Bartolomeo
Your All-in-one Space Mission Service

DEFENCE AND SPACE
Dr. Christian Steimle, Simone Sasse
What is Bartolomeo?

> New external platform on ISS / Columbus
> Able to host all payload sizes
> Giving best viewing conditions on ISS
> Providing highest data downlink rate on ISS
Bartolomeo Concept of Operations
Payload Launch

Unpressurized payload launch in ISS visiting vehicle trunk

Pressurized payload launch in ISS visiting vehicle pressurized compartment
Payload Installation

Payload installation by ISS Robotic Manipulation System

Payload transfer through either ISS payload airlock
Payload Retrieval

Payload / sample retrieval option through the payload airlock

[Image credit: NASA]
Payload Operation

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<tr>
<th>Link</th>
<th>NRT Link</th>
<th>HC Link</th>
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<tbody>
<tr>
<td>Downlink</td>
<td>1-10 Mbps</td>
<td>2.5 TB/day</td>
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<tr>
<td>Uplink</td>
<td>1 Mbps</td>
<td>None</td>
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<td>Latency</td>
<td>below 1 s</td>
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Bartolomeo Platform Design and Capabilities
Payload Accommodation

ArgUS Multi-Payload Adapter

- ArgUS can be accommodated on Slot 1, 2, 3, 4, 5, and 6
- Slot selected based on payload requirements and overall booking situation
Bartolomeo All-in-one Space Mission Service
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Standard service

Payload launch on any ISS service vehicle

Payload transfer to the outside of the ISS

Payload installation using the ISS Robotic Manipulator System

Payload data delivery to the customer

Payload operation on the Bartolomeo platform

L-20 months

L+3 months
Capability offered within the upcoming 1st Announcement of Opportunity
Capability offered within the upcoming 1st Announcement of Opportunity

- **3U-sized payload** will be integrated, launched, installed and operated as part of the Bartolomeo / ArgUS Multi-Payload Adapter system free of charge
  
  \[1U = 10 \times 10 \times 10 \text{ cm}\]

- **Mission duration 1 year** is included

**Optional Services:**
- Larger payload sizes and longer mission durations are available at 80,000 USD / U / year
- Payload return available at 80,000 USD / kg
- Broadband data downlink capability available at extra charge TBD
Contact

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