

# Space Nation

Fly Your Payload on ISS



@KalleVJ  
@spacenation  
#spacenation



**Our expansion to space is the key moment in human  
evolution that brings new perspectives, unity and  
tangible benefits to humanity**





space  
nation

The new space era  
is for everyone

# Space Nation

Space Nation provides space media and experiences that engage, inspire and educate people. Fun learning is in our DNA.

Founded in 2013



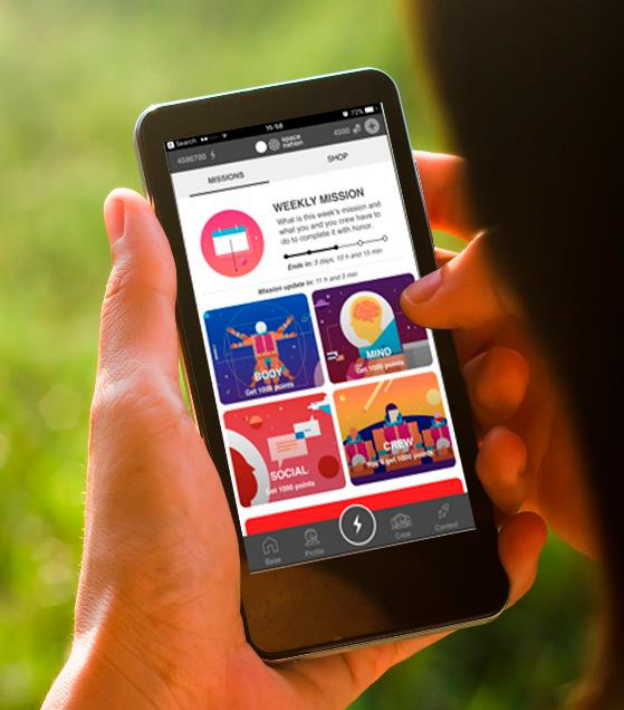
**Kalle Vähä-Jaakkola**  
Captain & Co-founder



**Mazdak Nassir**  
Chief Creative Officer & Co-founder







**Global  
launch**

**Selection**

**Filming**

**First Space  
Nation Astronaut  
to space**

**Space Nation  
Astronaut  
Program 2**

**March 2018**

**Fall 2018**

**Q1 2019**

**2019**

The background of the entire slide is a high-resolution image of the International Space Station (ISS) in orbit above Earth. The station's complex structure, including its multiple modules and large solar panel arrays, is clearly visible against the dark backdrop of space. The Earth's surface is shown in shades of blue and white, with city lights glowing in yellow and orange across the continents. A bright sun is positioned on the right side of the frame, creating a strong lens flare that stretches horizontally across the image. In the top right corner, there is a logo consisting of a solid white circle followed by a cluster of smaller white dots arranged in a grid-like pattern.

# Space Nation Labs

Space Nation is offering institutions, universities, educational and commercial entities lab space in International Space Station (ISS)



- Utilizes **Commercial-Off-The-Shelf (COTS)** modular components to provide a standardized multipurpose platform for a variety of payload users.
- SNLB is a rear-breather, **on-orbit ISS Locker** insert for use in an ISS locker on a **powered EXPRESS Rack**.
- SNLB also includes a master **singleboard computer (SBC)**.
- The SNLB will be flown-up and returned in one piece; there is **no crew access** to the internal experiments/components of the Lab Box.

