Starlab Space Station

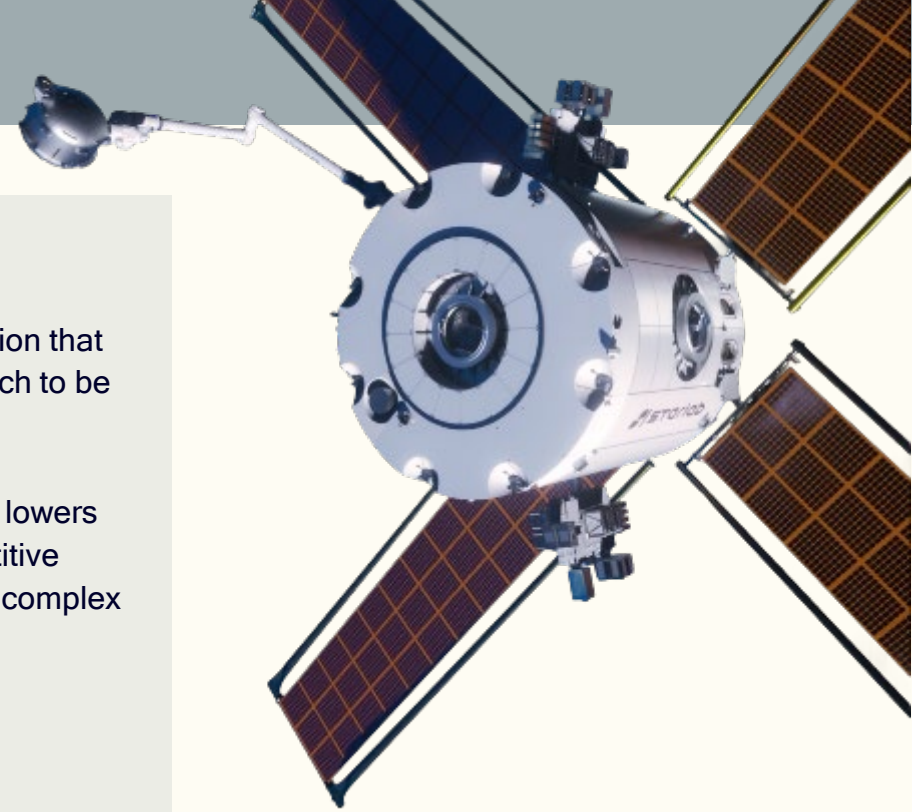
UNLEASHING THE NEXT GENERATION
OF SPACE DESTINATIONS

Unleashing the **Next Generation** of Commercial Space Stations

- A **global joint venture and network of partners**, ensuring a continued human presence in LEO and a seamless transition of microgravity research from the ISS into the new commercial space station era

- An **AI-enabled** space station designed to facilitate scientific discovery and technological advancement in space through its advanced, **user-driven design** and robust capabilities

Space Station Company that has Built & Operated Space Stations



JV PARTNERSHIP

- Experienced industry leaders reduce execution, technology and funding risks
- Cost transparency driven by commercial cost matching
- Each global partner represents a large, existing space station user and opens opportunities for international demand and funding

TECHNOLOGY

- Modern design leverages advanced technologies, energy efficiency and AI-enabled science and manufacturing
- Palantir's software and AI optimize operations and reduce maintenance costs

SINGLE LAUNCH

- Starlab is the only station that requires only one launch to be fully operational
- Single-launch solution lowers costs, enables competitive pricing and eliminates complex in-space assembly

