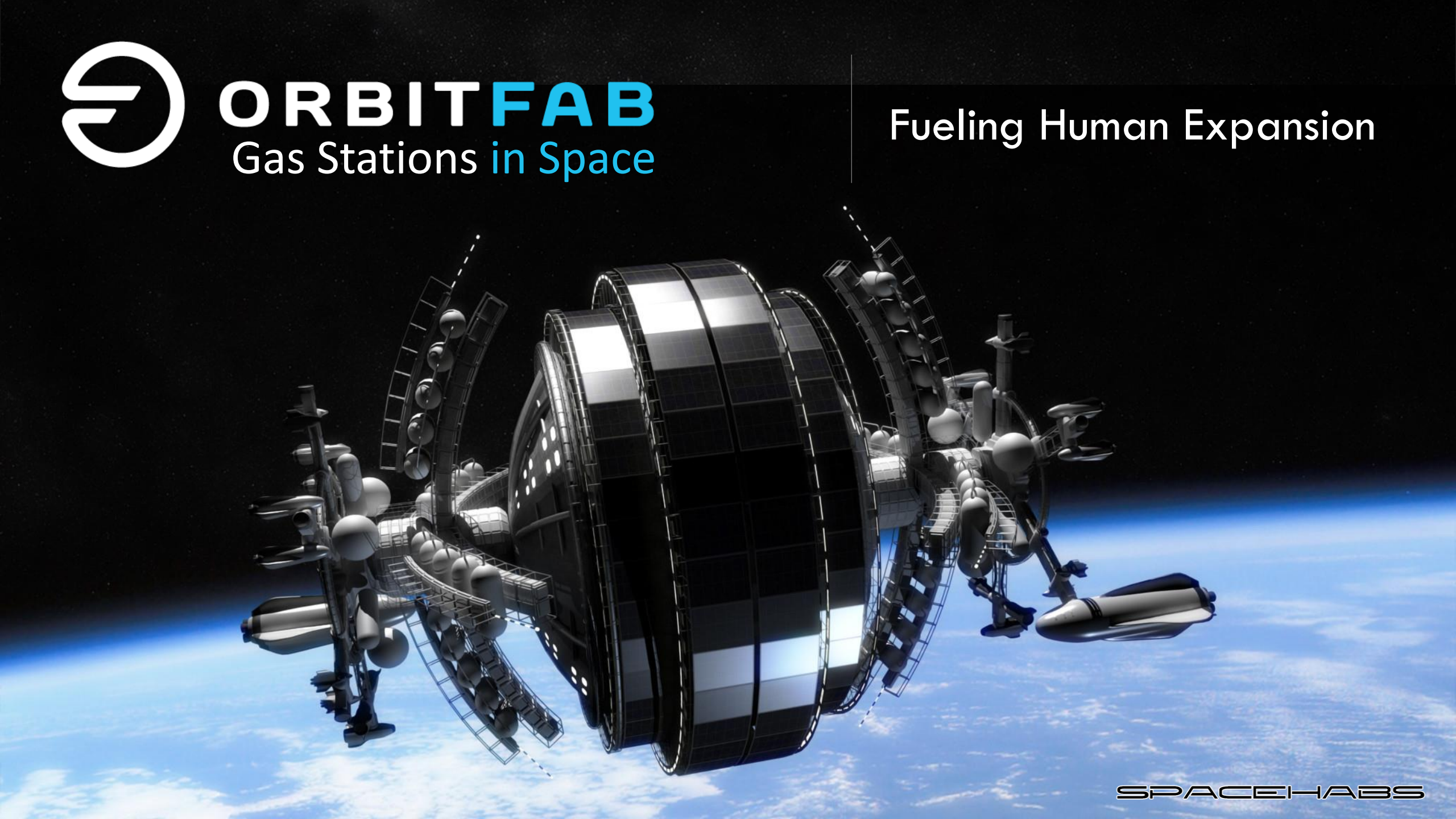
ORBITFAB

Gas Stations in Space

Fueling Human Expansion



Our Vision

Get people excited about the possibilities and freedoms that refueling allows to the industry. This is the first step to colonizing the Moon, mining asteroids, building large space structures, etc. We intend to become the fuel and materials depot that will catalyze the industry, just like SpaceX did with the launch industry.

