Bartolomeo
Your Space Program on the International Space Station – how UN member states can utilize ‘Bartolomeo’

Johannes von Thadden
Senior Vice President
Named after the younger brother of Christopher Columbus, the Bartolomeo platform is attached to the European Columbus Module and operated by Airbus.

**MISSION**

Bartolomeo operated aboard the ISS in **low-Earth-orbit**

(altitude: ~400 km)

- Bartolomeo in operation:
  - The ISS' only unobstructed view of Earth and outer space...
  - ... and enables the hosting of external payloads in low-Earth-orbit

- Main applications:
  - Earth observation
  - Robotics
  - Material science
  - Astrophysics

- Payloads can be hosted for:
  - Institutional
  - and private organisations

**European Columbus Module**

Various payload sizes available

High performance data link

Best viewing conditions
New Airbus payload hosting service solutions

• Provides simplified, cost-effective access to space

• Enables fast-track, responsive missions to be performed in Low Earth Orbit

• Facilitates and accelerates technology development and space capability build-up

• Is versatile, with many types of payloads and missions possible

• Creates opportunity for new business applications addressing development goals
LAUNCH OPPORTUNITIES
Are available on every servicing mission to the ISS

- i.e. approximately every 3 months (average)
- Payloads can be launched pressurised or unpressurised
- High performance optical data downlink: 1 – 2 Terabyte/day capacity is available during launch and in Space
- Versatile payload accommodation in the 5 – 450 kg range

HIGHLY COST-EFFICIENT
Thanks to the low-cost mission approach, customers can save costs significantly compared to traditional mission costs. This opens up opportunities for a variety of new types of applications and makes Bartolomeo ideal for R&D missions.

EASY MISSION PREPARATION
Payload sizes, interfaces, preparation steps and integration processes are largely standardised, meaning lead times are 12 months.

12 Payload slots
GOLD-2 (General Oceanic Engineering Latching Device 2) attachments for payloads up to 450 kg and 1 m³
Payload customers provide their payload to be hosted on Airbus Bartolomeo platform, with Airbus guidance through the ISS safety reviews.

Airbus provides launcher integration, launch facilitation, installation and hosting on BTL, data provision.

Payload customers receive their data and operate their mission via the web-based Airbus Cloud Console from anywhere in the world.
Bartolomeo – All-in-One Space Mission Service

Payload transfer to the outside of the ISS

Payload Operations

Payload launch on any ISS servicing flight

Payload installation typically using the ISS' robotic arm

Payload data processing and delivery

MISSION LEAD TIME 1.5-2 YEARS

MISSION DURATION 1-7 YEARS
Bartolomeo Value Proposition and benefits of UNOOSA collaboration

- Create an impetus in the payload development community to address Sustainable Development Goals
- Facilitate access for developing nations to funding sources
- Raise awareness of this opportunity in non-space nations
- Enable educational initiatives, space capability build-up and consultancy services
- Foster international, intercultural collaborations
Bartolomeo Contacts

Dr. Christian Steimle  
Bartolomeo Program Manager  
Airbus Defence and Space, Bremen, Germany  
Email: per-christian.steimle@airbus.com  
Mobile: +49 151 277 677 74  
https://de.linkedin.com/in/dr-per-christian-steimle-46217b8a

Katherine Pegg  
Business Capture and Service Operations Manager  
Airbus Defence and Space, Bremen, Germany  
Email: katherine.pegg@airbus.com  
Mobile: +49 162 904 6726  
https://www.linkedin.com/in/katherinepegg