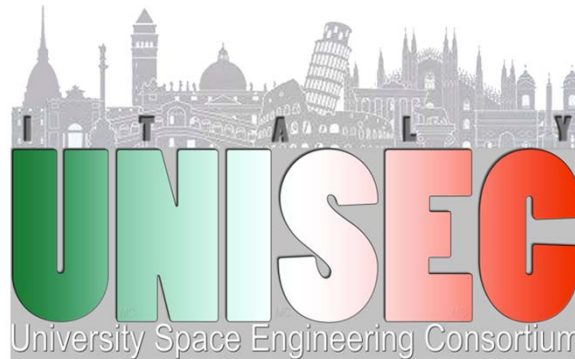


UNISEC ITALY



Presenter: Prof. Fabio Santoni

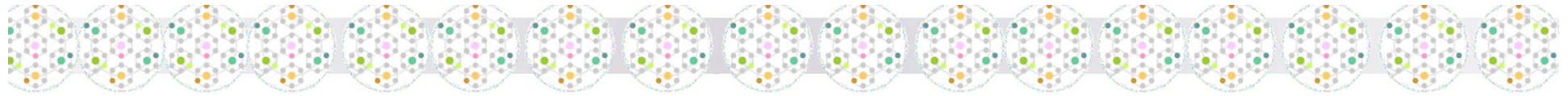


SAPIENZA
UNIVERSITÀ DI ROMA



7th UNISEC Global Meeting
Tokyo (Japan), 30 November – 3 December 2019





UNISEC Italy Consortium

During the 3rd UNISEC-Global Meeting in Tokyo (July 2015), Italy was accepted as new local chapter



LA SAPIENZA



UNIVERSITY OF BOLOGNA

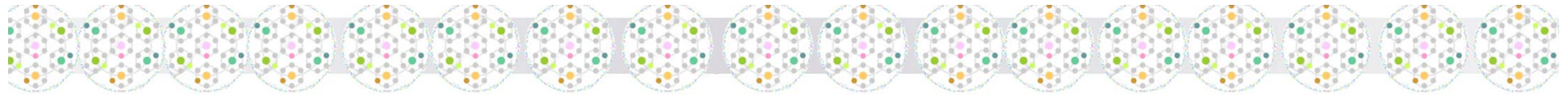


POLYTECHNIC OF TURIN



TOR VERGATA



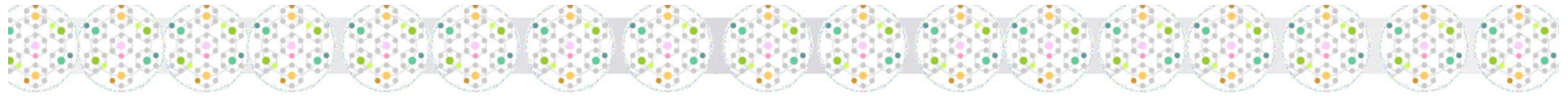


UNISEC Italy Activities

Nov 2018

- **6th UNISEC Global Meeting (19-21 November 2018) at**
- **ISU - Strasbourg**





UNISEC Italy Activities

Dec 2018

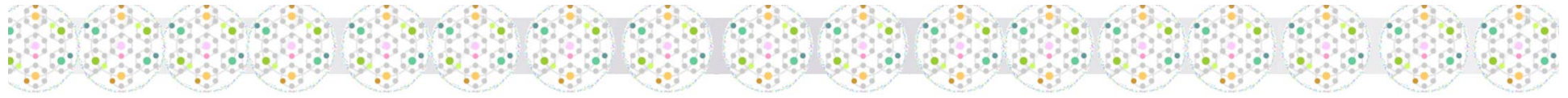
- Participation in:
- UNISEC Japan (Dec 2018, Hamamatsu, Shizuoka Prefecture, Japan)
- JAXA Space Debris Workshop (Dec 2018, Tokyo)

Proposal for:

