



ASTRA
INVESTOR
PRESENTATION
Q3 2023



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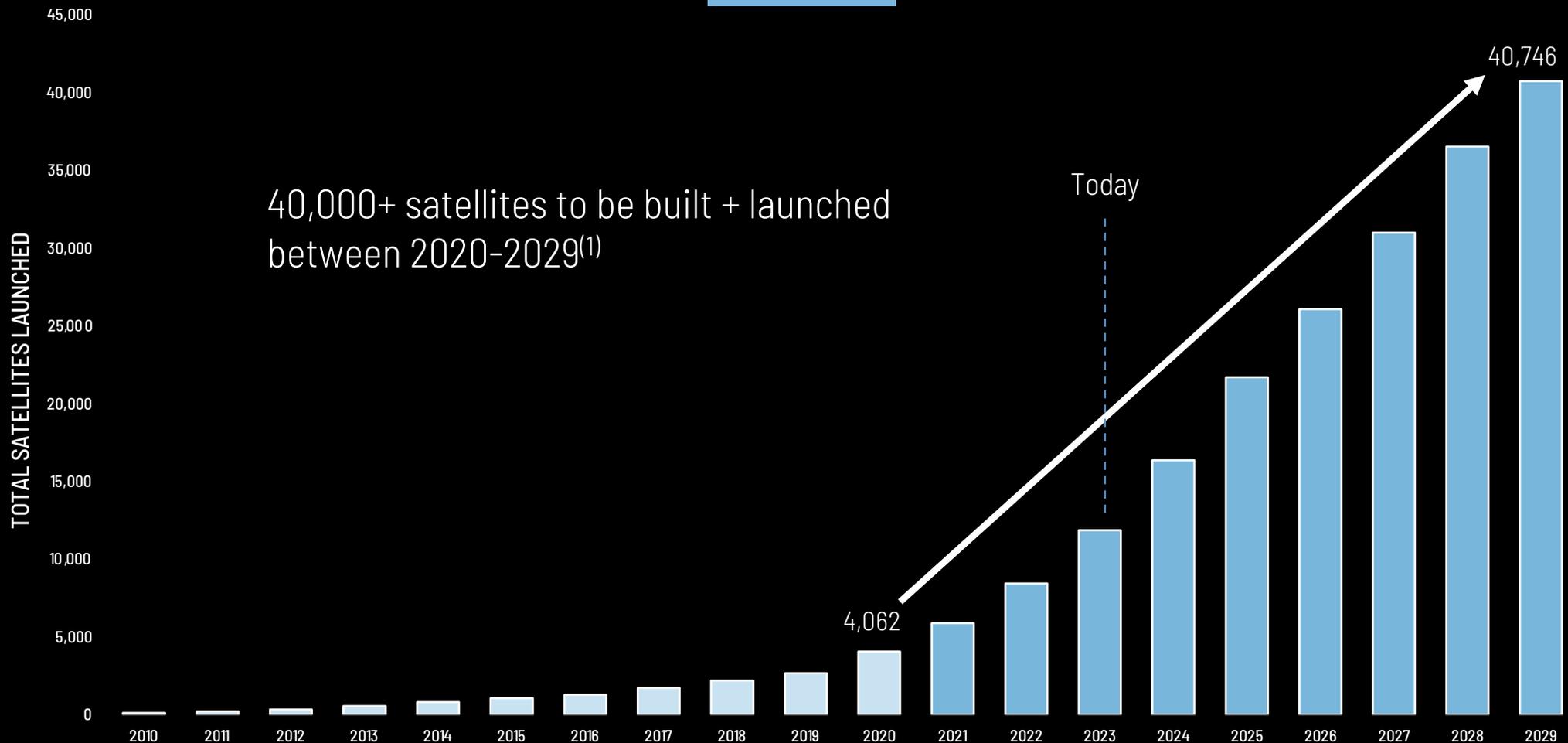
Non-GAAP Financial Measures. This Presentation includes non-GAAP financial measures. Astra believes that these non-GAAP measures of financial results provide useful information to management and investors regarding certain financial and business trends relating to Astra’s financial condition and results 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 blue and white clouds of the planet. A bright sun is visible in the upper left corner, creating a lens flare effect. A red satellite component 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

