

# UNISON ITALY



Presenter: **Alice Pellegrino**



**SAPIENZA**  
UNIVERSITÀ DI ROMA



**5th UNISEC Global Meeting – Student Presentation**  
Rome (Italy), 3rd of December 2017



# UNISON Italy



ALMA MATER STUDIORUM  
UNIVERSITA DI BOLOGNA



## Universities Representatives

- **Rome:** Prof. Santoni
- **Bologna:** Prof. Tortora
- **Turin:** Prof. Corpino

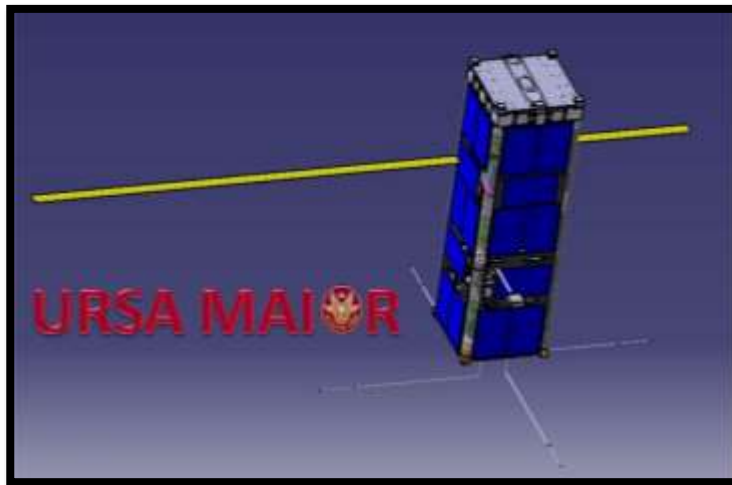
## Student Representatives

- **Rome:** Alice Pellegrino
- **Bologna:** Marcello Valdatta
- **Turin:** Luigi Mascolo

