
MILESTONES
2022 - PRESENT

ASTRA

Welcome to

Spacetech Day 2023

MARGO DE NARAY

Vice President & General Manager

Space Products and Services — Astra Spacecraft Engine™

ASTRA

DISCLAIMER AND FORWARD-LOOKING STATEMENTS

Certain statements made in this presentation are "forward-looking statements". Forward-looking statements may be identified by the use of words such as "anticipate", "believe", "expect", "estimate", "plan", "outlook", and "project" and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements reflect the current analysis of existing information and are subject to various risks and uncertainties. As a result, caution must be exercised in relying on forward-looking statements. Due to known and unknown risks, actual results may differ materially from Astra's expectations or projections, including the following factors, among others: (i) the failure to meet projected development and launch targets, including as a result of the decisions of governmental authorities or other third parties not within our control, weather and other suboptimal conditions that may it difficult to perform a launch attempt; (ii) changes in applicable laws or regulations; (iii) the ability of Astra to meet its financial and strategic goals, due to, among other things, competition; (iv) the ability of Astra to pursue a growth strategy and manage growth profitability; (v) the possibility that Astra may be adversely affected by other economic, business, and/or competitive factors; (vi) the effect of the COVID-19 pandemic on Astra, (vii) the ability to manage its cash outflows during its business operations and (vii) other risks and uncertainties described herein, as well as those risks and uncertainties discussed from time to time in other reports and other public filings with the Securities and Exchange Commission by Astra.

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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.

CHRIS KEMP

Founder, Chairman, and CEO


OUR MISSION:
IMPROVE LIFE ON EARTH FROM SPACE®

SPACE FORCE AWARDS ASTRA NEW LAUNCH ORDER FOR ROCKET 4

APRIL 21, 2023

Task order valued at $11.45 million for a launch of an ESPA-class space vehicle and additional cubesats through the Orbital Services Program (OSP-4) contract

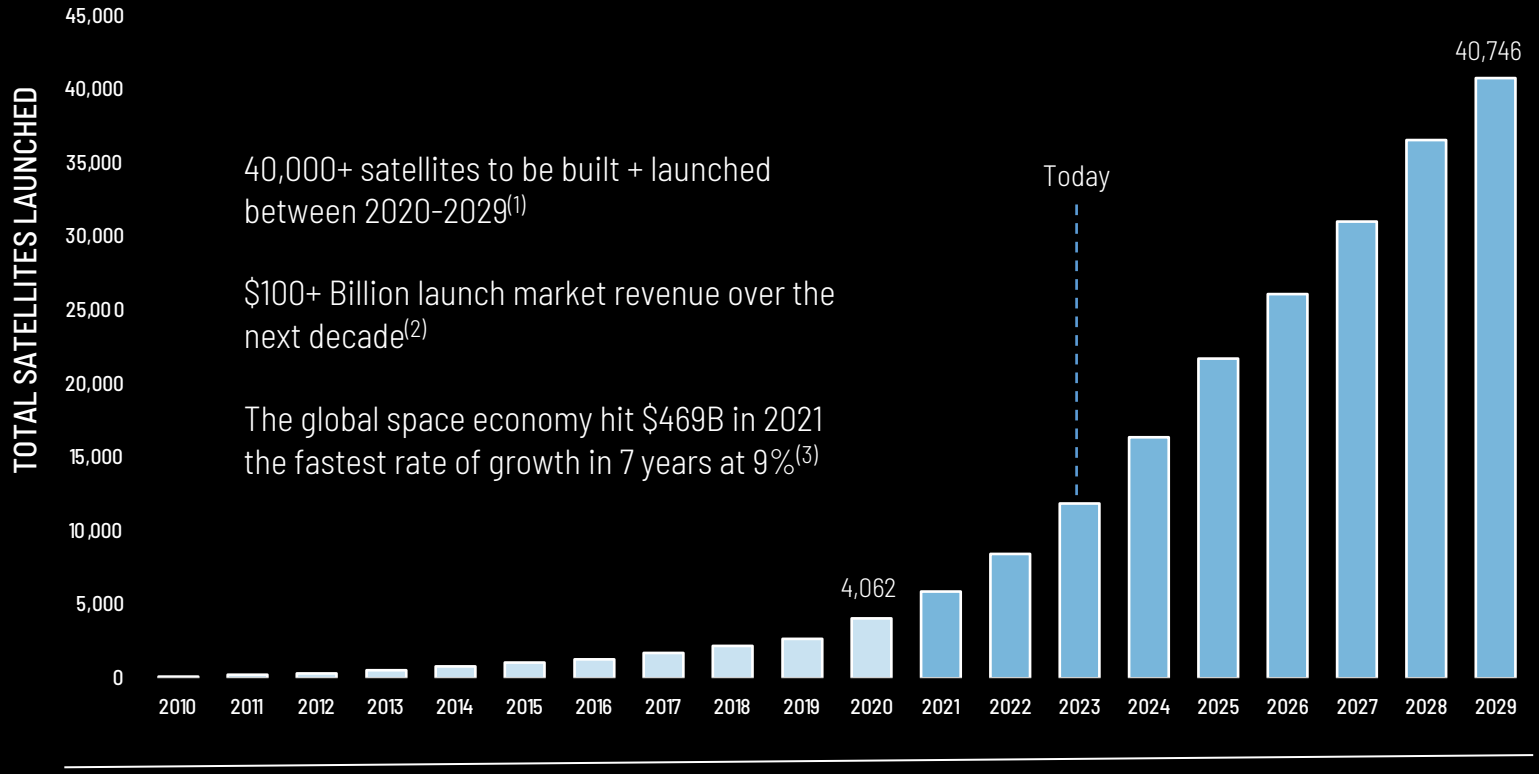
ALAMEDA, Calif. – April 21, 2023 – Astra Space, Inc. ("Astra")(Nasdaq: ASTR) announced today that it has been awarded a launch task order for Rocket 4 through the United States Space Force's Orbital Services Program (OSP)-4 contract.

"The Space Force deliberately structured the OSP-4 contract to leverage emerging launch solutions for mission partners like the DoD Space Test Program," said Lt. Col. Justin Beltz, chief of Space Systems Command's Small Launch and Targets Division. "Today's award reflects the tremendous promise industry is bringing to the table with systems like Rocket 4. We look forward to working with Astra to make this launch a success."

The STP-S29B mission is a Category 2 Mission Assurance launch, which will entail substantial efforts from Astra in tandem with the Government team and its independent mission assurance contractors to support a mission designed for success.