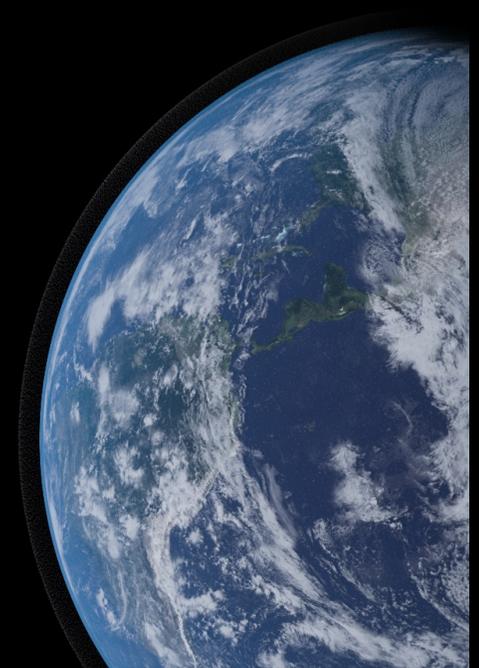


Essential satellite components

Spacecraft Technology

\$25 billion

SPACE SERVICES



Services provided by groups of satellites called constellations

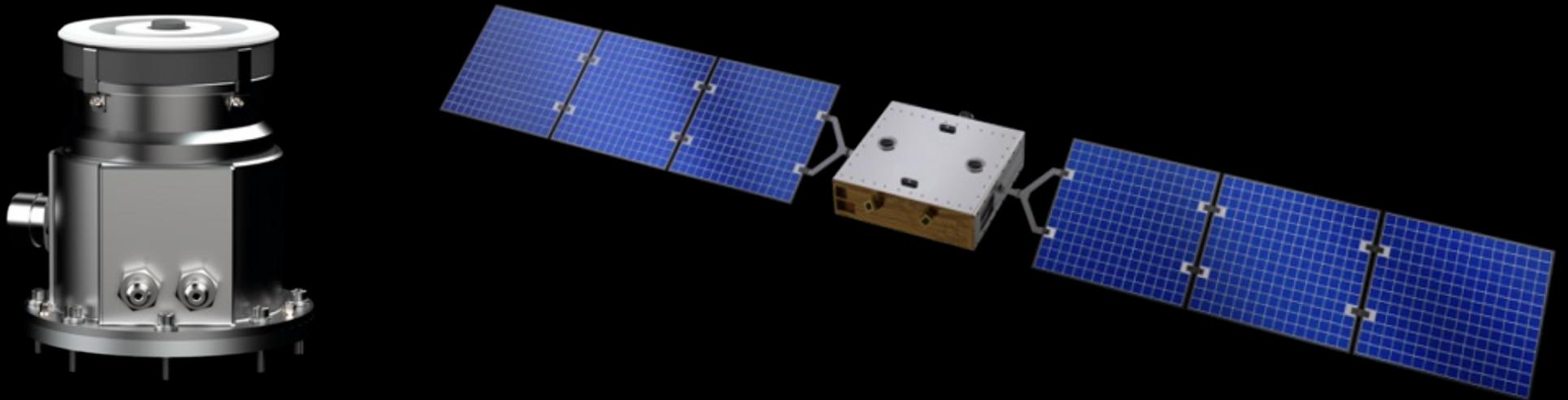
Space-Delivered Services

\$285 billion

Purpose
 Market
 TAM¹

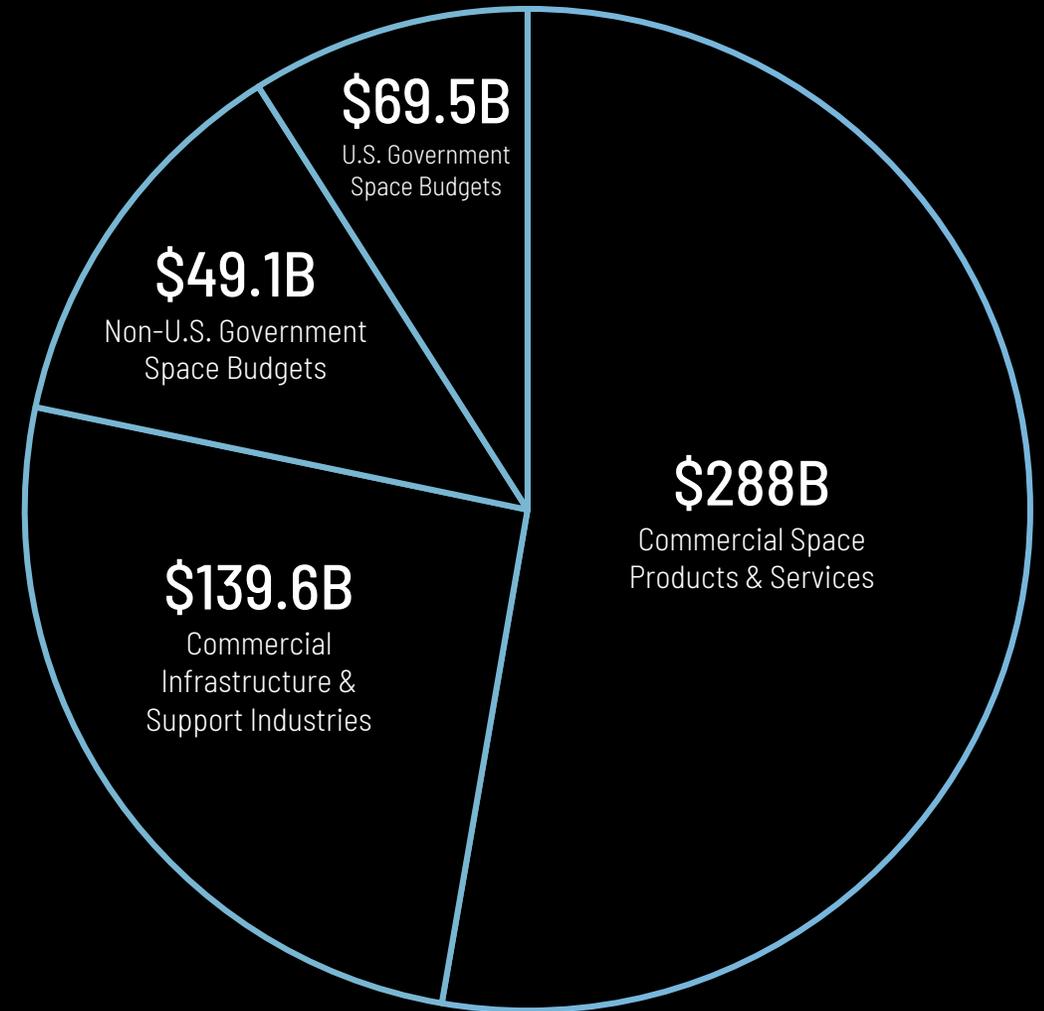
SOLUTION

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



2022 GLOBAL SPACE ACTIVITY: \$546 BILLION

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.