Our Future - A Bustling Industrial Economy

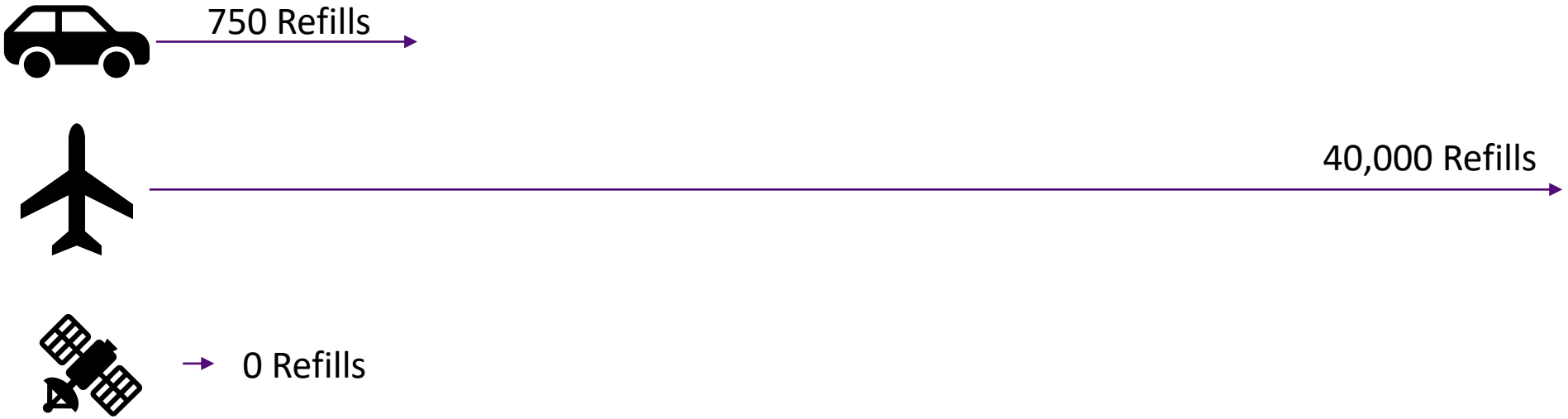
Our Present

- Satellites are launched with all the fuel they will ever have.
- After launch, they are on their own.
- They are moved as little as possible, to save fuel.
- When they are out of fuel, they become junk.

- At launch, 50% of a satellite is fuel.
- Imagine a 1 ton car carrying 1 ton of fuel.
- Imagine throwing away your car when that fuel runs out!

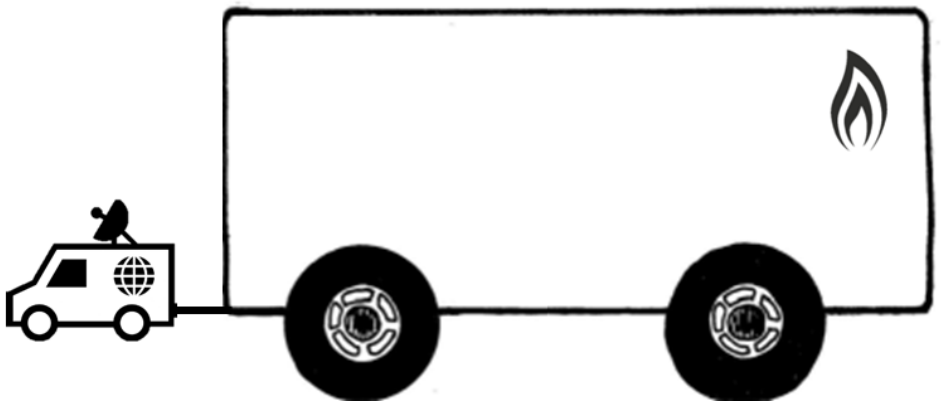
The “Single Use” Paradigm

It is ridiculous to imagine a car or aircraft carrying all its fuel.