"STP-S29B demands a higher level of mission assurance than previous Astra launches and therefore represents a significant increase in Astra's coordination with the Space Force to perform a launch designed for mission success," said Dr. Thomas Williams, senior director of Federal Sales at Astra. "Astra's ability to compete for this mission was based on the tremendous work that our

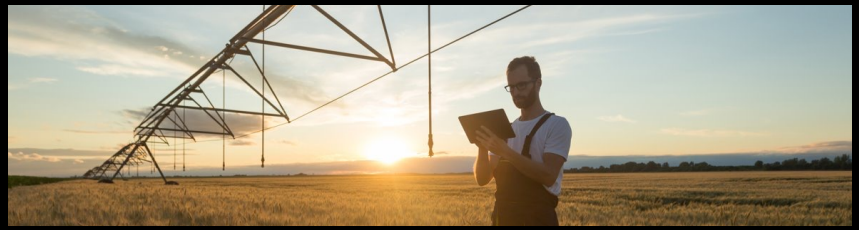
ACCESS TO SPACE REMAINS A CHALLENGE TO MEET GROWING DEMAND



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

GLOBAL BROADBAND CONNECTIVITY

Global demand for broadband connectivity in unserved and underserved communities



INTERNET OF THINGS

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

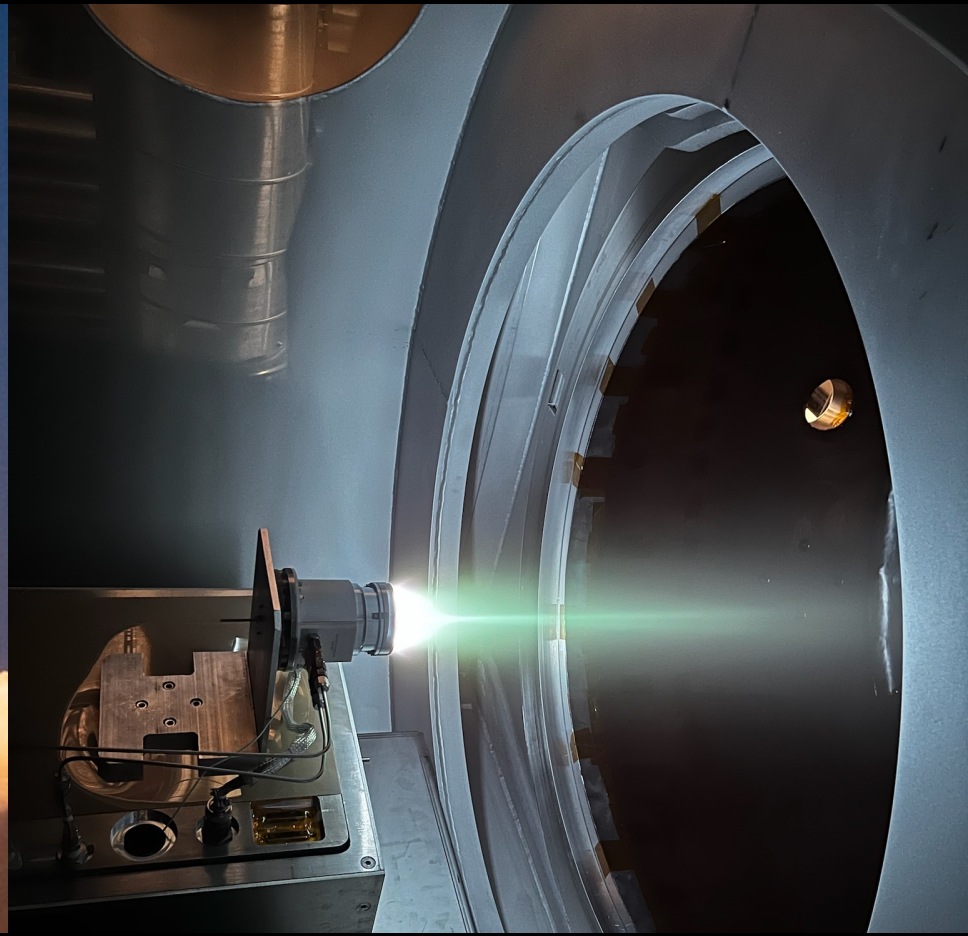
WEATHER & CLIMATE MONITORING

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

ENVIRONMENTAL CONSERVATION

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

LAUNCH SERVICES



SPACE PRODUCTS

RELIABILITY & SCALE

ROCKET 4

FACTORY

ROCKET
PRODUCTION LINE

LAUNCH SYSTEM

ROCKET 4

FACTORY

ROCKET
PRODUCTION LINE

MACHINE SHOP

LAUNCH SYSTEM

ROCKET 4

FACTORY

ROCKET
PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB

LAUNCH SYSTEM

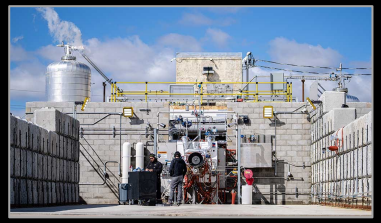
ROCKET 4

FACTORY

ROCKET
PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



TEST STANDS

LAUNCH SYSTEM

