



BARTOLOMEO

Bartolomeo

External Payload Mission Hosting
on the ISS as a Service

DEFENCE AND SPACE

UNOOSA Webinar Series on Hypergravity/Microgravity

Yannick Jégo, Christian Steimle

Airbus Defence and Space, Bremen, Germany

AIRBUS

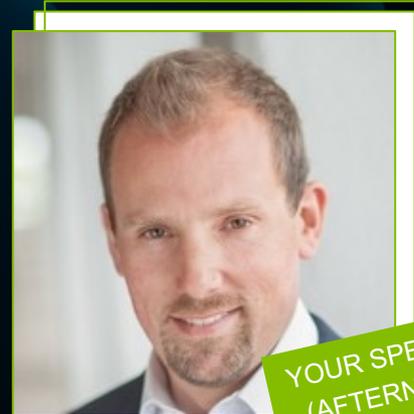
Welcome!



YOUR SPEAKER
(MORNING)

Yannick Jégo

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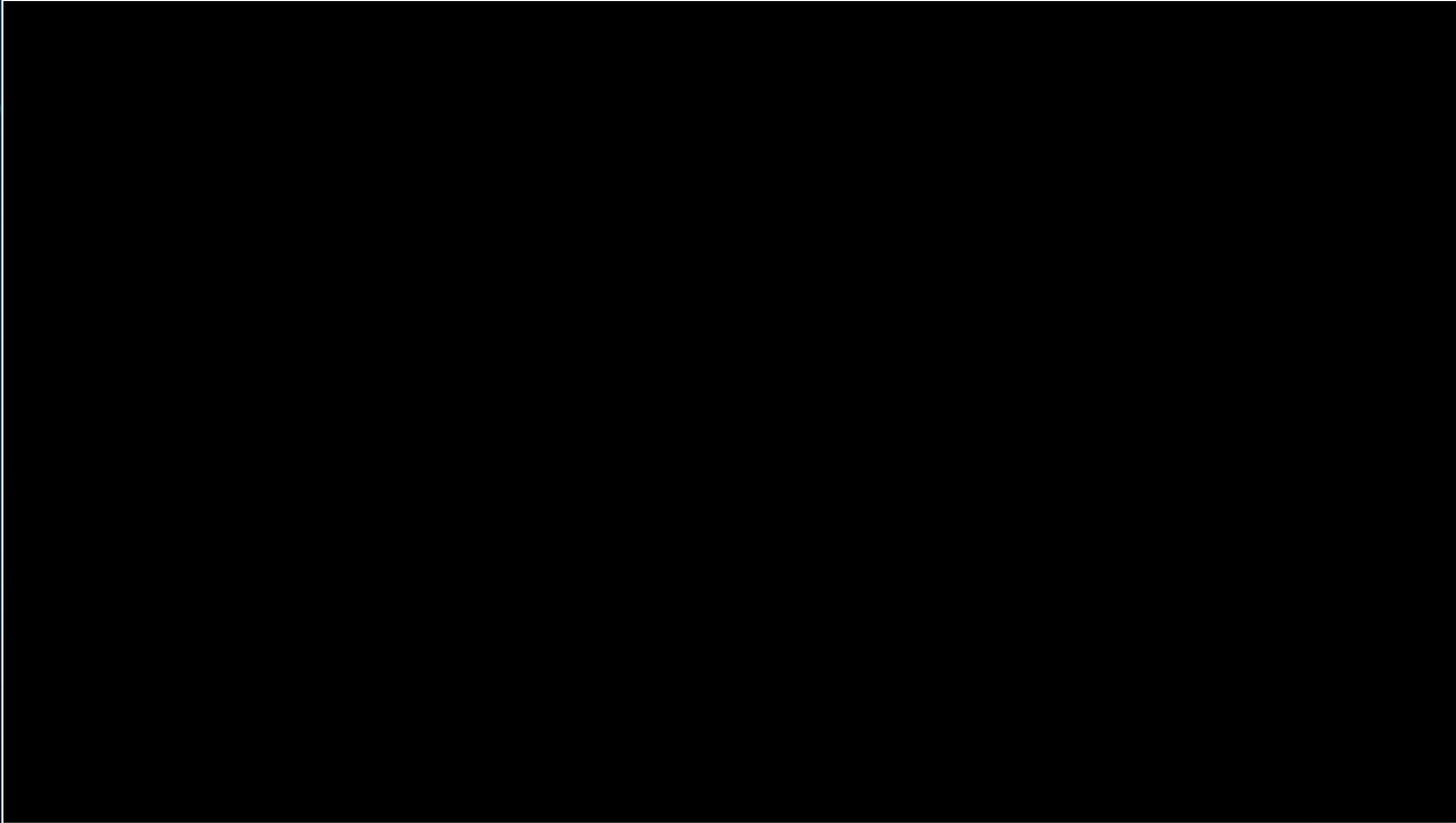