VOYAGER

Payloads and hardware

Largest commercial user on ISS

Owns and operates the only private infrastructure on ISS

AIRBUS

Human space infrastructure

Technical design and engineering services

Engineering and Station Design Lead

Mitsubishi Corporation

Hardware and supply chains

Accelerating terrestrial product development with space research

iPark owner

MDA SPACE

Space robotics

External robotics, robotics interface and robotic mission operations

Palantir

AI and software

Enterprise-wide software data management to enhance operations

AI/ML payload integration

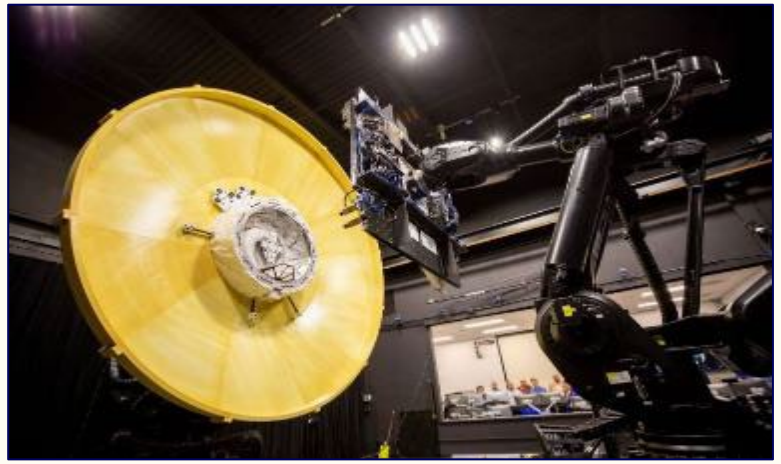
spaceapplications SERVICES

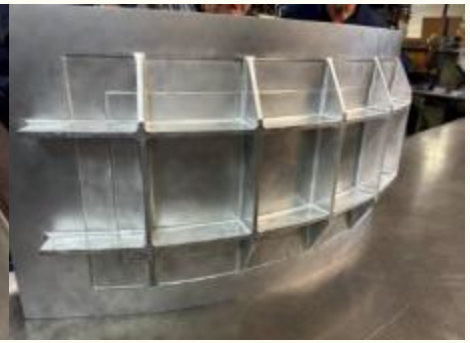
Payloads and Operations

Payload avionics, operations software, and microgravity payloads

Providing mission control software suite

Station & Operations Development





Station **Specification Overview**

LAUNCH CONFIGURATION

- Altitude: 500 km
- Inclination: 45° circular orbit

DEPLOYED

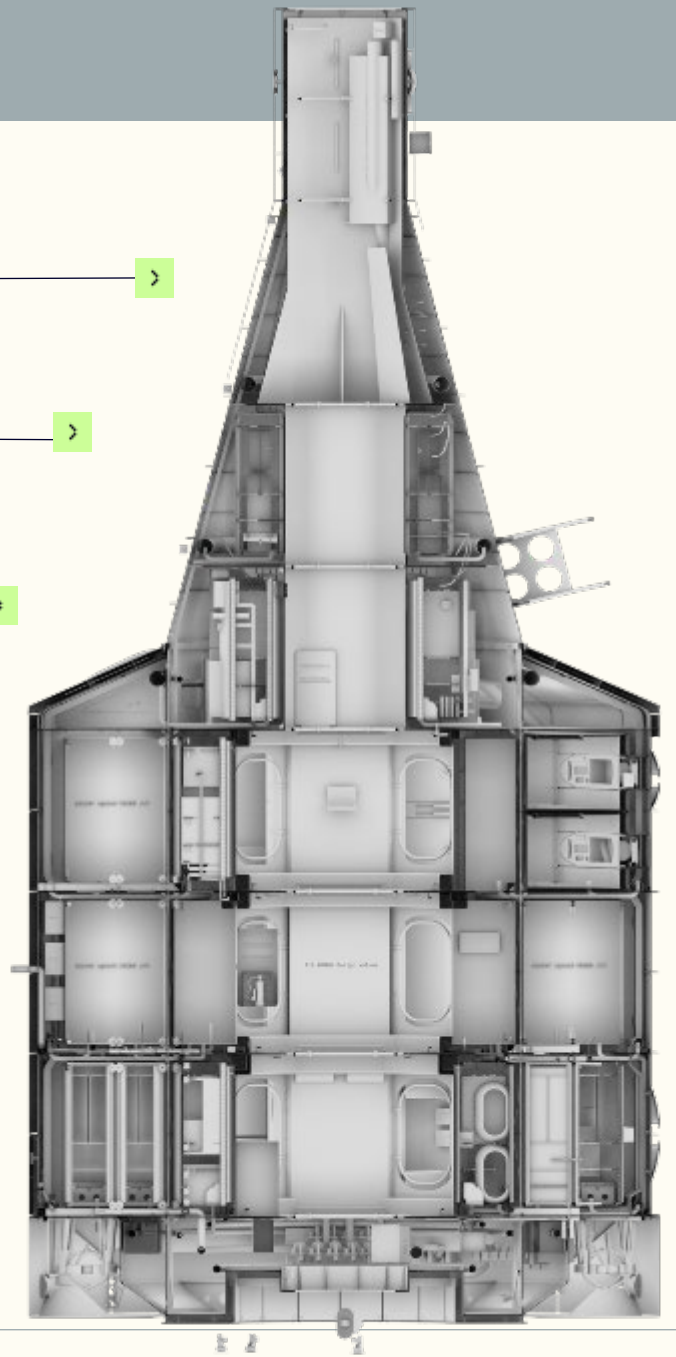
- 12 kW average payload power, internal and external
- 3 standard IDSS docking ports
- >2.5 Gbps communication to ground at Final Orbital Capability

