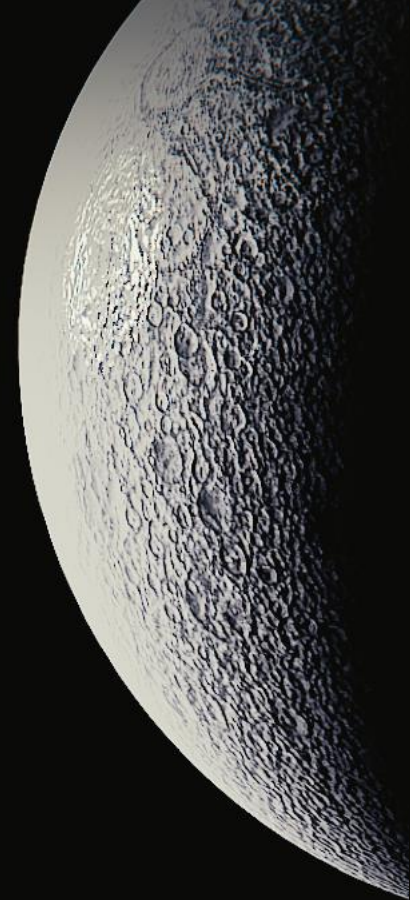


# GARATÉA MISSION

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Lucas Fonseca



UN/Brazil Symposium on Basic Space Technology 2018

# QUESTION



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How to enable Cis-Lunar  
activities in Brazil

# LOGICAL FLUX

**MANIFEST (WHITEPAPER)**

**OBJECTIVES (MAIN GOALS)**

Scenarios and Success Criteria

**REQUIREMENTS &  
CONSTRAINTS**

System Engineering and Project Management

5 W's



**Storytelling**



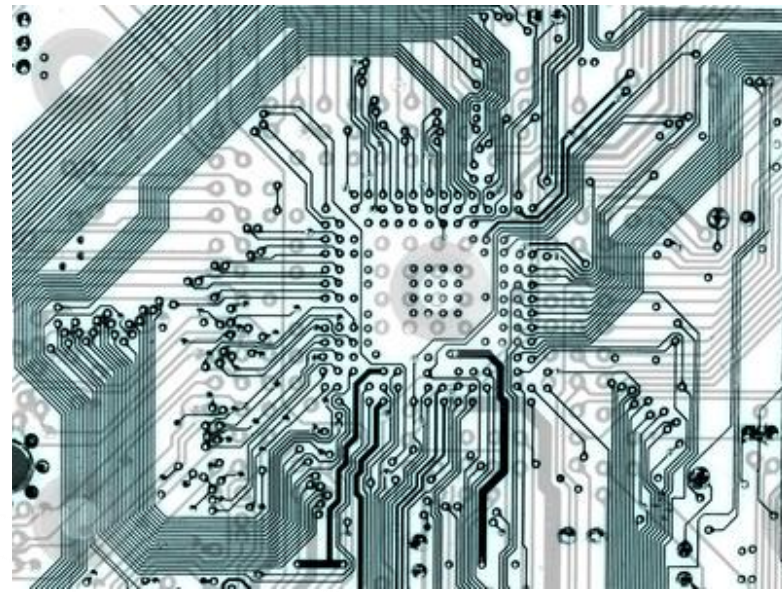
# SPACE JOURNEY



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Inspiring Science in Brazil with  
space activities