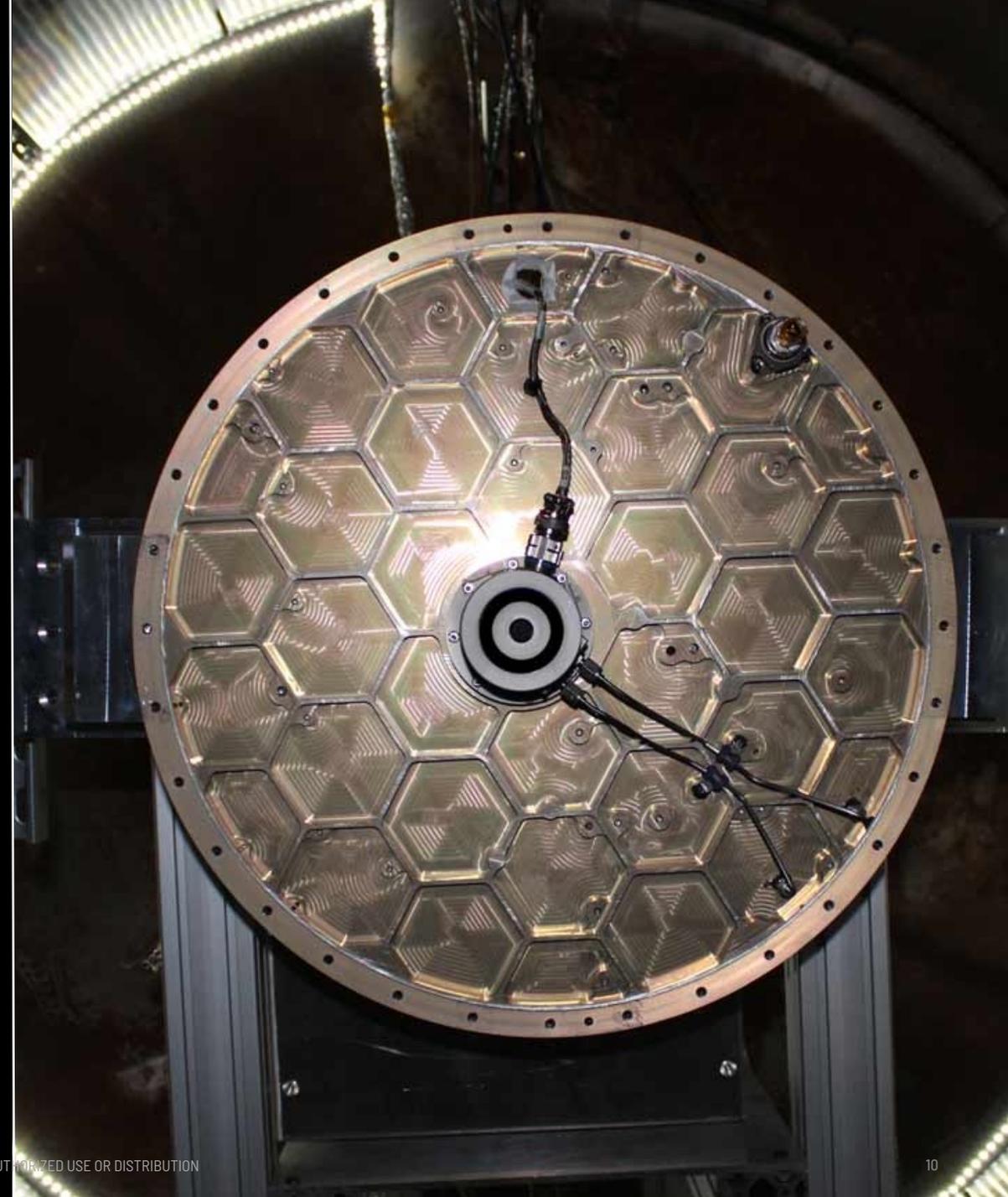
SPACE PRODUCTS



ASTRA SPACECRAFT ENGINE™

Flight-Proven Electric Propulsion Systems