GUSDON

Global University Space Debris Observation Network





UNISEC Italy Activities

Dec 2018

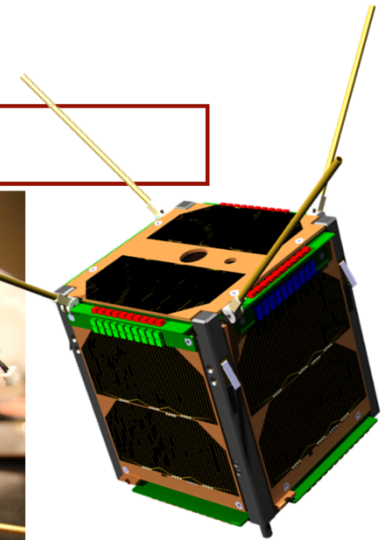
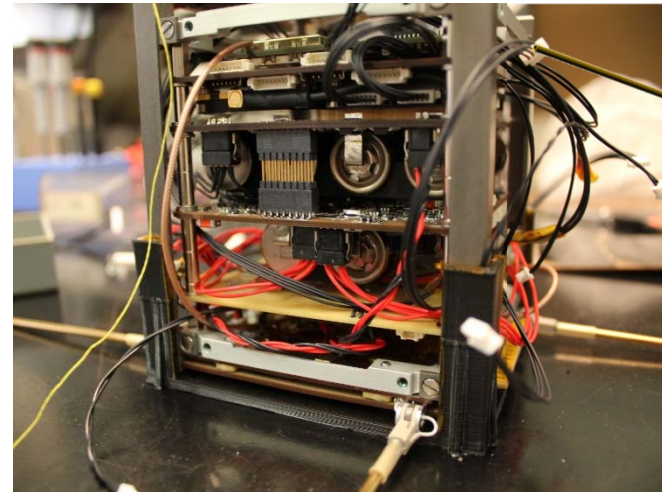
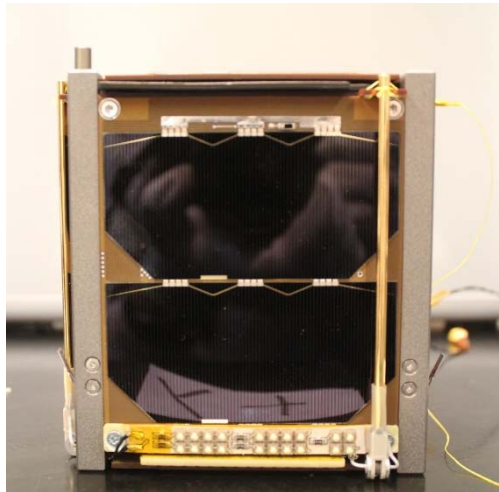
- **Team TARDIS is selected for the REXUS/BEXUS Programme**
- **In the team – three participants of last year's MIC HEMERA team**