YOUR SPEAKER
(AFTERNOON)

Christian Steimle

Bartolomeo Programme Manager
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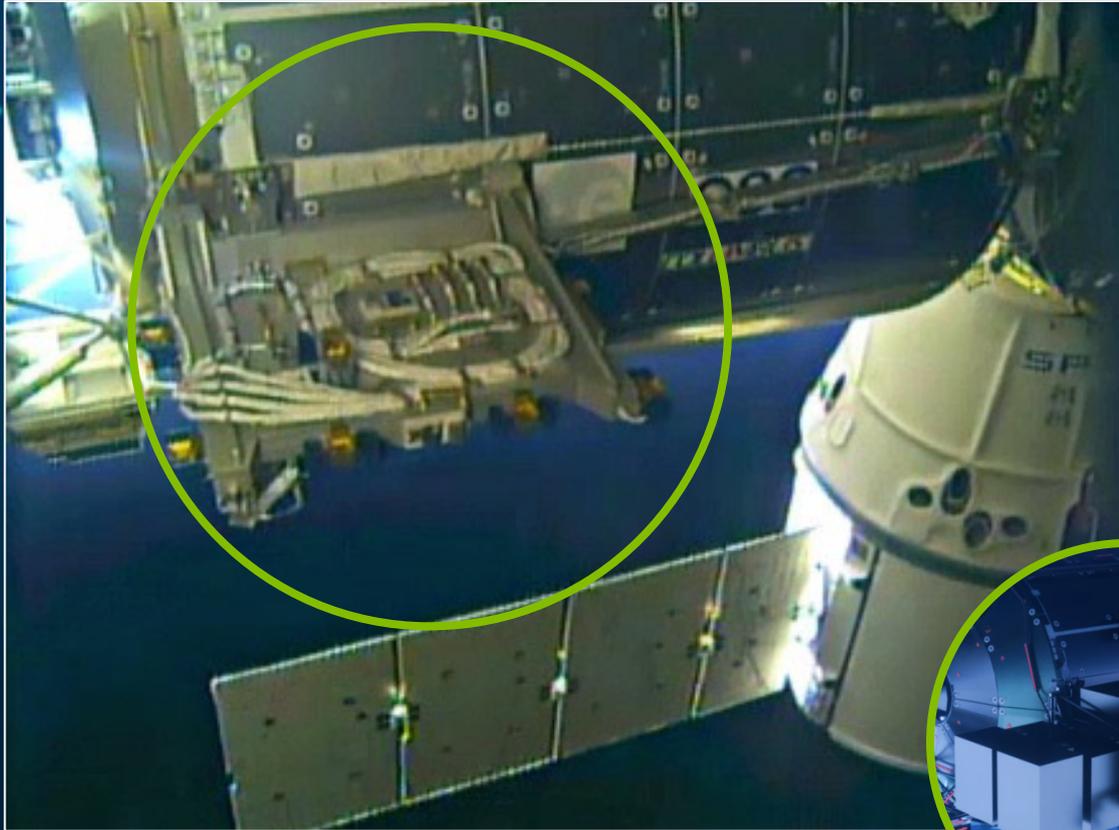
bartolomeo@airbus.com | www.airbus.com/bartolomeo



[VIDEO]

What
is
Bartolomeo?