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





ORBIT RAISING



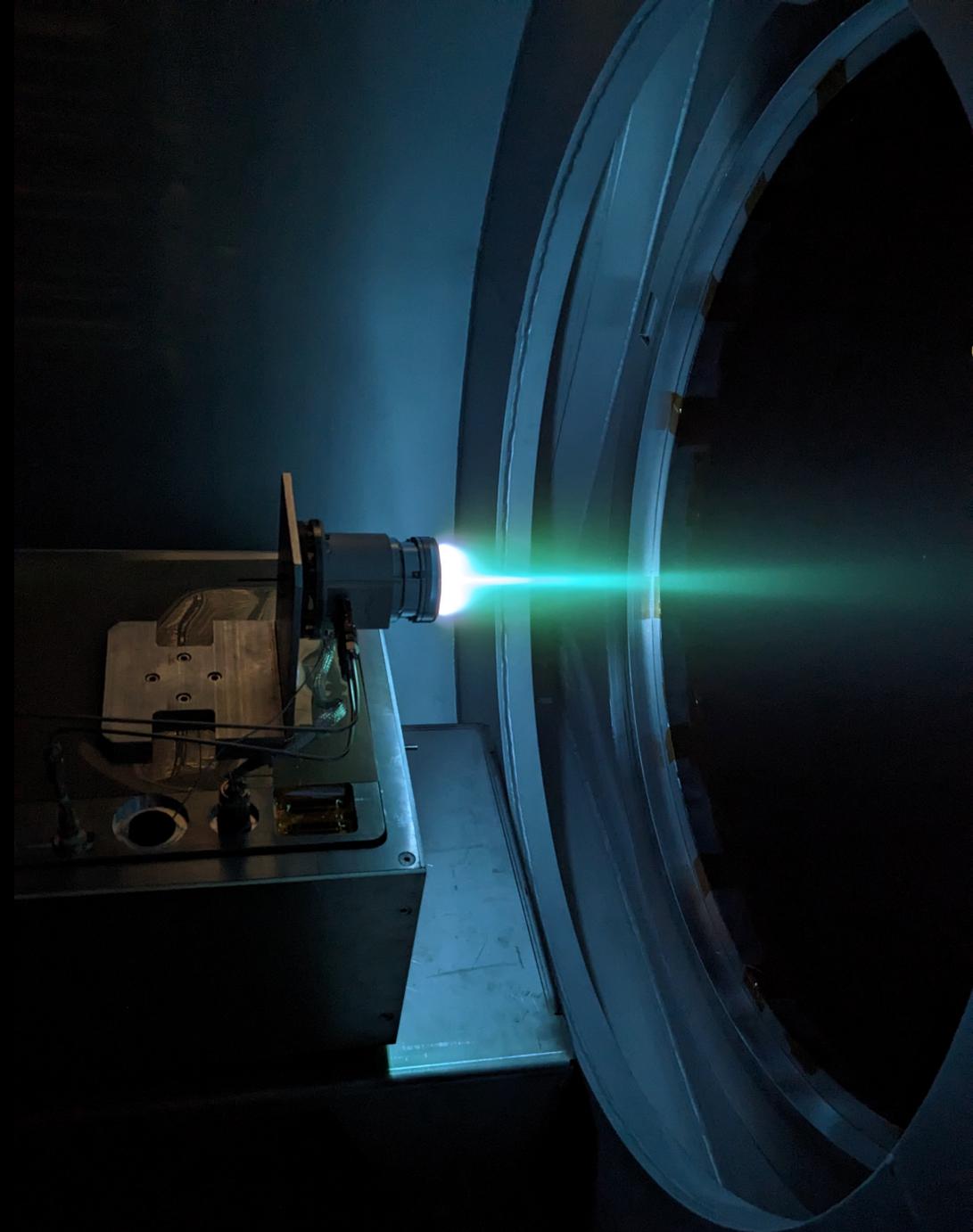
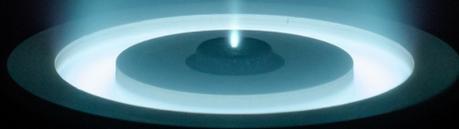
STATION KEEPING



