



ASTRA

SPACETECH DAY

2022

KELYN BRANNON

CHIEF FINANCIAL OFFICER

DISCLAIMER AND FORWARD-LOOKING STATEMENTS

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MAYOR MARILYN EZZY ASHCRAFT

MAYOR OF ALAMEDA

KELYN BRANNON

CHIEF FINANCIAL OFFICER

CHRIS KEMP

FOUNDER, CHAIRMAN AND CEO



IMPROVE LIFE ON EARTH FROM SPACE™



BEFORE



AFTER



Vice Prime Minister Mykhailo Fedorov
via Twitter



Courtesy of NASA
Hurricane + Cyclone Image Gallery



Photo by Brady Kenniston

SPACE IS THE NEXT ECONOMIC FRONTIER

\$1.0+ Trillion

Total Space Economy in 2040⁽¹⁾

\$216 Billion

Satellite Manufacturing Spending through 2030⁽²⁾

\$40.7 Billion

Government Investment in Space⁽³⁾

400+

Private U.S. Companies⁽⁴⁾

Source: Wall Street Research, Space Capital.

(1) Per Morgan Stanley Research.

(2) Based on projected FY 21 DoD and NASA budgets from Jefferies. *What's Up in Space: New Launchers, Same Incumbents* (Aug. 2020).

(3) Companies currently operating space assets or with plans to launch them in the next 3 years.

(4) Companies currently operating space assets or with plans to launch them in the near term.



NUMEROUS MULTI-BILLION DOLLAR MARKETS



GLOBAL BROADBAND CONNECTIVITY

Reliable, low latency connectivity that could leapfrog wireless



IOT / M2M

Monitoring billions of objects



EARTH OBSERVATION

Monitoring activity on earth



NATIONAL SECURITY

Early warning systems



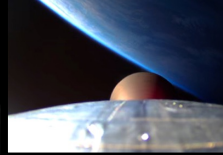
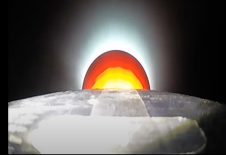
NEXT-GENERATION WEATHER, GPS, AND OTHER SERVICES

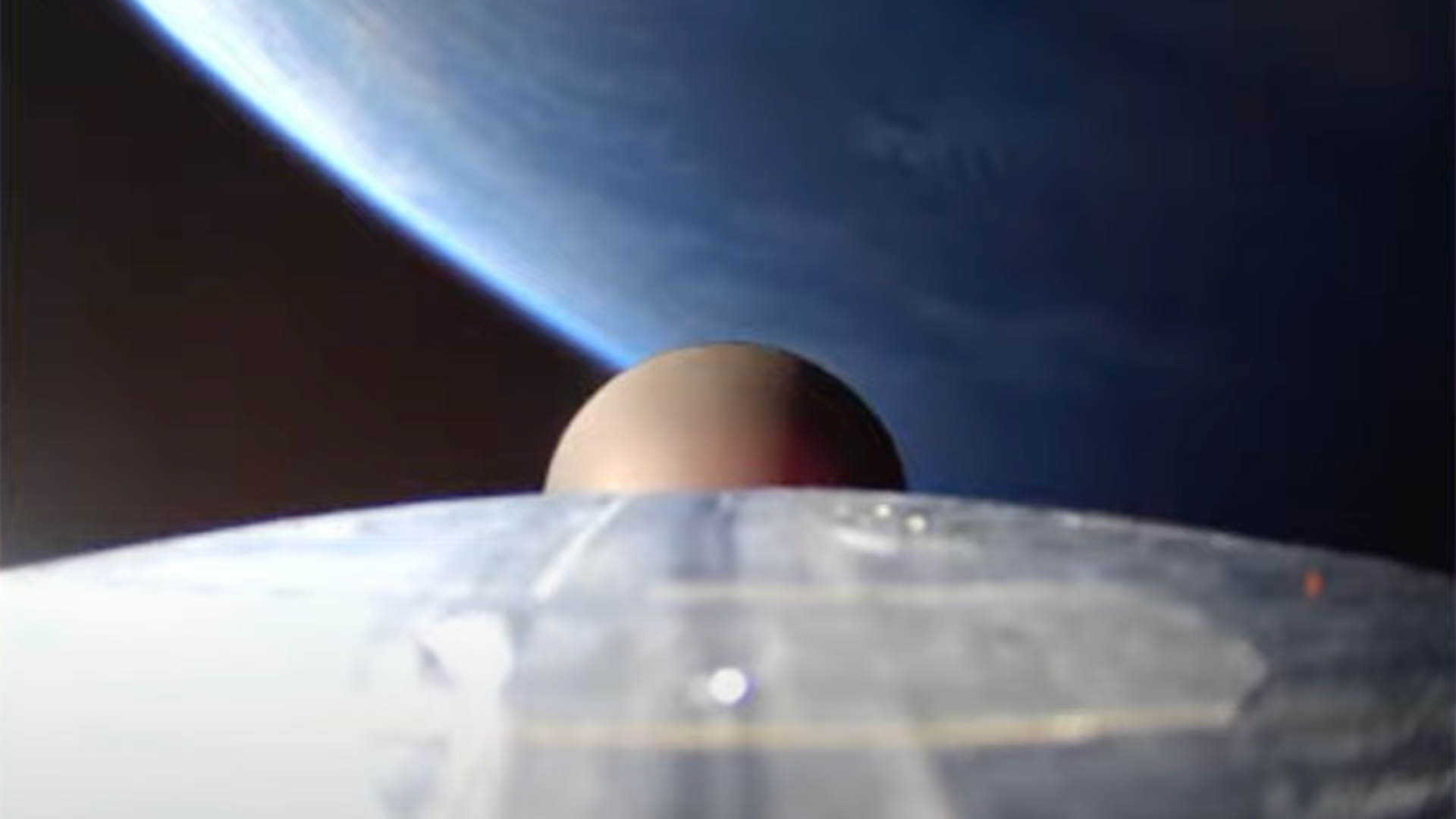
Leapfrogging wireless



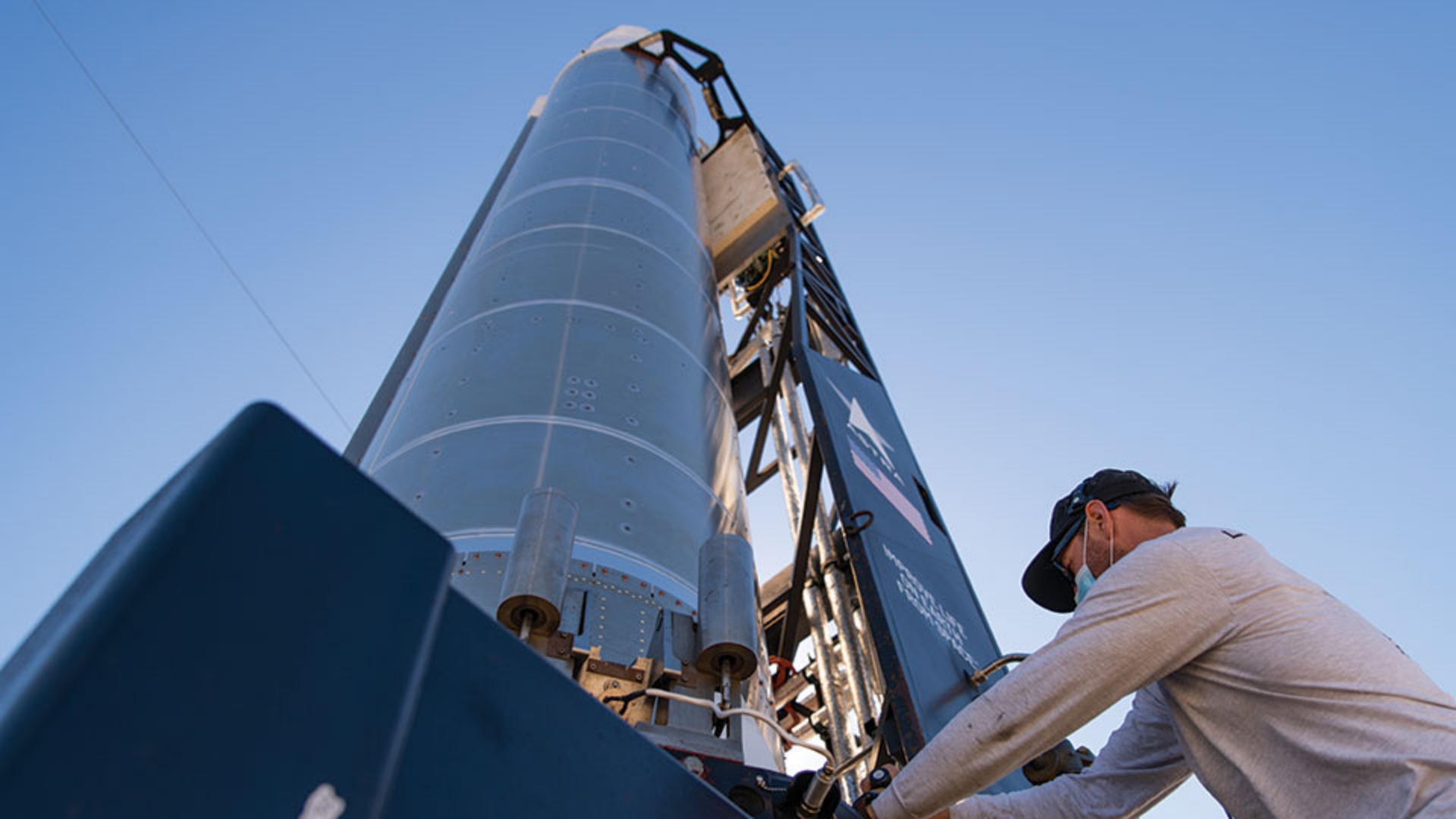


A vision for a healthier and more connected Earth.