# UNISON Italy Working Groups



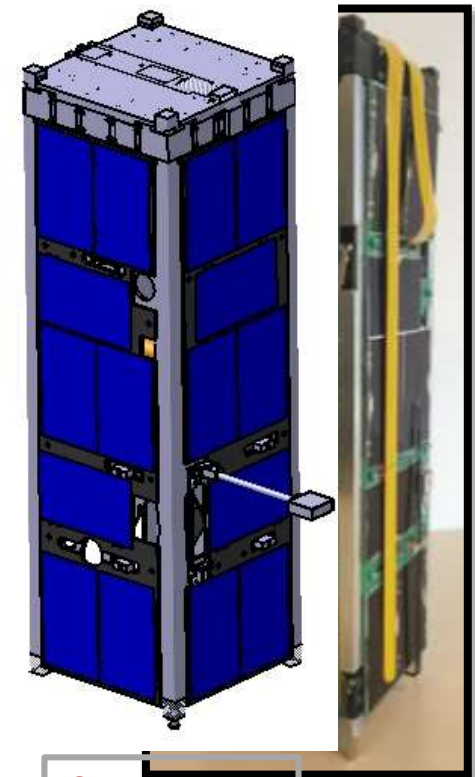
CubeSat Team: URSA MAIOR 3U CubeSat



QB50 PROJECT



**Launched in June 2017!**



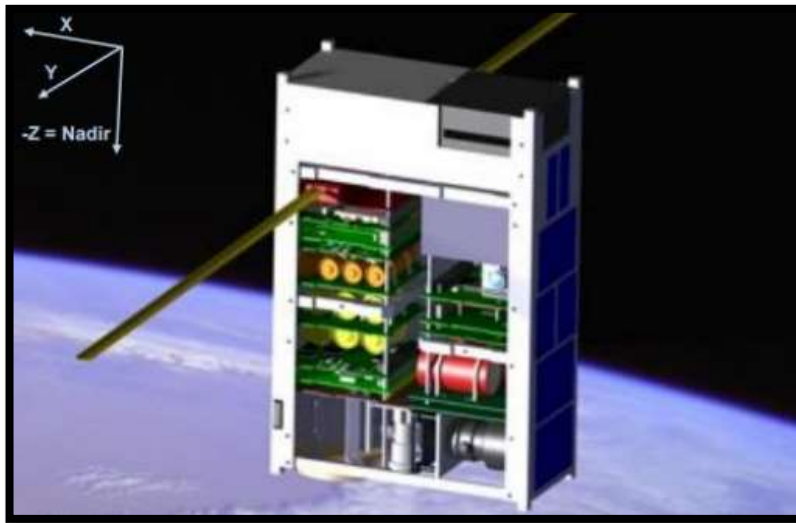
CAD Model

Flight Unit

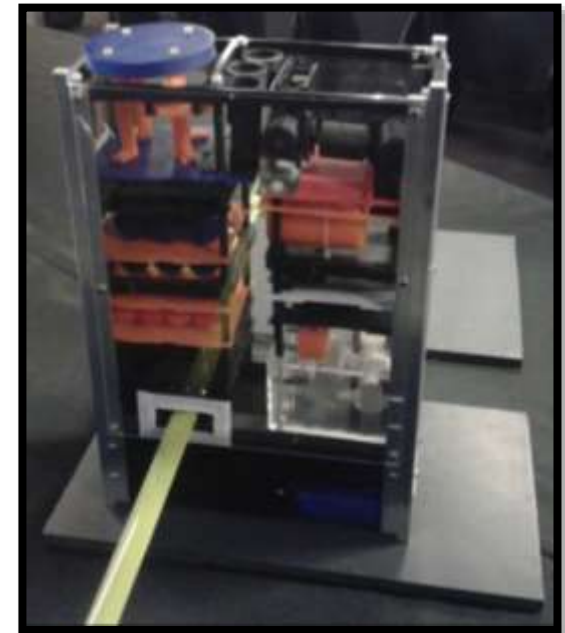
# UNISON Italy Working Groups



## CubeSat Team: IKUNS 6U CubeSat



University nanosatellite developed in support of the **Italian-Kenyan cooperation in space activities**, part of an agreement between Sapienza – University of Rome and the Italian and ASI



**3D-printed Mock-Up**

# UNISON Italy Working Groups

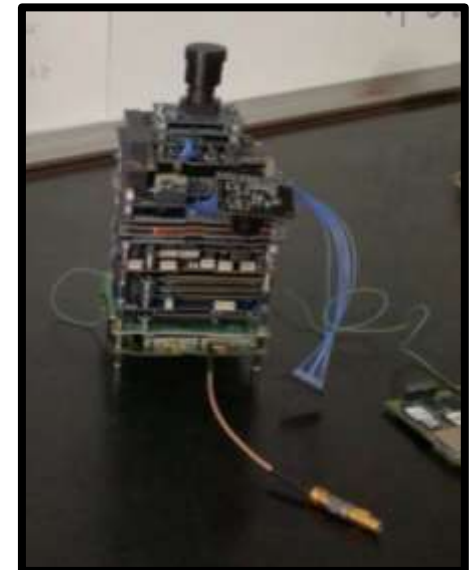


## CubeSat Team: EAGLET 2U CubeSat

Support provided from the UNISON Italy students to the development of the **2U CubeSat bus** for the EAGLET CubeSat of **OHB Italy**



Cooperation with Italian and International companies for improving the students skills in the space field by means of hands-on CubeSat-related experiences