# 3 PILARS



**Excellence  
in Science**

**NewSpace  
Business Model**

**Educational  
Inspiration**

# OUR PROJECTS

GARATÉA-L  
Lunar Mission

GARATÉA-LEO  
Low Earth Orbit

GARATÉA-HAB  
Stratosphere

ICT-Garatéa  
Legacy

GARATÉA-NewSpace  
Astropreneurship

# NEWSPACE MODEL

GARATÉA-ISS  
Space Station

GARATÉA-E  
Balloons

Gincana-GALILEU  
Science Quiz

## EXCELLENCE IN SCIENCE

## EDUCATIONAL INSPIRATION

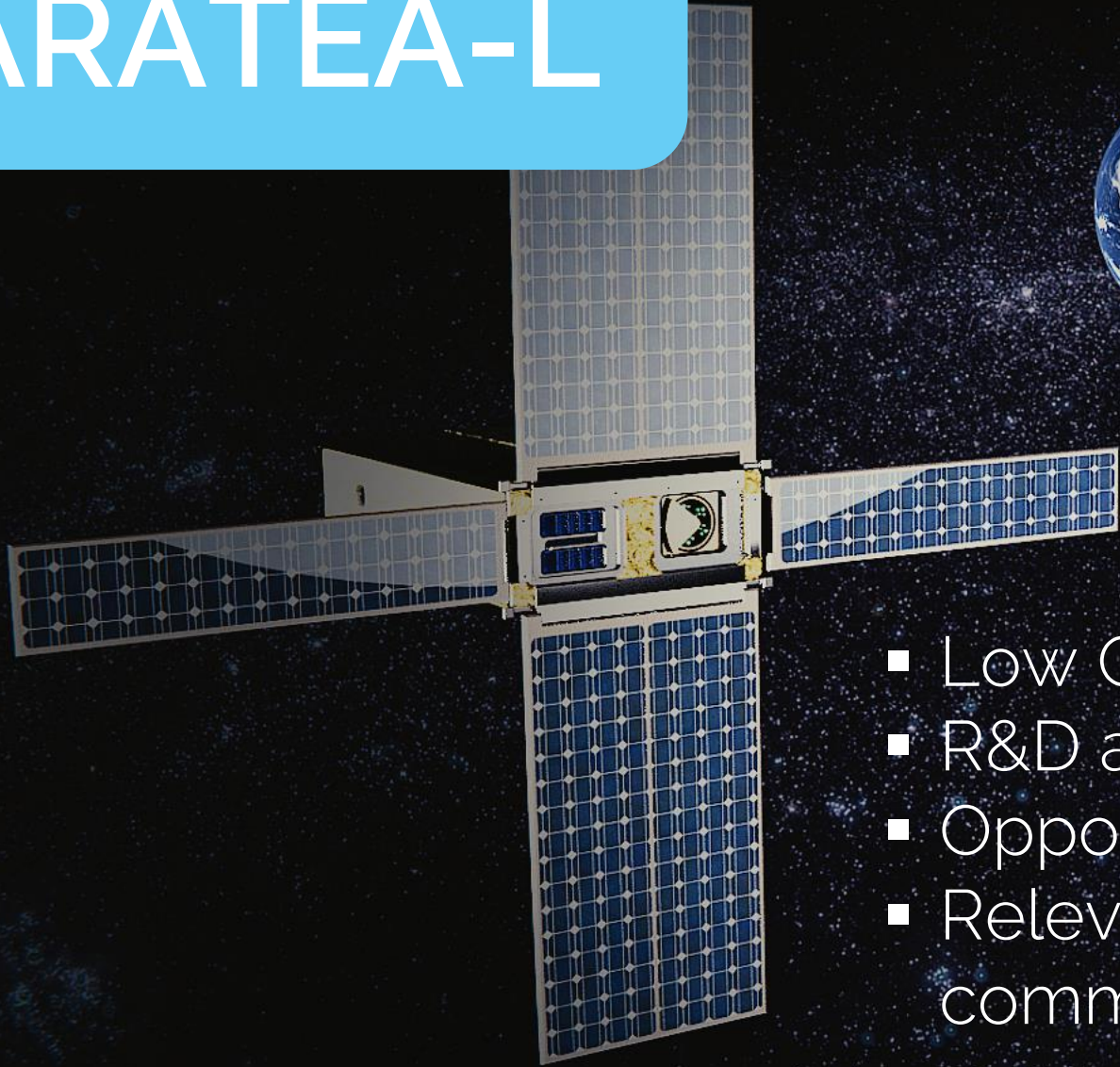
# LUNAR MISSION

**OUR FLAGSHIP:  
WE HAVE A LUNAR  
MISSION TO BE  
LAUNCHED BY 2022  
WITH EUROPEAN  
PARTNERS.**



# GARATÉA-L

THE BRAZILIAN LUNAR MISSION THAT WILL CHARACTERIZE HOW LIFE CAN SURVIVE IN THE CIS-LUNAR HARSH ENVIRONMENT.