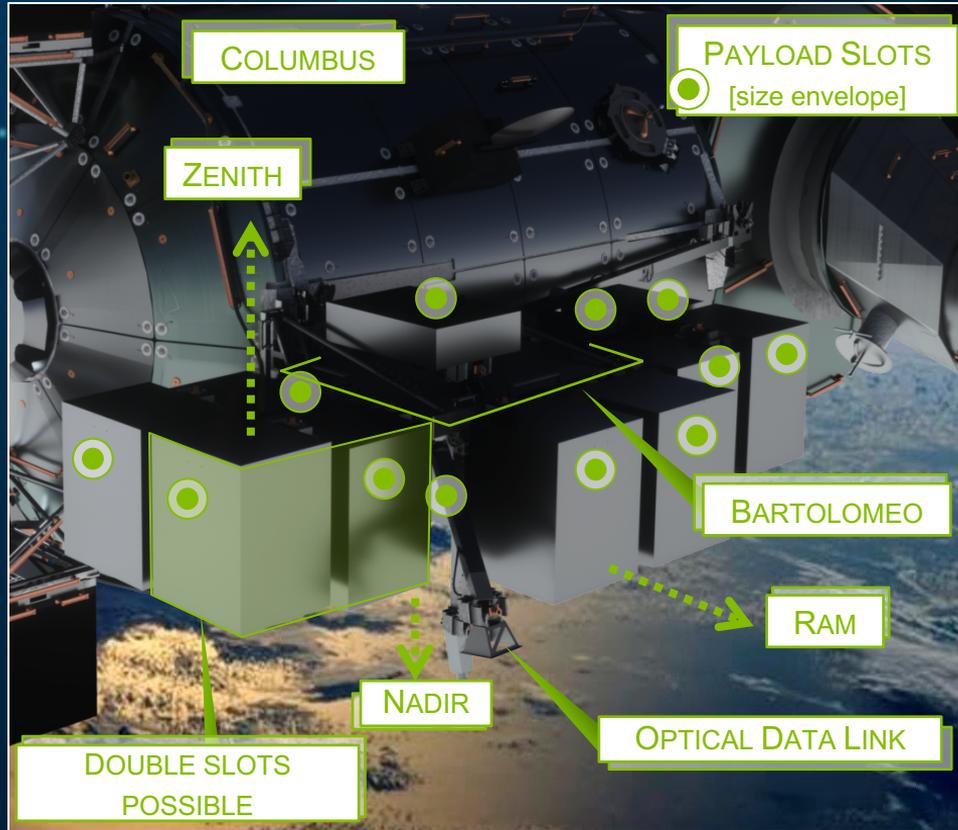
[https://youtu.be/
9xgHyyU-BAw](https://youtu.be/9xgHyyU-BAw)