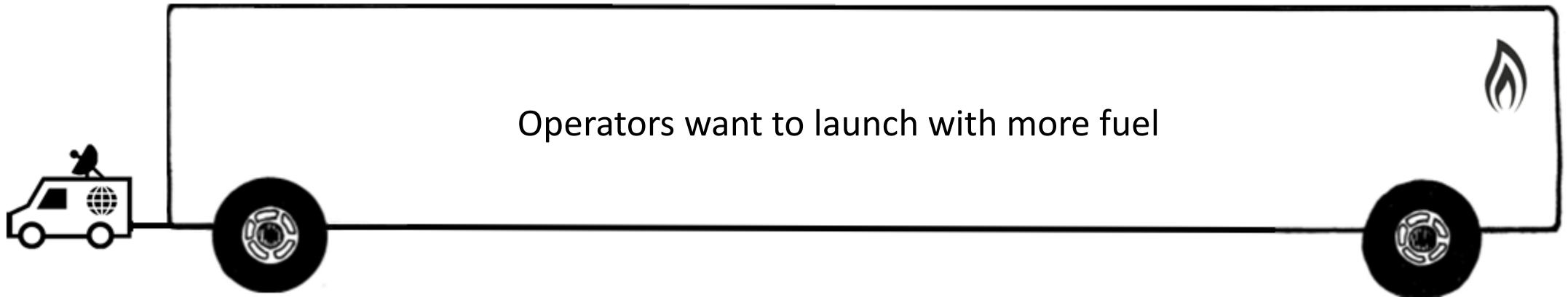
The entire satellite industry is built on this mindset.

The Only Option



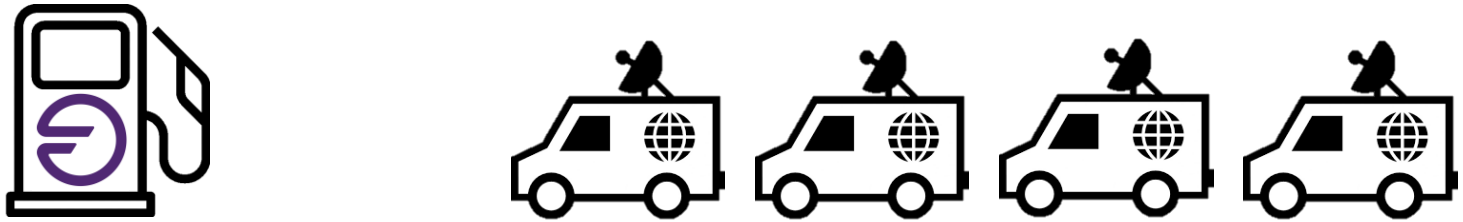
- 50% of all launched mass is fuel, effective spend $3Bn annually
- Fixed, upfront CAPEX
- No flexibility in the business model

What Satellites Operators Say They Want



- More fuel results in longer asset life → more revenue
- More fuel improves asset utilization → more revenue
- Physics and economics limit the amount of fuel that can be launched in the tanks