OPERATIONAL

- Science airlock
- 2 external payload platforms for 18 external payloads
- External robotics to service external payloads
- 4 crew continuous presence and 8 crew during turnover or overlapping missions

Station **Cross Section**

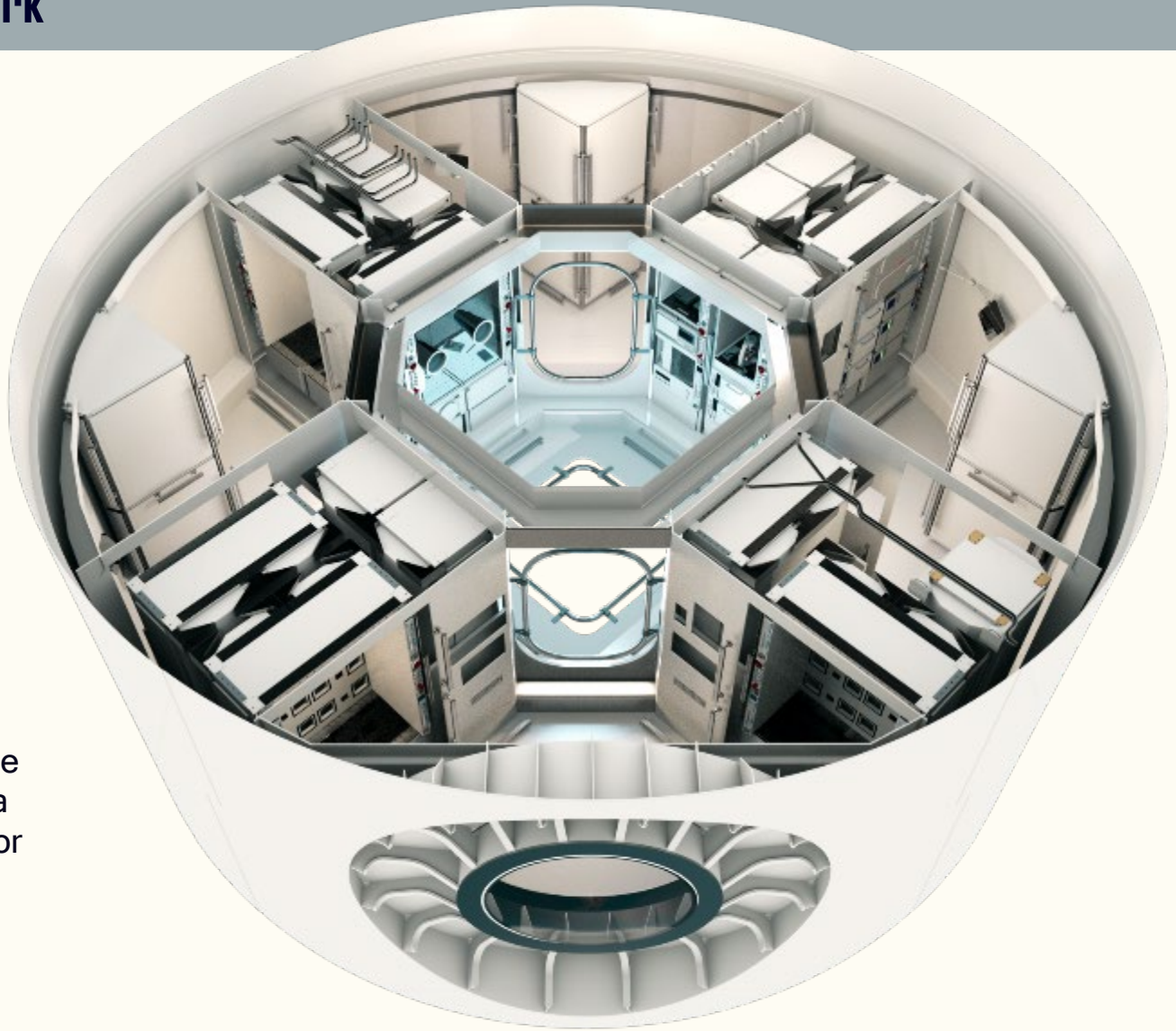
Deck 6	Stowage
Deck 5	Stowage
Deck 4	Stowage
Deck 3	Crew Quarters, Galley, Earth Viewing and Living Areas, 2 Internal Payload Platforms
Deck 2	Payload Bays, Orbital Laboratory
Deck 1	System Bays, Exercise Area, Lavatory, Hygenie Area
Deck 0	Subsystems, Power Distribution



