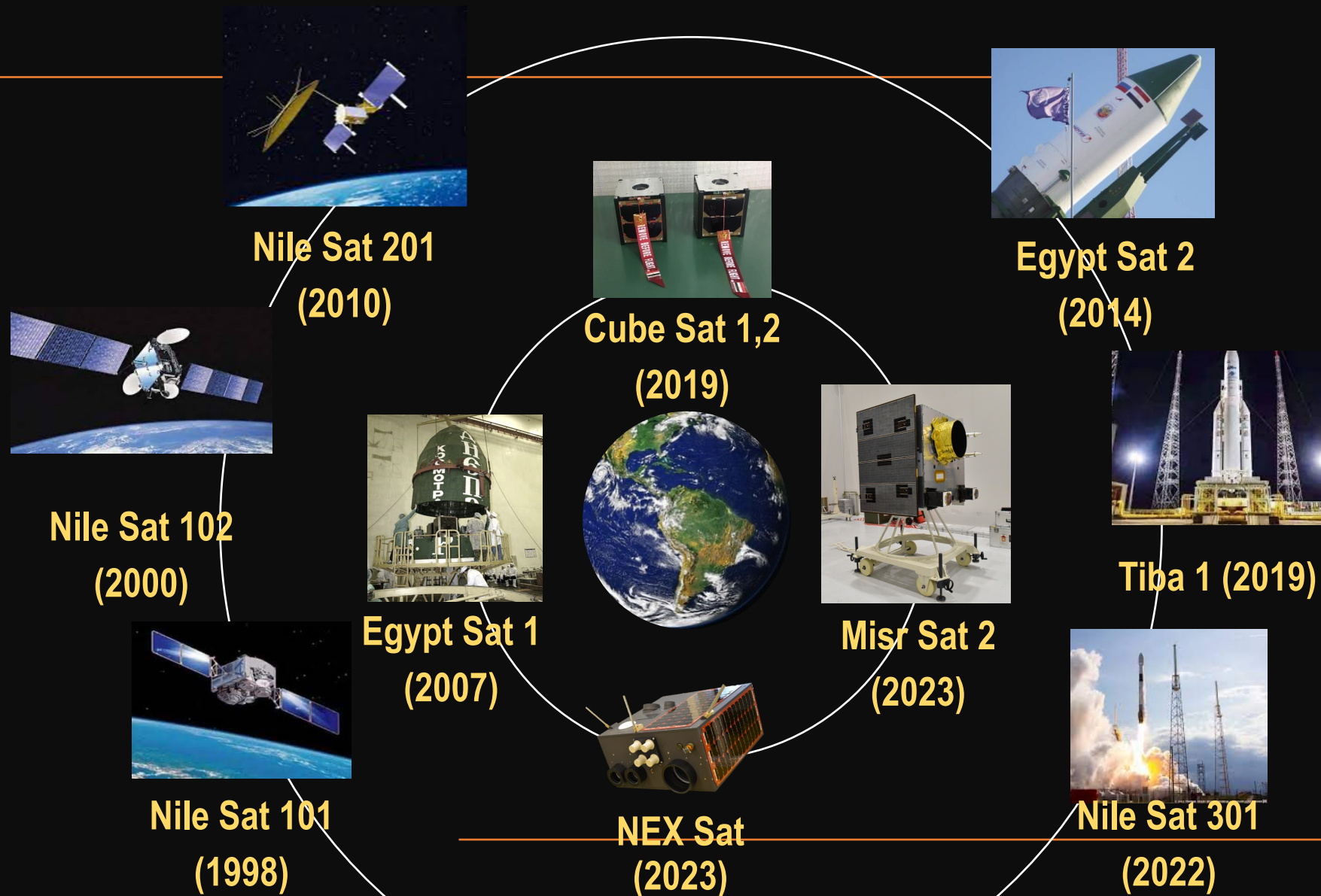


Space Applications



Established in 2018

Different Generations of Egyptian Satellites





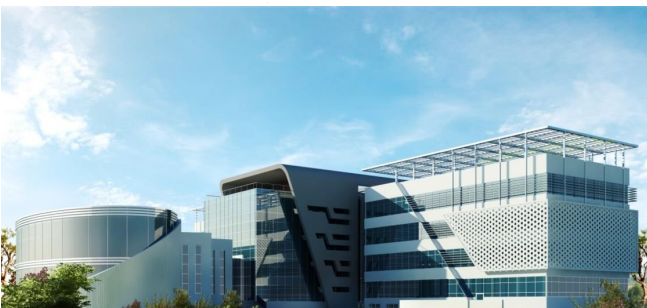
Space City

123 Acers

Space Technology Buildings will be Completed by Mid 2023



Stores and Maintenance Facility



Egyptian Space Agency



Hotel



Assembly, Integration & Testing



African Space Agency



Space Academy



Control Center



Research & Development Labs



Administration Building

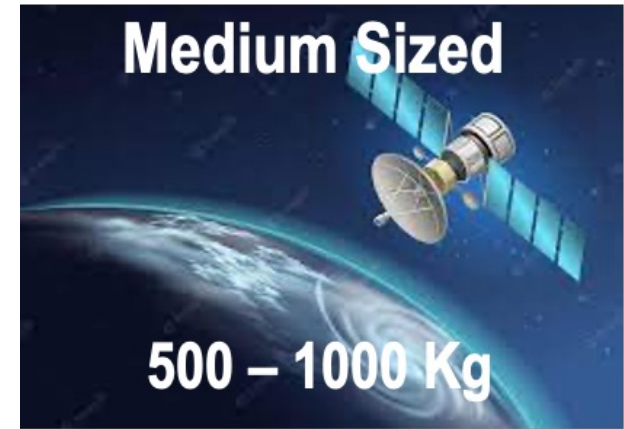
2025 - 2030

Large Satellite



> 1000 Kg

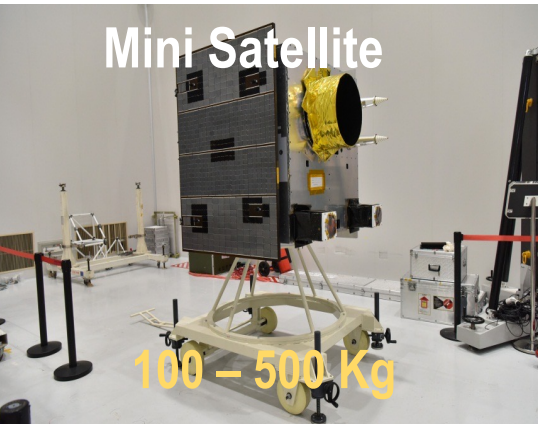
Medium Sized



500 – 1000 Kg

