



ASTRA INVESTOR PRESENTATION

Q3 2023

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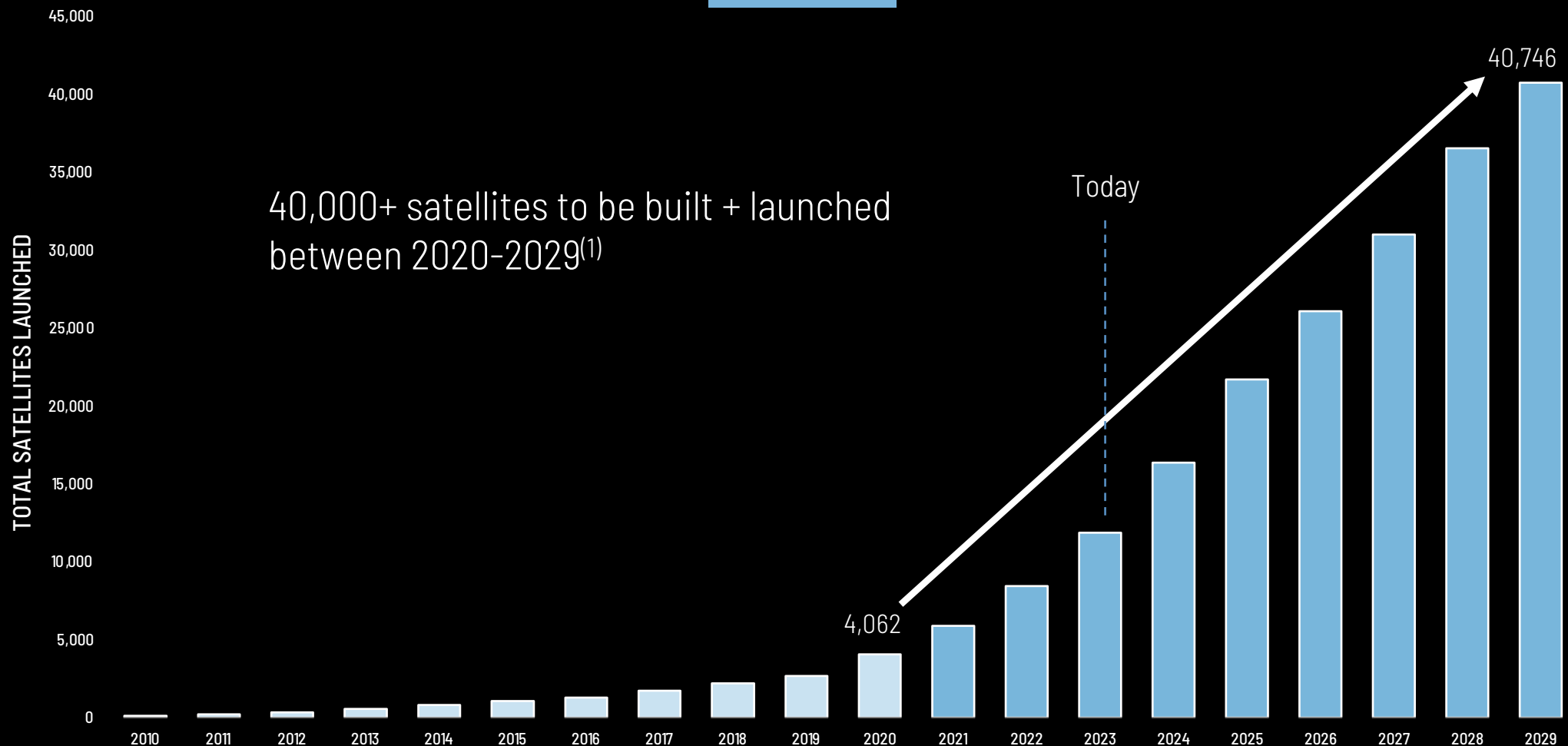
Non-GAAP Financial Measures. This Presentation includes non-GAAP financial measures. Astra believes that these non-GAAP measures of financial results provide useful information to management and investors regarding certain financial and business trends relating to Astra’s financial condition and results of operations. Astra’s management uses certain of these non-GAAP measures to compare Astra’s performance to that of prior periods for trend analyses and for budgeting and planning purposes.

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A view of Earth from space, showing the curvature of the planet and the blue atmosphere. A bright sun is visible in the upper left corner, creating a lens flare effect. A red satellite dish is visible in the lower right corner.

OUR MISSION:
IMPROVE LIFE ON EARTH FROM SPACE[®]

PROBLEM: SPACE ECOSYSTEM CAN'T SUPPORT SATELLITE COMPONENT AND SPACE ACCESS DEMAND



Source: Wall Street Research, Space Capital.

(1) Based on Euroconsult and Astra Management estimates.

(2) Factors in Euroconsult and Management estimates for satellite launches.

(3) Source: Space Foundation database / SpaceFoundation.org

STRONG GROWTH IS SUPPORTED BY FUNDAMENTAL TRENDS FUELING ALL COMMERCIAL SPACE SECTORS

1 GLOBAL BROADBAND CONNECTIVITY

Global demand for broadband connectivity in unserved and underserved communities



2 WEATHER & CLIMATE MONITORING

Over half of essential climate variables can only be measured from space



3 INTERNET OF THINGS

IoT connected devices help in many use cases (autonomous cars, fleet management etc.)



4 ENVIRONMENTAL CONSERVATION

Satellite data helps identify illegal logging, illegal fishing and illegal wildlife trade that account for more than \$73B per year



ASTRA **COMPANY OVERVIEW**

IMPROVE LIFE ON EARTH FROM SPACE®

NASDAQ: ASTR

HEADQUARTERS: ALAMEDA, CALIFORNIA

FOUNDED: 2016

FASTEST PRIVATELY FUNDED US COMPANY TO
REACH ORBIT: 5 YEARS

MANUFACTURING + FACILITIES: 350K SQ FT

EMPLOYEES: 200+

Note: Company statistics as of August 10, 2023

Note: Astra's near-term objectives are focused on its Launch Services and Space Products businesses. Space Services is included as a potential future component of our long-term business strategy.