UNISEC Italy Activities

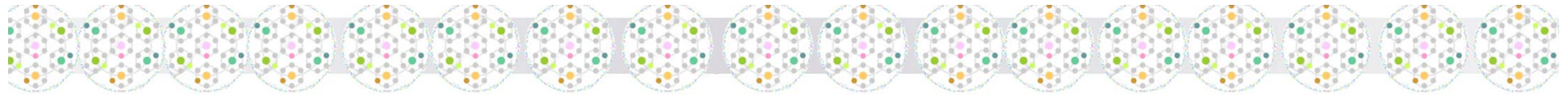
April 2019

- **Pre-assembly of LEDSAT PFM**



- **Participation into the ESA Ambient test phase kick-off workshop**

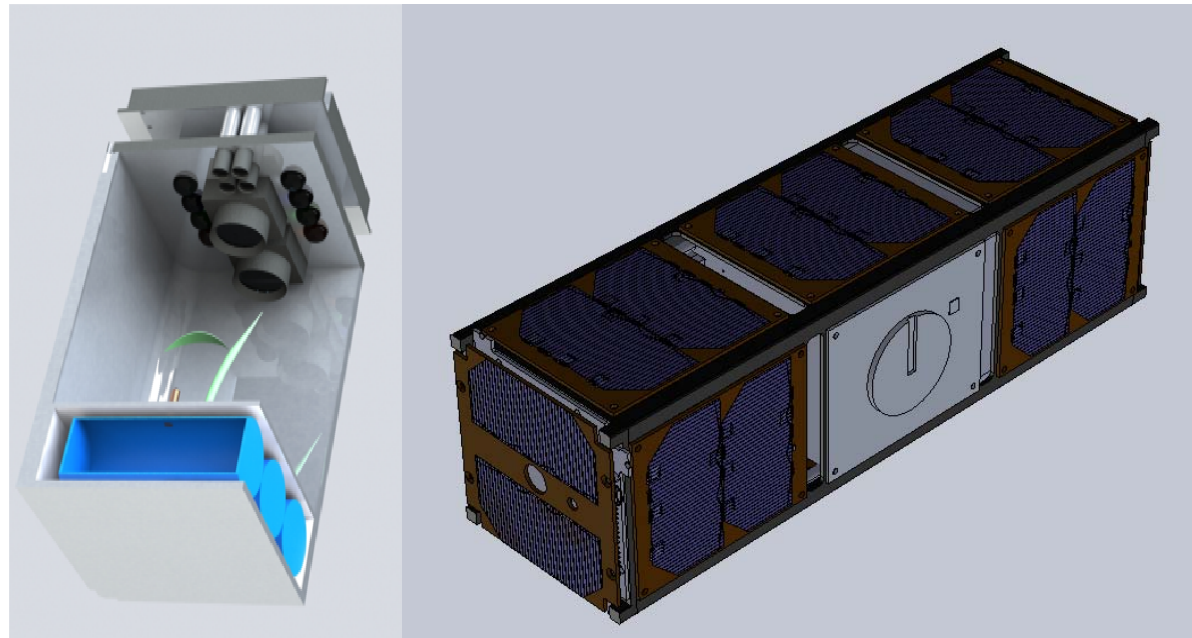




UNISEC Italy Activities

June 2019

- **ESA selects GREENCUBE for launch on-board the VEGA-C maiden flight – the project is born from the original PreMic5 MICROTOM satellite**
- The satellite is aimed at cultivating microgreens in a CubeSat



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UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



DIPARTIMENTO DI
AGRARIA

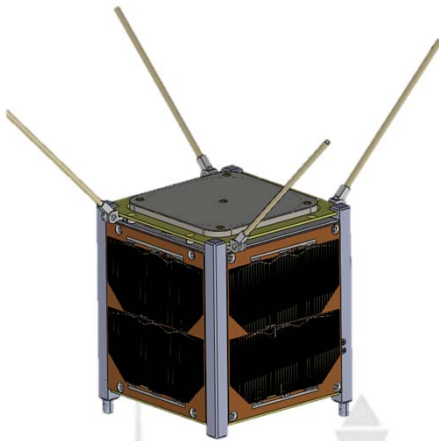
ENEA

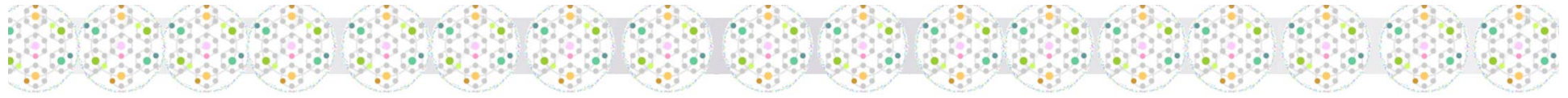


UNISEC Italy Activities

October 2019

- **IAF and GK Launch services select WILDTRACKCUBE-SIMBA for a free launch opportunity at the IAC2019**
- The satellite is aimed at improving wildlife tracking in Kenya, in collaboration with University of Nairobi and Machakos University