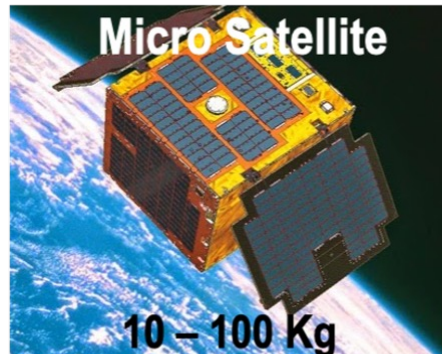
Development of Satellite Technology

Mini Satellite



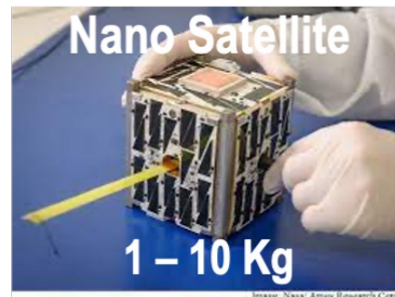
100 – 500 Kg

Micro Satellite



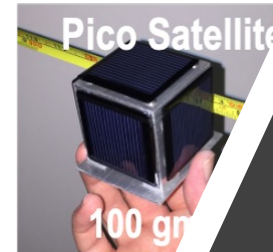
10 – 100 Kg

Nano Satellite



1 – 10 Kg

Pico Satellite



100 gr

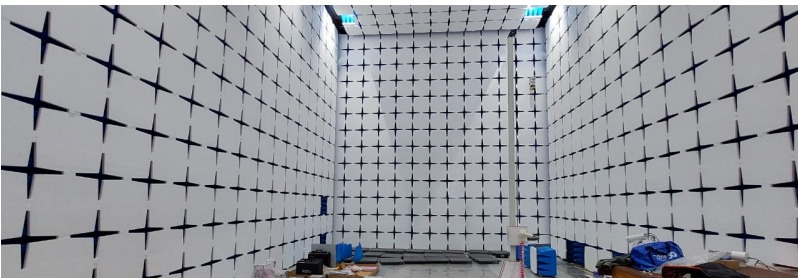
2020 - 2025



**Shaker: Random, Sin and Shock
Vibration Tests**



**Thermal Vacuum Chamber for Satellite Environmental Testing Up to
600 Kg (Volume of Seattleite 1m³)**



**Anechoic Chamber for EM
Compatibility Up to 18 GHz**

Assembly Integration and Testing Center



Opto Electronics Lab