Source: Euroconsult 2021

LAUNCH SERVICES

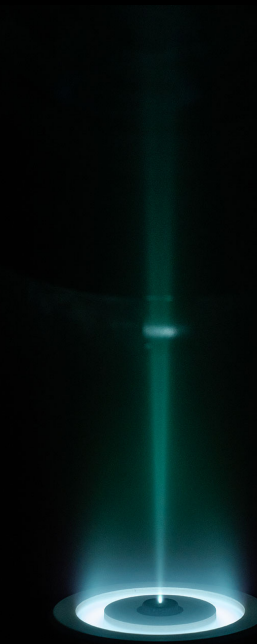


Transport satellites from Earth
to space

Space Access

\$8 billion

SPACE PRODUCTS

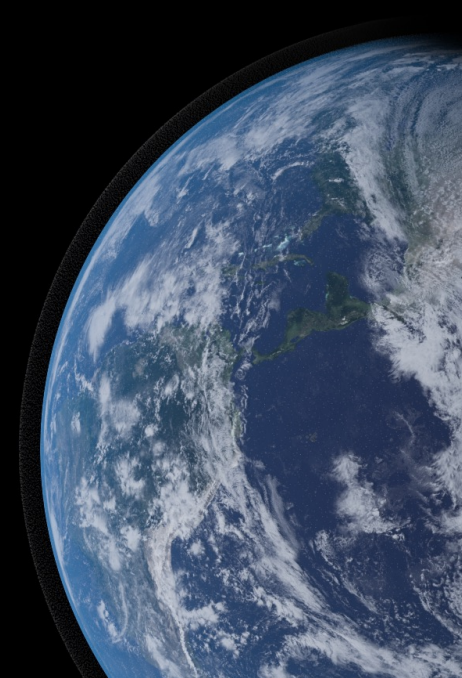


Essential satellite components

Spacecraft Technology

\$25 billion

SPACE SERVICES



Services provided by groups of
satellites called constellations

Space-Delivered Services

\$285 billion

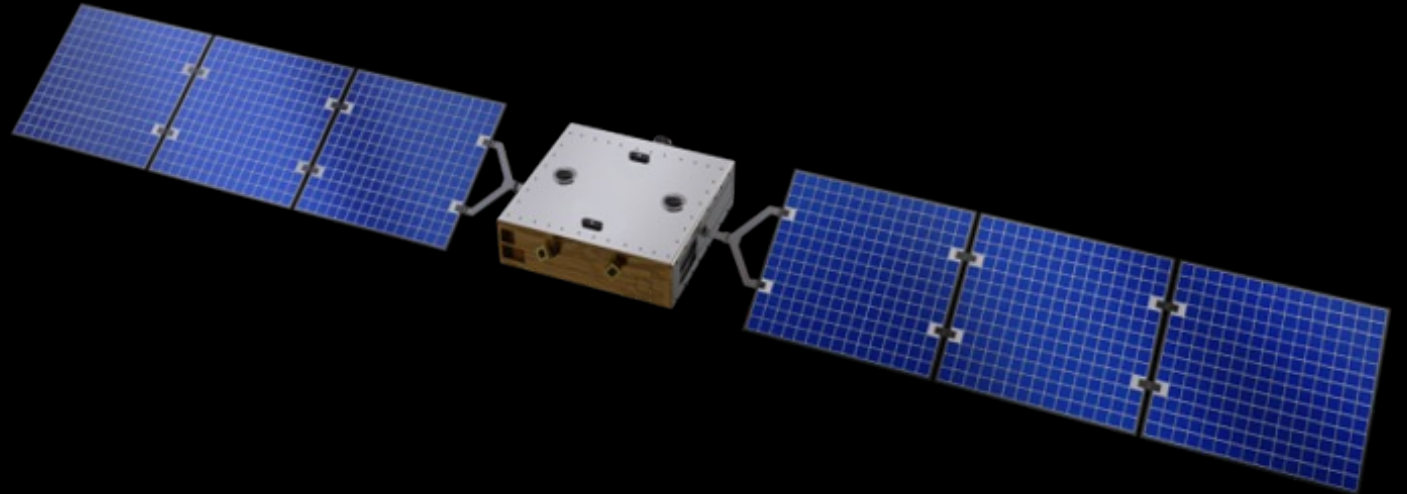
Purpose

Market

TAM¹

SOLUTION

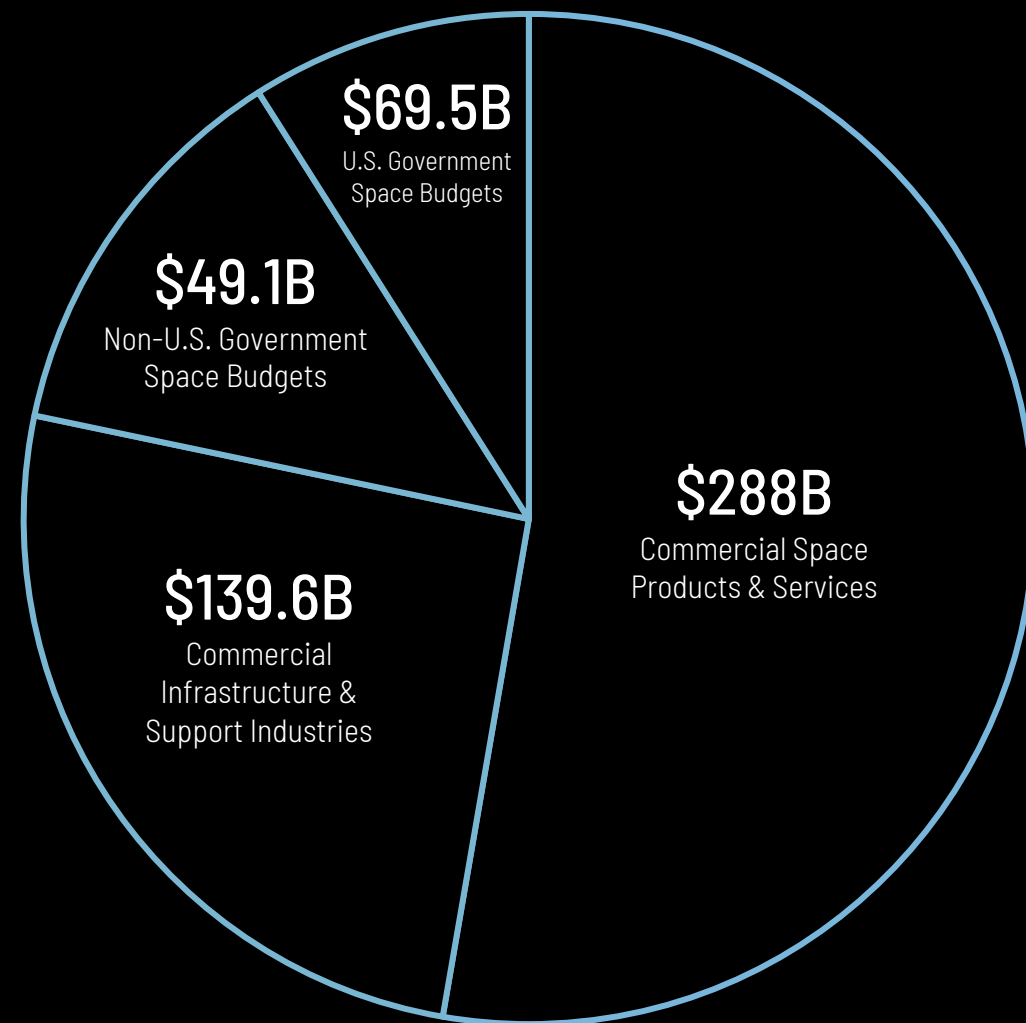
Provide low-cost, reliable space access and space products at scale for LEO constellation operators