COLLISION AVOIDANCE



DE-ORBITING



ASTRA SPACECRAFT ENGINE™ SYSTEM OVERVIEW

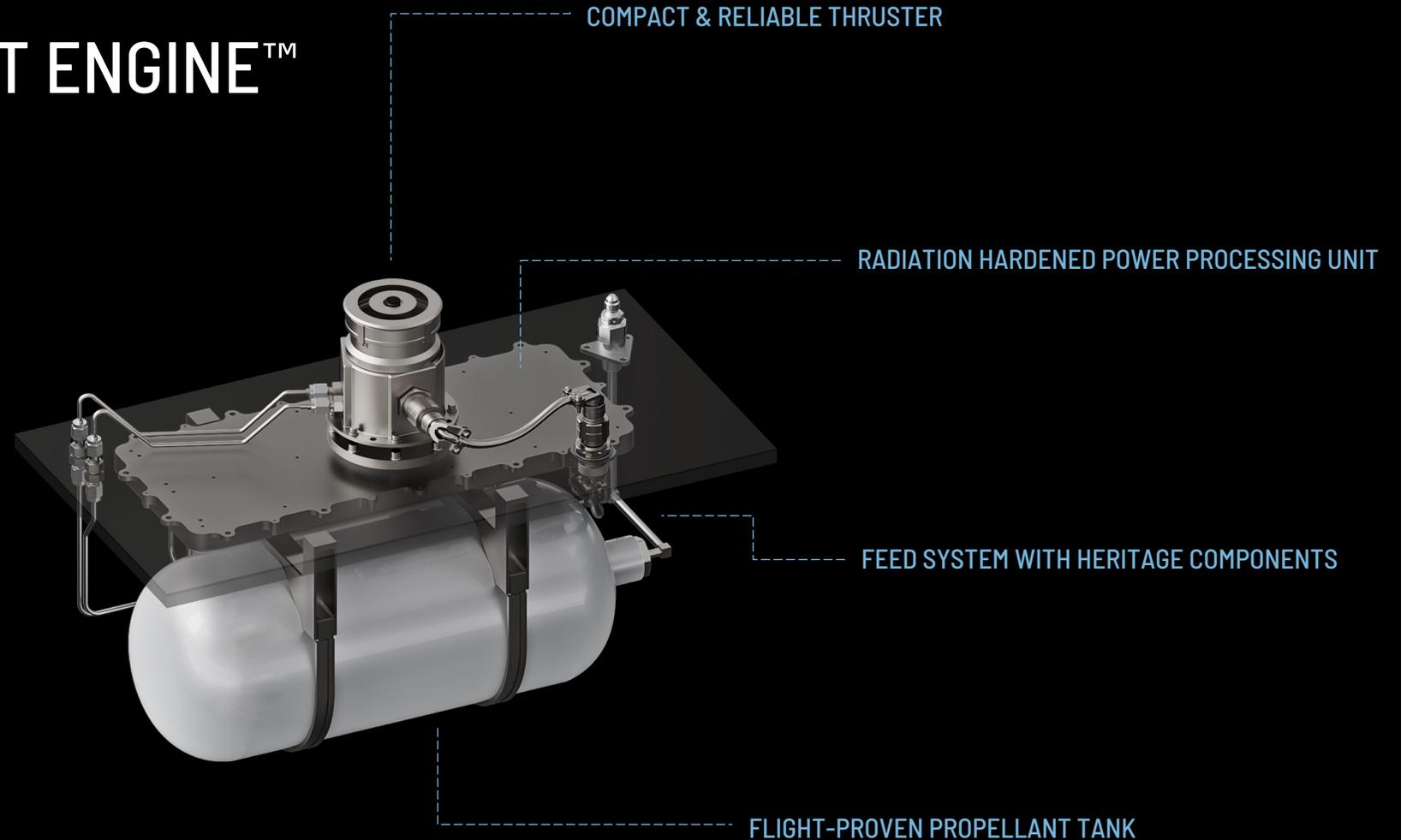
THRUST: 25 mN

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

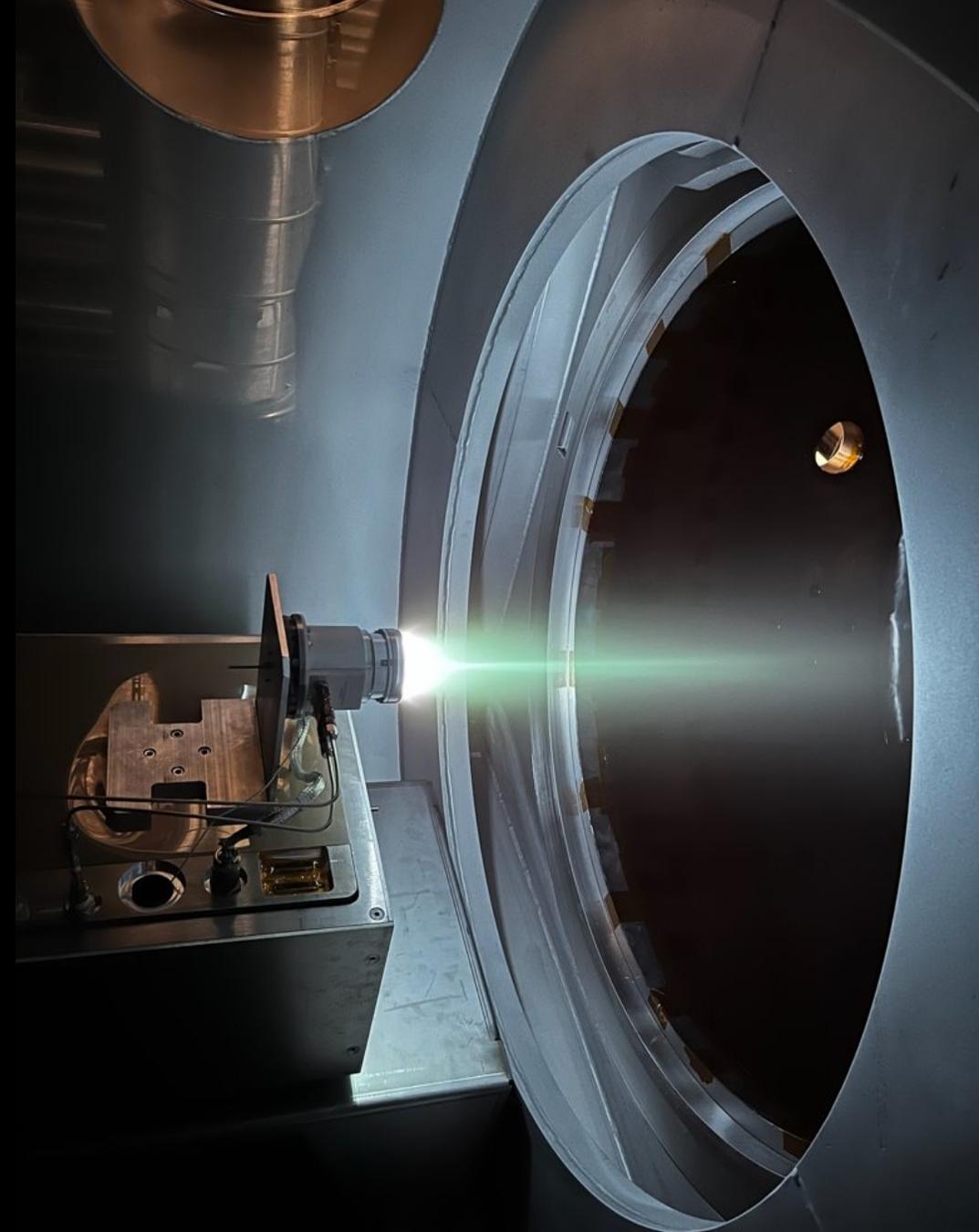
Customers & programs under contract include both government and commercial customers, including all government primes supporting SDA Transport Layer Tranche 0, SDA Transport Layer Tranche 1, SDA Tracking Layer T1, and others.