Bartolomeo

External payload platform on the International Space Station

EASY ACCESS TO LOW-EARTH ORBIT



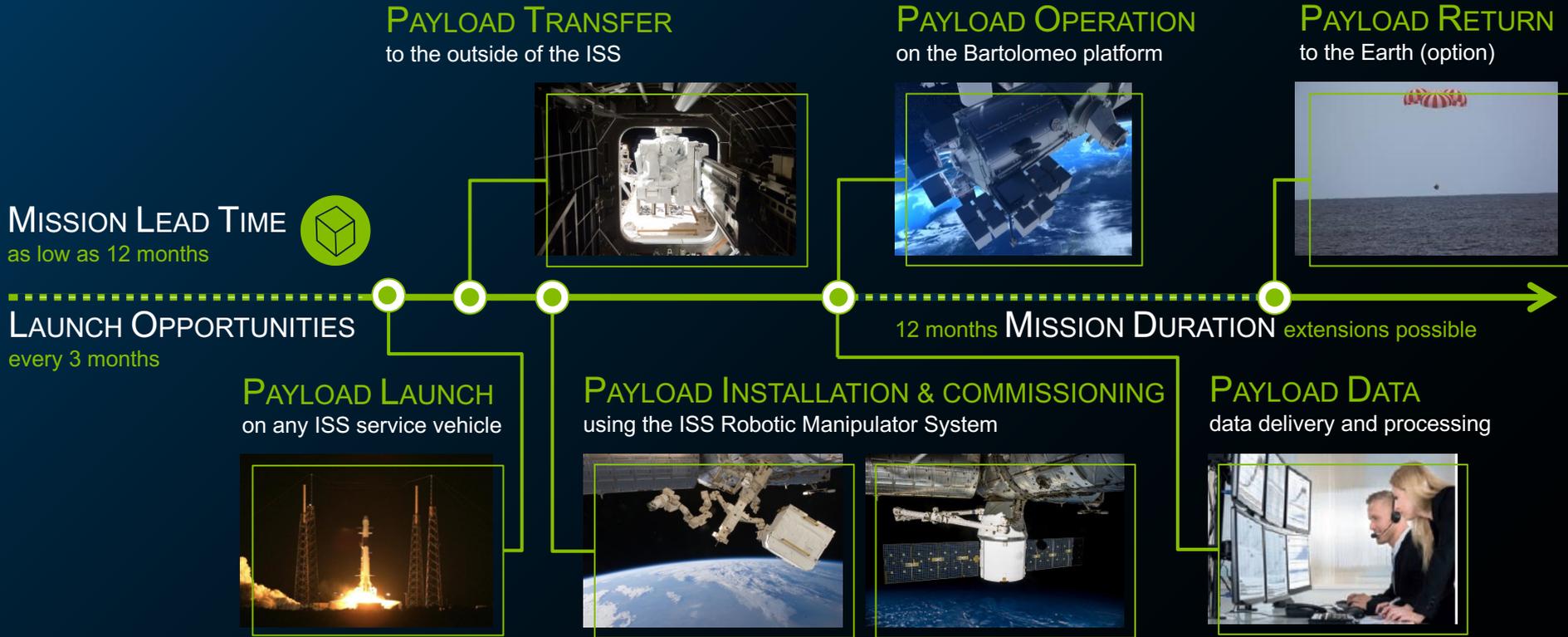
Bartolomeo

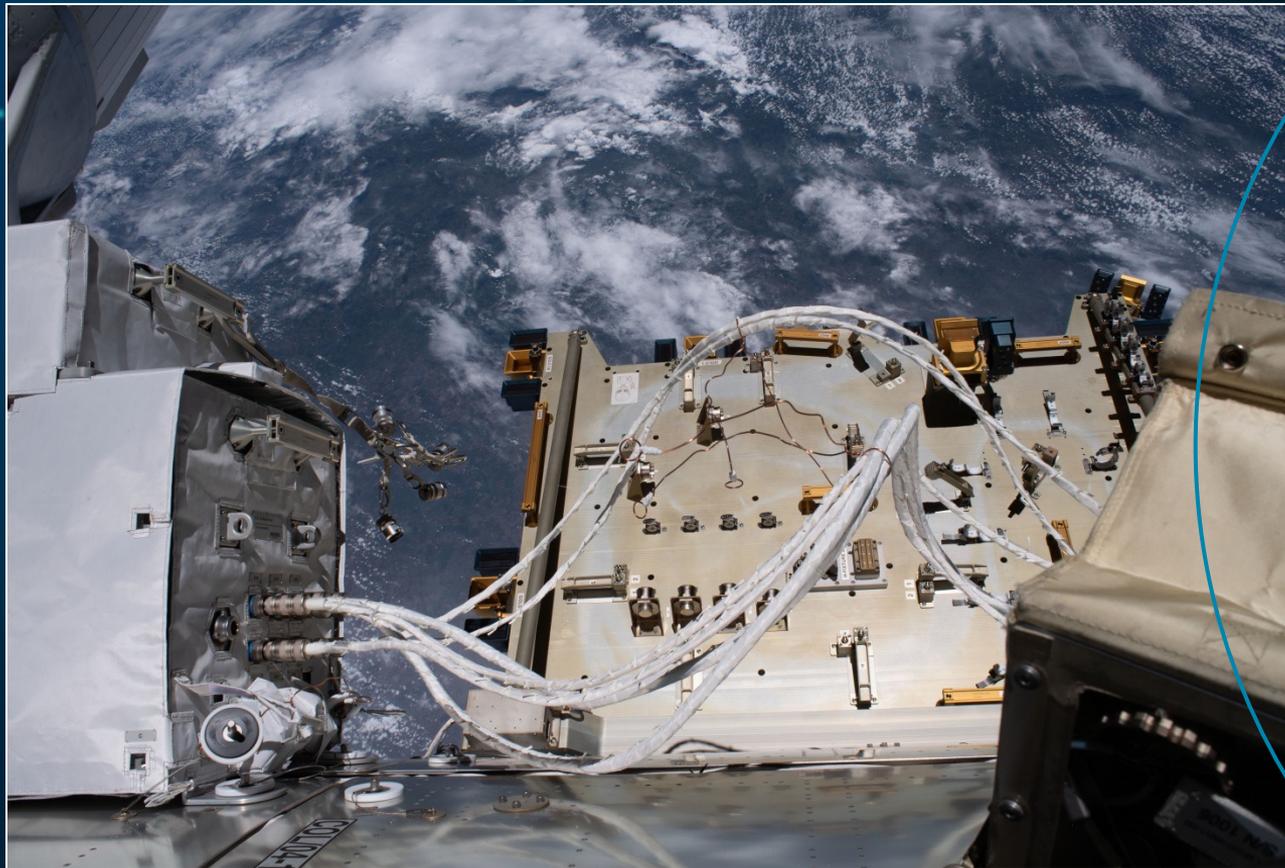
Your All-in-One Space Mission Service

Payload hosting on an external platform of the ISS Columbus Module

- Perfect viewing conditions
- Versatile: payloads from ~3U to ~1.2m³, up to 450kg
- Flexible: 1-year standard time slot extendable
- Cost-effective: from ~300k€/ year