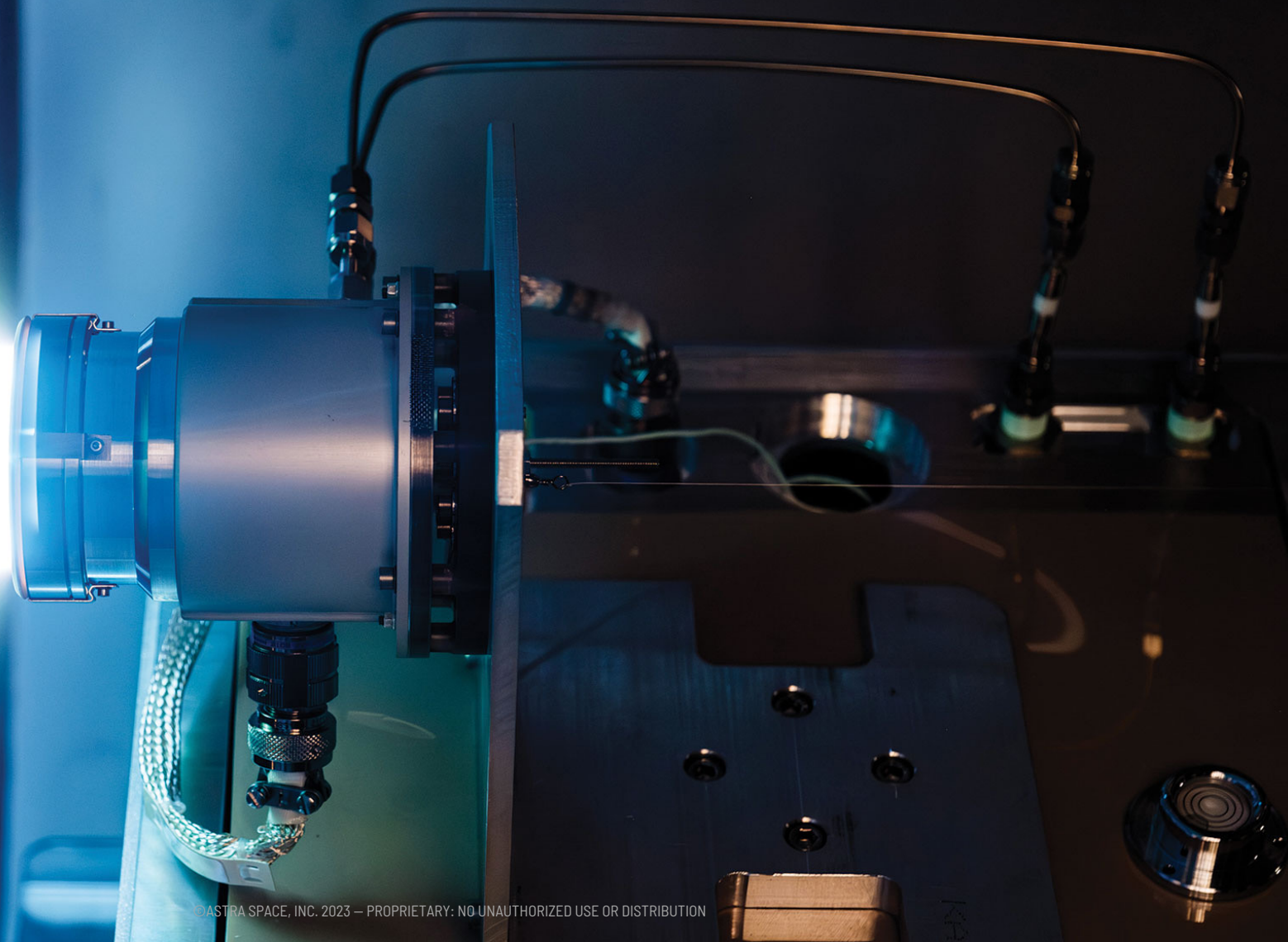
THE GLOBAL SPACE ECONOMY
GREW 8% TO \$546 BILLION IN
2022 AND IS PROJECTED TO GROW
ANOTHER 41% OVER THE NEXT
FIVE YEARS TO \$800 BILLION –

WITH THE POTENTIAL TO EXCEED
\$1 TRILLION BY 2040.