500+ ADDITIONAL FLIGHT SYSTEMS BASELINED

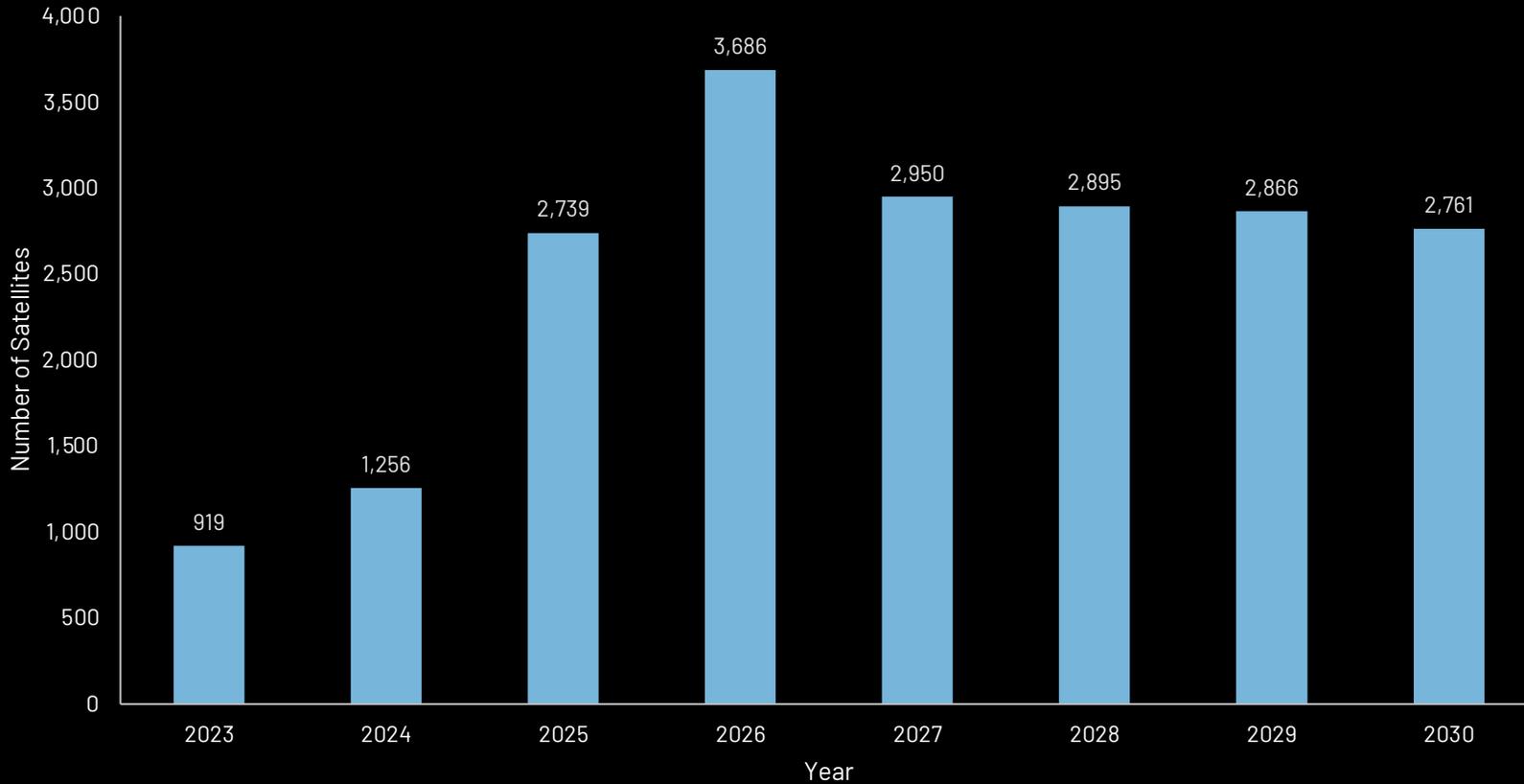
Customers have baselined the Astra Spacecraft Engine for over 500 future spacecraft.