The All-in-One Space Mission Service: All Mission Elements in One Contract





Bartolomeo in Space

Image Credit:
ESA/ NASA

AIRBUS

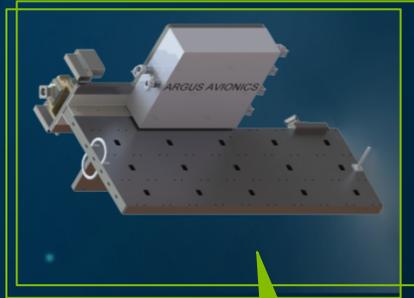
Your Space

Payload Accommodation

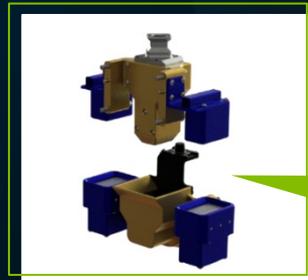
RAM | ZENITH | NADIR view

Standardized interface

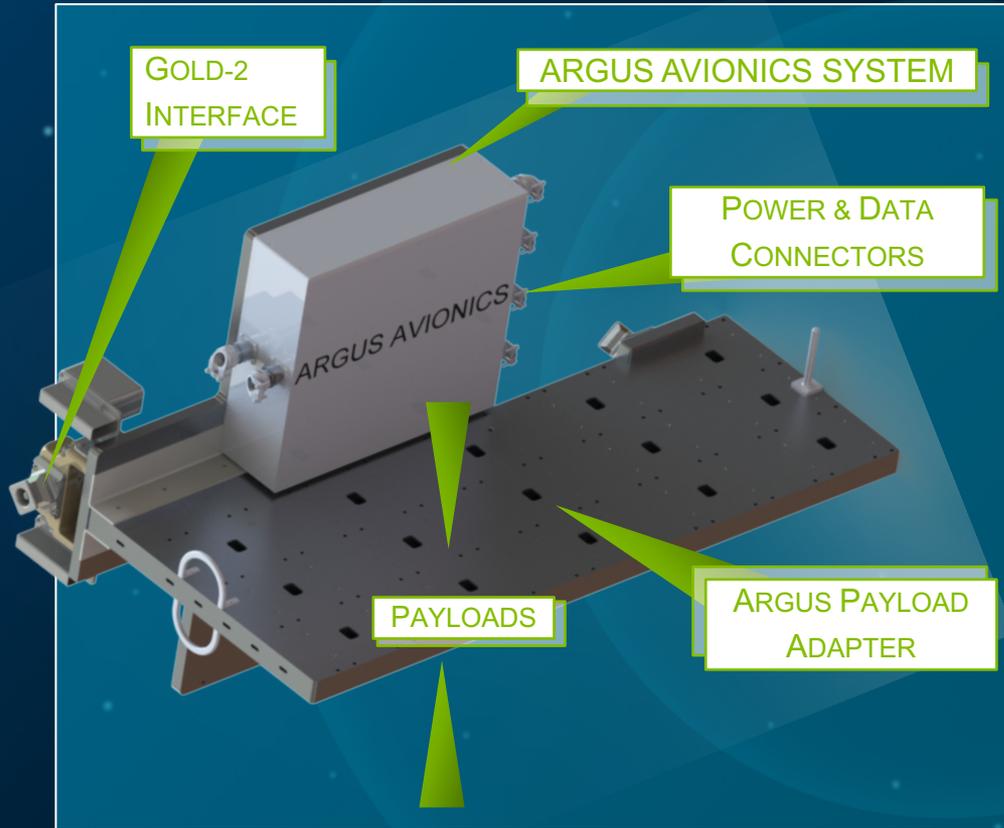
High-speed data transfer



Small payloads on ArgUS Multi-Payload Adapter



All payloads connect via standardised GOLD-2 interface



ArgUS Multi-Payload Adapter

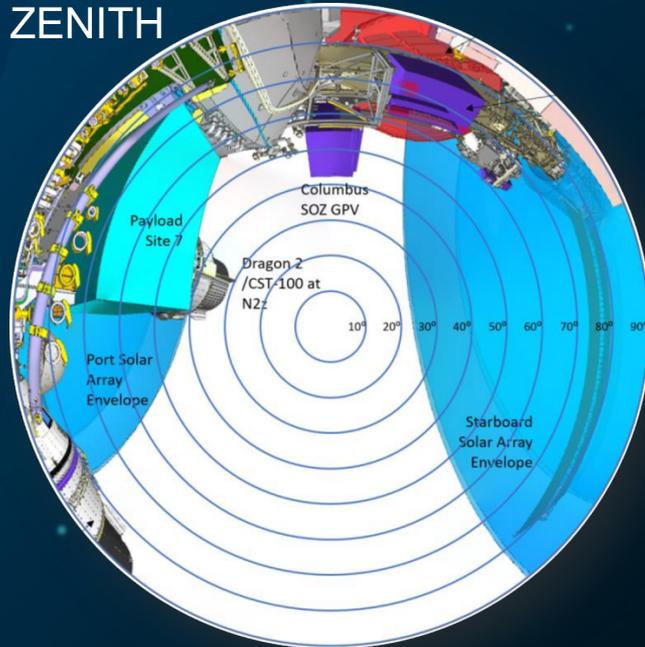
Ride-Share Solution for Small Payloads

- Up to five payloads per side, sizes from 3U up to 170U per side
- Simple interfaces
- 28VDC to 8 payloads | 120VDC to 2 payloads; power adaptable to each individual payload
- Designed to meet requirements of start-ups and small businesses