2022 GLOBAL SPACE ACTIVITY: \$546 BILLION



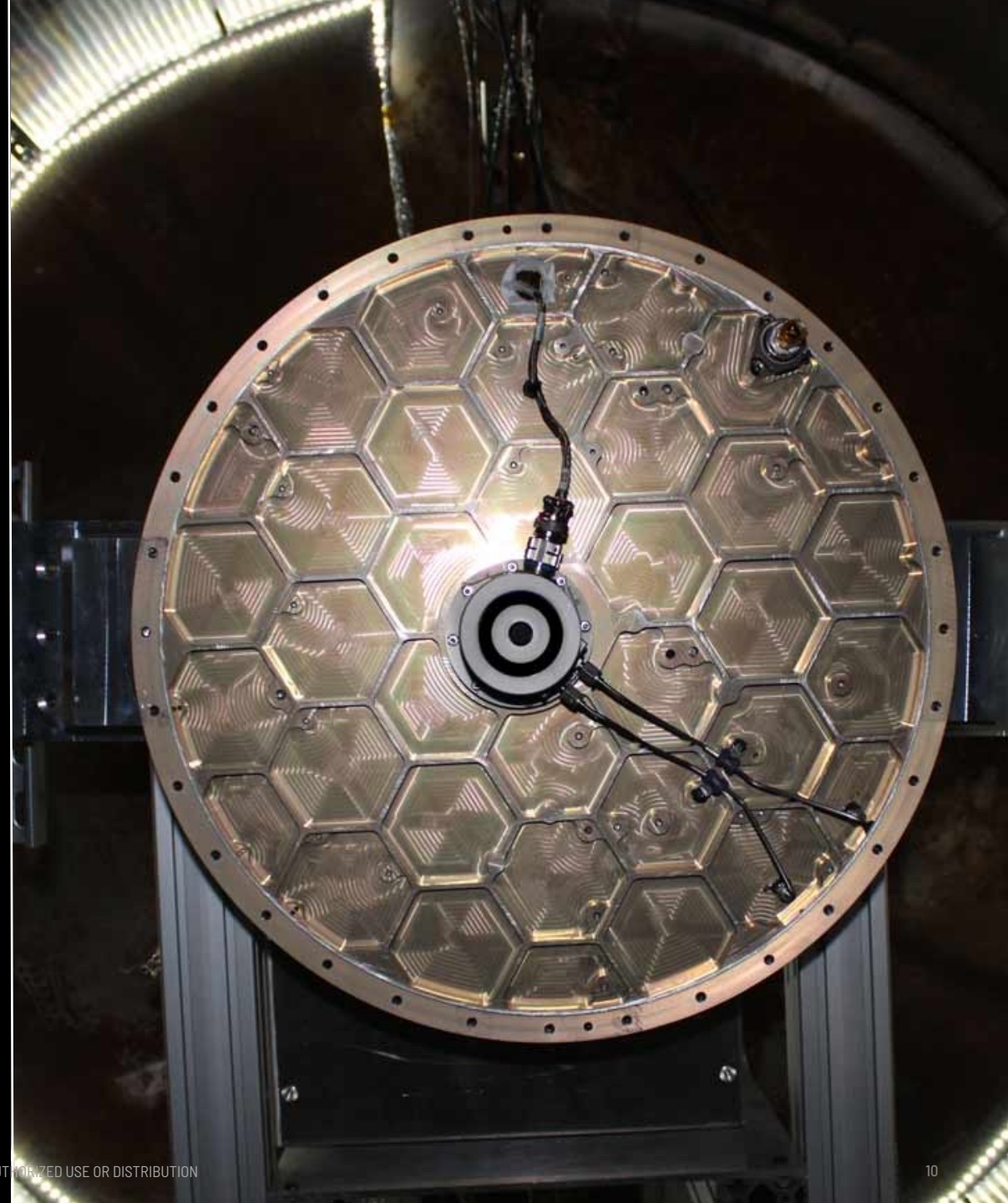
SPACE PRODUCTS



ASTRA SPACECRAFT ENGINE™

Flight-Proven Electric Propulsion Systems

- Scaling to serve constellations
- Currently at work on orbit
- 800+ on-orbit burns





ORBIT RAISING



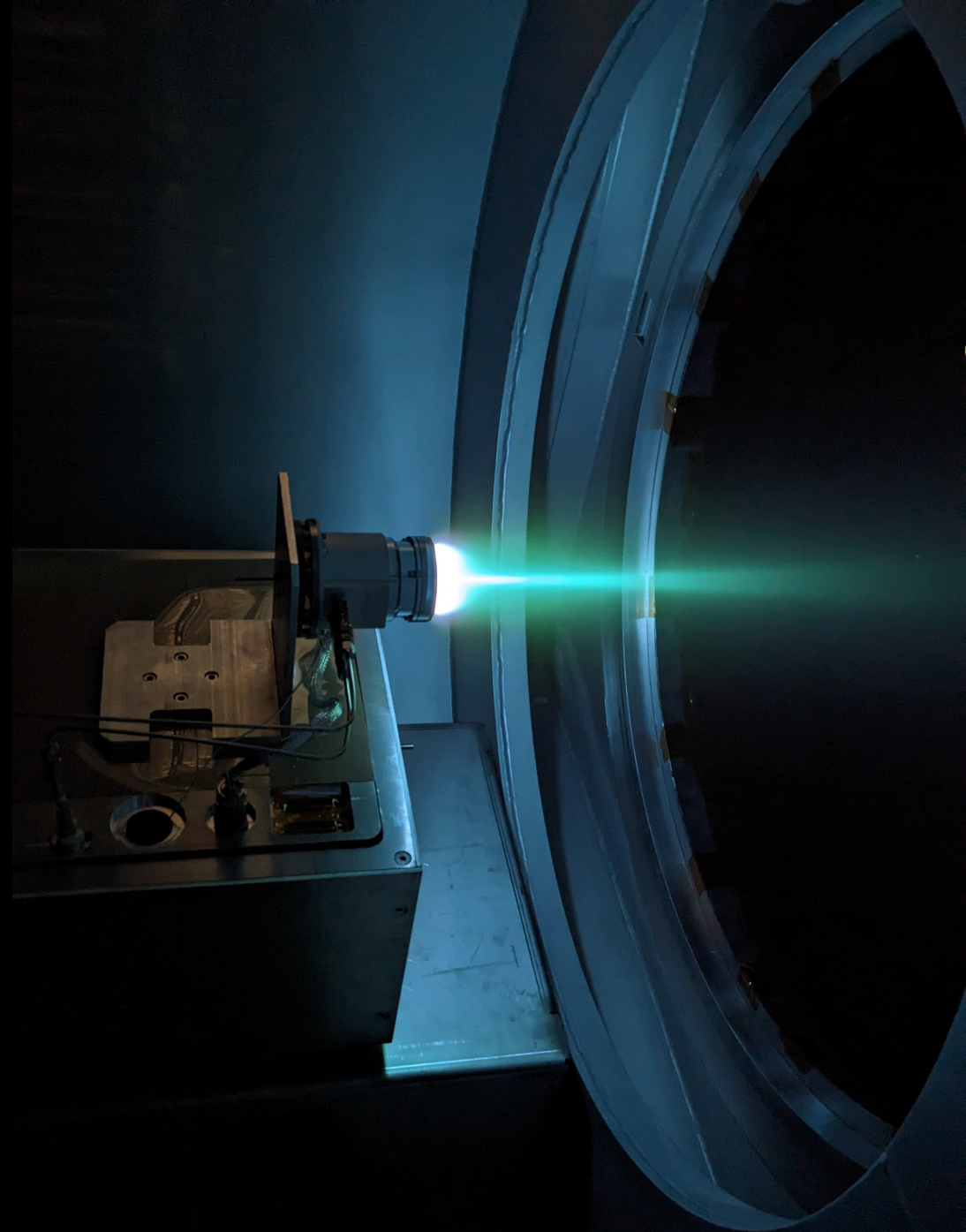
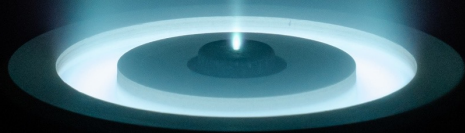
STATION KEEPING



