ASSEMBLY

Aims to develop and operate profitable, space business parks with gravity a decade ahead of its competitors.

We Provide Gravity™

Proprietary - Not for Distribution - Shared under NDA

Orbital

Orbital Assembly was established to develop, and operate profitable, space-based business parks with gravity a **decade ahead of its competitors**.

We Provide Gravity[™]

GRAVITY

Gravity in space alleviates serious medical conditions due to weightlessness, leading to an environment promoting profitable operations.

We believe that gravity will significantly reduce the frequency of replacing humans in orbit, by our estimates lowering annual operating costs by as much as 75%, which translates to an estimated \$150 million savings per astronaut tenant on our stations.



ONLY ORBITAL ASSEMBLY HAS

5+ Years Active AG design with multiple patents pending

> Mission ops for large scale on orbit assembly

The most recent sponsored report on the effects of microgravity and AG countermeasures

SPACE BUSINESS PARK WITH GRAVITY.

The **Pioneer-class**[™], planned to be one of the world's first and largest hybrid-gravity[™] space stations for both work and stay, featuring spacious microgravity modules, and the rotating *Gravity Ring*[™].

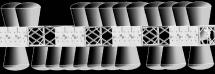
CONSTRUCTION TIME	24 to 42 MO
SCALABLE OCCUPANCY	28 to 54
HYBRID- GRAVITY	0 G57 G
VOLUME	2,080 to 4,000 m3**
PLANNED OPERATION	Late 2025*



*Pioneer Phase 1, Funding contingent **Comparable to 31 to 59 shipping containers



ORBITAL ASSEMBLY'S PLATFORMS: FEED FORWARD ARCHITECTURE

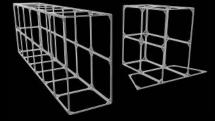


Orbital Assembly's patent-pending truss assembly machines can build versatile platforms for customer specific orbital applications; from autonomous orbital staging to habitable structures.

CONFIGURABLE FOR MULTIPLE MARKETS

"INERT" PAYLOADS OR LIVE DATA PROCESSING

"MOVEMENT WITHOUT REGRET"





Orbital Assembly's standardized payload modules are backwards compatible to meet current and future mission design, accommodating near term unmanned micro-g staging depots and scaling to crewed platforms.

STANDARDIZED

LOW END-USER OVERHEAD

RAPID TIME TO MARKET

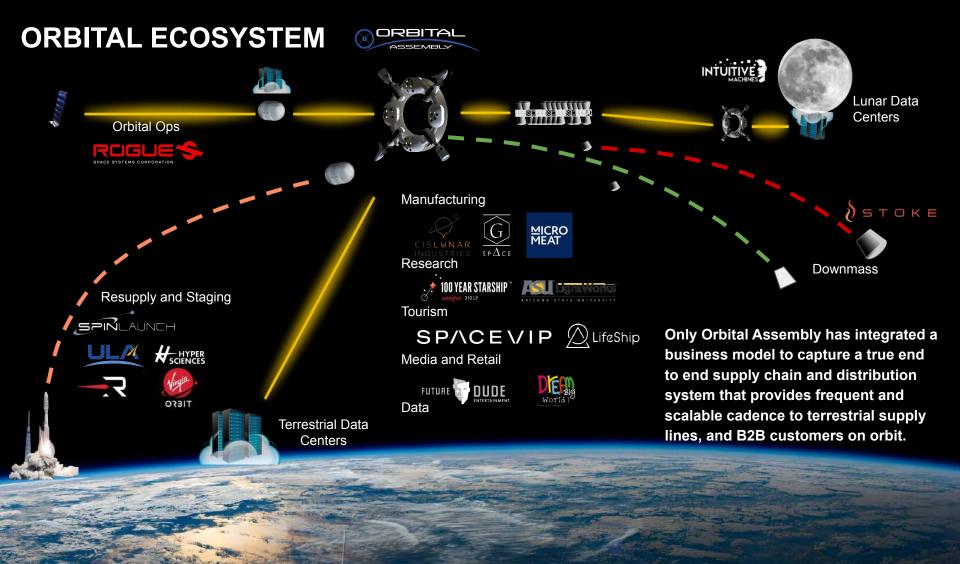


PIONEER-CLASS STATION Vertical Markets:

- Earth-to-space and space-to-space logistics
- Commercial production & R&D facilities
- Up to 54 space tenants and tourists for long term stay (months)
- Command, Control, and Communications (C3)
- Business to Business in situ markets for anticipated revenue ready missions and profitability in as soon as 28 mo.