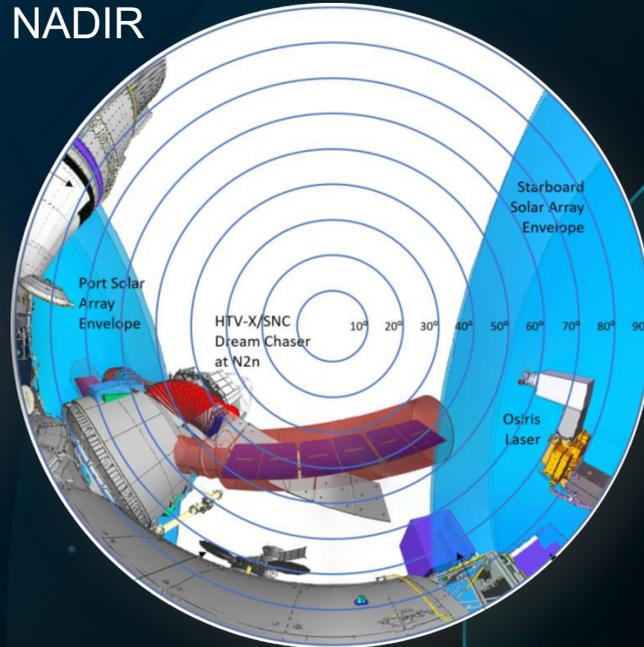
Excellent Viewing Conditions in All Directions



ZENITH



NADIR



SLOT	NADIR	ZENITH	RAM
1A	●	●	●
1B	●	●	●
2A	●	●	●
2B	●	●	●
3	●	●	●
4	●	●	●
5A	●	●	●
5B	●	●	●
6A	●	●	●
6B	●	●	●
7	●	●	●
8	●	●	●

Example: Field-of-View Analysis Site 3

Your Space on Bartolomeo

SINGLE SLOT

[standard]



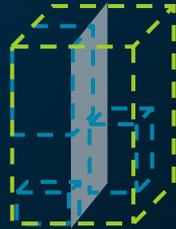
up to
700 x 800 x 1,000mm³
~27.5" x 31.5" x 39"

up to 450kg* ~990lb*

from € 3.5M ~US\$ 4.2M
per year**

SHARED SLOT

[ON ArgUS]

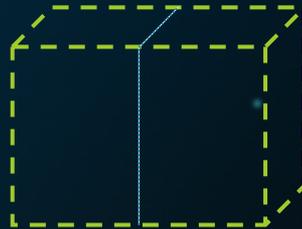


from 3U:
300 x 100 x 100mm³
~11.8" x 4" x 4"

from 4kg ~9lb

from ~€ 300k US\$ 360k
per year** for up to 8U

DOUBLE SLOT



up to
800 x 1,500 x 1,000mm³
~31.5" x 59" x 39"

up to 450kg* ~990lb*

from € 6.3M ~US\$ 7.5M
per year**





A Payload Slot via UNOOSA

Partnership to offer a free payload on Bartolomeo

- Open to all UN member states; developing countries encouraged
- Mission devoted to addressing the UN's SDGs
- Selection of winner ongoing... formal announcement coming soon!