The Orbit Fab Solution



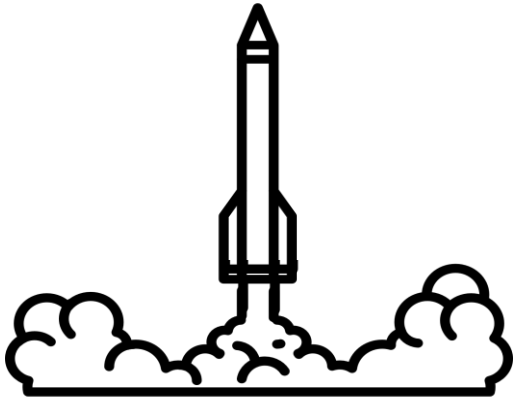
Reusable Satellites

need a

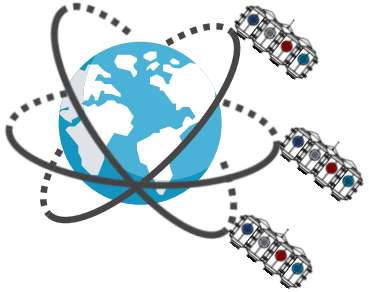
Gas Station in Space

What We Do

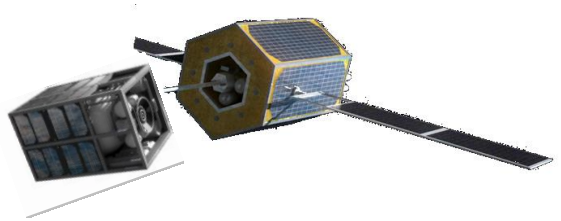
Build tankers



Launch tankers to orbit

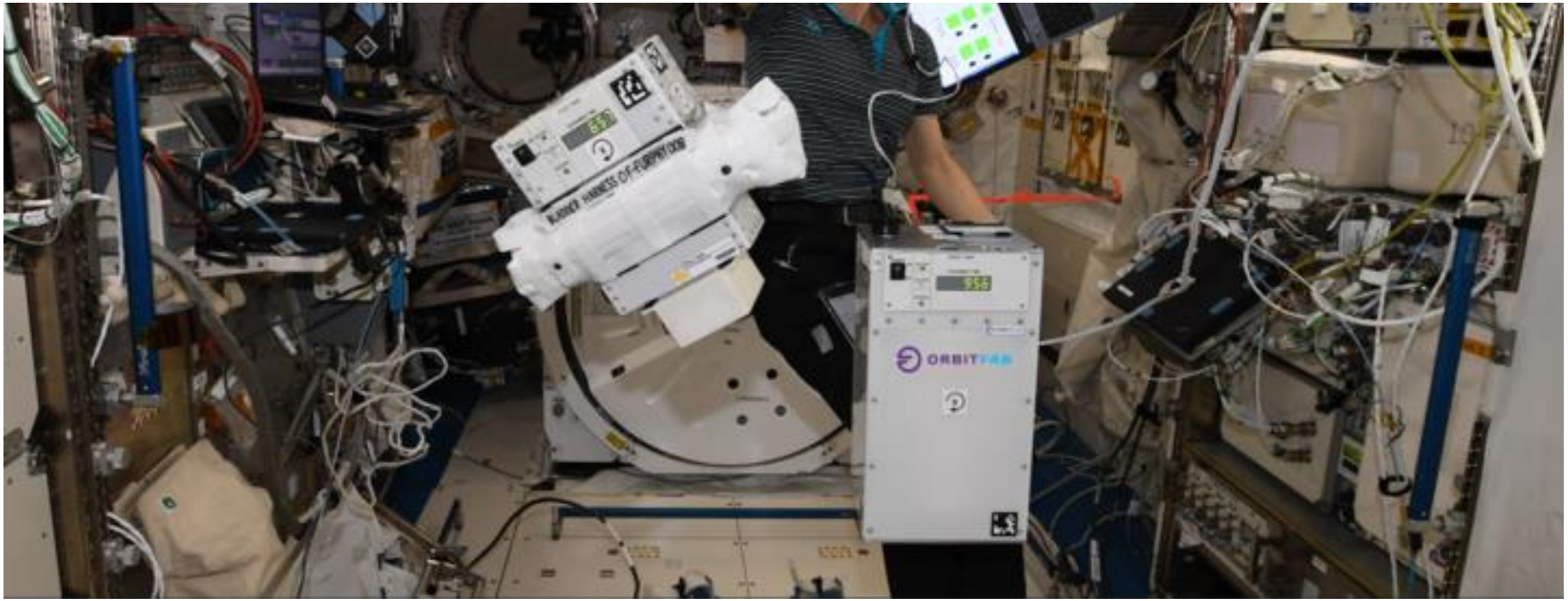