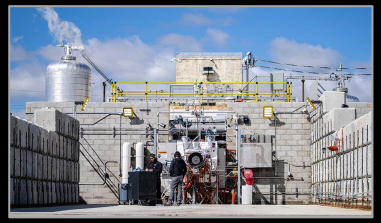
ROCKET 4

FACTORY

ROCKET
PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



TEST STANDS

LAUNCH SYSTEM

ROCKET 4

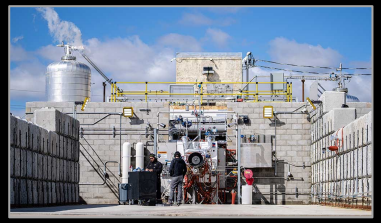
LAUNCHER

FACTORY

ROCKET
PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



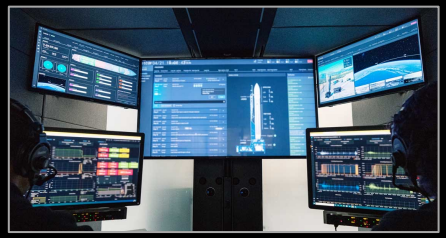
TEST STANDS

LAUNCH SYSTEM

ROCKET 4

LAUNCHER

SOFTWARE



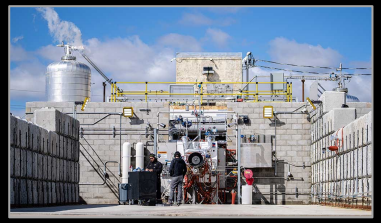
MISSION CONTROL

FACTORY

ROCKET PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



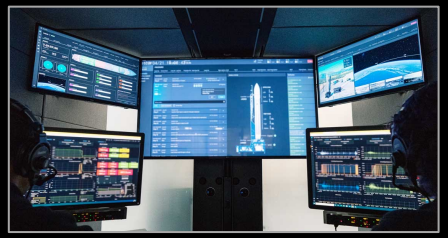
TEST STANDS

LAUNCH SYSTEM

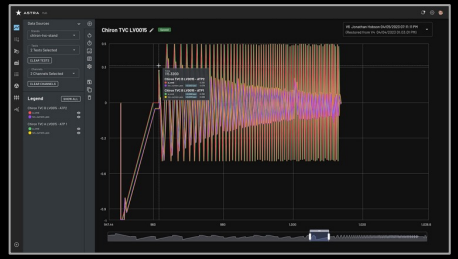
ROCKET 4

LAUNCHER

SOFTWARE



MISSION CONTROL



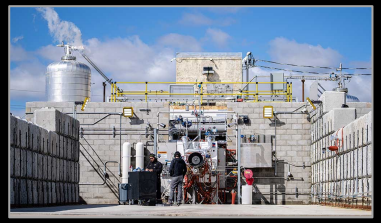