COLLISION AVOIDANCE



DE-ORBITING



ASTRA SPACECRAFT ENGINE™ SYSTEM OVERVIEW

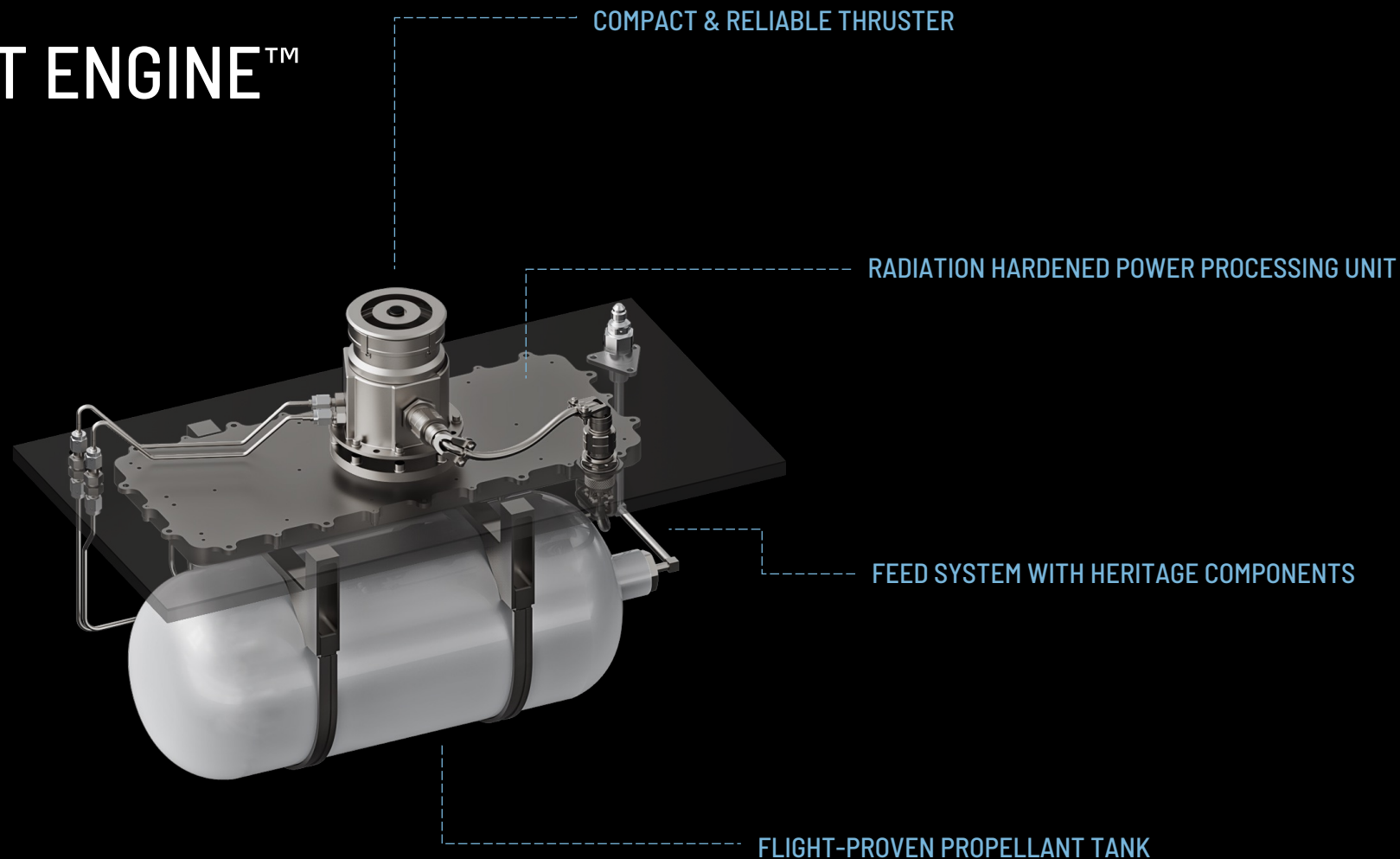
THRUST: 25 mN

SPECIFIC IMPULSE: 1,400 s

TOTAL IMPULSE: 300 kN-s

INPUT POWER: 400 W

VOLTAGE: 27-34 V DC





BUILDING FOR SCALE: SPACECRAFT PROPULSION KIT





Oakmead Facility, Astra Spacecraft Engine — Sunnyvale, California

RECENT HIGHLIGHTS

HUNDREDS OF PROPULSION SYSTEMS SOLD

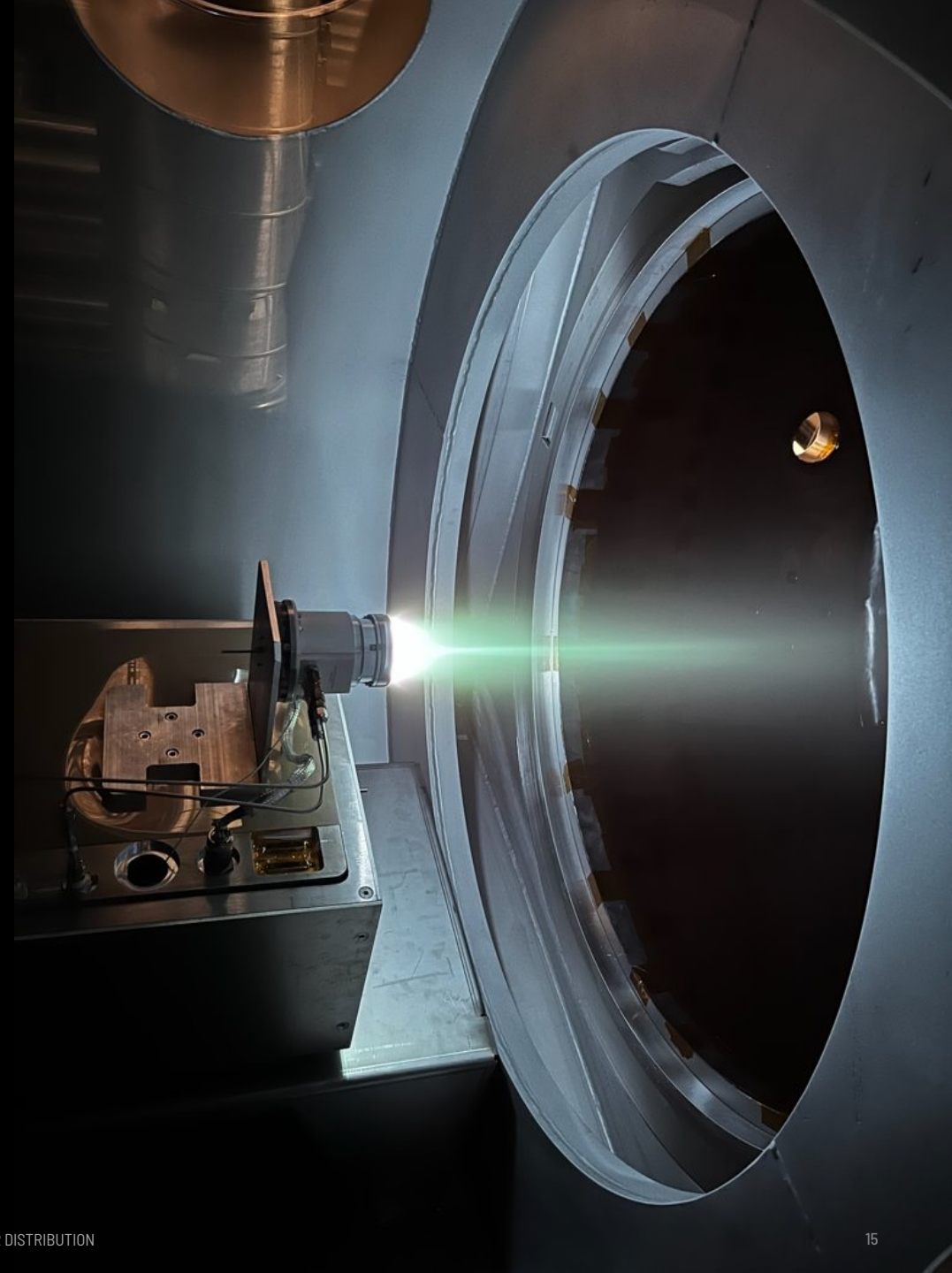
Customers & programs under contract include both government and commercial customers, including all government primes supporting SDA Transport Layer Tranche 0, SDA Transport Layer Tranche 1, SDA Tracking Layer T1, and others.

500+ ADDITIONAL FLIGHT SYSTEMS BASELINED

Customers have baselined the Astra Spacecraft Engine for over 500 future spacecraft.