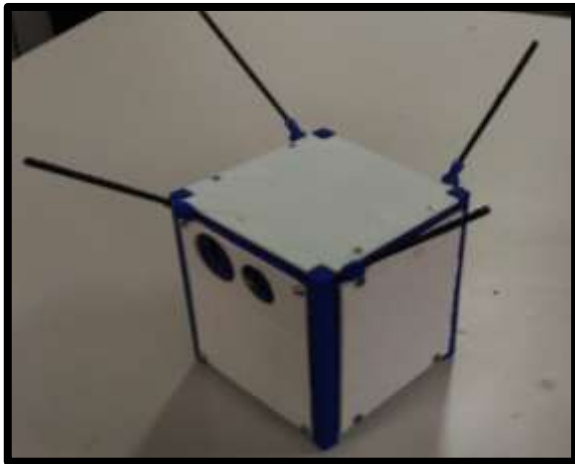
**EAGLET 2U CubeSat**

# UNISON Italy Working Groups

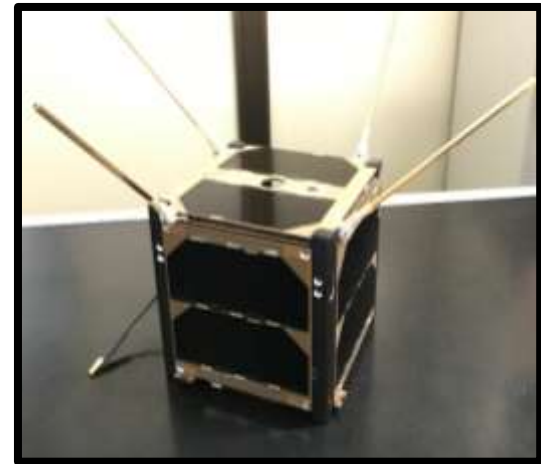


## CubeSat Team: 1KUNS 1U CubeSat

- Cooperation with University of Nairobi (Kenya)