DATA PLATFORM

FACTORY

ROCKET PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



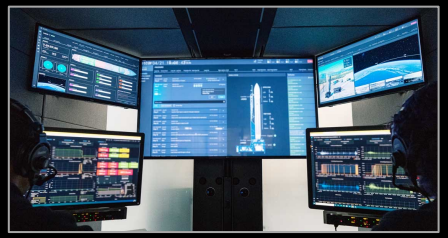
TEST STANDS

LAUNCH SYSTEM

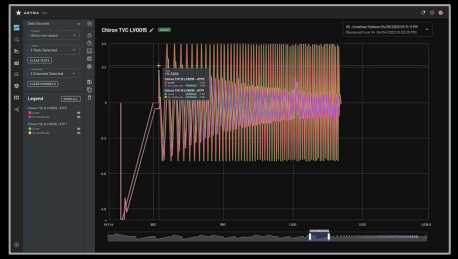
ROCKET 4

LAUNCHER

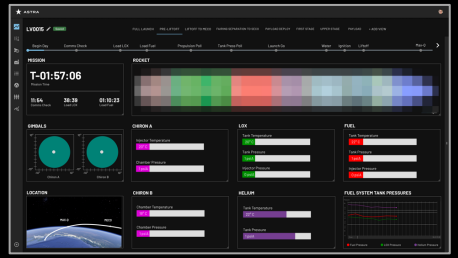
SOFTWARE



MISSION CONTROL



DATA PLATFORM



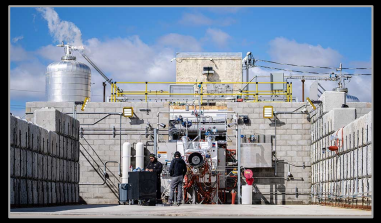
LAUNCH SYSTEM SIMULATOR

FACTORY

ROCKET PRODUCTION LINE

MACHINE SHOP

QUALITY CONTROL LAB



TEST STANDS

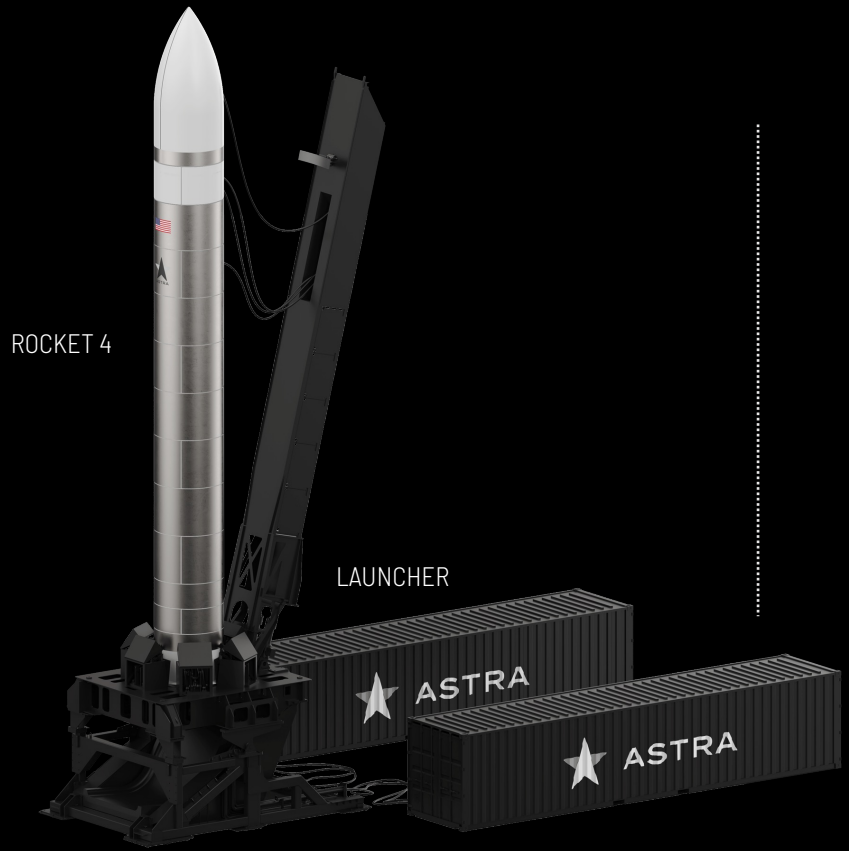
DESIGNED TO PRODUCE 1 ROCKET PER DAY

100% OF CRITICAL COMPONENTS PASS THROUGH OUR QUALITY CONTROL LAB

NEXT DAY PART PRODUCTION

ABILITY TO TEST NEARLY EVERYTHING ON SITE

LAUNCH SYSTEM