Thermal vacuum Chamber for Experimental Activities



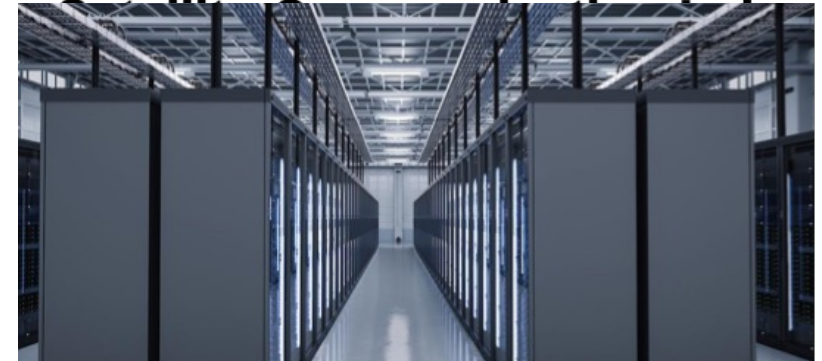
Satellite Communication Lab



Solar Cell Panel Testing Labs



Electronic Circuit Prototyping



Space City Data Center

Research and Development Labs



Universal Ground Control Stations

Control a Broad Range of Satellites
(Will be Ready by Q2 2023)

Missions to be Launched in 2023

NEX Sat 1 (Experimental Satellite)

Micro Satellite (68 Kg)
Launching Date: June 2023
Resolution: 5 m Panchromatic
Lifetime: 6 Months



Jointly Developed by German Partner

Misr Sat 2 (Operational Satellite)

Mini Sat (350 Kg)
Launching Date: Q4 of 2023
Resolution:

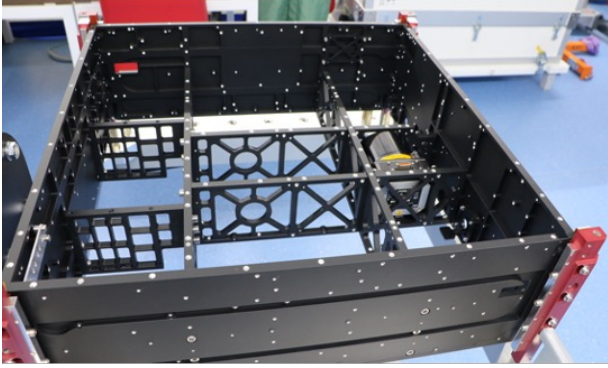
- 2 m Panchromatic
- 8 m Multispectral

Lifetime: 5 Years

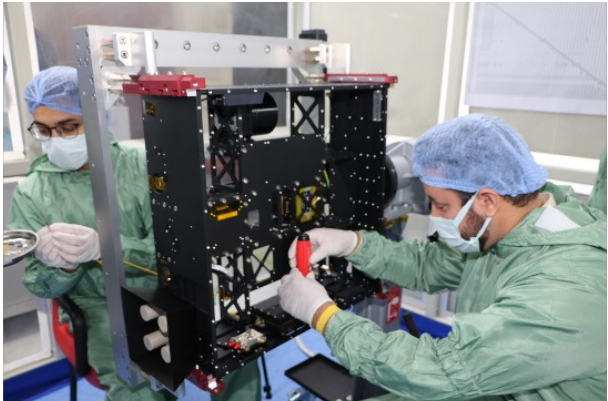


Jointly Developed by Chinese Partner

Assembly and Integration of NexSat 1



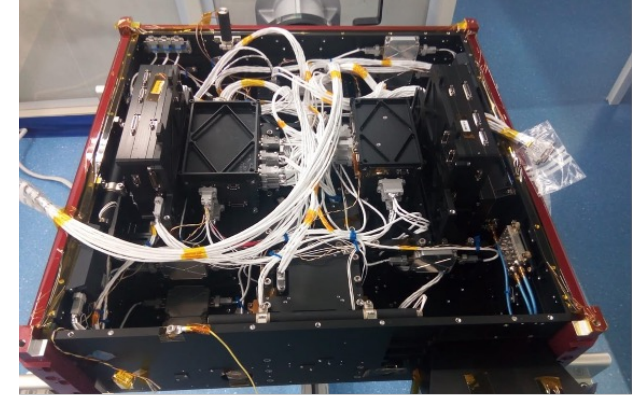
October 18, 2022



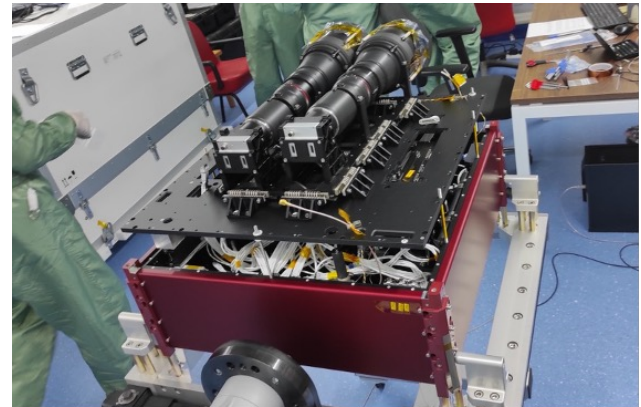
October 23, 2022



January 12, 2023



November 24, 2022

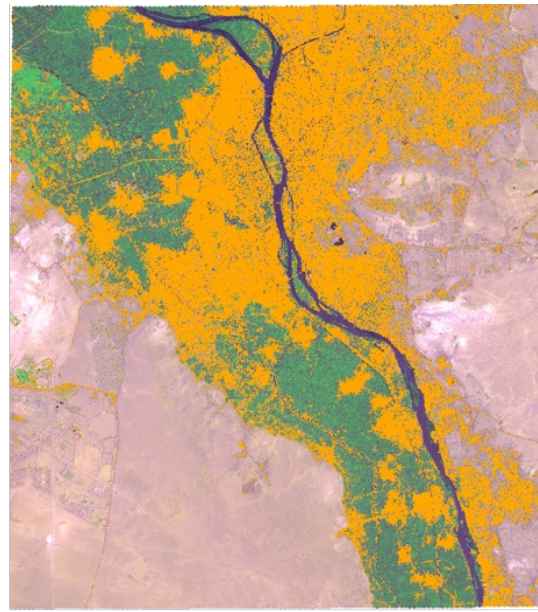


December 15, 2022

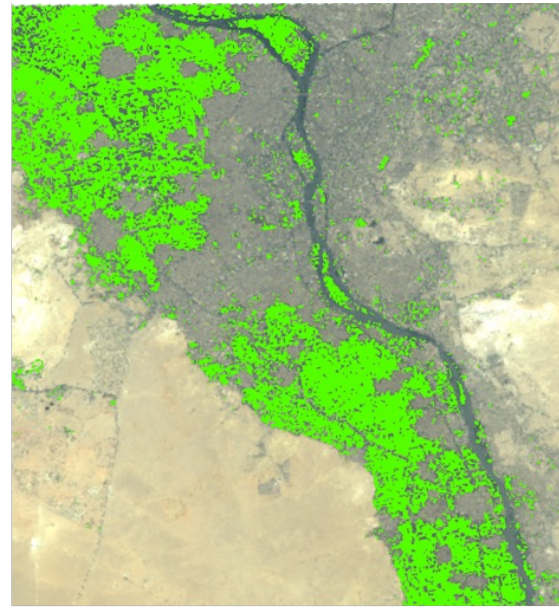
Applications for Misr Sat 2