EXOBIOLGY



ROBOTICS



ON-ORBIT ASSEMBLY



REMOTE SENSING



ASTROPHYSICS



SPACECRAFT DEPLOYMENT



IN-ORBIT TESTING/ VERIFICATION



FUNDAMENTAL PHYSICS



ASTRONOMY



SPACE SERVICES



CLIMATE MONITORING



PATHFINDER MISSIONS



HELIOPHYSICS



COMMUNICATION



MATERIAL SCIENCE



SPACE WEATHER MONITORING



EDUCATION



EXPOSURE



IN-SPACE MANUFACTURING

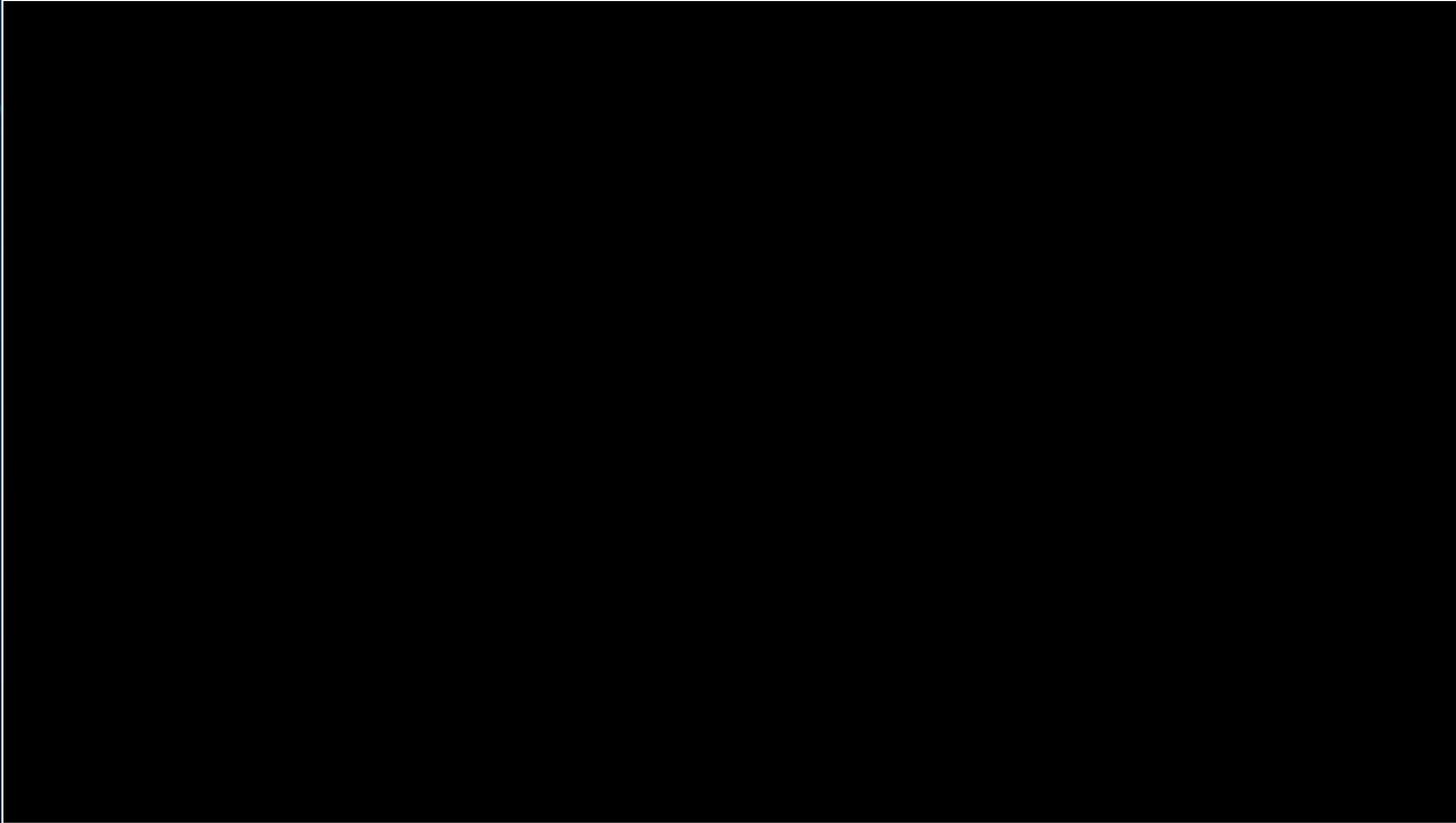


ATMOSPHERIC RESEARCH



PROPULSION TESTING

MISSION ~~IMPOSSIBLE~~

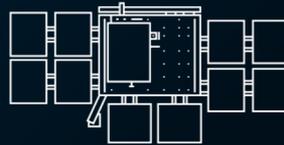


[VIDEO]

What can I
do on
Bartolomeo?

[https://youtu.be/
sAtsnPWPjLk](https://youtu.be/sAtsnPWPjLk)

www.airbus.com/bartolomeo



#wemakeitfly #bartolomeo

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