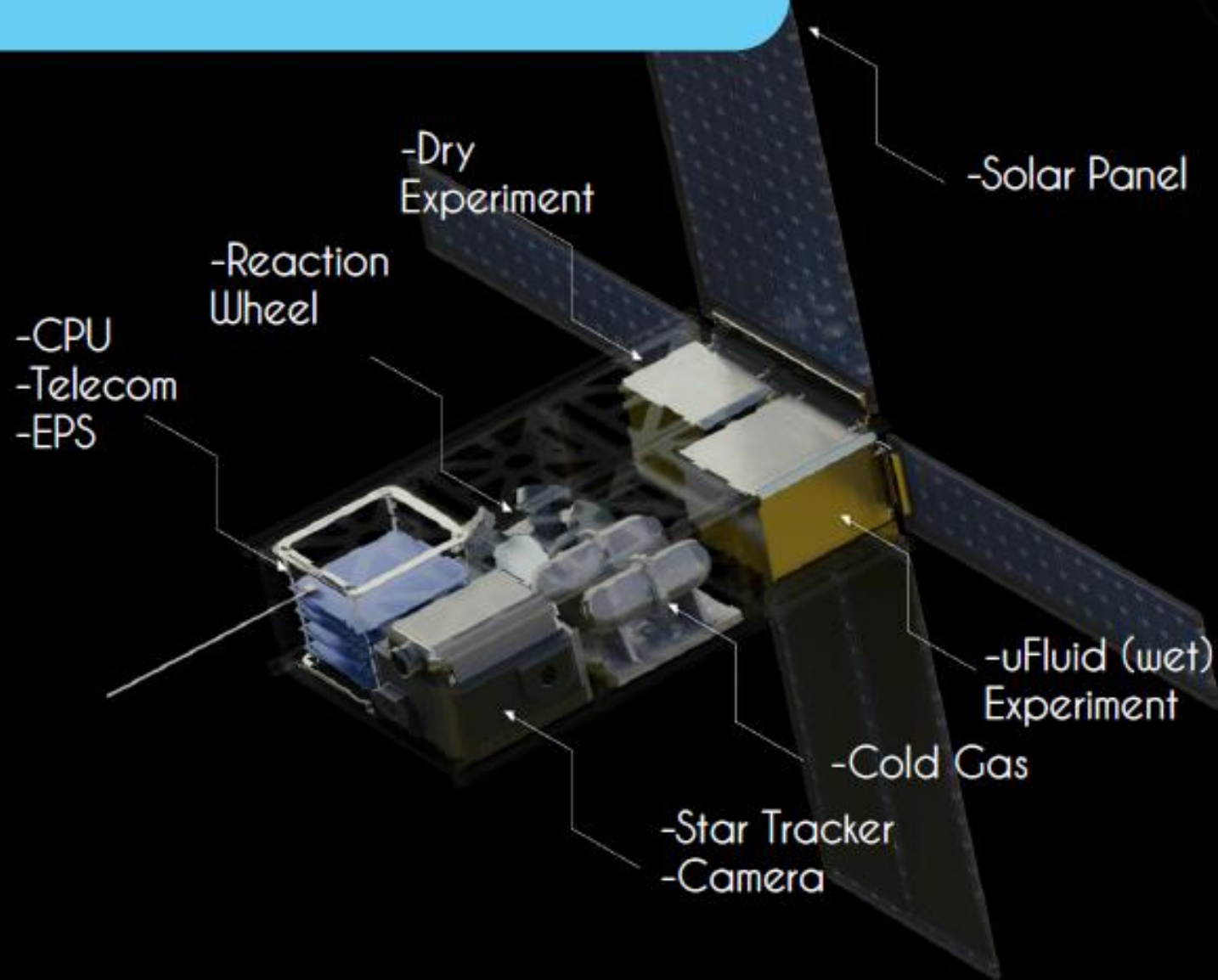


- Low Cost Mission(<10MUSD)
- R&D and High-skilled team
- Opportunity for the space Industry
- Relevant Research within worldwide community