Orbital **Science Park**

THE FIRST SCIENCE PARK IN SPACE

Starlab's core is a science park. Science parks are a proven business model for industrial and scientific innovation.



OUR PROCESS

The Starlab Science Park will be reconfigurable, allowing for scientific components to be upgraded, replaced or expanded as requirements change.

LABORATORIES

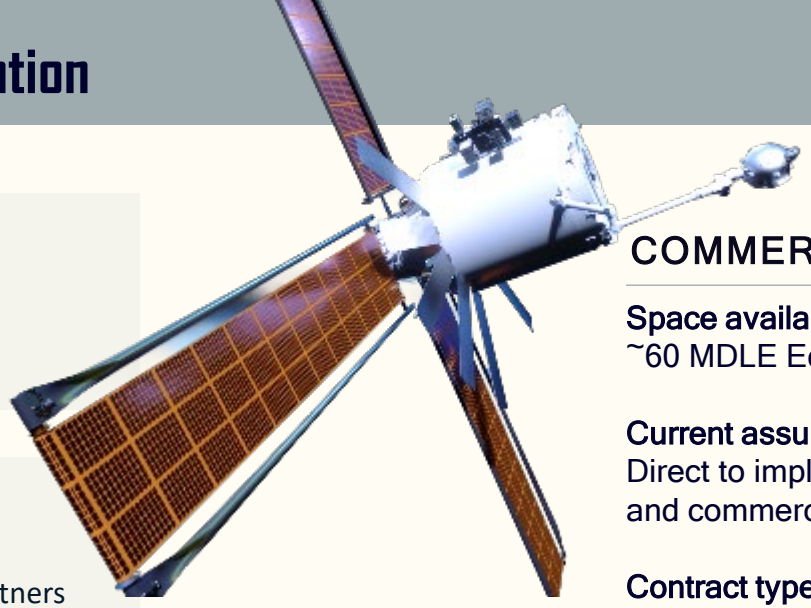
Featuring specialized facilities for biology, plant habitation, physical sciences, materials research and an open workbench area.

THE FUTURE

Standard payload platforms for single, double and Quad MDLE configurations. Starlab will host and manage dedicated space for commercial leasing and utilization.

Partnerships with science parks like Voyager's VISTA in Ohio, Innovation Park Zurich and Shonan iPark in Japan for terrestrial analogs will allow for researchers to see and feel what it's like to conduct science in space.

Orbital Station **Utilization**



BASIC RESEARCH

Universities, PI's, & R&D Centers

APPLIED RESEARCH

Implementation & Channel Partners

PRODUCTIZATION

Industrialization/Production, Science Parks

COMMERCIALLY AVAILABLE SPACE

Space available:
~60 MDLE Equivalent Slots

Current assumption:
Direct to implementation, channel and commercial clients for utilization

Contract type:
Lessee, volumetric pricing or hybrid revenue sharing

Power and thermal management:
12 kW nominal power, with peak up to 16 kW, for all MDLE locations, plus up to 2.4 kW thermal control per IPP

BASE LAB AVAILABLE SPACE

Space available:
~70 MDLE Equivalent Slots

Current assumption:
High percentage for government utilization through post-ISS service contracts

Contract type:
Resource based pricing by facility utilization