**3D-printed Mock-up**



**Flight Model**



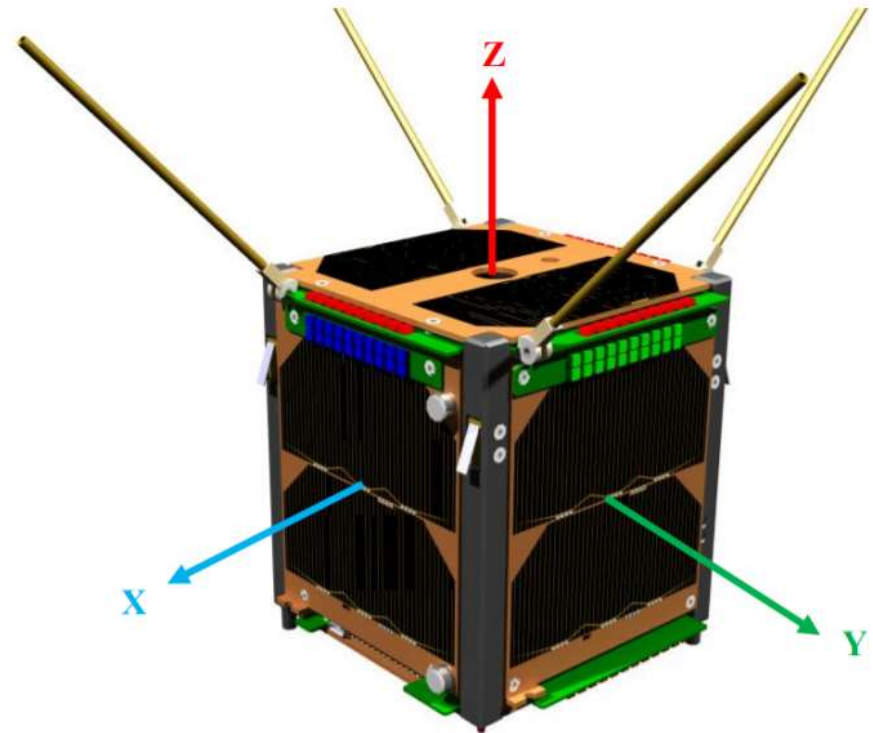
# UNISON Italy Working Groups



CubeSat Team: LEDSAT 1U CubeSat



ESA Fly Your Satellite! Programme

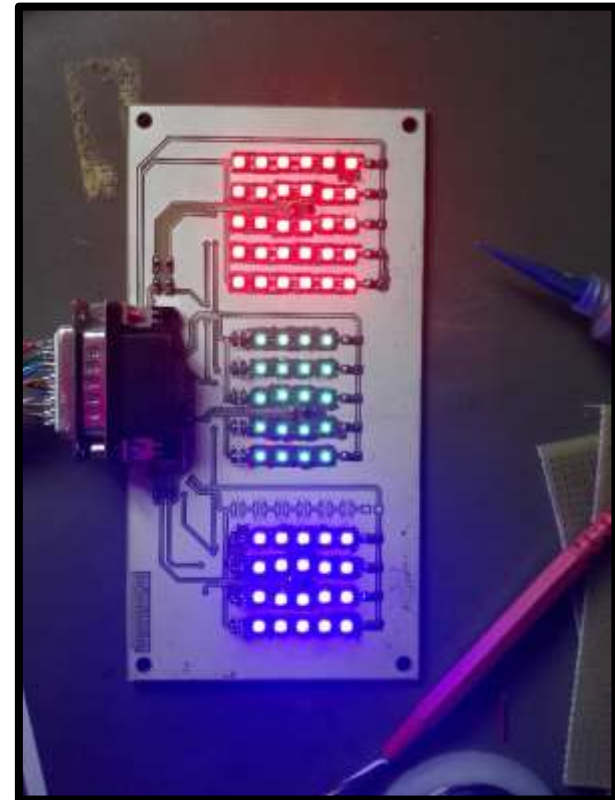
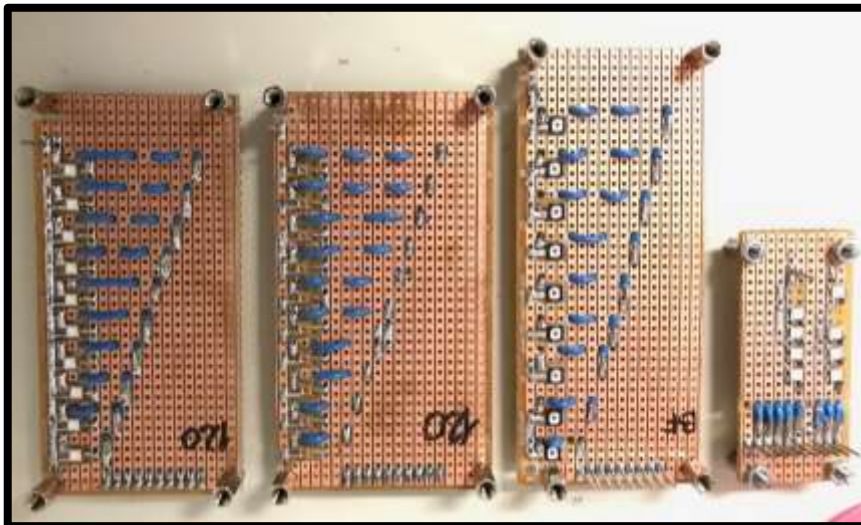