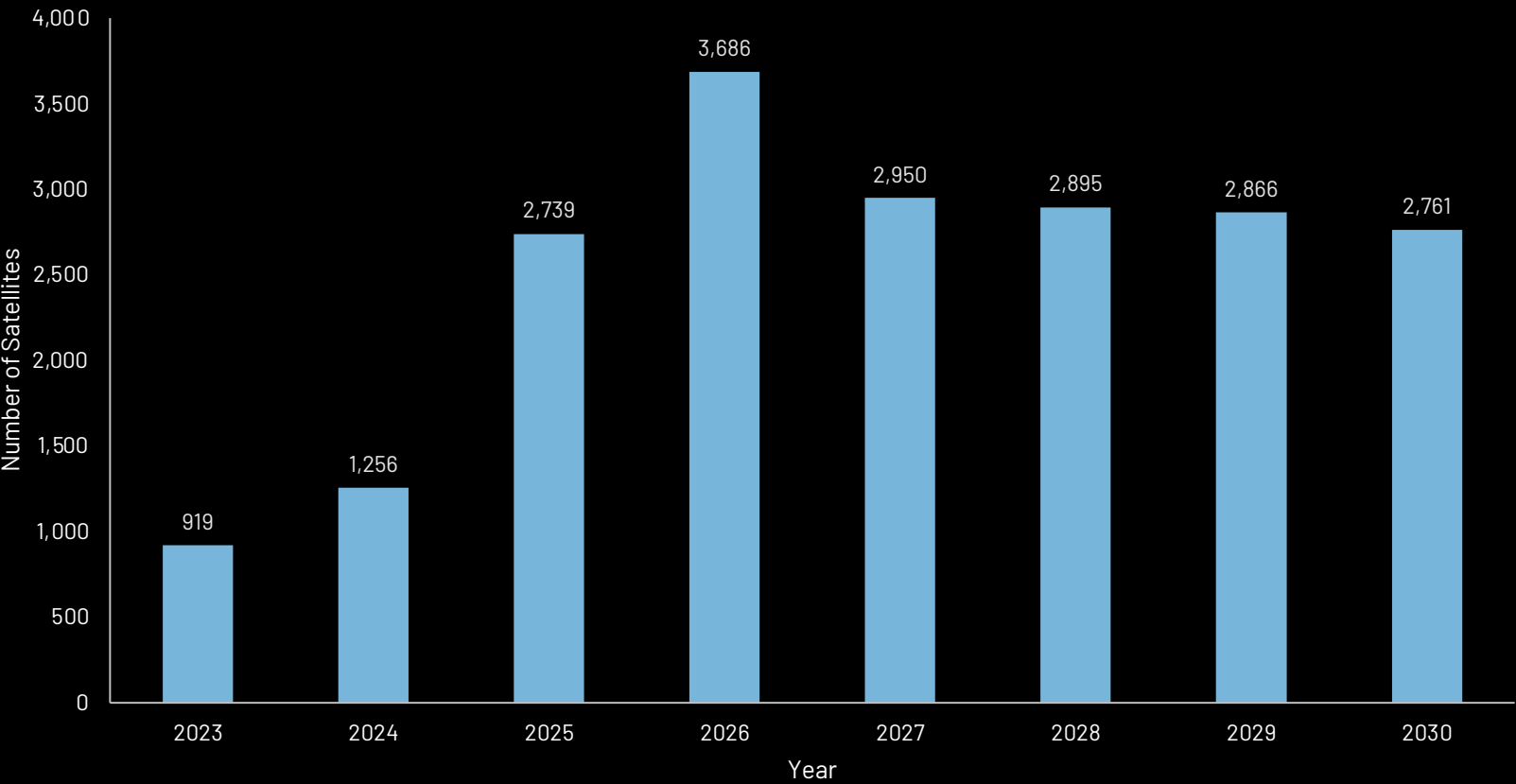
800+ ON-ORBIT BURNS

With current 9 engines currently on orbit, Astra Spacecraft Engines™ have fired hundreds of times on orbit. Our on-orbit thrust and ISP closely matched our ground test results and projections.





TOTAL ADDRESSABLE MARKET – ASTRA SPACECRAFT ENGINE



TAM SIZING METHODOLOGY

- Excludes Astra, Starlink, Kuiper, E-Space, satellites less than 75kg and greater than 1000 kg
- Excludes inactive/dead constellations
- Specific mapping of mass ranges to quantity of ASE class thrusters needed assumed along with \$280K average system price leads to ~\$4.5B TAM over next 5 years

ADDITIONAL MARKET TAILWINDS:

- Limited access to Russian electric propulsion systems as a result of the Russia/Ukraine conflict removes a large competitor from the market
- Large scale constellations require propulsion systems that have a balance of efficiency, mass, and cost
- Reduction in launch prices over time make it more economic to deploy satellites into low earth orbit

Source: Company analysis