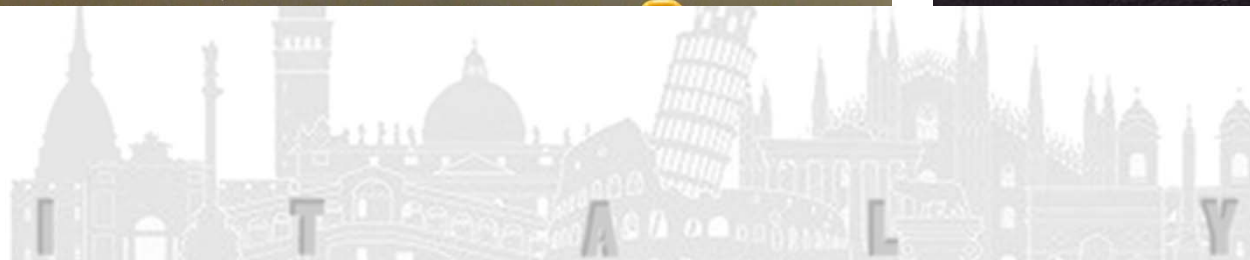


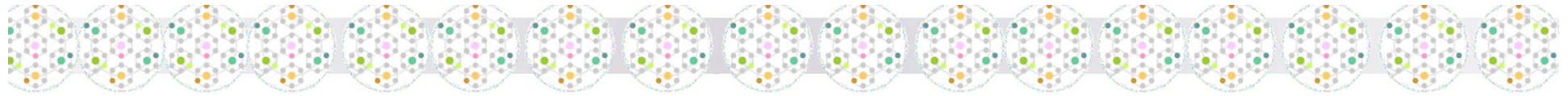


UNISEC Italy Activities

October 2019

- **TARDIS is launched during the BEXUS 28/29 launch campaign at Esrange Space Center, Kiruna**



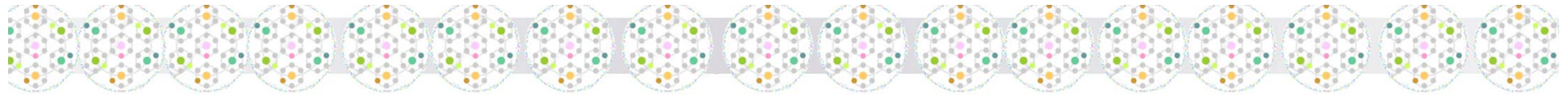


UNISEC Italy Activities

Nov 2019

- **Payload environmental tests for LEDSAT at ESA/ESEC-Galaxia (Belgium)**





UNISEC Italy Activities

Nov/Dec 2019

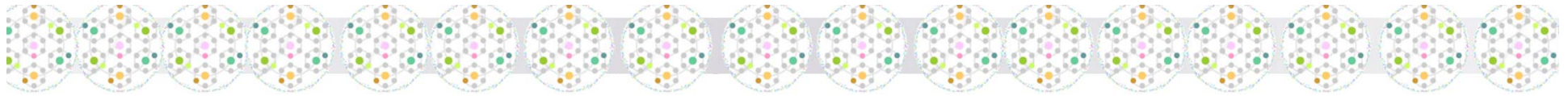
- **7th UNISEC Global Meeting – Tokyo, Japan**



The 7th
UNISEC-Global Meeting

- Two Italian Universities (Sapienza, PoliMi) selected for MIC!
- **«6th Space Debris Student Opportunities Workshop» at Sapienza University of Rome (Rome, Italy)**
- One of the best occasions to recruit new students for hands-on activities

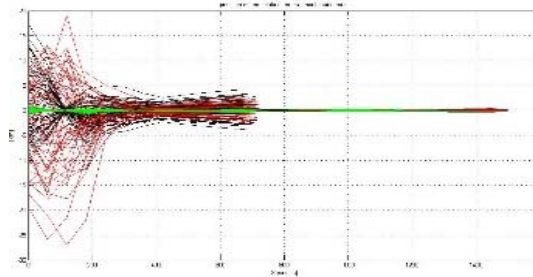
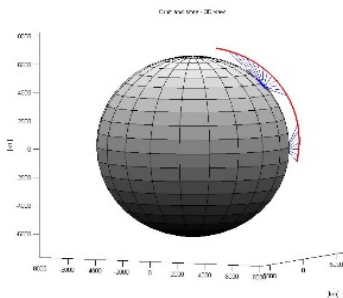