**CDR Phase**

# UNISON Italy Working Groups



CubeSat Team: LEDSAT 1U CubeSat





# UNISON Italy Working Groups



## CubeSatTeam: Ground Operations

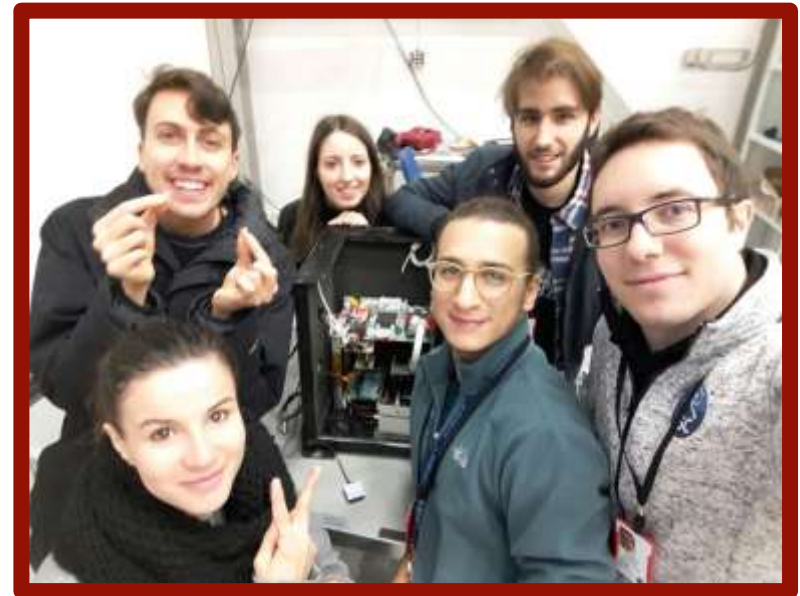
### URBE Airport GS Equipment



# UNISON Italy Working Groups



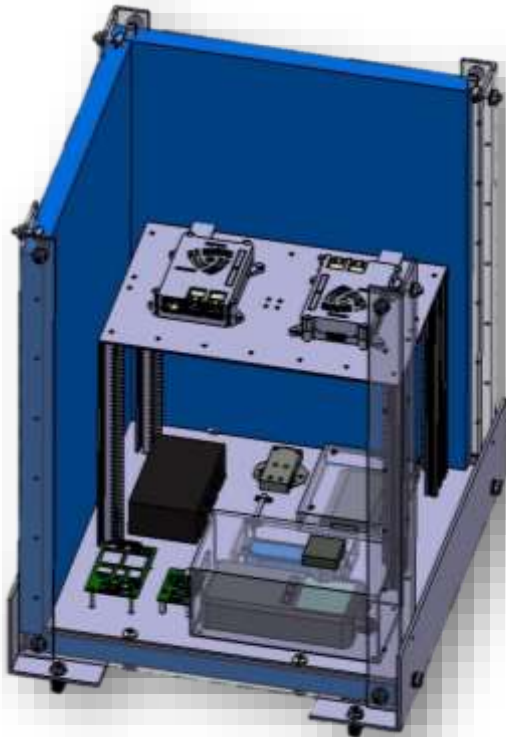
## BEXUS Team: STRATONAV Experiment



# UNISON Italy Working Groups



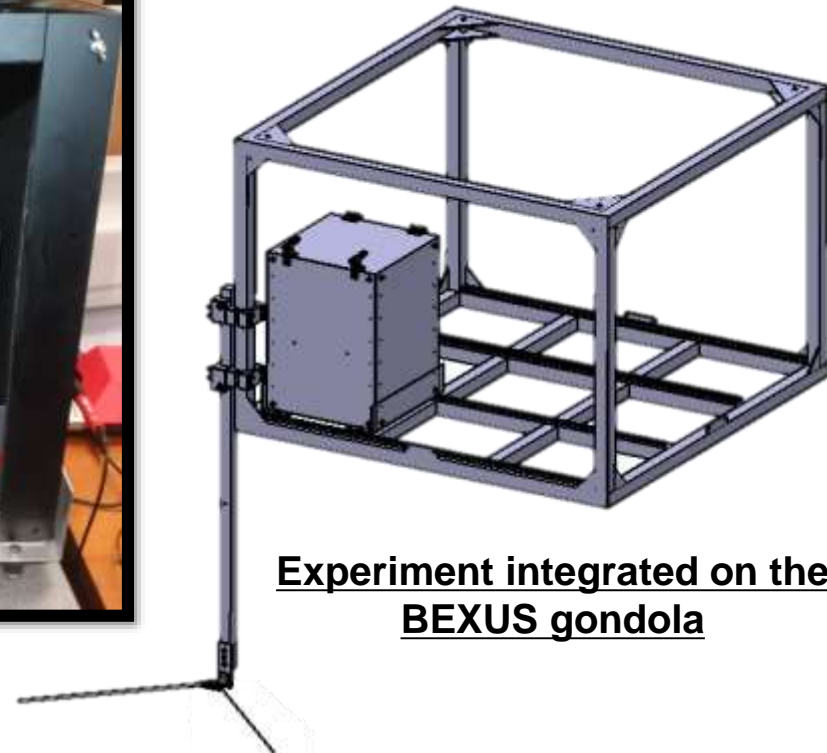