Note: Market analysis includes known/planned satellites and does not account for new entrants or market growth
Note: TAM excludes ITAR countries, low probability constellations, Starlink
Note: SAM excludes ITAR countries, low probability constellations, Starlink, and includes satellites under 600 kg

LAUNCH SERVICES





LAUNCH SERVICES DELIVER PAYLOADS SUCH AS SATELLITES FROM EARTH TO SPACE VIA A LAUNCH SYSTEM

Spaceport

Licensed location for space launches and infrastructure, frequently including exhaust diverters and fire suppression systems

Ground equipment

Payload integration, radios, camera systems, and other equipment required to prepare and operate the launch vehicle

Strongback

Structure to support and raise the rocket into launch position, includes electrical and propellant connections for the rocket

Launch vehicle

Powerful multi-stage rocket that lifts and accelerates the payload into orbit

Propellant tanks

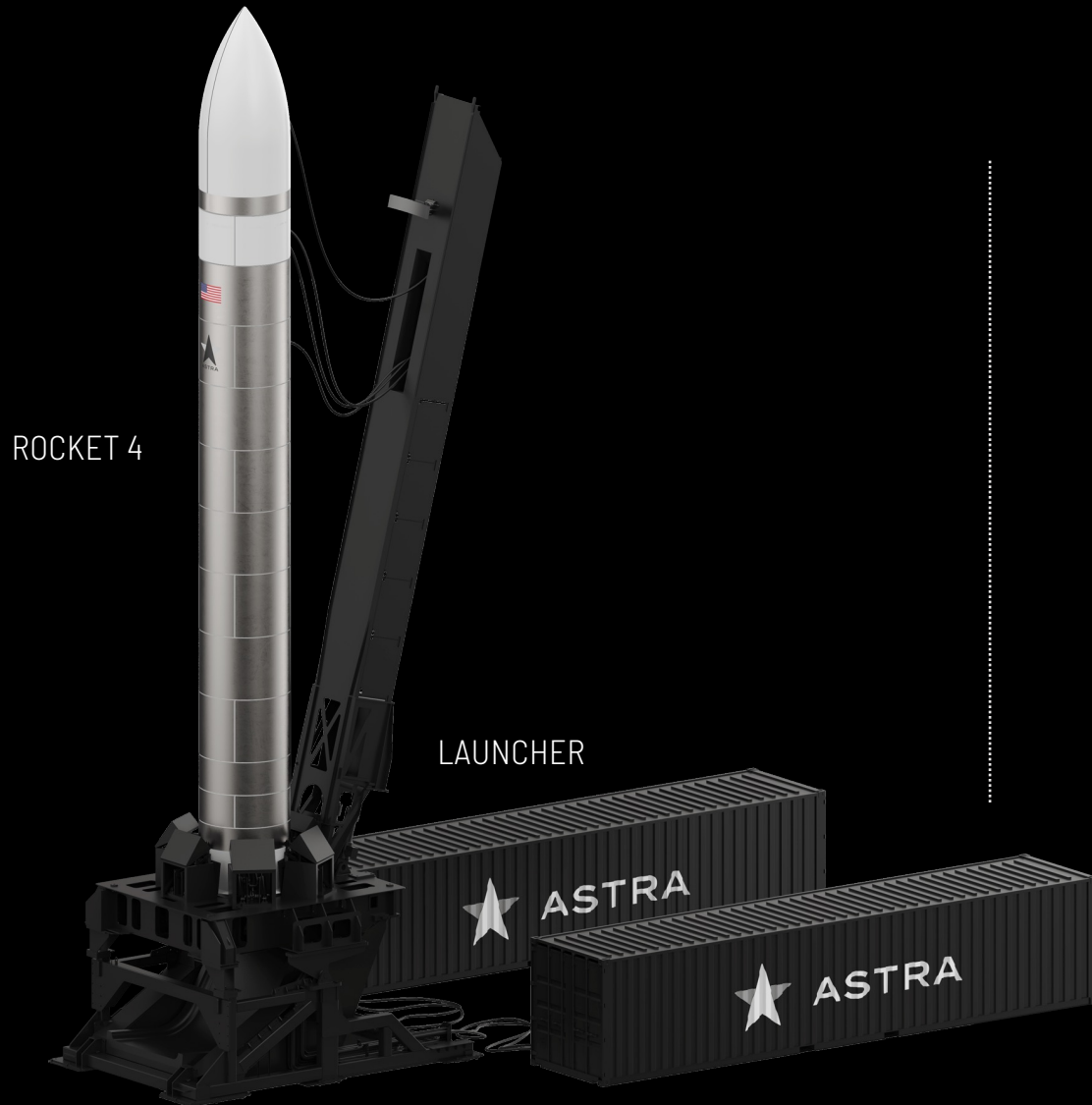
Storage tanks for RP-1 kerosene and cryogenic liquid oxygen (LOX) required to fuel the rocket for launch