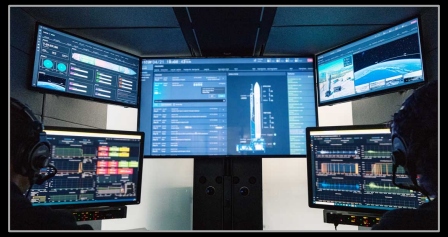


MOBILE

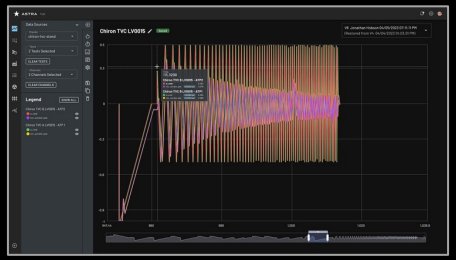
SMALL TEAM OPERATION

1-DAY TURNAROUND CAPABILITY

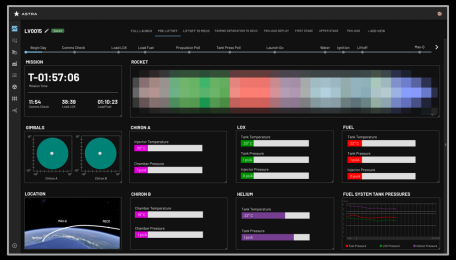
SOFTWARE



MISSION CONTROL



DATA PLATFORM



LAUNCH SYSTEM SIMULATOR

TWO PERSON MISSION CONTROL

DESIGNED FOR 24-HOUR CONOPS

SIMULATES FULL LAUNCH SYSTEM


TEST FLIGHTS STARTING 2023

DR. ADAM LONDON

Founder and CTO

RELIABILITY


2021-08-28 22:35:00
Pole2

DESIGN FAILURES +
PROCESS FAILURES +
RANDOM FAILURES

RELIABLE
DESIGN

RELIABLE
DESIGN

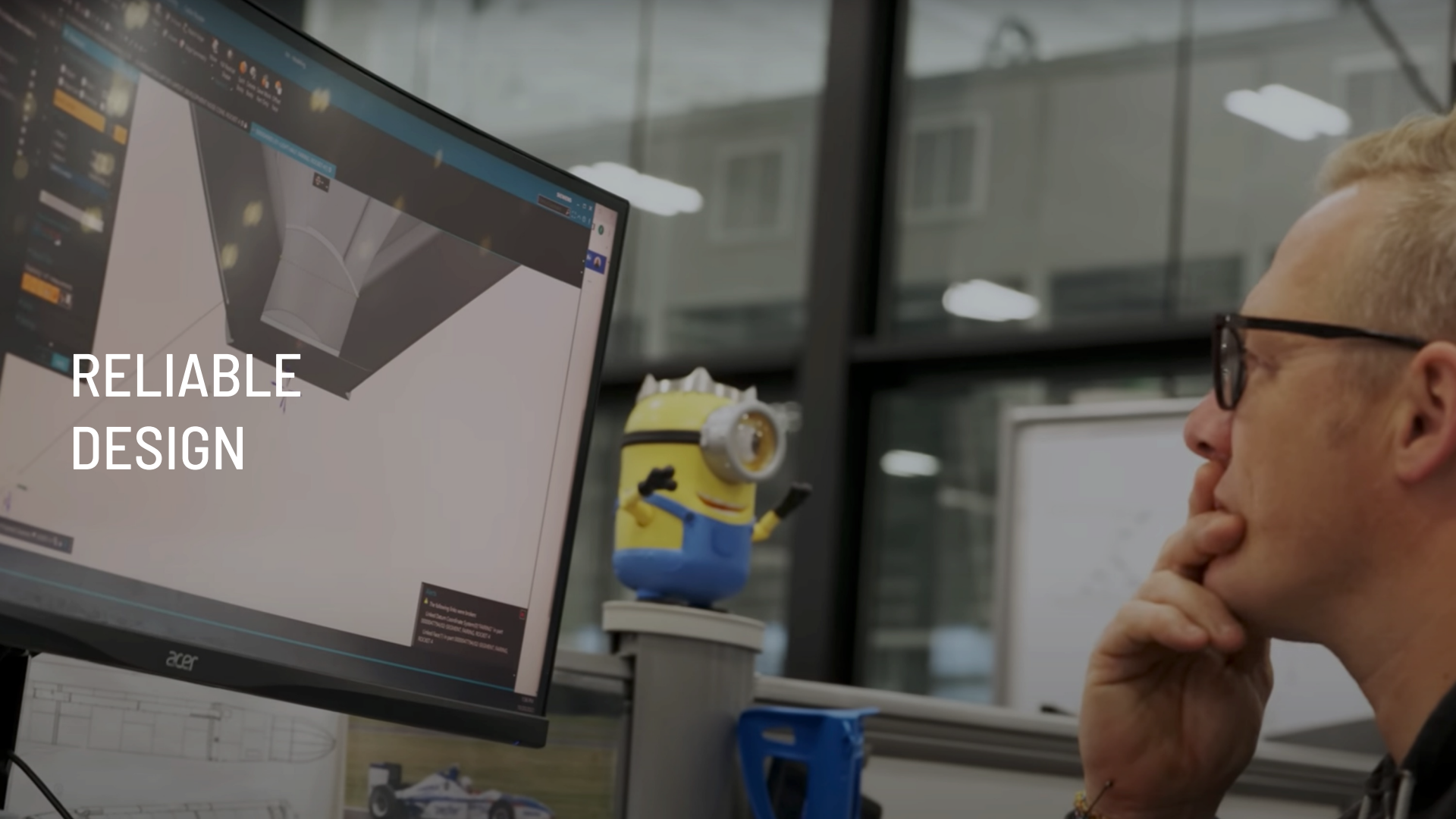
DEPENDABLE
MANUFACTURING

RELIABLE
DESIGN

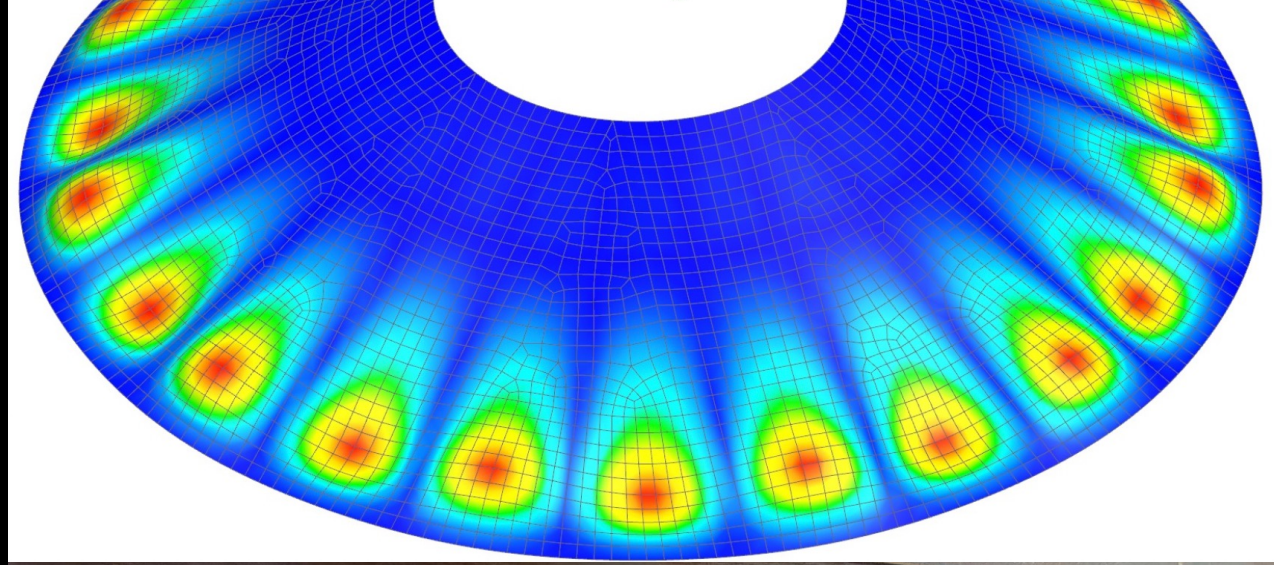
DEPENDABLE
MANUFACTURING

ROBUST
TEST AND