## BEXUS Team: STRATONAV Experiment



CAD Model



Flight Model

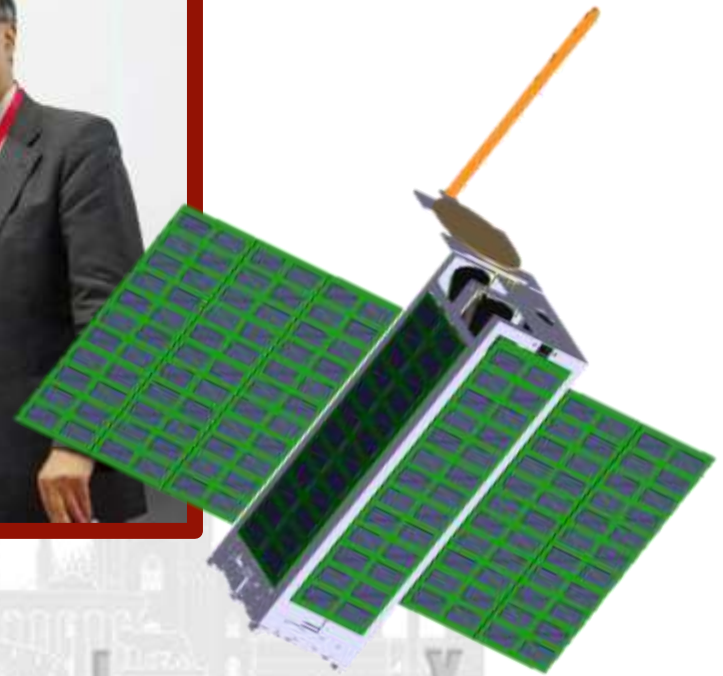


Experiment integrated on the  
BEXUS gondola



# 4th UNISEC Global Meeting at Kamchia (Bulgaria)

- Student Prize for “HORUS - a CubeSat-based multi-angle and multi-spectral Earth Observation (EO) system”