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

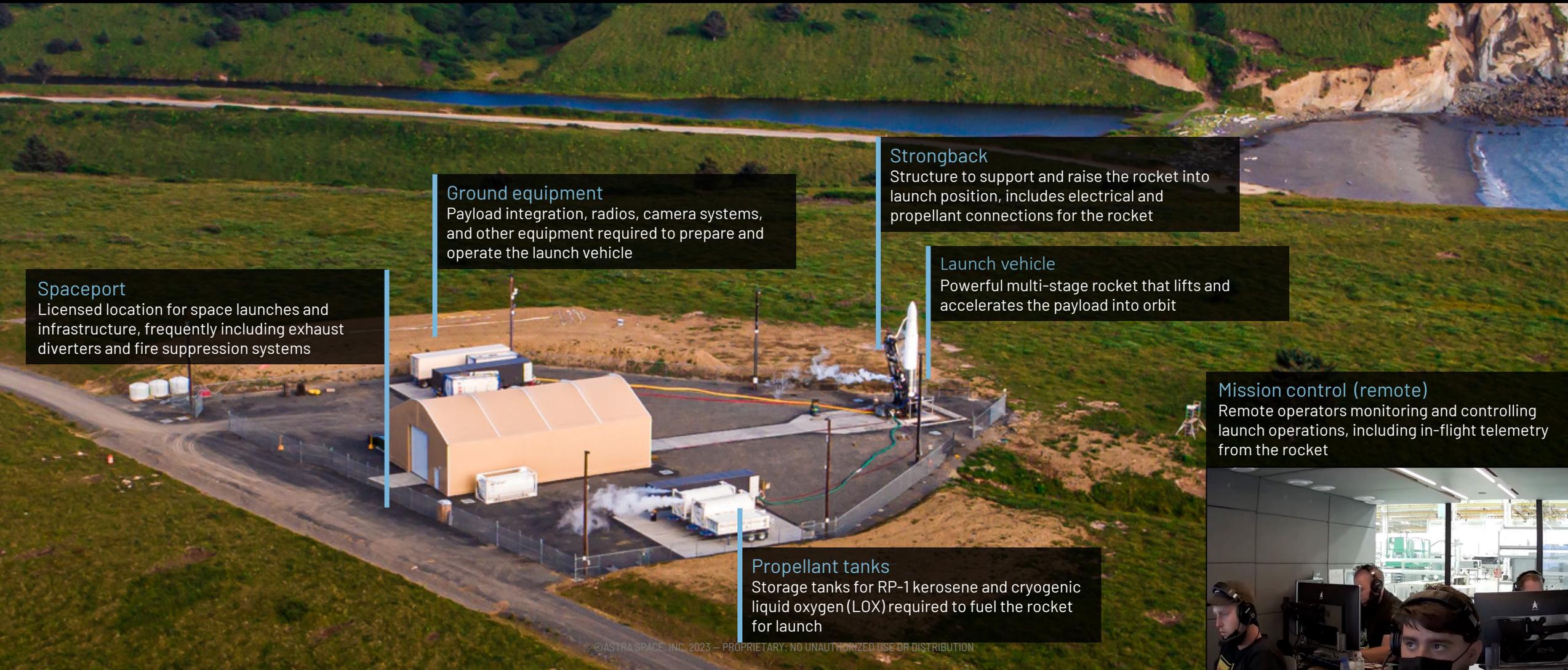
Note: SAM excludes ITAR countries, low probability constellations, Starlink, and includes satellites under 600 kg