LAUNCH
OPERATIONS

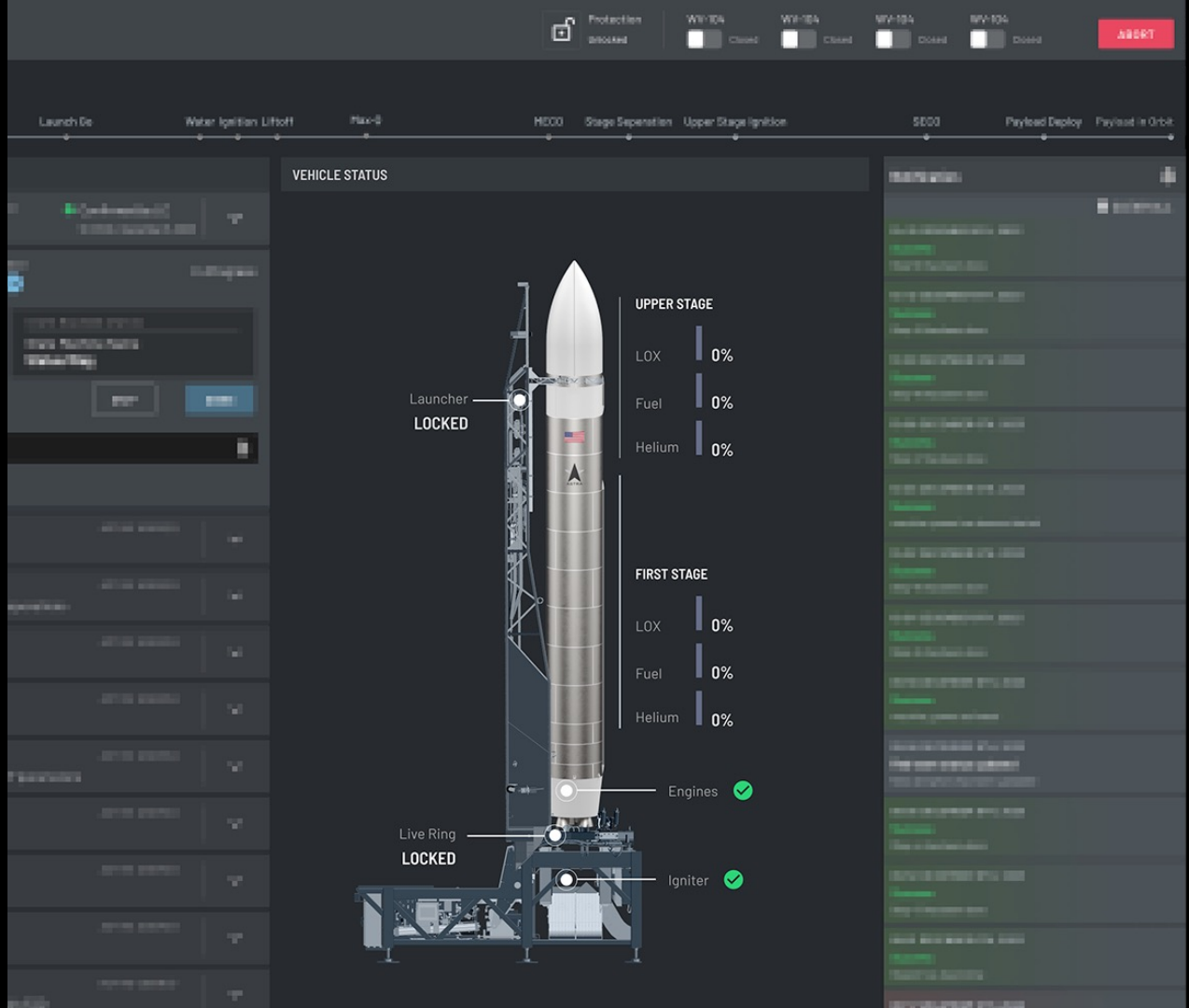

RELIABLE
DESIGN


RELIABLE
DESIGN

RELIABLE DESIGN



RELIABLE DESIGN



RELIABLE DESIGN


RELIABLE
DESIGN

DEPENDABLE MANUFACTURING


DEPENDABLE
MANUFACTURING

ROBUST TEST & OPERATIONS

ROBUST TEST & OPERATIONS

IMAGE COURTESY OF URSA MAJOR

ROBUST TEST & OPERATIONS

ROBUST TEST & OPERATIONS

MARGO DE NARAY

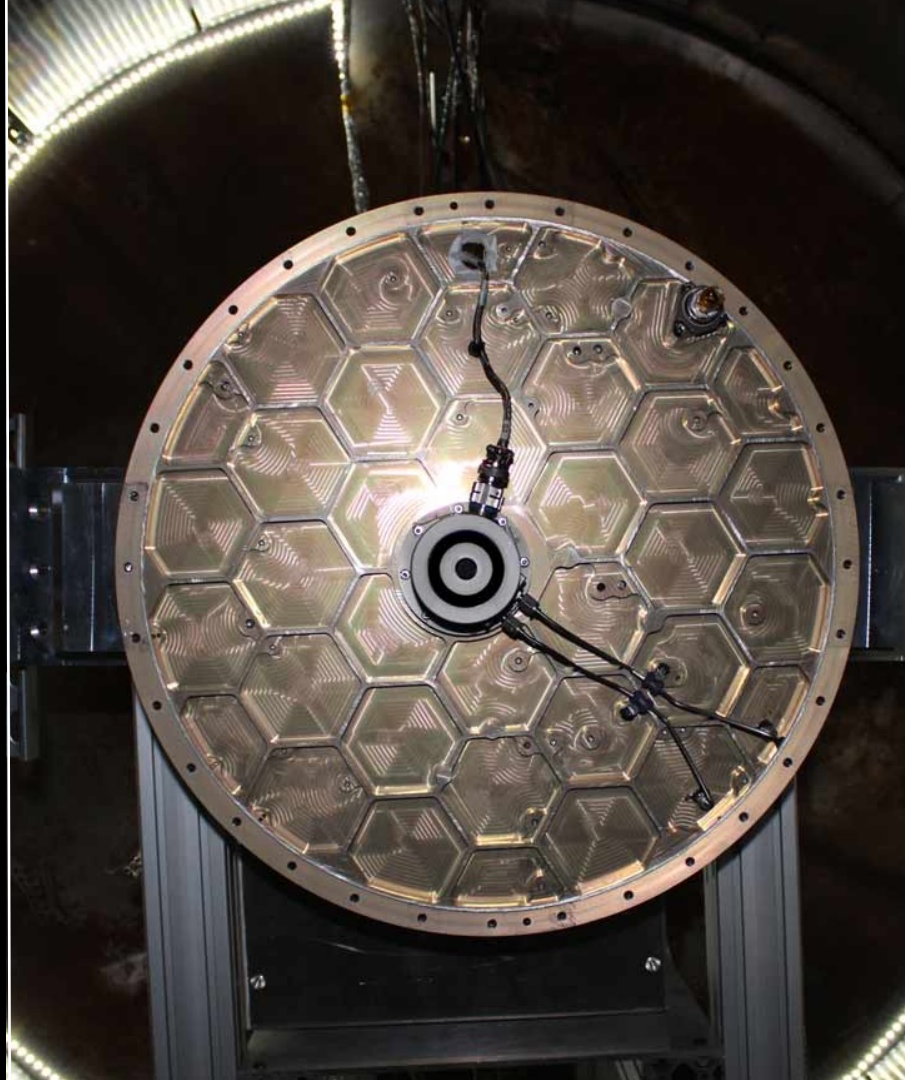
Vice President & General Manager

Space Products and Services — Astra Spacecraft Engine™

ASTRA SPACECRAFT ENGINE™

Flight-Proven Electric Propulsion Systems

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

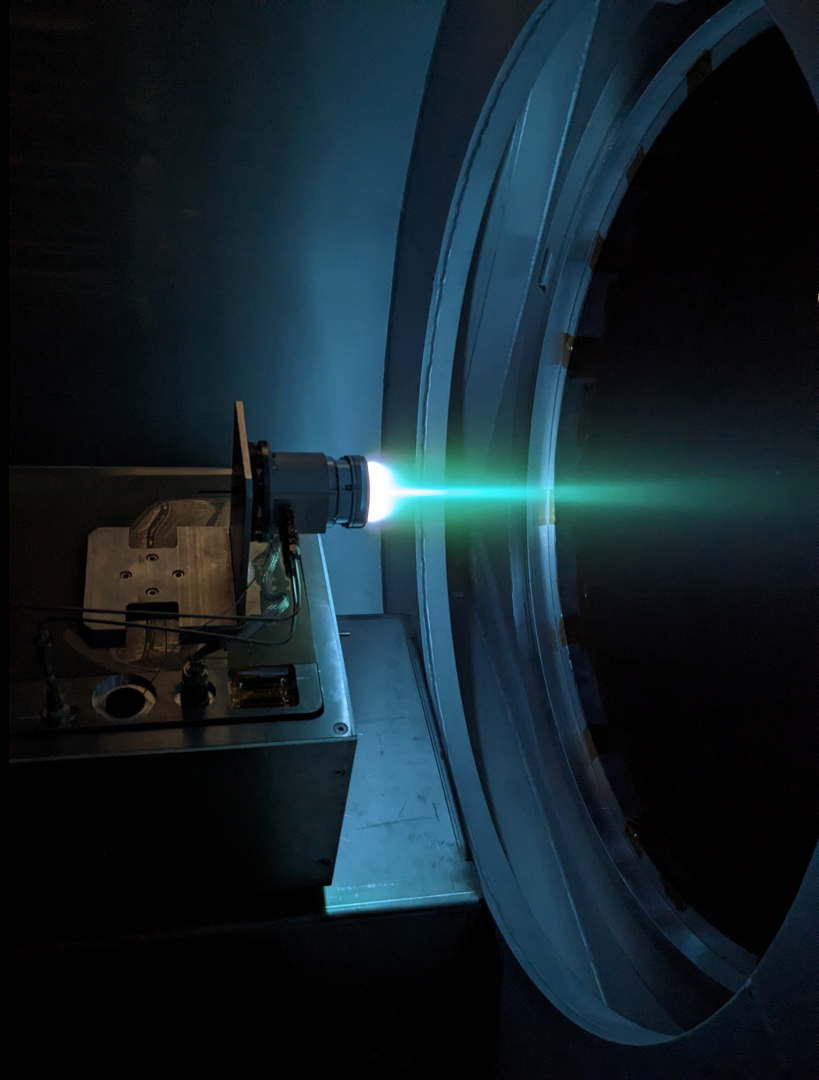


ORBIT RAISING

STATION