Space Debris-related Activities

EQUO (Equatorial Observatory for Space Debris)

Continuous tracking of LEO objects from Italy and Kenya



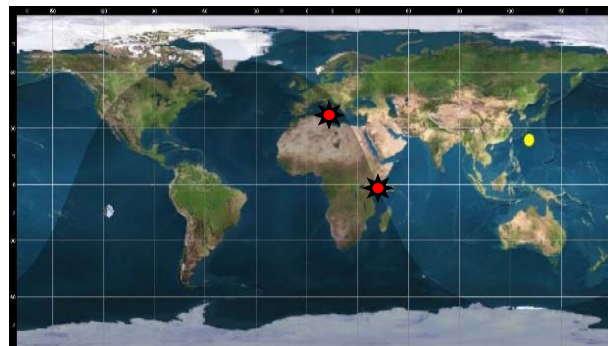
ALMASCOPE: 2010 Equatorial test campaign



- Telescope - 25 cm f/4 in Newtonian configuration
- CCD Kaf1600E sensor, 1024x1536 pixels, each pixel is 9x9 micron (total chip size 9.2x13.8 mm)
- Mount German equatorial
- The field of view is of about 1 degree



LEO High Inclination tracking from Italy and Kenya (Terminator Shape)



Scientific Optical Network



International Collaborations



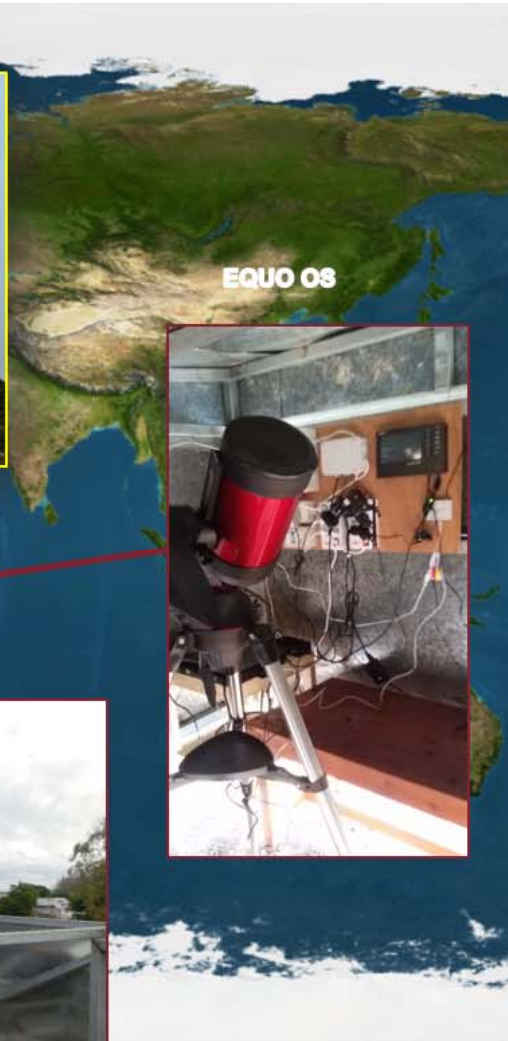
ANGELL HALL



ZIMMERWALD



TIRA (RADAR)



EQUO 08

EQUO 06



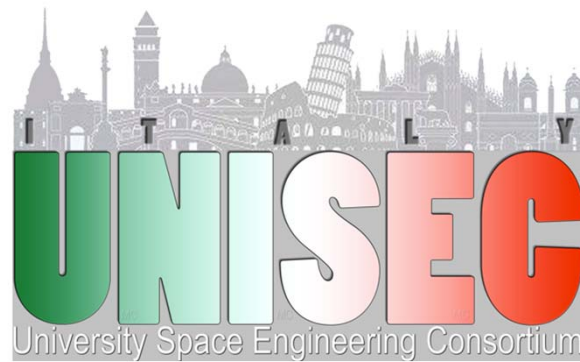
MODEST



MAGELLAN



Questions?



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