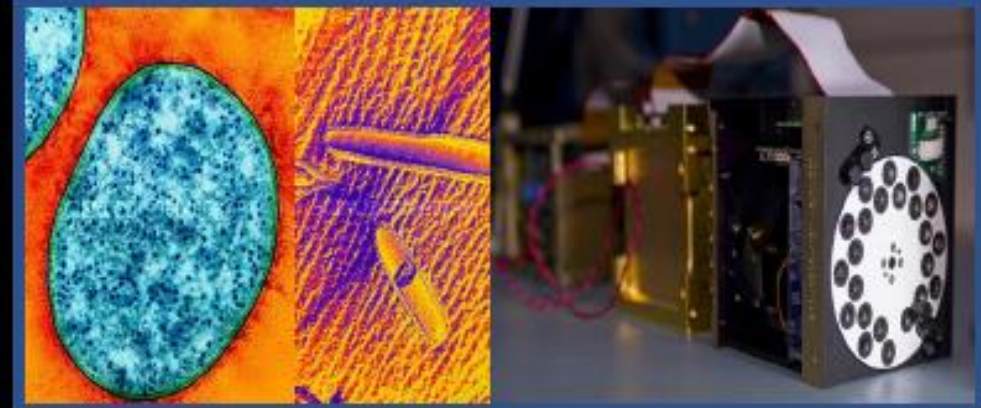
*"Moon Propaganda, promoting space culture and inspiration with the first South-Hemisphere cis-lunar mission"*



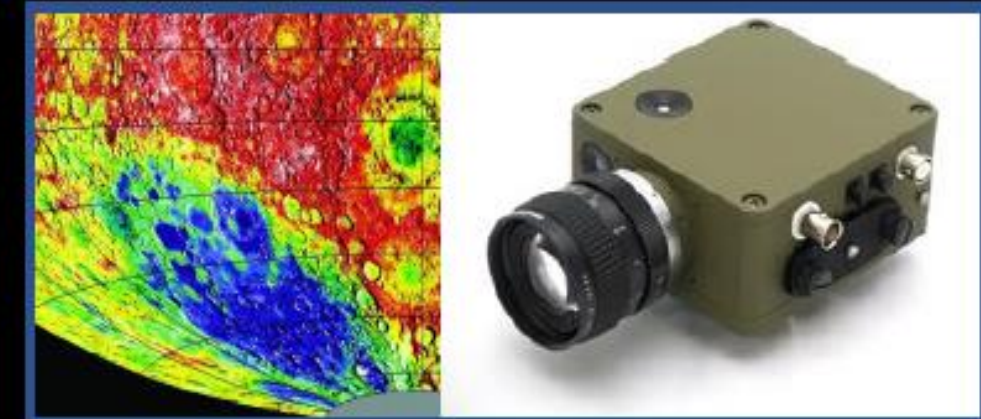
# CUBESAT



## ASTROBIOLOGY



## LUNAR OBSERVATION



# SCENARIO



LAUNCHING  
2022  
(PSLV-XL)