KEEPING

COLLISION AVOIDANCE

DE-ORBITING



ASTRA SPACECRAFT ENGINE™ SYSTEM OVERVIEW

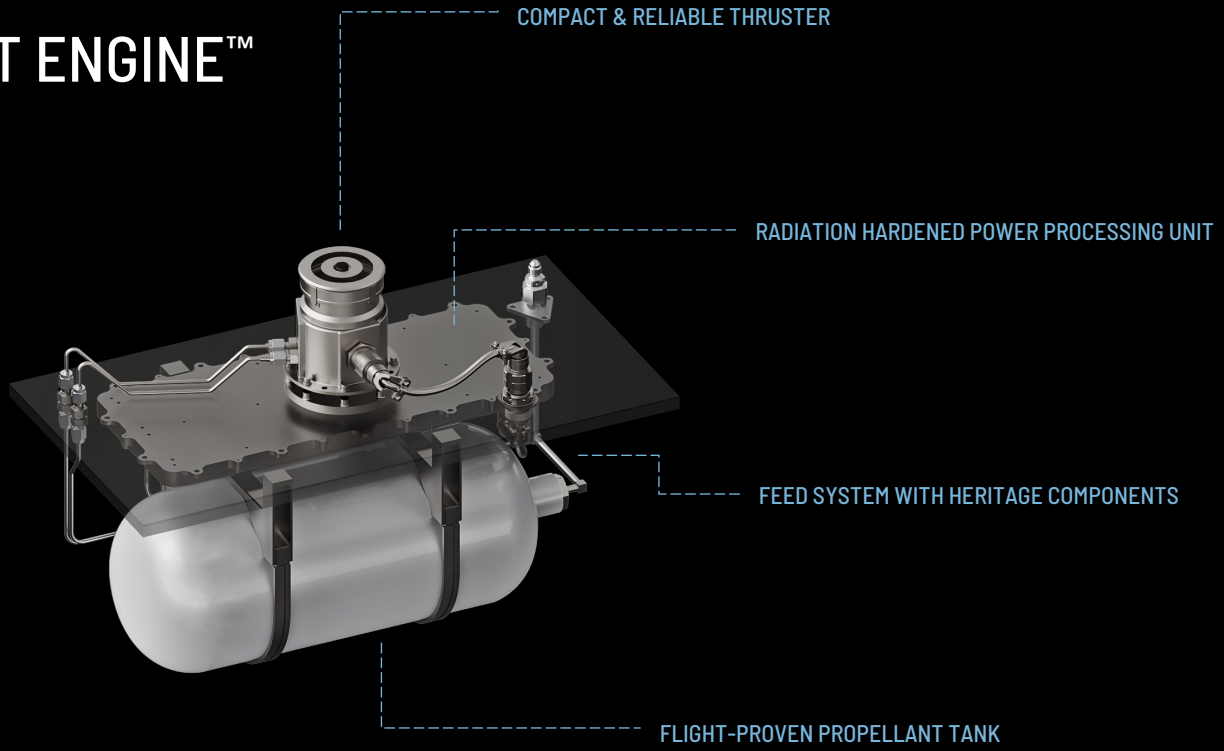
THRUST: 25 mN

SPECIFIC IMPULSE: 1,400 s

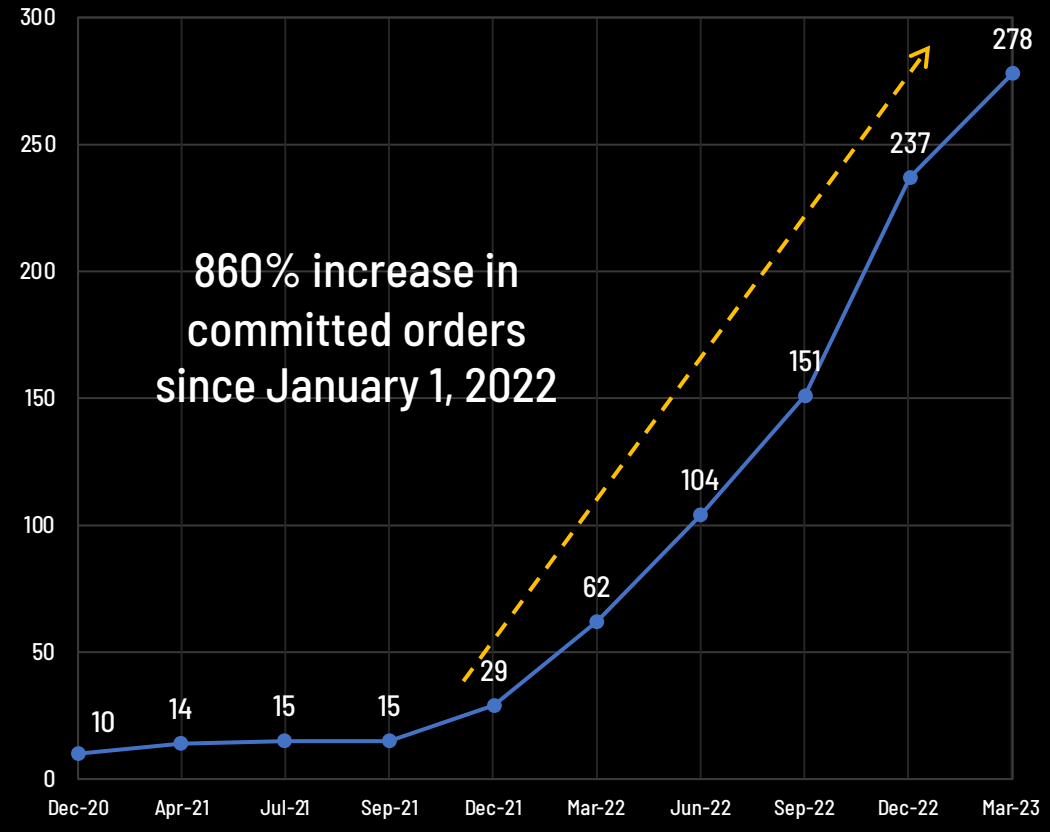
TOTAL IMPULSE: 300 kN-s

INPUT POWER: 400 W

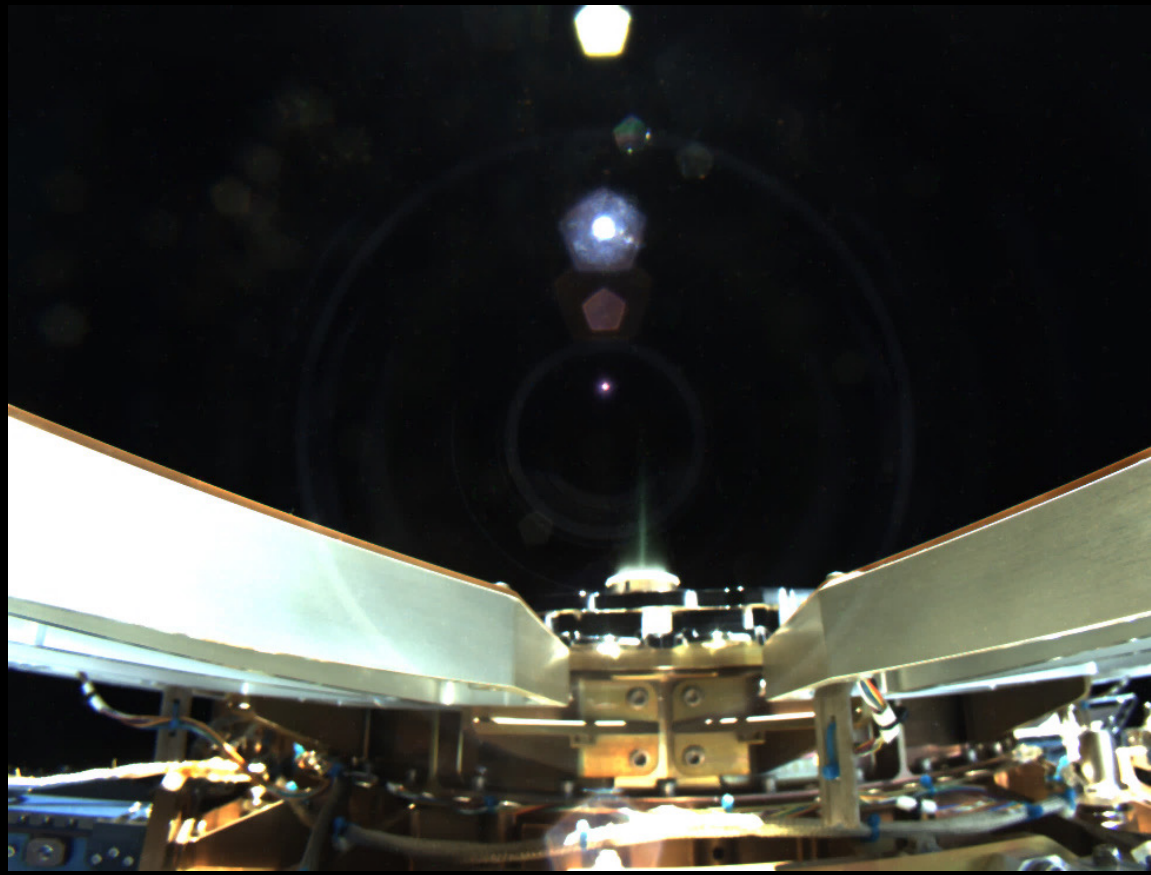
VOLTAGE: 27-34 V DC



278 CUMULATIVE COMMITTED ORDERS OF THE ASTRA SPACECRAFT ENGINE™

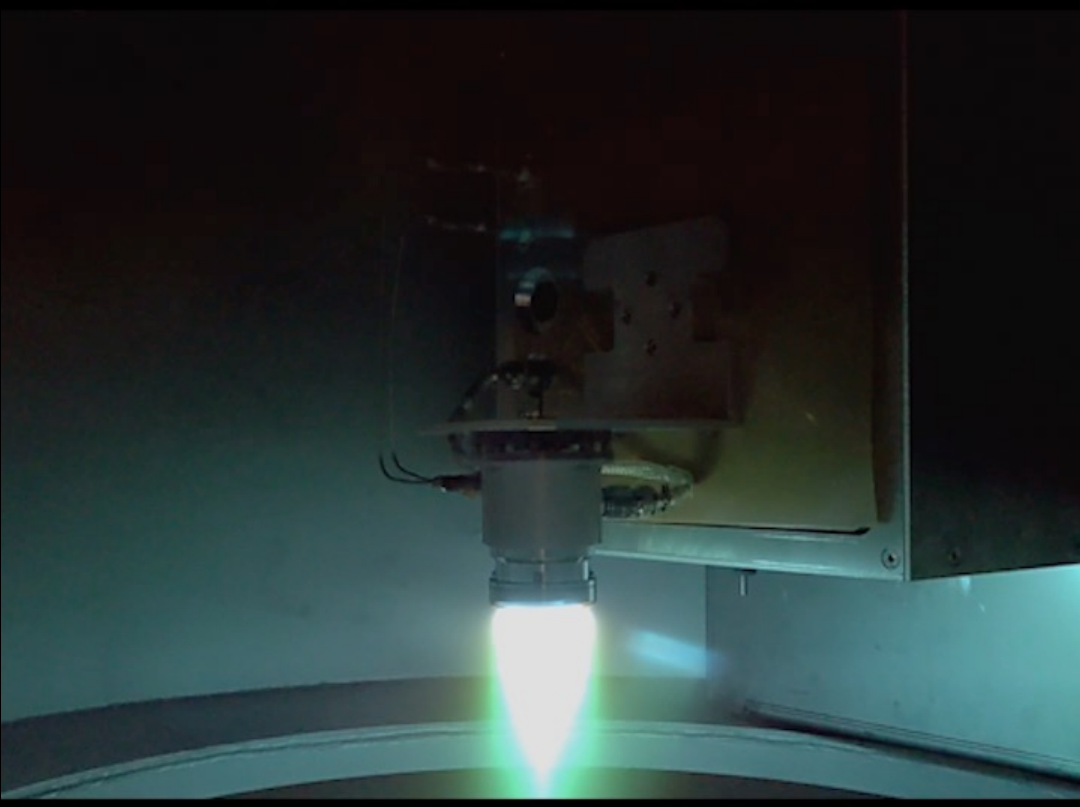


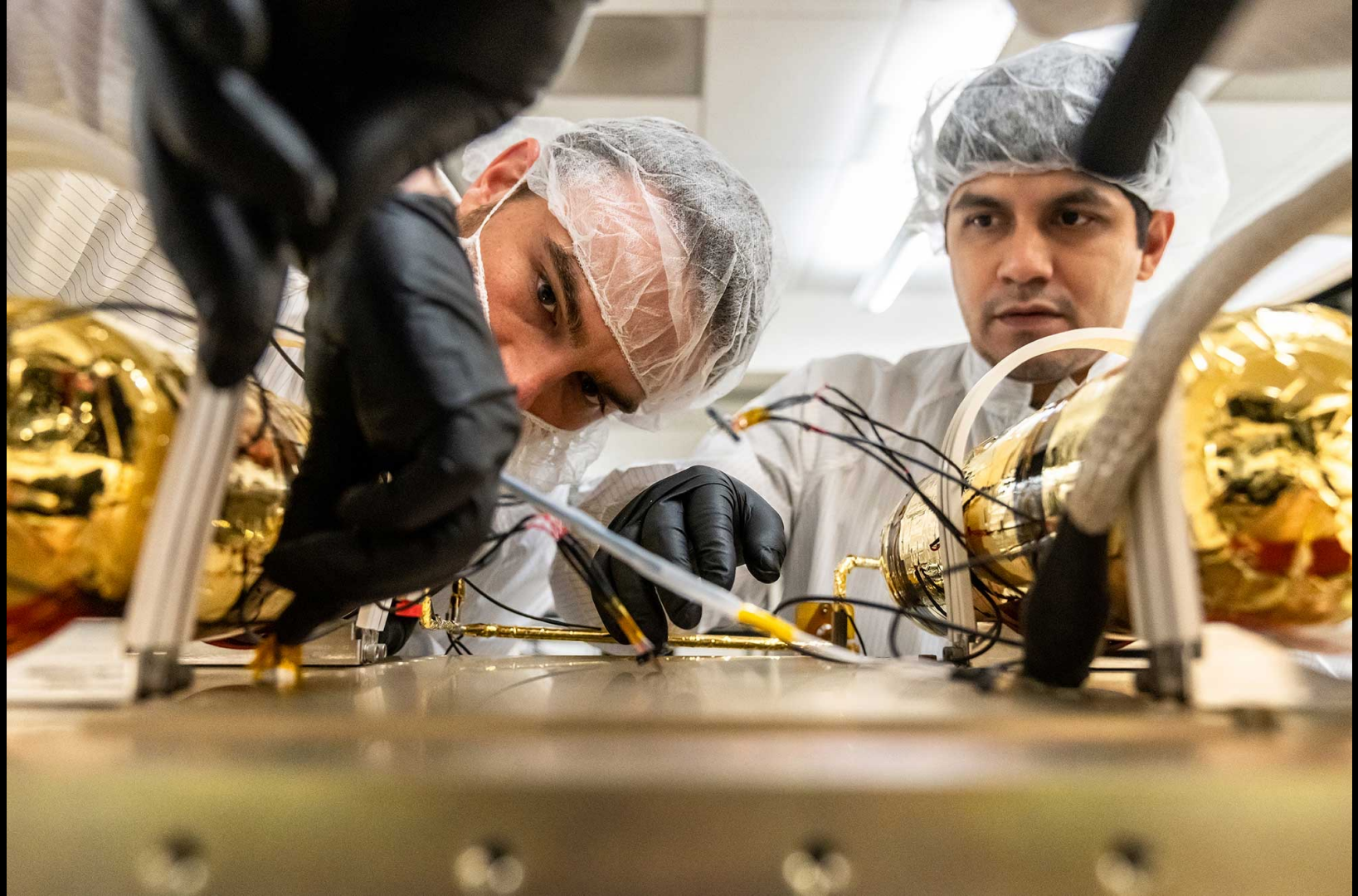
9 ASTRA SPACECRAFT ENGINES ON ORBIT!



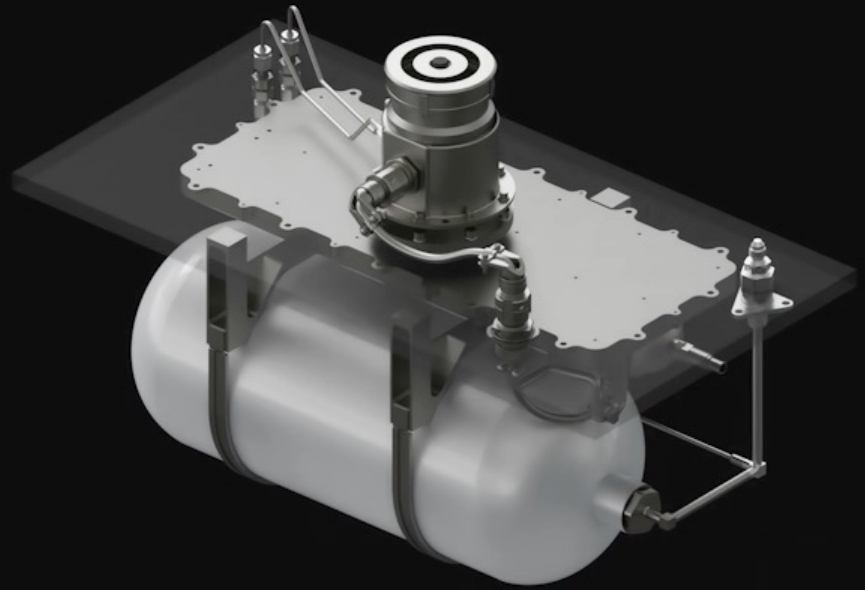

ASTRA
415 OAKMEAD PARKWAY


Sumitomo
FA-70






ELECTRICAL
PACP INSIDE



SPACECRAFT PROPULSION KIT

ONE MORE THING...


ROCKET
SUPPORT
CART


ASTRA