Conceptual Render of Section Cut through Pioneer Station Module. Showing half Module. +/- 200 m3



COMPETITIVE ADVANTAGE

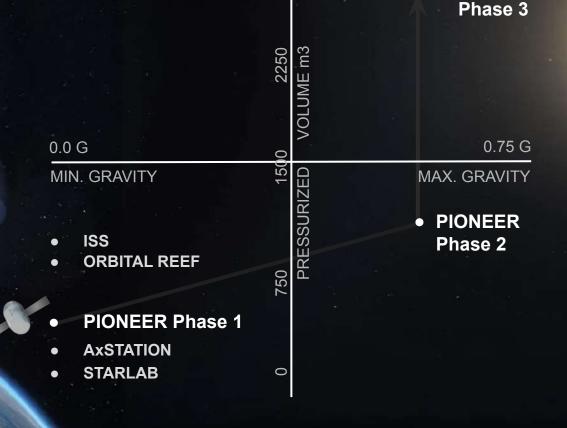
FIRST MOVER 28 Mo*

GRAVITY Up to 0.57 G

LARGEST CAPACITY 4-54 occupants**

MOST POWER Up to 200 kW

LARGEST VOLUME 400-4,000 m3**



3000

Orbital

Assembly

PIONEER

ORBITAL ASSEMBLY, ADDRESSING CURRENT UNMET MARKET DEMAND

The entire landscape of space access is undergoing a dramatic revolution; Orbital Assembly's plans exploit that to the fullest and set us apart from our competition. There is escalating demand for on orbit access with greater cadence and volume for scalable R&D and greater volume for manufacturing and production of commercial enterprise.



LOWER LAUNCH COSTS DOWN 99% BY 2025 SATELLITE BOOM INCREASED DEMAND FOR SPACE-TO-SPACE LOGISTICS 3+ YEAR ISS BACKLOG



COTS & COGS COST REDUCTIONS OF COGS / MORE AVAILABLE COTS FOR HABITABLE STATIONS FLIGHT PROVEN HARDWARE

ORBITAL ASSEMBLY'S BENCHMARKS AND STRATEGIC ROADMAP



19 Customer MOUs & LOIs 3 Patents Pending 2022

2019 Incorporation DSTAR Demo

DSTAR R&D

2020

A 2023 Fabrication

Integration and

Testing

2024

Pioneer Phase 2 & 3 2026

2025

Launch

Pioneer Phase 1

2027+ Fleet Expansion



400M³+ anticipated profitable micro-gravity station. (Equivalent volume of 6 Shipping Containers)

With profits and secured investments, we can accommodate up to three fully functioning Stations by 2029.





Capacity to position stations anywhere in cislunar space, Mars, and beyond.

CORE TEAM

Space Real Estate Development Company using space flight heritage commercial off the shelf (COTS) products and our own innovative proprietary technology to build hybrid-gravity space stations with artificial gravity. **Over 150 years** of space heritage, business development, entrepreneurship, and over 30 successful space missions.









Rhonda Stevenson CEO President Tim Alatorre, NCARB COO Chair of the Board Co-founder Thomas Spilker, Ph.D. CTO Vice Chair of the Board Co-founder Rob Miyake Senior Thermal Engineer Board Member, Co-founder

STRATEGIC PARTNERS



FIRST MOVER ADVANTAGE

PROFITABILITY IN AS SOON AS 24 MONTHS

ECONOMIES OF SCALE

VERSATILE PRODUCTS THAT SCALE TO HABITABILITY

SCALABILITY AND MODULARITY

PROPRIETARY ADVANTAGE

PROFITABLE FEED FORWARD ARCHITECTURE



CONTACT Rhonda Stevenson, CEO RStevenson@orbitalassembly.com



Thank You

We Provide Gravity[™]