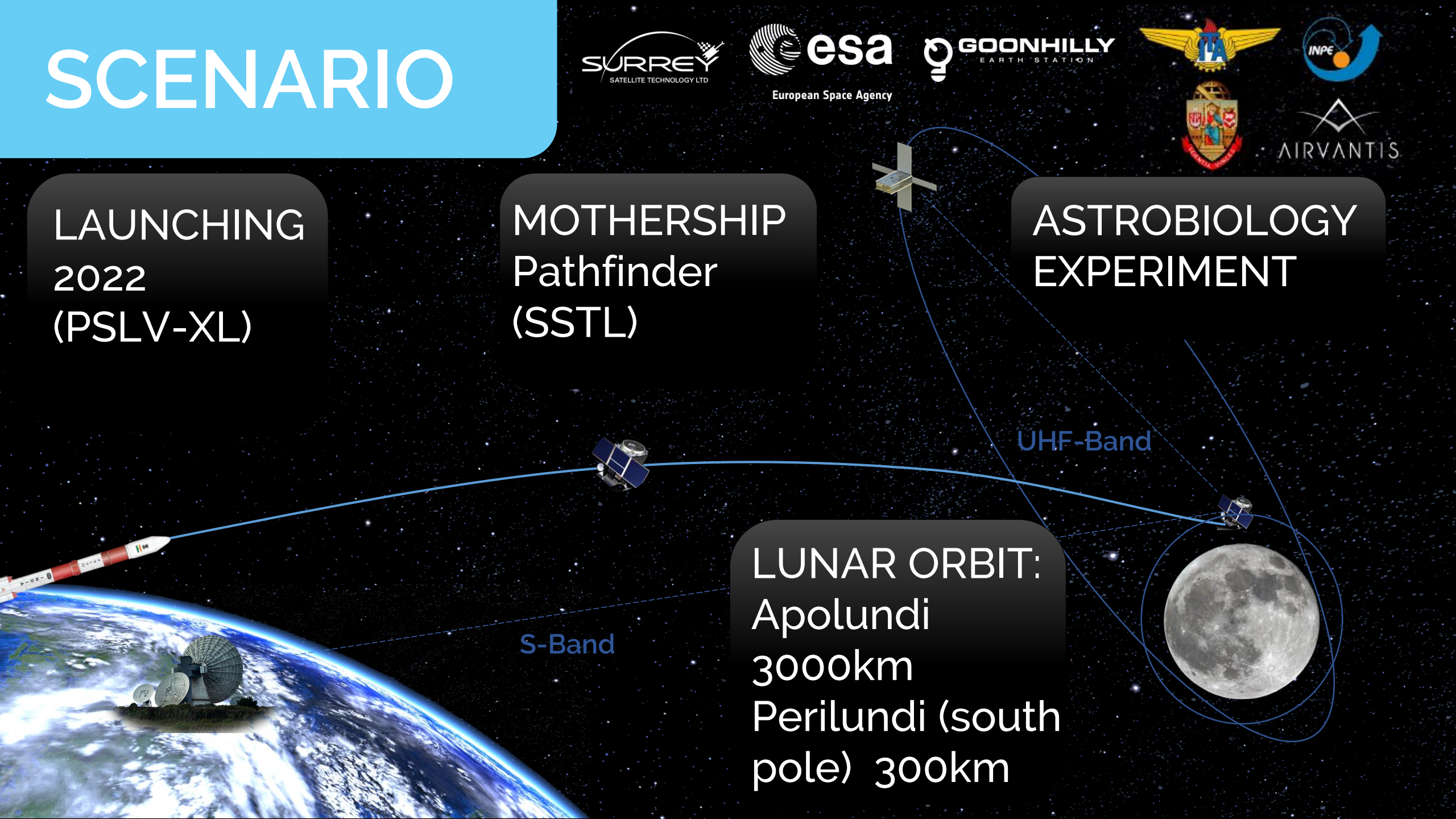
MOTHERSHIP  
Pathfinder  
(SSTL)