KODIAK, AK

59°-110°

SAXAVORD, UK

75°-96°
(Planned 2023)

CAPE CANAVERAL, FL

33°-57°



LOWEST COST PER KILOGRAM

Depreciation and amortization of rocket & development
Labor in launch ops
Minimum fuel, insurance, and operating costs



LOWEST COST PER LAUNCH

Raw material cost
Amortization of factory equipment
Labor in manufacturing and launch ops





DR. WILL MCCARTY

PROGRAM SCIENTIST, NASA

DR. ADAM LONDON

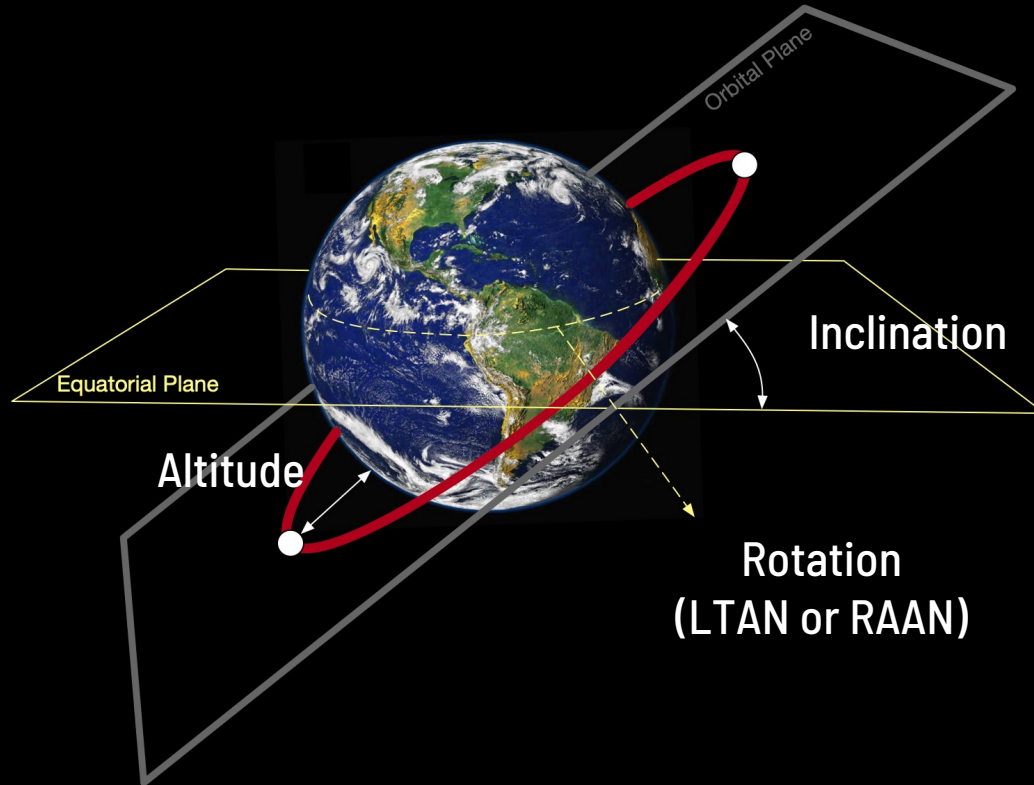
FOUNDER AND CTO

WHY SMALL ROCKETS?