# The Space Nation Lab Box (SNLB)

# Space Nation Labs: Containers

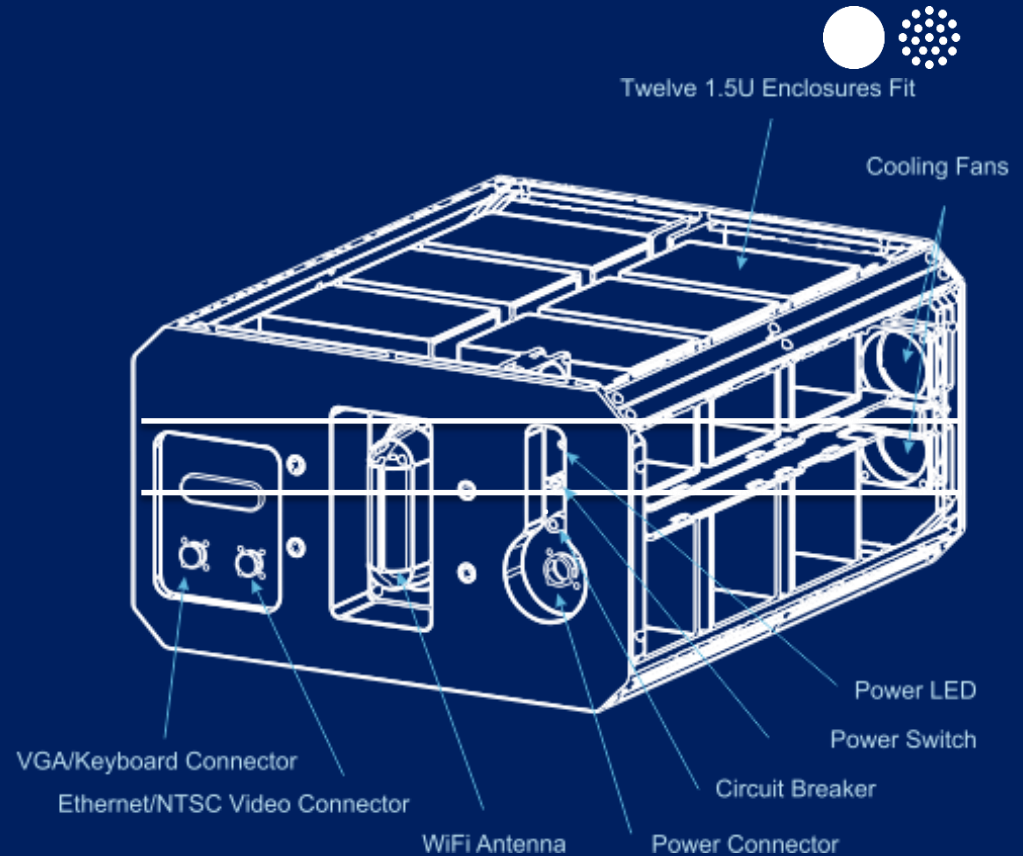
- The SNLB is comprised of a Tufam coated 6061-T6 aluminum outer box which includes a master SBC, DC/DC converters, Ethernet Hubs and inlet and outlet fans.
- Grounding and bonding is achieved via direct connection of the D-pin of the connector to the chassis.





# Subpayloads

- Each subpayload is approximately 10cm x 10cm x 15cm (1.5 U) or 10cm x 10cm x 30cm (3 U).
- Up to twelve 1.5 U SNLabs or up to six 3 U SNLabs will fit in each Lab Box.