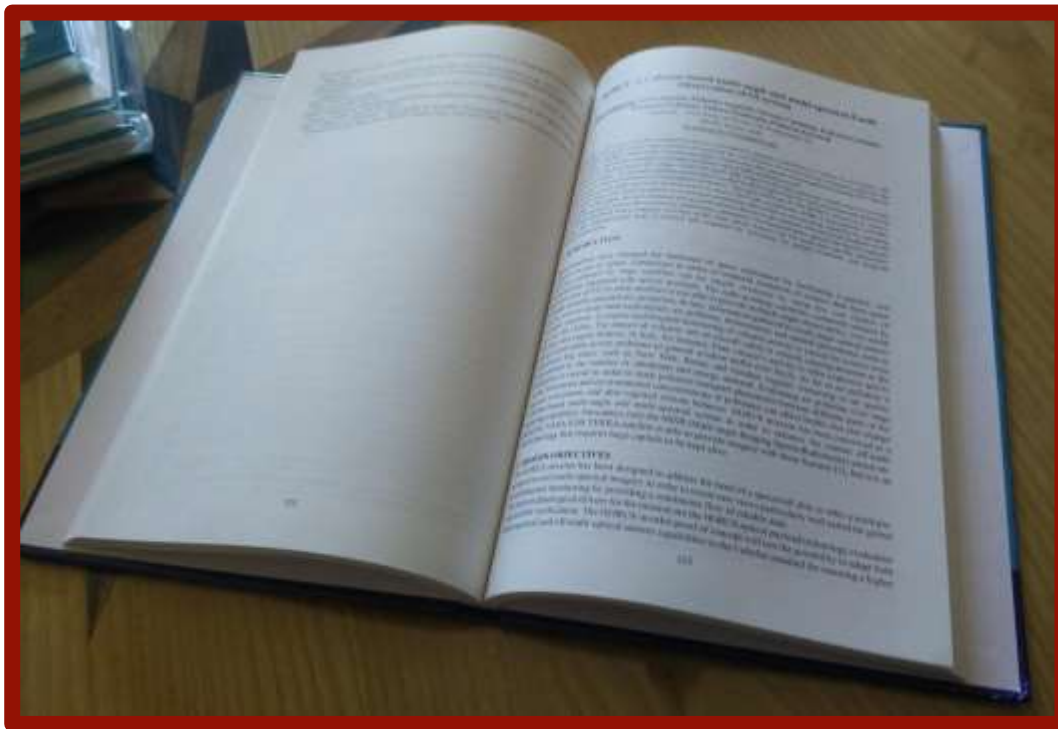
# 4th UNISEC Global Meeting at Kamchia (Bulgaria)

- Participation at the 1<sup>st</sup> De-orbit Device Competition (DDC) with the “SSCD: Sailing System for Cubesat Deorbiting”





# Two papers published on the IAA Books Series in 2017





# UNISON Italy Official Website

<http://unisonitaly.eu>



[Home](#) [Bologna](#) [Rome](#) [Turin](#) [5th UNI-Glo](#) [Pre-5th MIC](#) [Gallery](#) [Contact us](#)

## UNISON ITALY

VERSIONE ITALIANA

ENGLISH VERSION





# UNISON Italy Official Website

<http://unisonitaly.eu>



[Home](#) [Bologna](#) [Rome](#) [Turin](#) [5th UNI-Glo](#) [Pre-5th MIC](#) [Gallery](#) [Contact us](#)

## UNISON ITALY

VERSIONE ITALIANA

ENGLISH VERSION



# Italian 5th Pre-MIC



The Pre-5th

**Mission Idea Contest Workshop**  
**Local Competition in Italy**

Micro/Nano Satellites for Global Sustainable Development



**Italian finalist:**

**Growth of tomato plants MICRO-TOM  
in space environment**



# UNISON Italy Official Website

<http://unisonitaly.eu>



[Home](#) [Bologna](#) [Rome](#) [Turin](#) [5th UNI-Glo](#) [Pre-5th MIC](#) [Gallery](#) [Contact us](#)

## UNISON ITALY

VERSIONE ITALIANA

ENGLISH VERSION





# 5th UNISEC Global Meeting

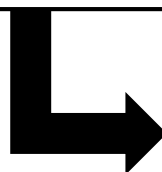


**UNISEC-Global**

24 gennaio · 🌐



We are pleased to announce that the 5th UNISEC-Global Meeting will be held in Dec 2-4, 2017 at Sapienza – Università di Roma, Italy. Detail will be announced soon.



# 5th UNISEC Global Meeting

## The Fifth UNISEC Global Meeting

2-4 Dec 2017

Rome  
(Italy)



Sapienza's  
Engineering  
Faculty



# 5<sup>th</sup> UNISEC Global Meeting

2<sup>nd</sup> place winner at the 5<sup>th</sup> International Pre-MIC

## THE GROWTH OF TOMATO PLANTS MICRO-TOM IN SPACE ENVIROMENT

TEAM MICRO-TOM



# QUESTIONS?

Additional information:  
**ali.pellegrino.92@gmail.com**

**5th UNISEC Global Meeting**  
Rome (Italy), 3rd of December 2017