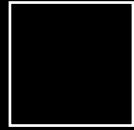
- ORBITAL COMPLEXITY
- ECONOMIES OF SCALE
- CAPITAL EFFICIENCY



MANY ADDRESSES IN SPACE



CONSTELLATIONS NEEDS



DEPLOYMENT

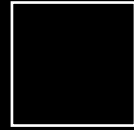


SPARES/REPLACEMENT



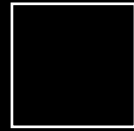
END-OF-LIFE REPLENISHMENT

CONSTELLATIONS NEEDS

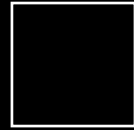


DEPLOYMENT

ASAP



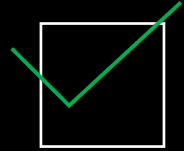
SPARES/REPLACEMENT



END-OF-LIFE REPLENISHMENT

CONSTELLATIONS NEEDS

✓
ASAP



DEPLOYMENT

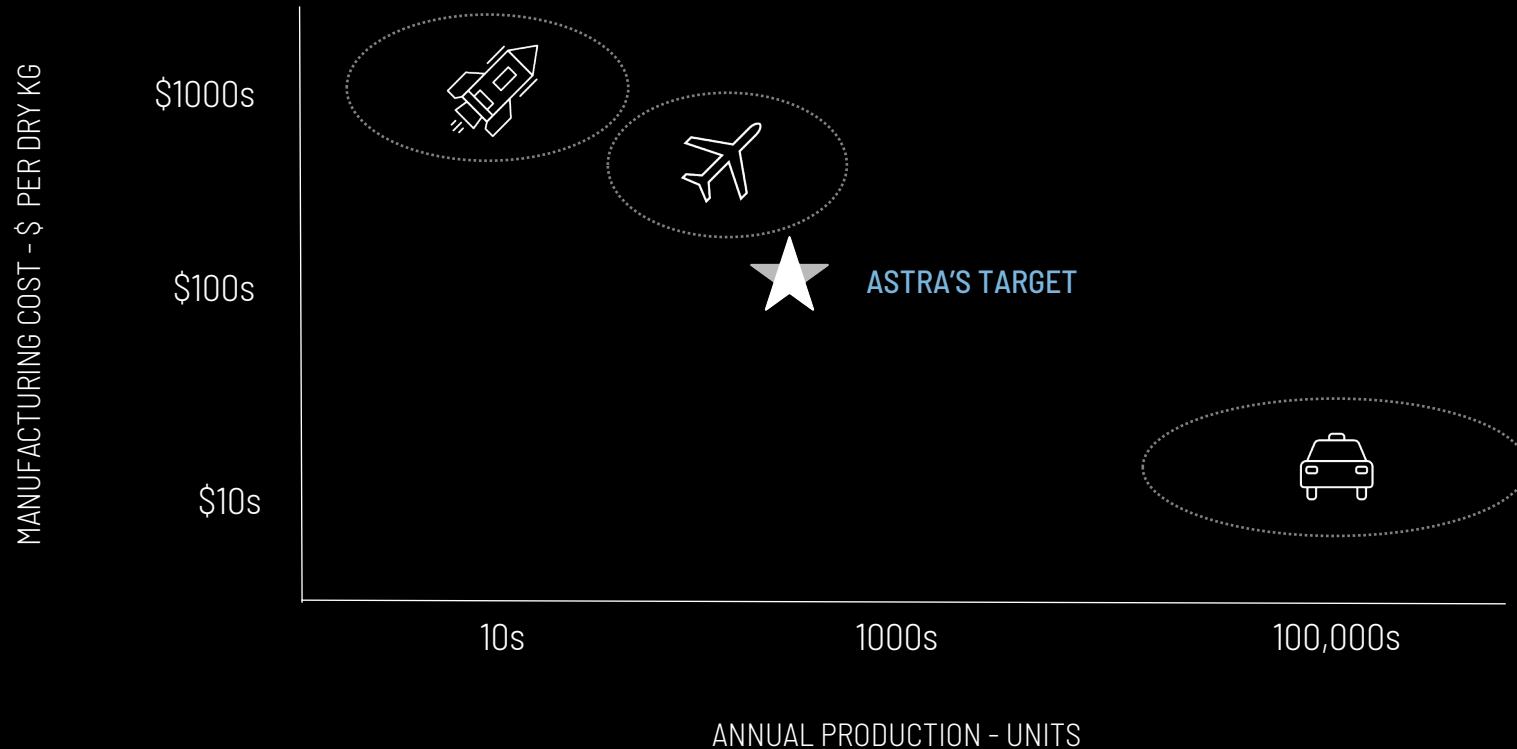


SPARES/REPLACEMENT



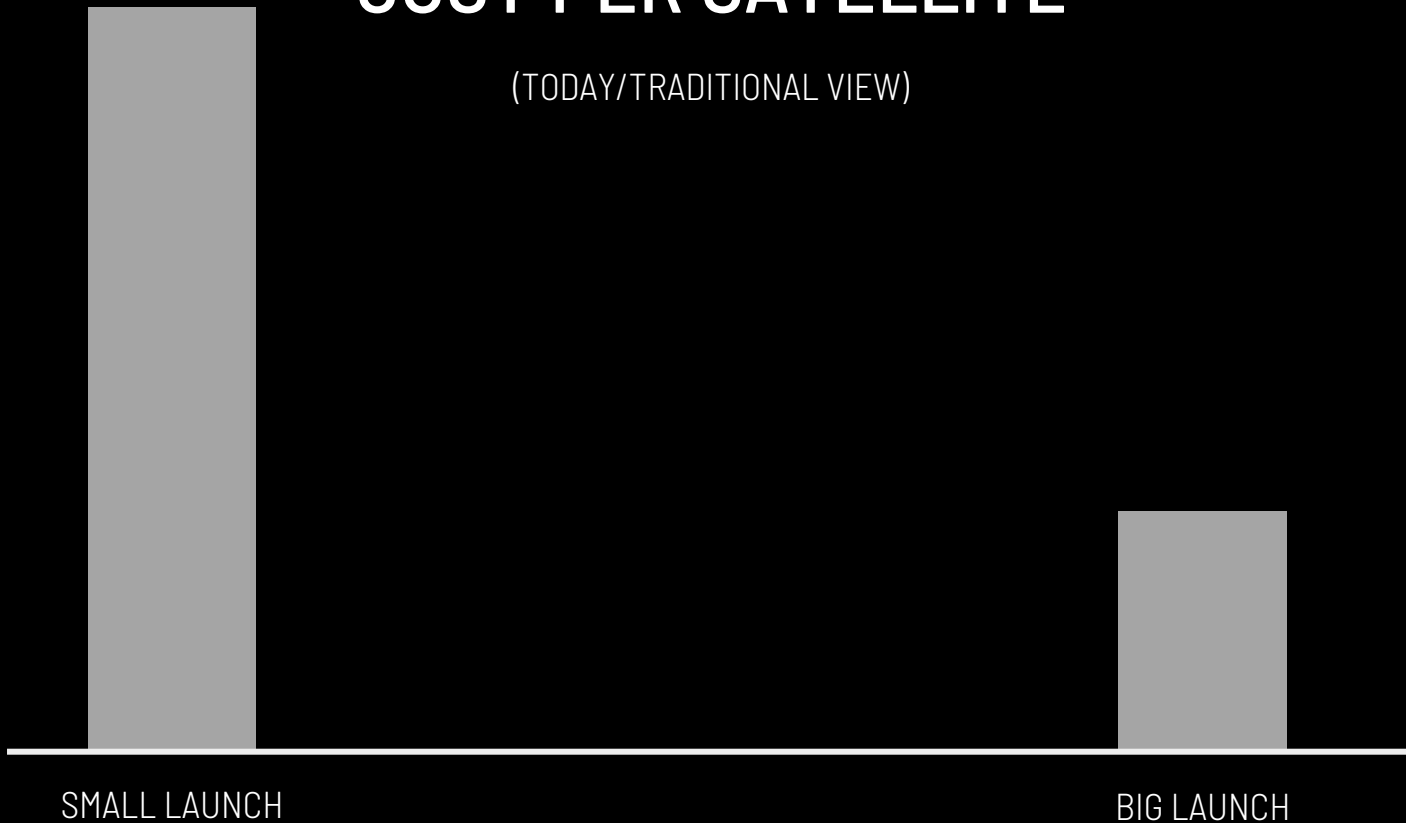
END-OF-LIFE REPLENISHMENT

ECONOMIES OF SCALE



COST PER SATELLITE

(TODAY/TRADITIONAL VIEW)



COST PER SATELLITE

(AT SCALE)



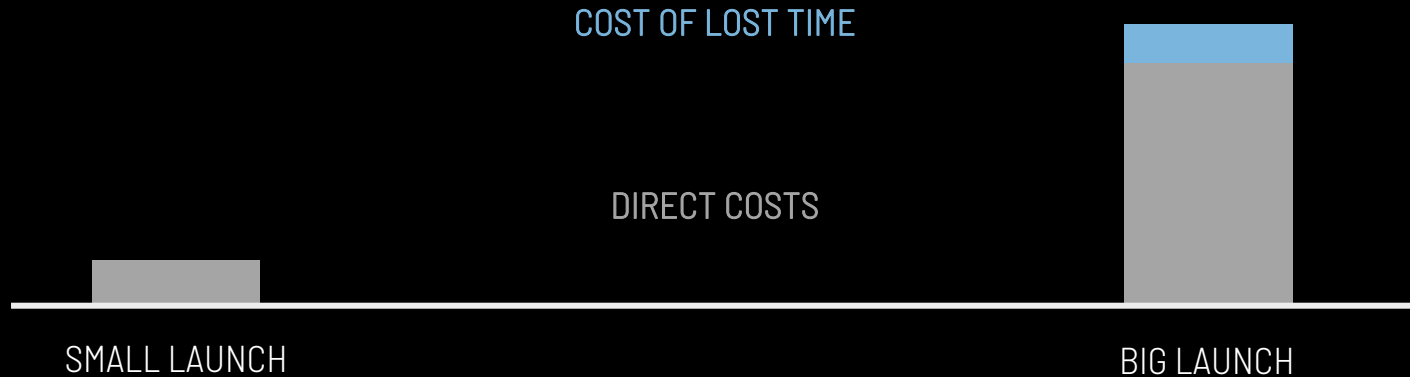
COST PER SATELLITE

(AT SCALE)



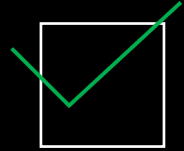
COST PER LAUNCH

(AT SCALE)