Costal Line Extraction



Urban Land Use Monitoring



Agricultural Area Extraction



Water Body Extraction

Missions to be Launched in 2024

Nano Sat (13 Kg)

Launching Date: Q1 of 2024

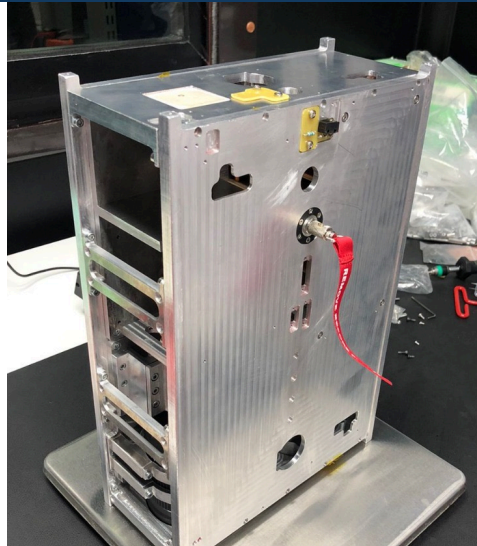
Resolution:

- 7 m Panchromatic
- 30 m Multispectral

Lifetime: 24 Months

Earth Observation

Fully Developed in Egypt



**African Development
Satellite**

Nano Sat (11 Kg)

Launching Date: Q2 of 2024

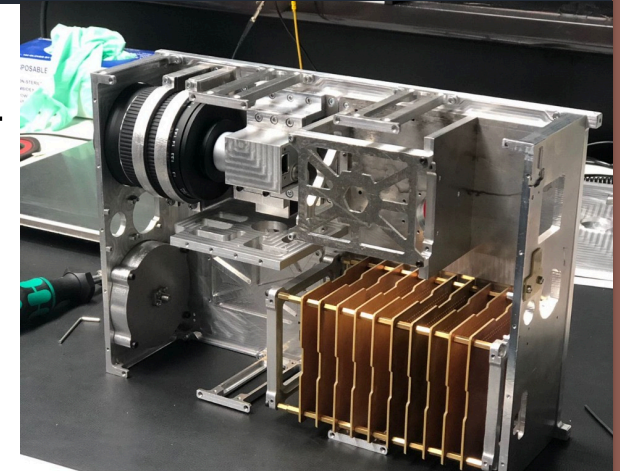
Resolution:

- 10 m Panchromatic

Lifetime: 24 Months

Studying Plasma in
Atmosphere

Fully Developed in Egypt



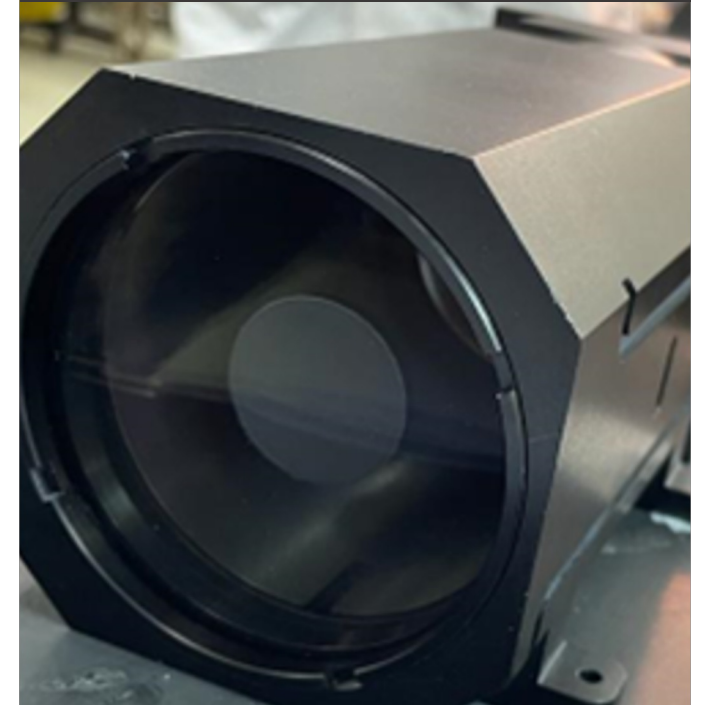
Spinex

Accessing Space with the ISS Bartolomeo Platform (Clim Cam)



AIRBUS

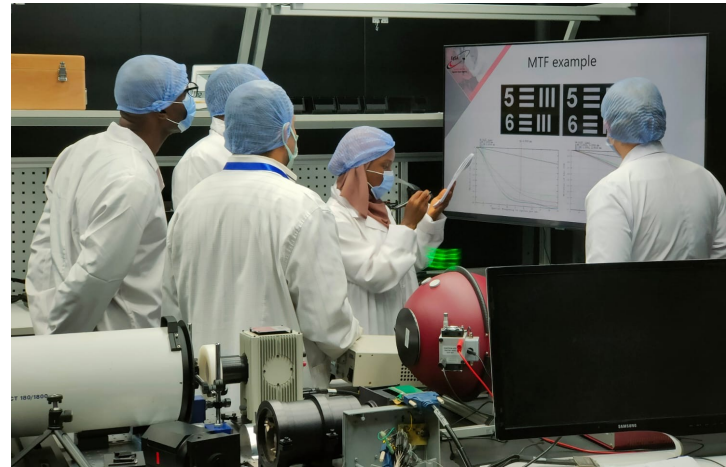
Bartolomeo is an application platform on board the European Columbus module of the ISS located on its outer shell- built by Airbus



Bartolomeo Mounted – Remote Sensing Camera System for Monitoring Weather, Floods, and Climate Change Effects in East Africa



Offering Training Opportunities to African Countries



EgSA Offered a Two Weeks Training to 16 Specialists from Eight Different African Countries