Store tankers in orbit



Customers buy propellant

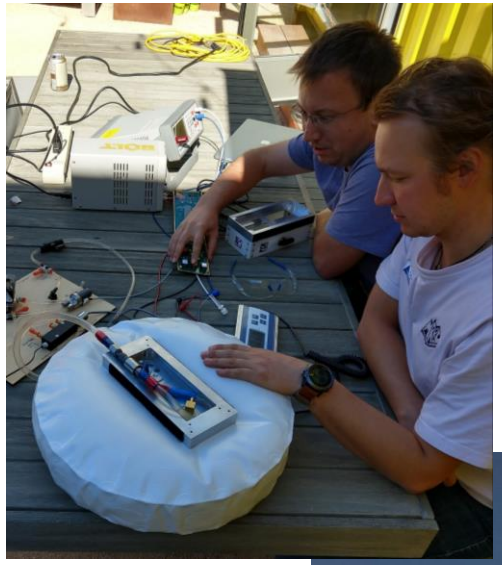
Topping up the tanks on the ISS

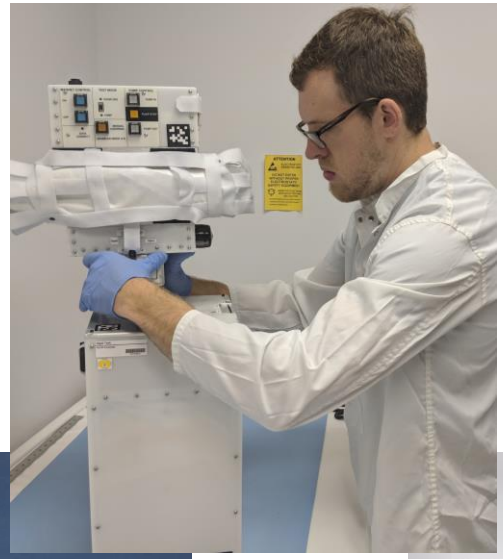


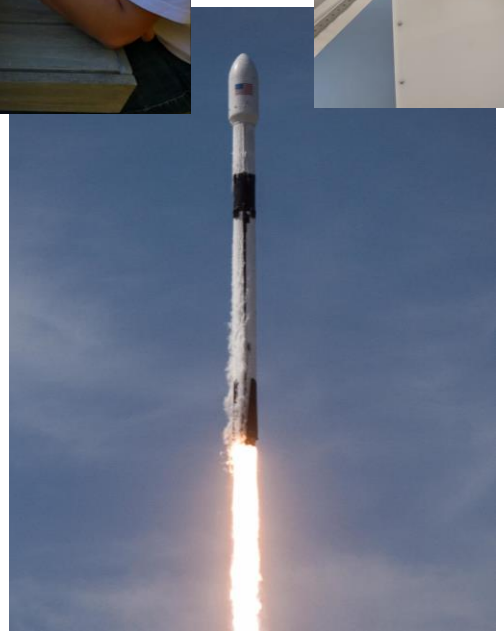
12 Month Achievements

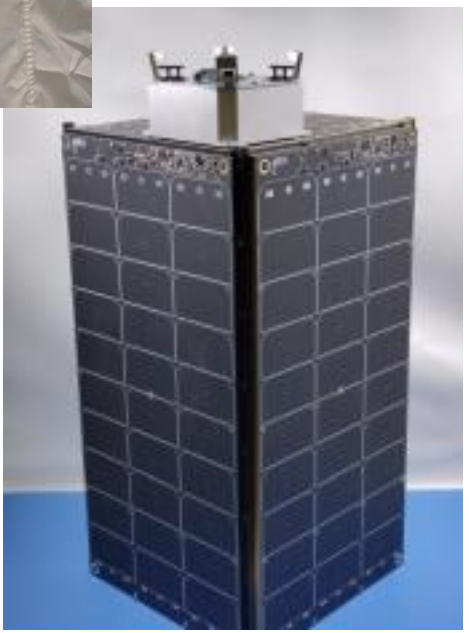
Within 12 months Orbit Fab has:

- Developed and flew two tanker test-beds to the International Space Station
- Tested tanks, valves, pumps, plumbing in zero-g
- Assessed various fueling port technologies
- Resupplied the ISS with water
- Executed contracts with the ISS National Lab
- Announced commercial release and first sale of the RAFTI Fueling Port



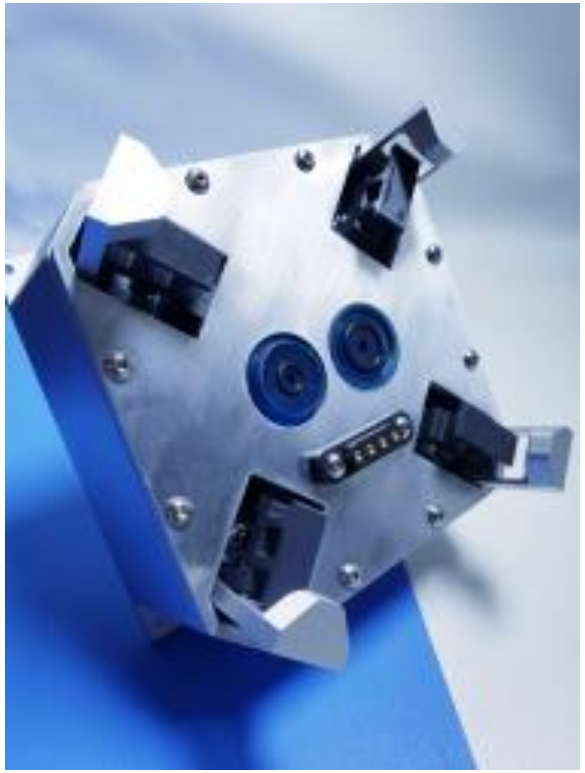




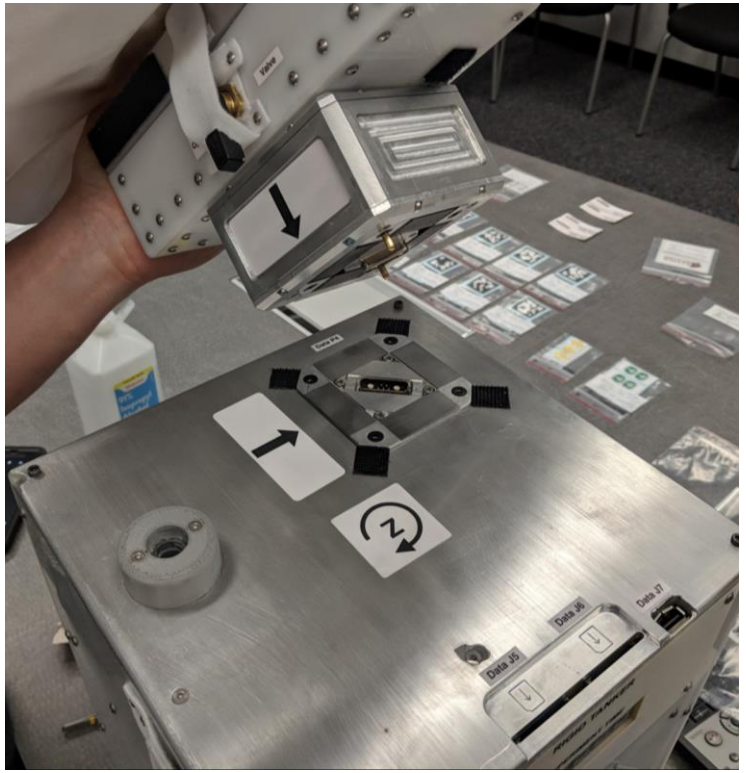


Fueling Ports

Production Design
Manufacturing May 2019



Pre-Production Prototype
Tested April 2019



Technology Assessment
Launched to ISS Dec 2018

Mining, Refining and Transport

My personal thoughts on beamed power requirement for a bustling industrial economy

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