CONSTELLATIONS NEEDS

✓
ASAP



DEPLOYMENT



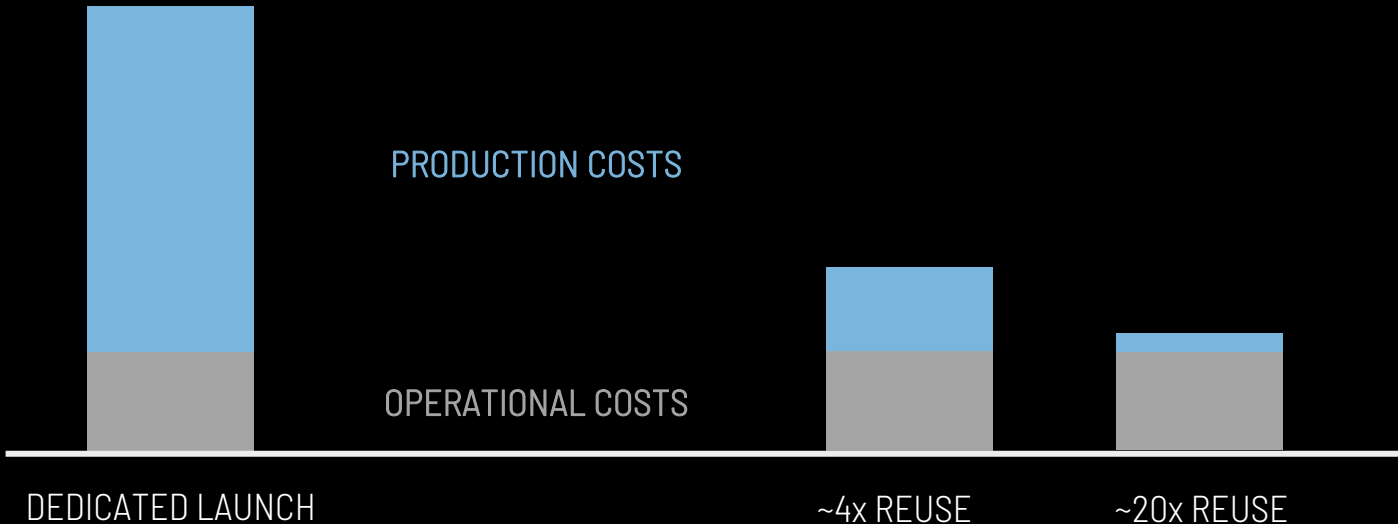
SPARES/REPLACEMENT



END-OF-LIFE REPLENISHMENT

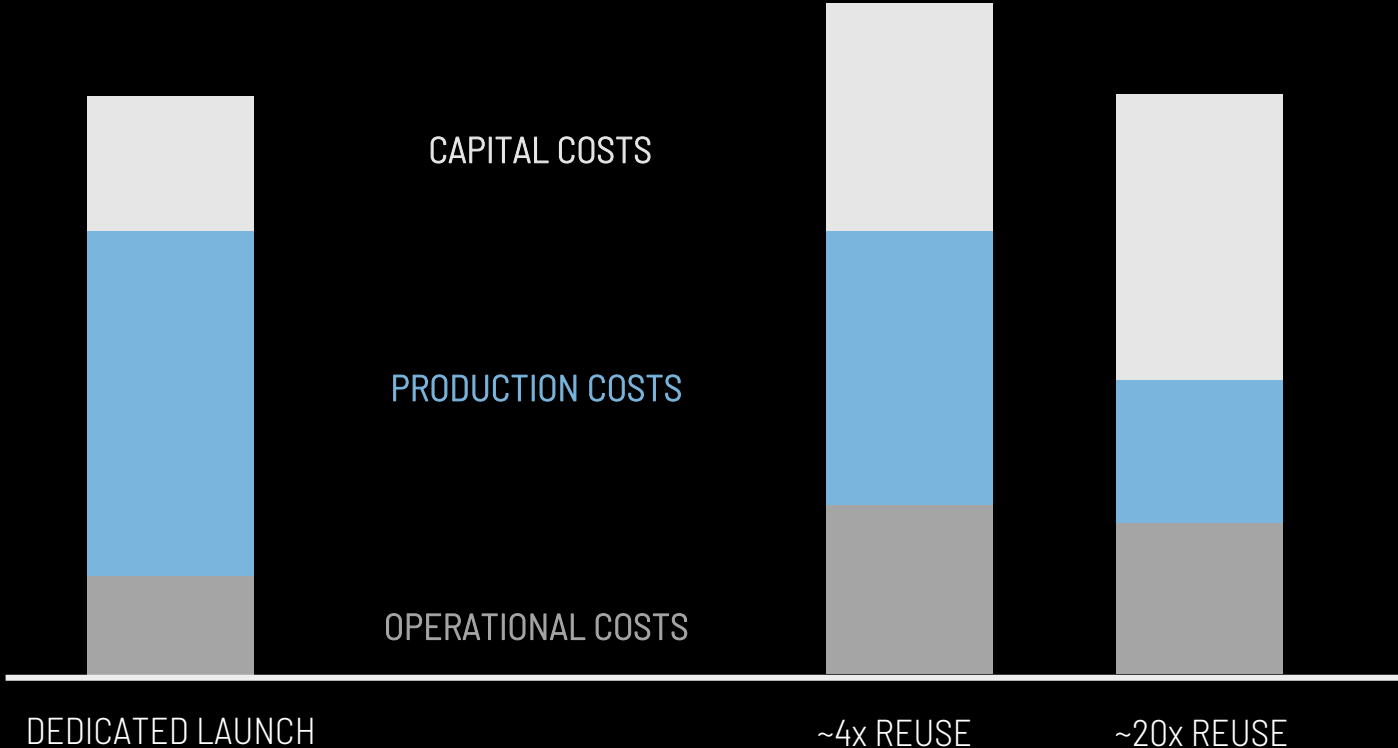
WHAT ABOUT REUSABILITY?

(TRADITIONAL VIEW)



WHAT ABOUT REUSABILITY?

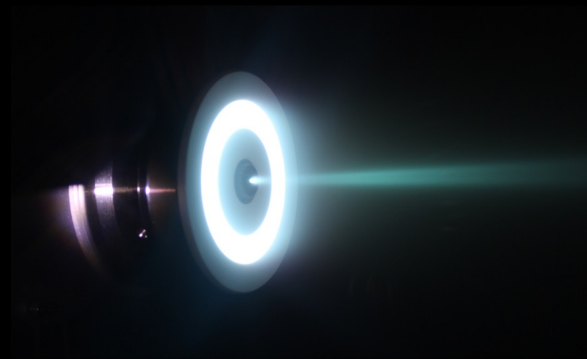
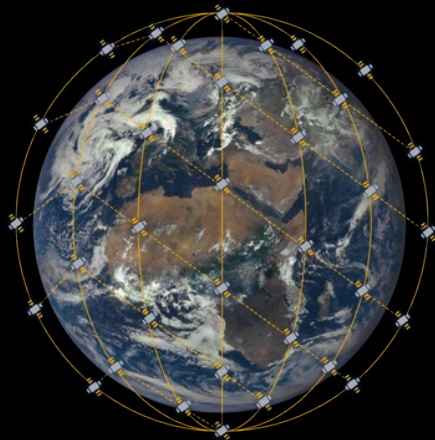
(FULL ECONOMICS)



SIMPLE ROCKETS, MADE AT SCALE

CHRIS KEMP

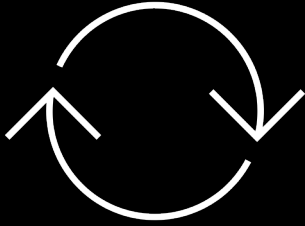
FOUNDER, CHAIRMAN AND CEO



LAUNCH SYSTEM 2.0



CADENCE



CAPACITY



COST



Global Orbital Space Launches

Q1 2022

Orbital Launches by Launch Provider

Last quarter, SpaceX had the most orbital launches, followed by CASC

11
LAUNCHES

SPACEX

8
LAUNCHES



4
LAUNCHES

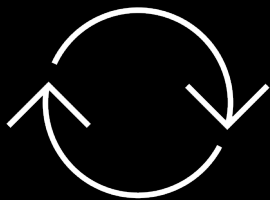


2
LAUNCHES



1
LAUNCH





DESIGNED FOR WEEKLY LAUNCH*

**Many factors outside of Astra's control such as regulatory bodies, licenses, spaceport capacity and customer readiness may impact realized launch cadence.*