Gambia



South Africa



Nigeria



Sierra Leonean



Ghana



South Sudan



Tanzania



Zimbabwe



State Space Agency of
Ukraine



https://en.wikipedia.org/wiki/File:NSAU_Logo1.svg



International Collaboration



Visits to Schools



Astronomy Workshop



Mission Design Workshop



Space Dream Series for Kids

Space Awareness

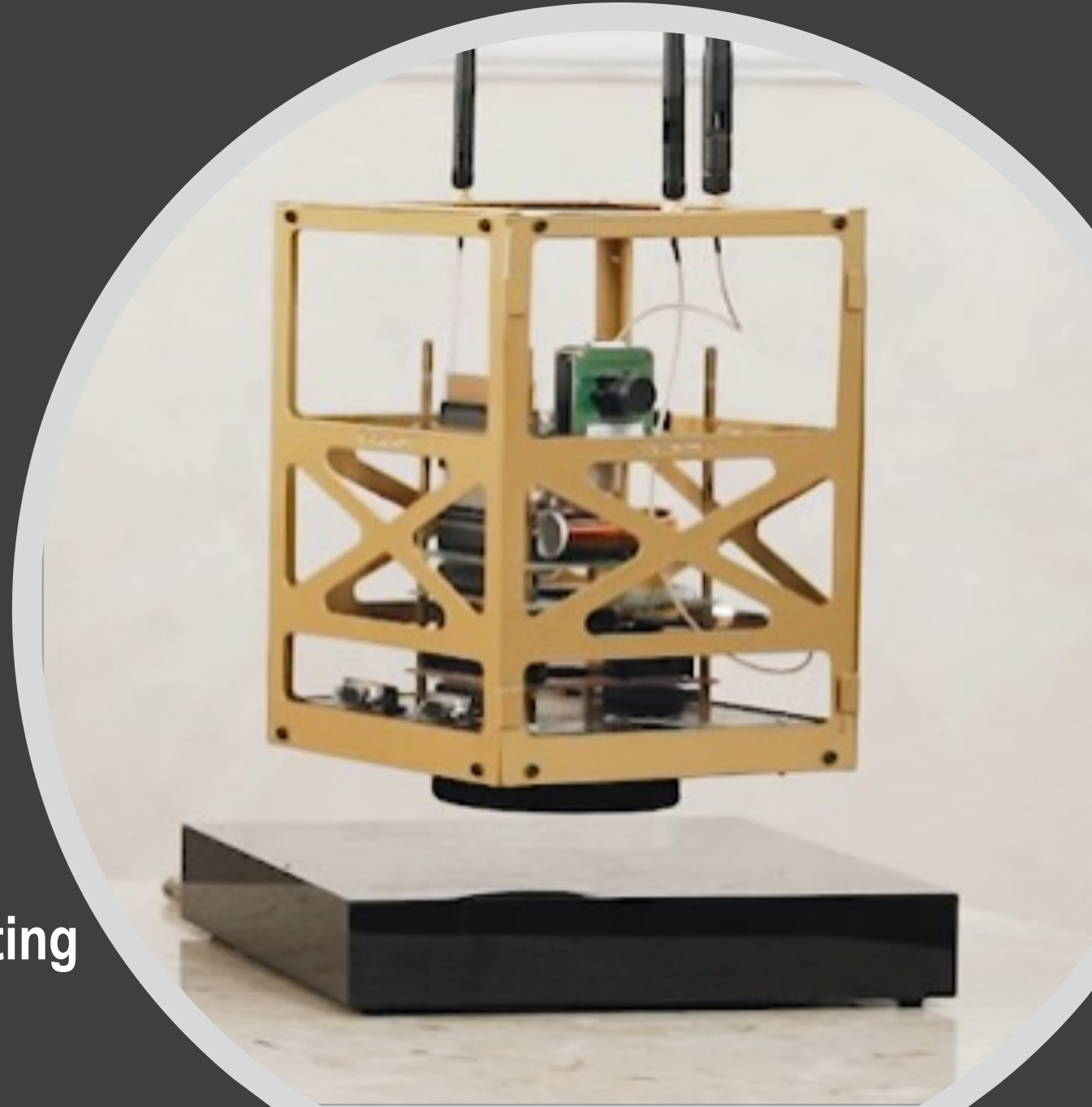
Space Capacity Building

Space Keys Platform

Cub Satellite Educational Platform

Used for Training Undergraduate Students Build, Test and Operate Different Satellite Subsystems

26 Different Universities are Benefiting out of this Program



Thank you