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

Propellant tanks

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

Strongback

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

Launch vehicle

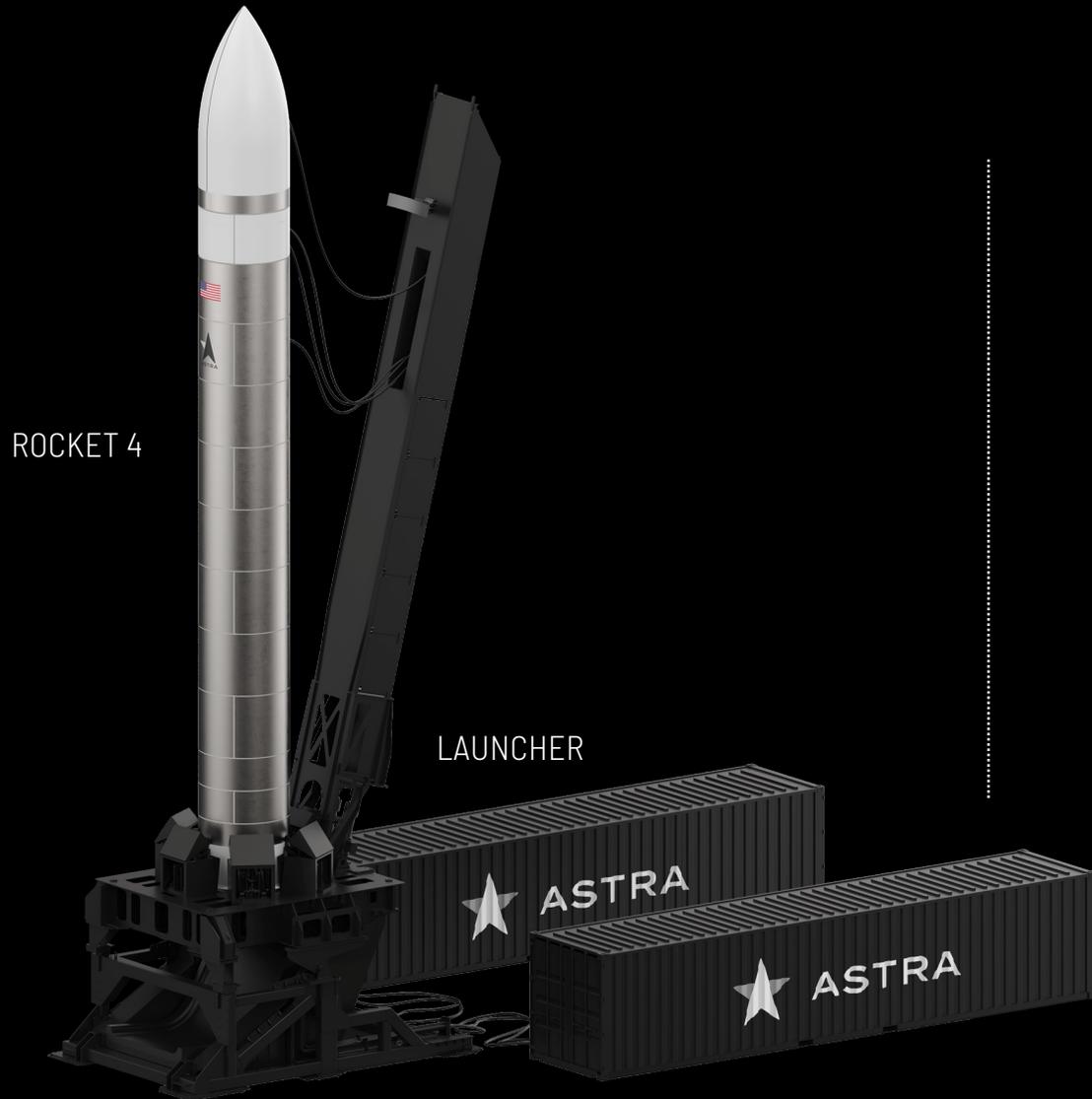
Powerful multi-stage rocket that lifts and accelerates the payload into orbit

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

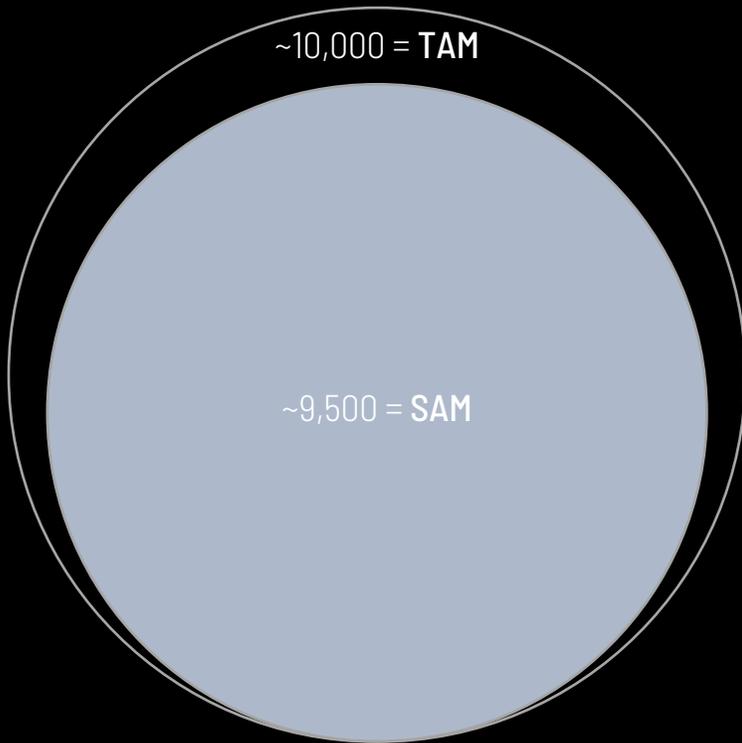
- State-of-the-art factory systems unlock software-driven mass manufacturing efficiencies
- Launch System manufacturing & test facility enables rapid production & iteration
- Vertically integrated manufacturing minimizes cost & supply chain risks





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

Note: TAM excludes ITAR countries, low probability constellations, Starlink

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