21 → 8



1 DAY
RECYCLE TIME



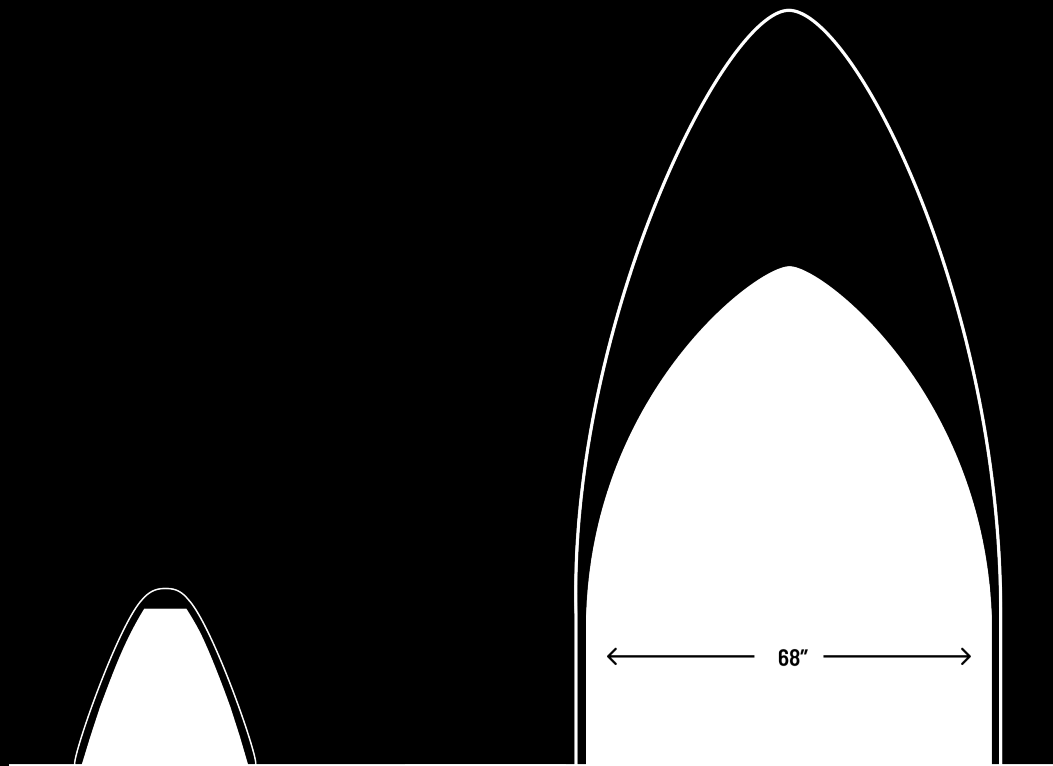
SaxaVord, Scotland

180 KG

AVG. LAUNCH MASS PER SATELLITE 2021-2030

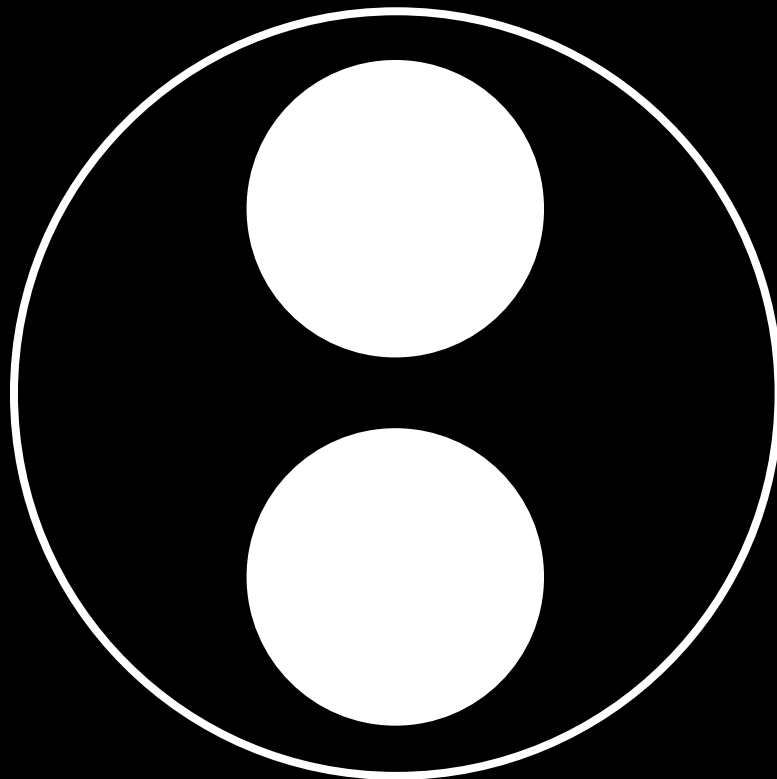
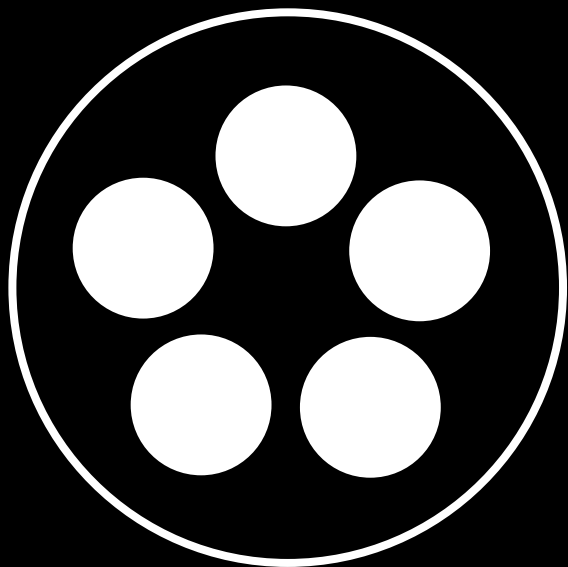