Mission control (remote)

Remote operators monitoring and controlling launch operations, including in-flight telemetry from the rocket



LAUNCH SYSTEM



MOBILE

SMALL TEAM OPERATION

1-DAY TURNAROUND CAPABILITY

BUILDING AT SCALE INVESTING IN AUTOMATED MANUFACTURING CAPABILITIES

HEADQUARTERS: Former Alameda (CA) Naval Air Station – 220,000+ sq. ft., 20-acre campus

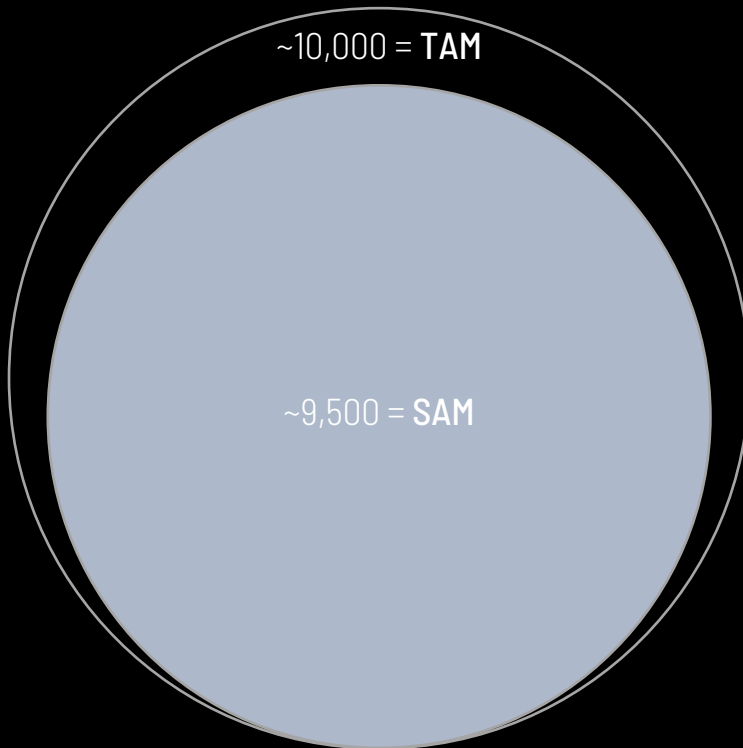
- State-of-the-art factory systems unlock software-driven mass manufacturing efficiencies
- Launch System manufacturing & test facility enables rapid production & iteration
- Vertically integrated manufacturing minimizes cost & supply chain risks



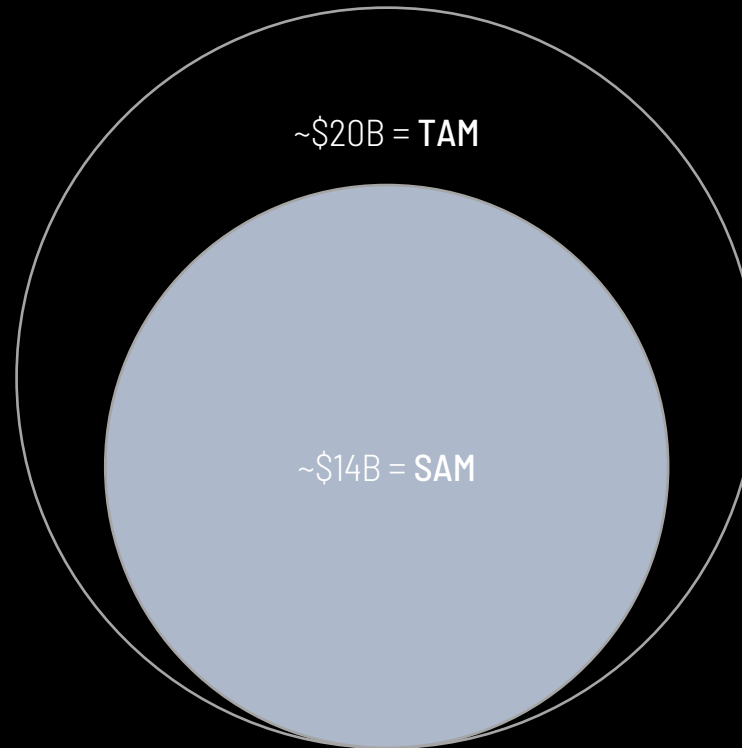


ROCKET 4 IS EXPECTED TO ADDRESS A ~\$20 BILLION MARKET NEED FOR SMALL SATELLITE LAUNCH AND MORE FREQUENT, LOW-COST SERVICES

of SATELLITES TO BE
LAUNCHED 2024-2028



PROJECTED LAUNCH REVENUE
2024-2028



WHAT OUR CUSTOMERS SAY

"Often it is painful when not the primary and not going to standard SSO orbits. When not primary, it could take up to two years to secure non-standard orbit access on larger missions."

- GPS Constellation

"Once the product generates revenue and scale is possible, price becomes less of a factor and speed and cadence increase in priority."

- Earth Observation Constellation

"Time to deployment and cost per kilogram are essential. Deployment time is major concern."

- Communications Constellation

Source: Company analysis

Note: Market analysis includes known/planned satellites and does not account for new entrants or market growth

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