ASTROBIOLOGY  
EXPERIMENT

LUNAR ORBIT:  
Apolundi  
3000km  
Perilundi (south  
pole) 300km

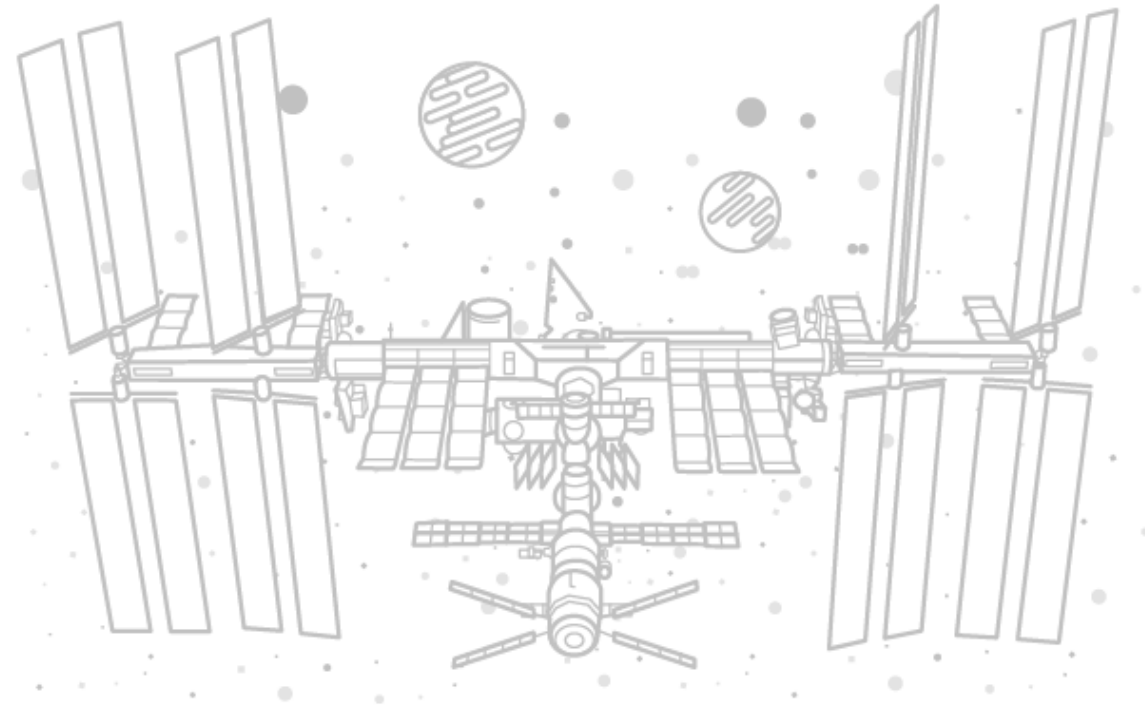
S-Band

UHF-Band



# GOING TO SPACE

Why don't we use a fantastic mission to inspire a new generation of scientists?