300 KG PAYLOAD TO LEO

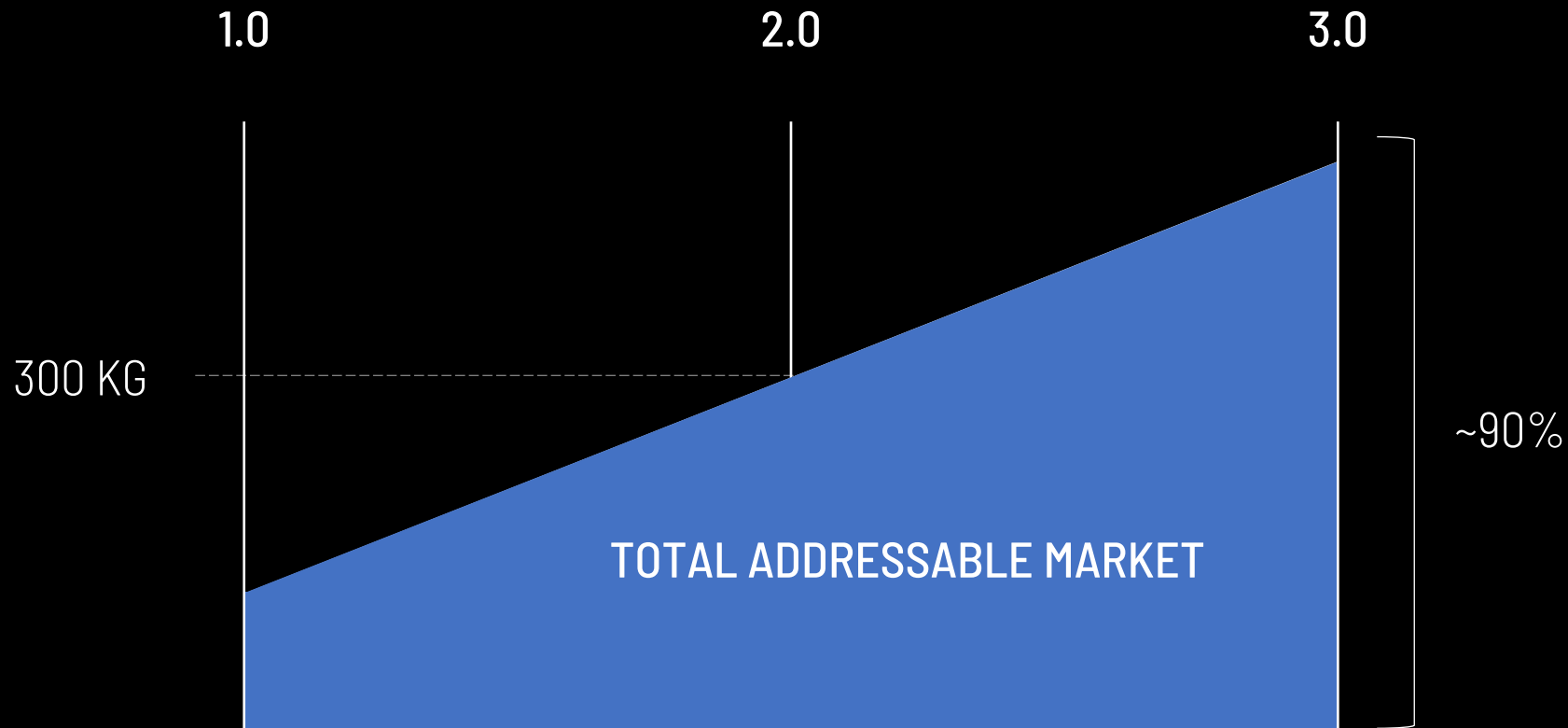


ROCKET 3.3

ROCKET 4.0



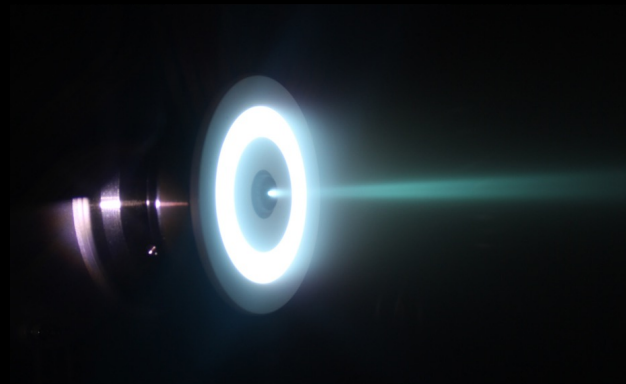
\$ 3.95M - BASE LAUNCH PRICE



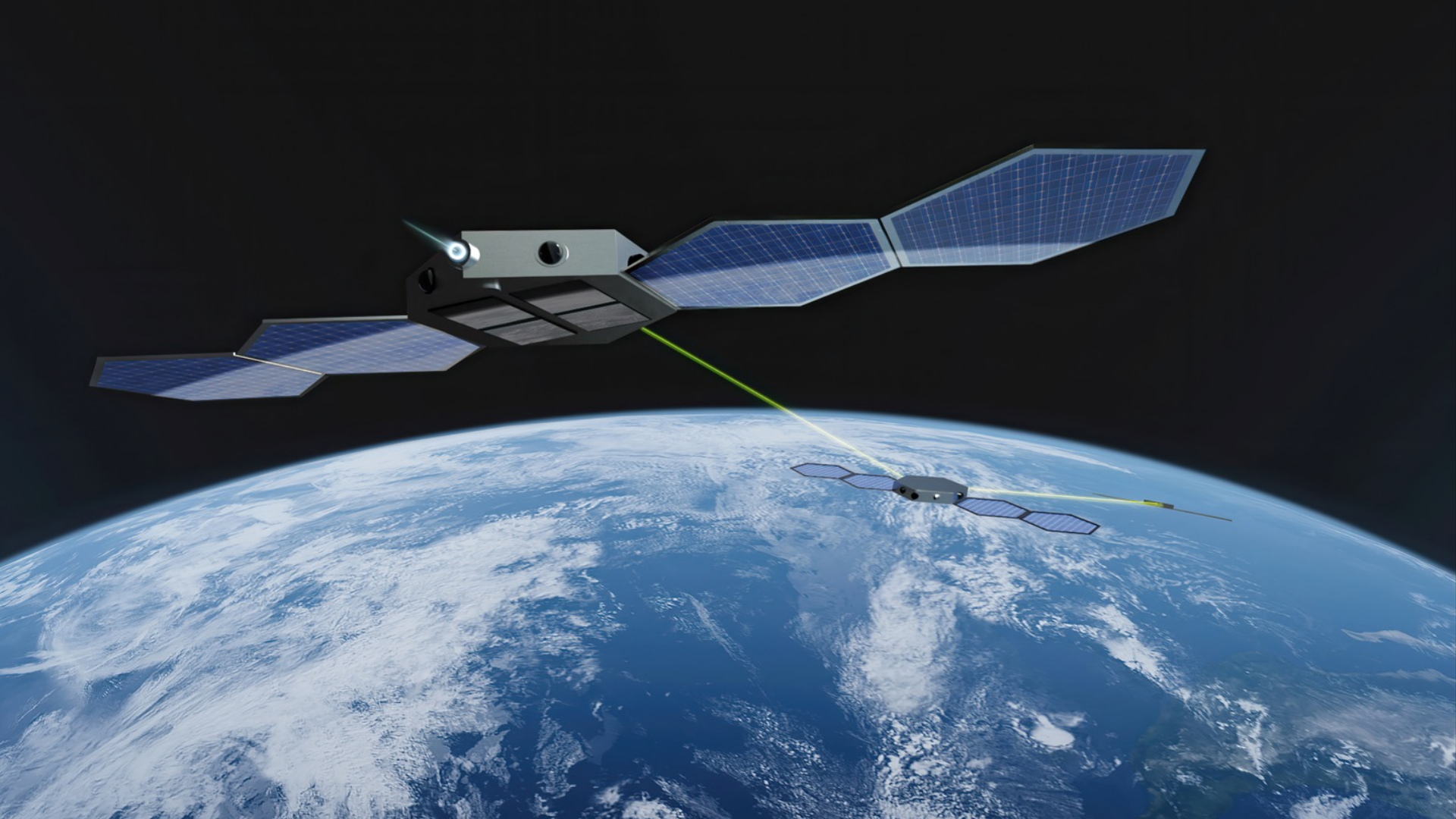
SPACE PRODUCTS

82

Spacecraft Engines Sold



SPACE SERVICES



BENJAMIN LYON

CHIEF ENGINEER, EVP ENGINEERING & OPERATIONS





502

0

Don't forget:
Take us on
MPL























A1

A1

A2

EXIT

ASTRA





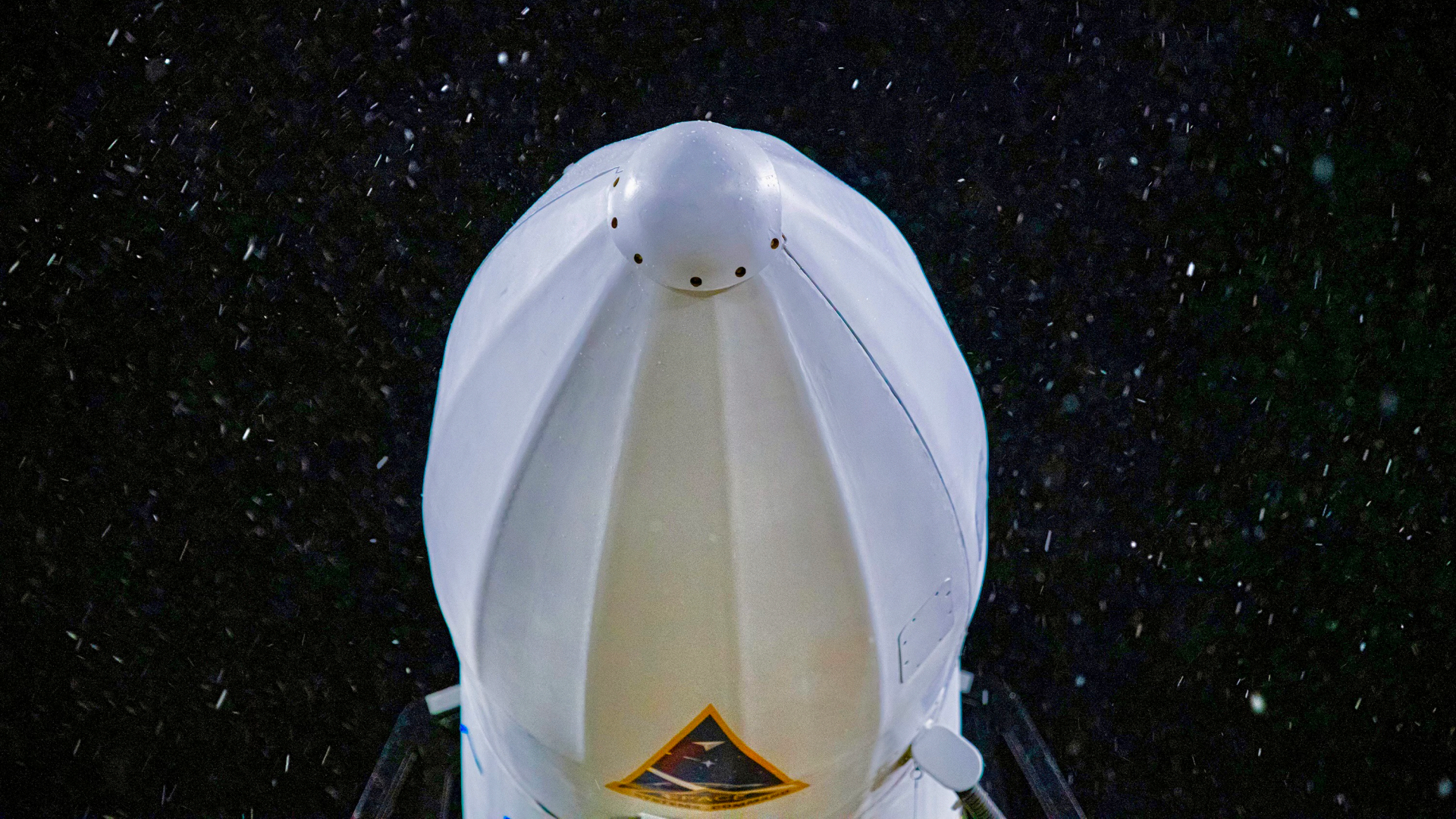
AMFU 424315 ZL 42P3

ASTRA

AMFU
424315
ZL 42P3



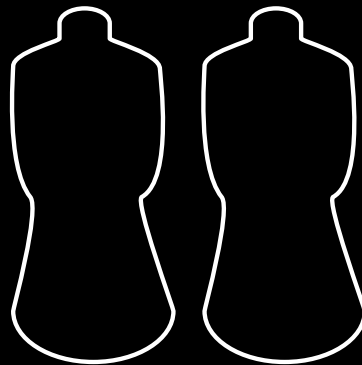
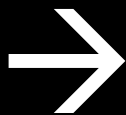
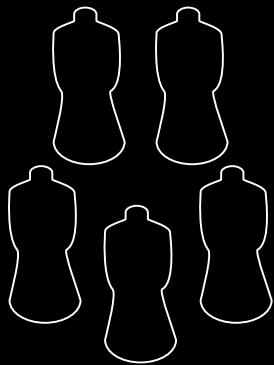