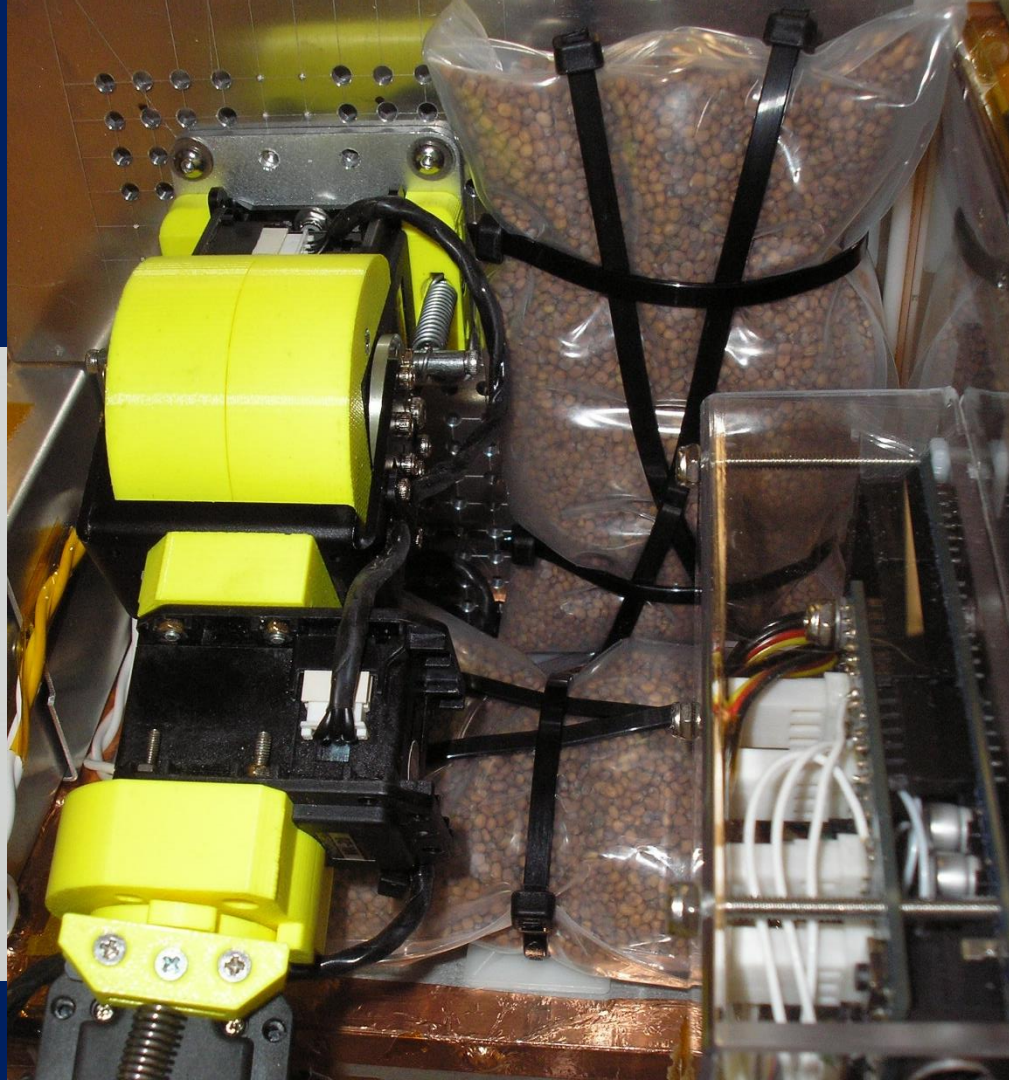
**1**

**Passive  
Payloads**

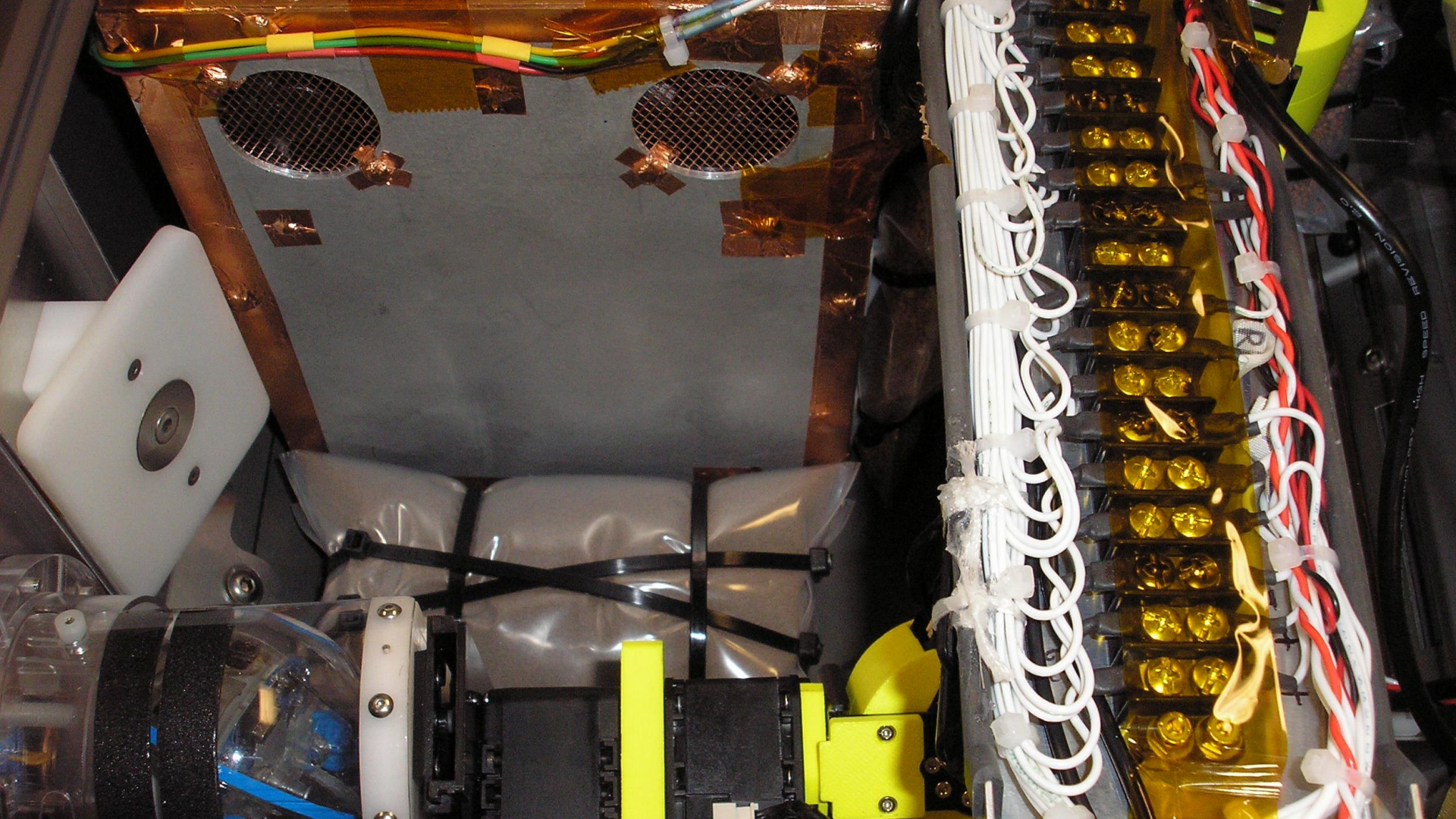
**2**

**Active  
Payloads**

# Space Seeds















# Timeline and Costs



**2018**

**3 months prior to launch**

**Duration 3 months**

**\$35 000 per U - > \$52 500 per 1.5U**

**Space Nation Research Program**

**\$15 000 per U -> \$22 500 per 1.5U**

# Fly your own payload to ISS

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