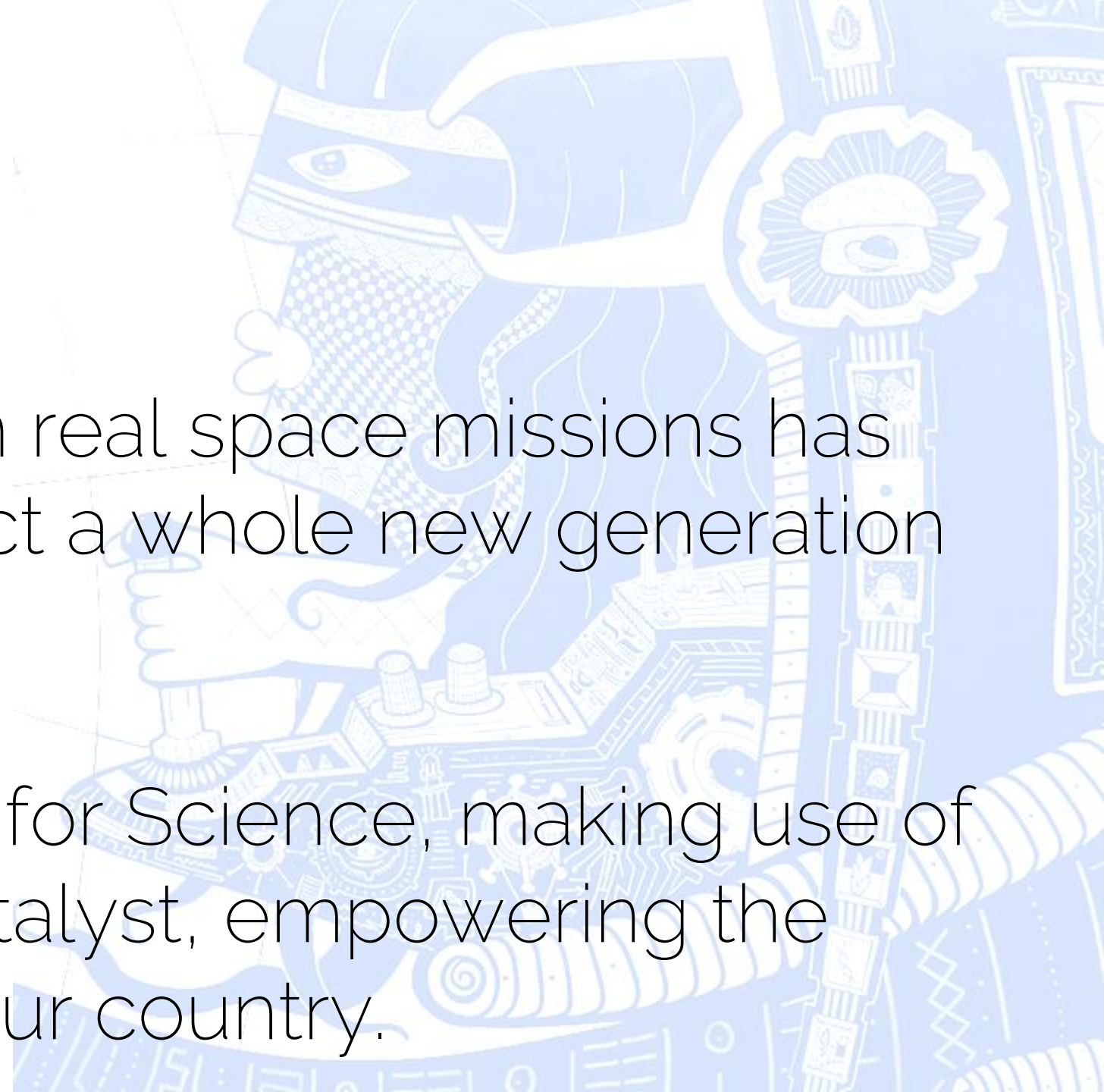


“The educational inspiration through space missions is one of the main goals of GARATÉA.”

# CREATING VOCATION

Working STEM within real space missions has the potential to impact a whole new generation to work with Science.

Garatéa is a manifest for Science, making use of space activities as catalyst, empowering the future of Science in our country.



# 2018

Educational Programs Garatêa is organizing in 2018.



Garatêa ISS  
2018

Garatêa E  
2018

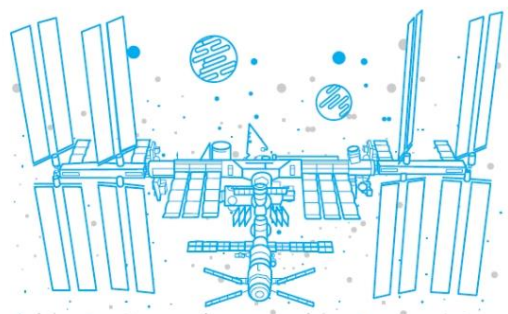
Gincana da  
Ciência



# GALILEU



OLIMPIADA BRASILEIRA  
DE ASTRONOMIA  
E ASTRONÁUTICA



# DISTRIBUTION

Our 2018 numbers:

Garatêa-E:

1500 students

Garatêa-ISS:

4100 students



GARATÊA-E

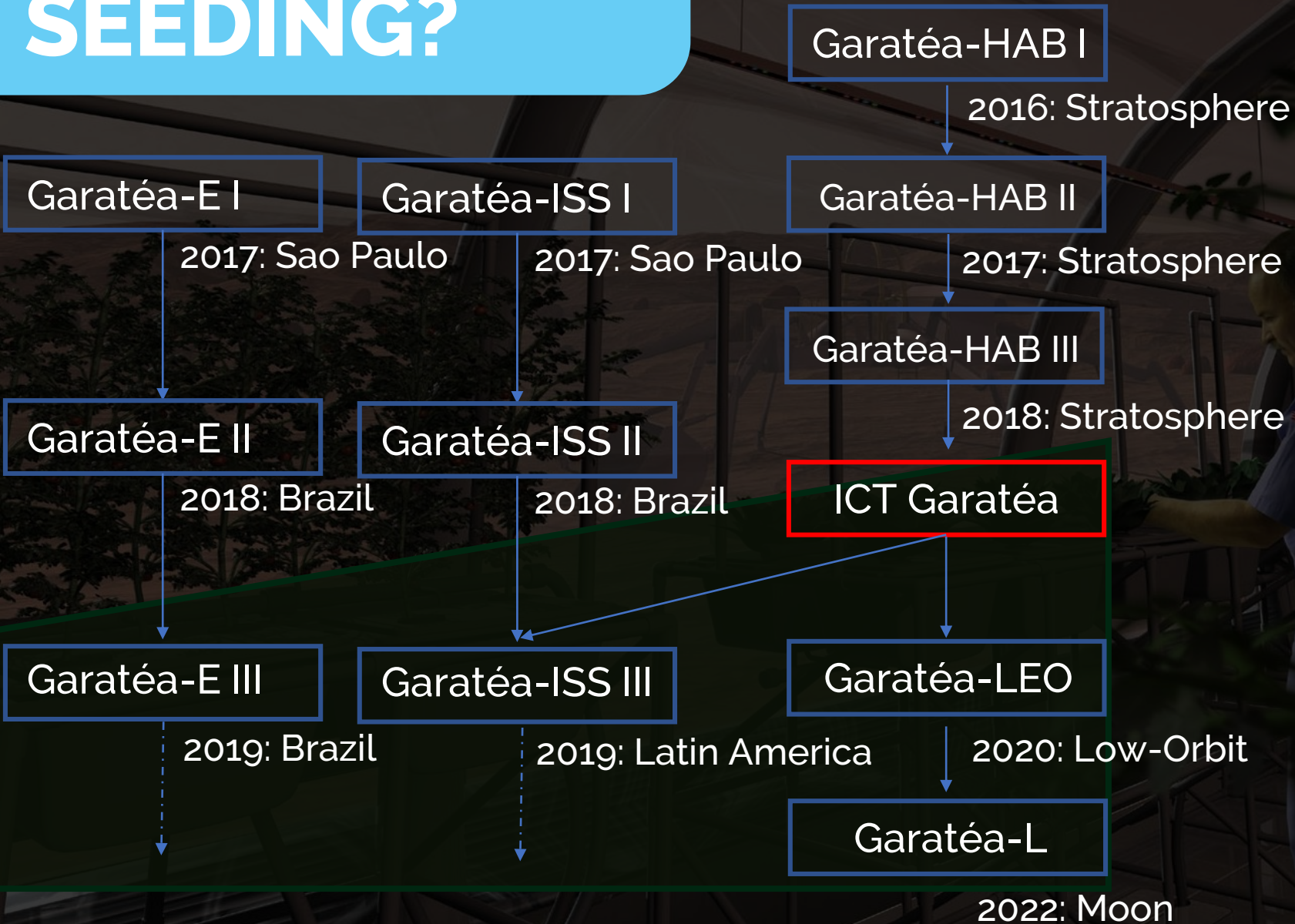
ZENITH  
AEROSPACE



EESC - USP

Garatêa

# WHAT ARE WE SEEDING?



# FUNDING MODELS

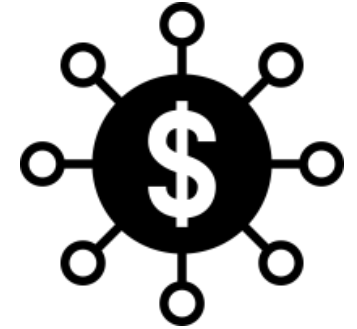
Business Model



Govt and Grants



Crowdfunding



Sponsorship



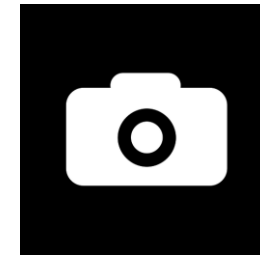
Intellectual Property



Naming Rights



Image Rights



Visionary Philanthropy



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We need to find alternative funding methods



# GOLD SPONSORS



## PARTNERS



## SUPPORTERS