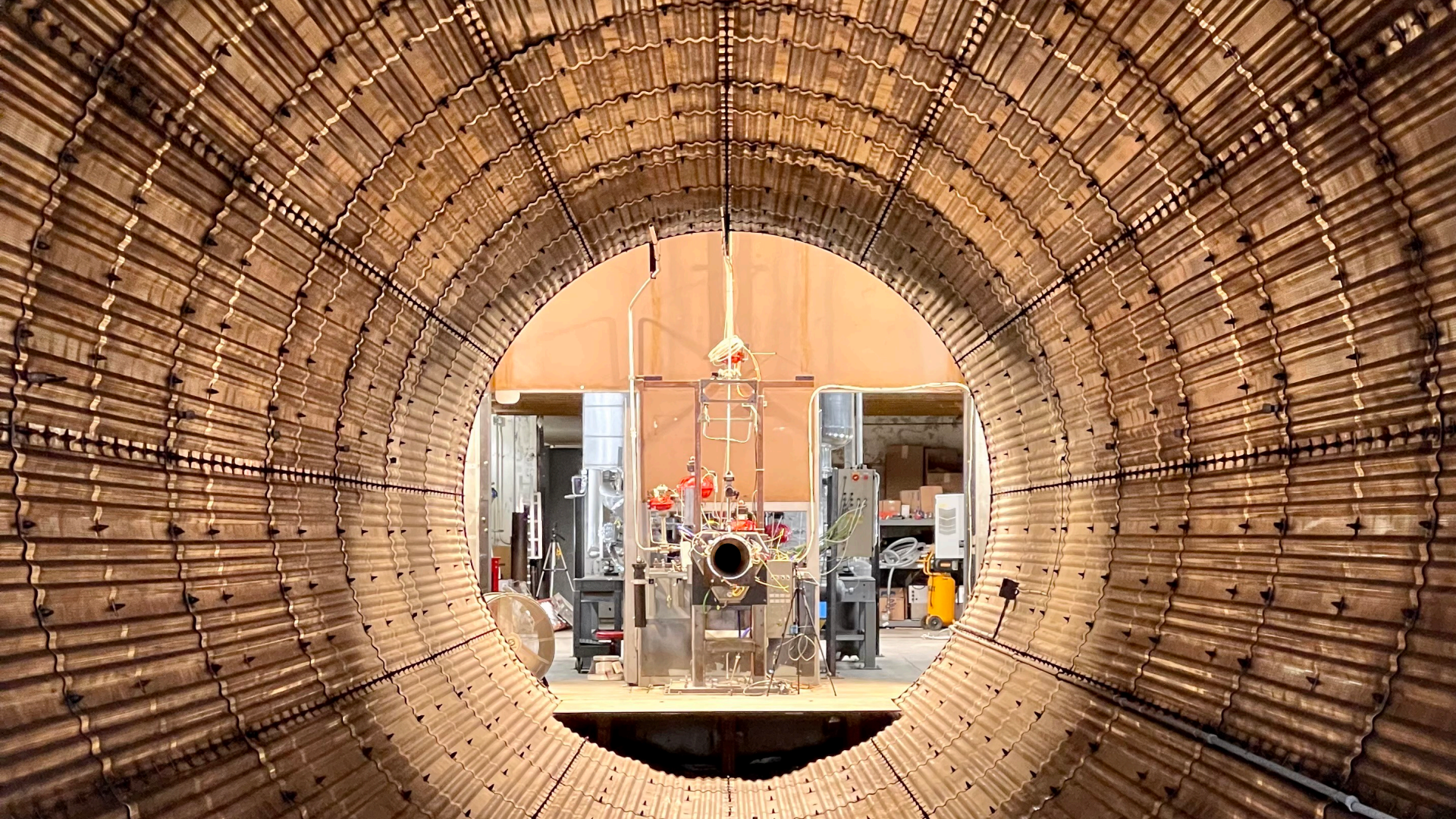


LV0011

LV0011

LV0012











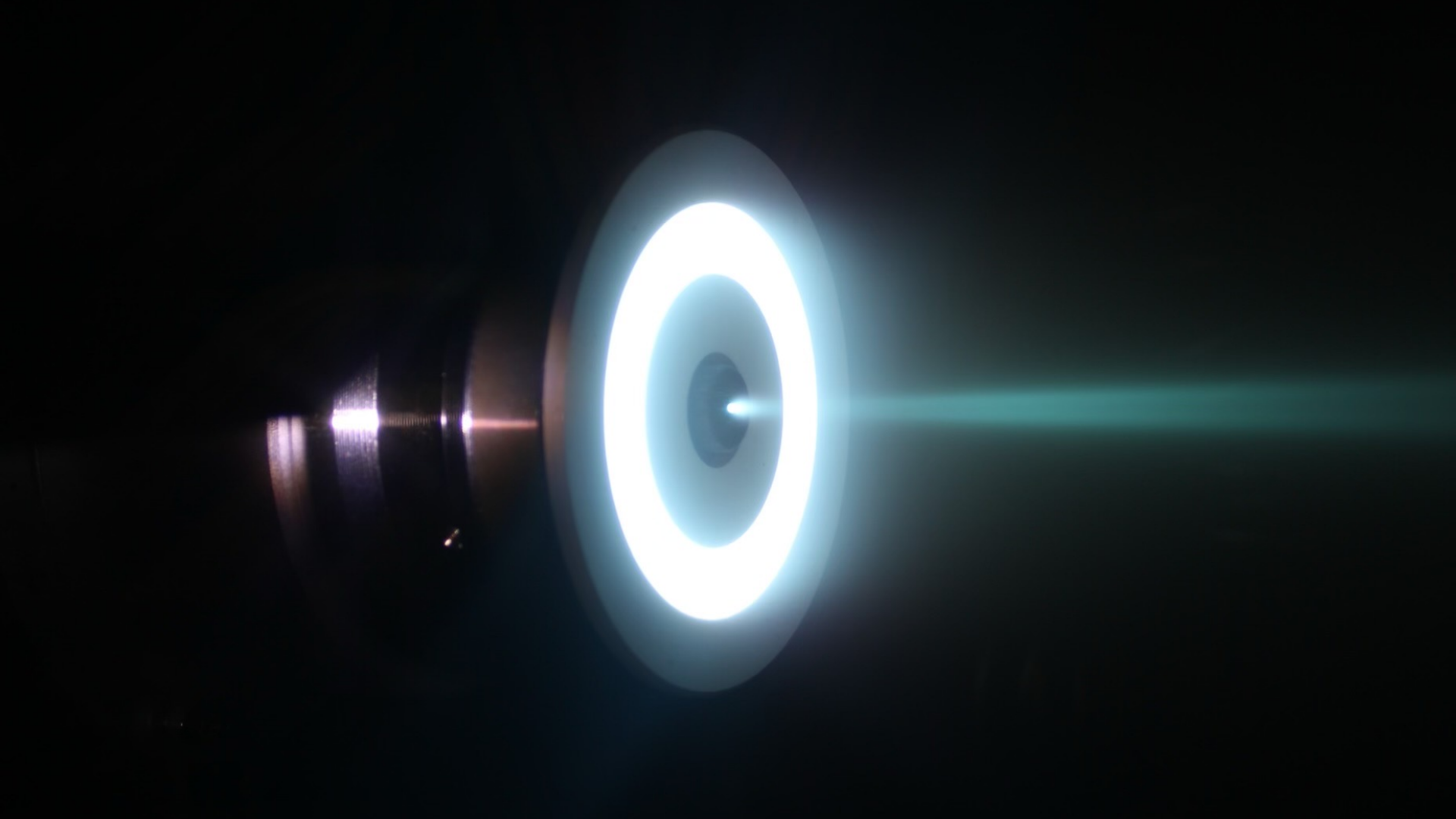


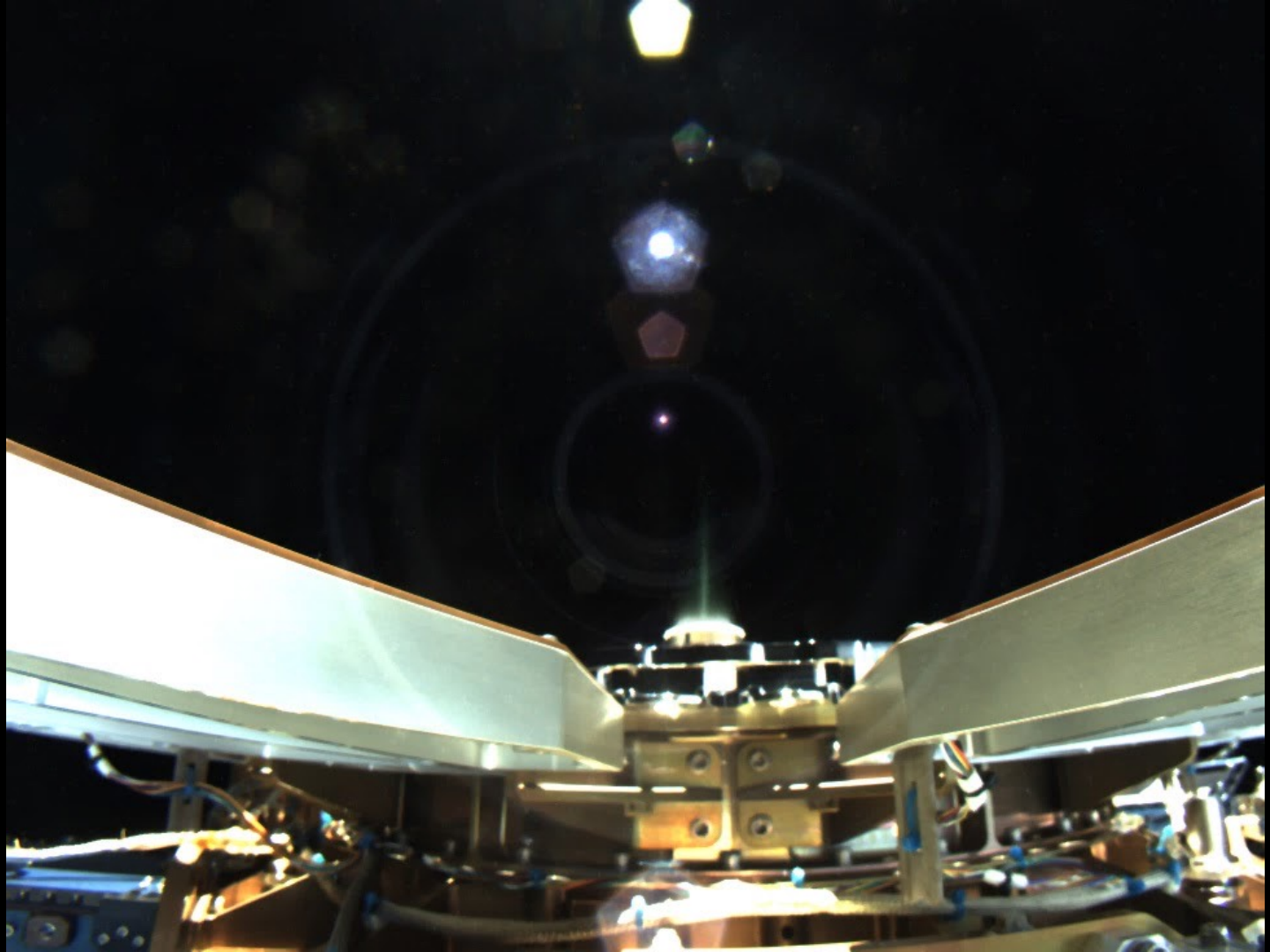




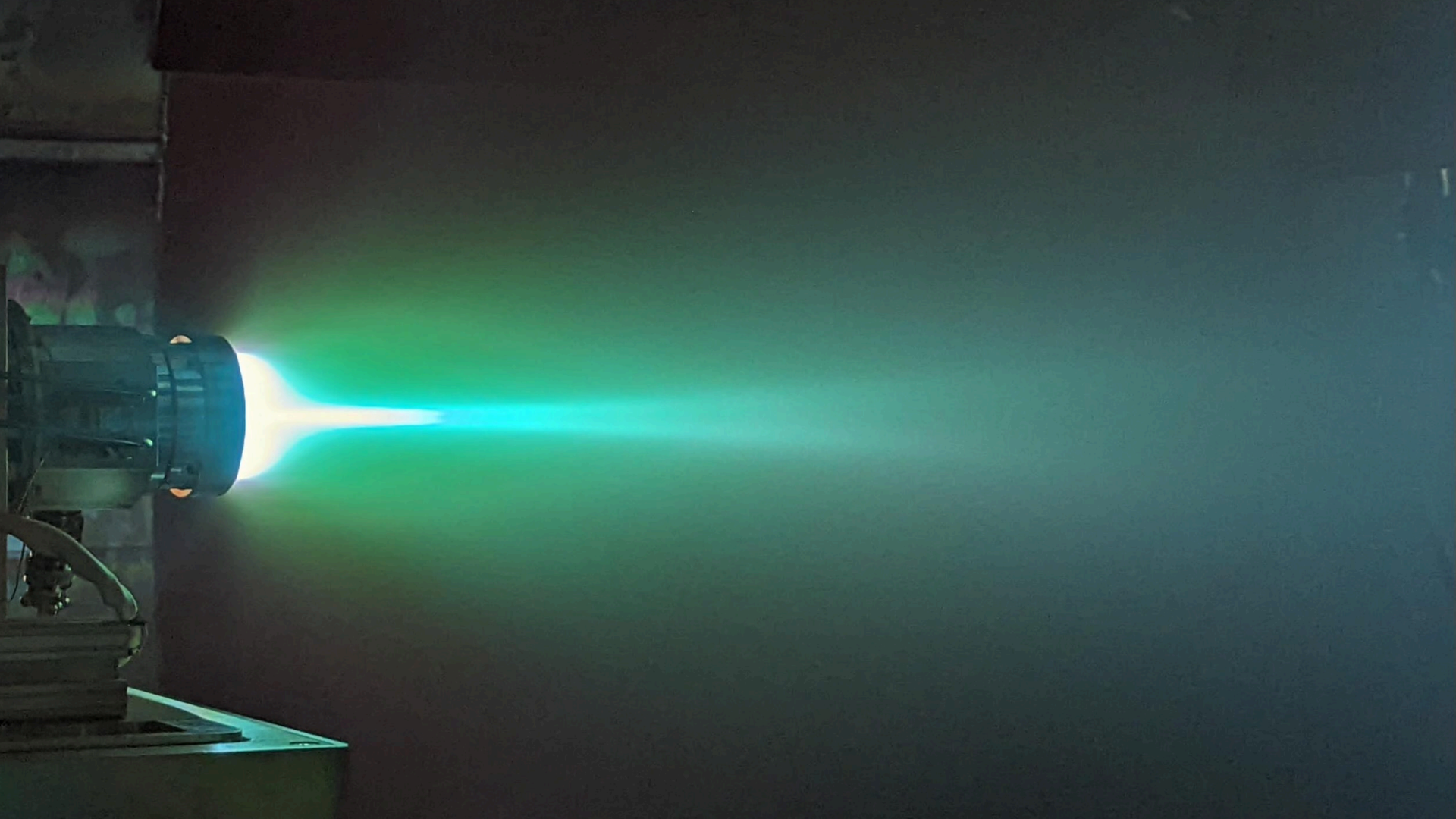












2022-03-15 16:31:26

SCALE IS WHAT MAKES INNOVATION MATTER

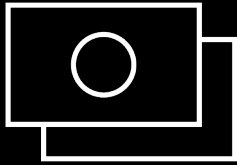
REID HOFFMAN

MARTIN ATTIQ

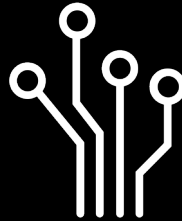
CHIEF BUSINESS OFFICER

THE FUTURE OF SPACE ACCESS

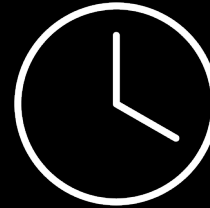
PAIN POINTS



CAPITAL



TECHNOLOGY



TIME

SPACE ACCESS FOR ENTERPRISE



CLOUD COMPUTE

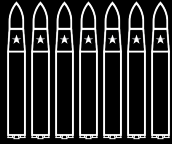


INDUSTRY TRANSFORMATION



SUBSCRIPTION

\$1 TRILLION OPPORTUNITY



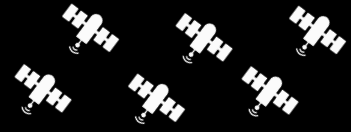
PHASE 1

Launch Services



PHASE 2

Space Products



PHASE 3

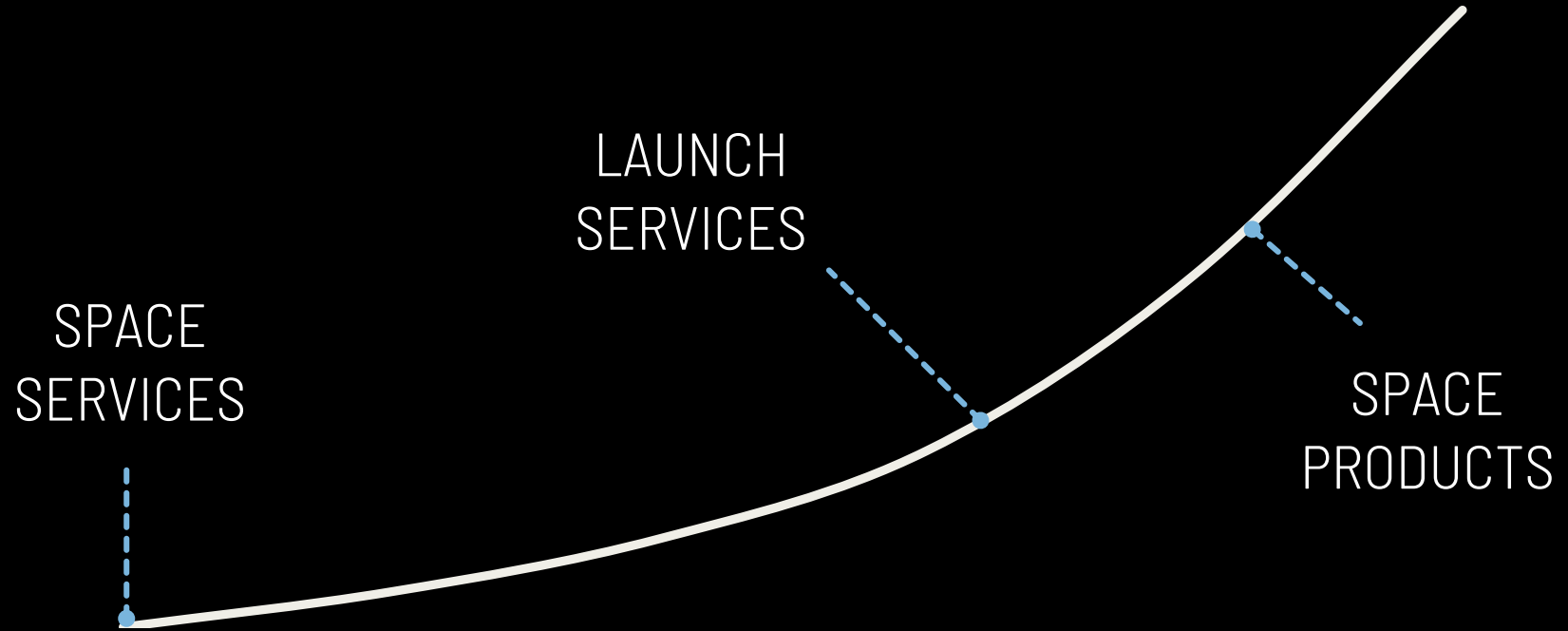
Space Services

TOTAL SPACE ECONOMY IN 2040: \$1 TRILLION+

KELYN BRANNON

CHIEF FINANCIAL OFFICER

INVESTING IN FUTURE PROFITABILITY



(1) Represents current state and does not factor in future development

LONG-TERM FINANCIAL MODEL

STEADY STATE

NON-GAAP GROSS MARGIN	50% to 60%
SALES & MARKETING	~6%
RESEARCH & DEVELOPMENT	~18%
GENERAL & ADMINISTRATIVE	~6%
ADJUSTED NET INCOME	~25%

(1) Operating Expenses are on a Non-GAAP basis which excludes Stock Based Compensation, Depreciation and Amortization

(2) See "Explanation of Adjusted (or Non-GAAP) Financial Measures" in our press release included as Exhibit 99.1 in the current report on Form 8-k filed with the Securities and Exchange Commission on May 5, 2022

(3) All figures are expressed as a percentage of revenues

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Q & A



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2022