

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

**FORM 8-K**

**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d)**  
**of The Securities Exchange Act of 1934**

**Date of Report (Date of Earliest Event Reported): September 21, 2022**

**Rocket Lab USA, Inc.**  
(Exact name of registrant as specified in its charter)

**Delaware**  
(State or other jurisdiction  
of incorporation)

**001-39560**  
(Commission  
File Number)

**98-1550340**  
(I.R.S. Employer  
Identification No.)

**3881 McGowen Street**  
**Long Beach, California**  
(Address of principal executive offices)

**90808**  
(Zip Code)

**Registrant's telephone number, including area code (714) 465-5737**

**Not Applicable**  
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- ☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- ☐ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- ☐ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- ☐ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	RKLB	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company ☒

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. ☐

#### Item 7.01 Regulation FD Disclosure

As previously disclosed, on September 21, 2022, Rocket Lab USA, Inc. (the “Company”) hosted an investor day and Neutron launch vehicle development update. A replay of the webcast is available on the Company’s Investor Relations website at [www.rocketlabusa.com/investors](http://www.rocketlabusa.com/investors). In addition, on September 21, 2022 the Company issued a press release regarding the Company’s investor day and posted the related investor presentation to the Company’s website. A copy of the press release and the presentation are attached hereto and furnished herewith as Exhibit 99.1 and Exhibit 99.2, respectively.

This information is being furnished pursuant to Item 7.01, “Regulation FD Disclosure,” and shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

#### Forward-Looking Statements

*This report may contain certain “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Exchange Act, as amended. These forward-looking statements are based on the Company’s current expectations and beliefs concerning future developments and their potential effects, and contain a number of risk and uncertainties (many of which are beyond the Company’s control), or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. Many factors could cause actual future events to differ materially from the forward-looking statements in this report including the factors identified in the press release furnished under Item 7.01 hereof and those and other risks detailed from time to time in the Company’s filings with the Securities and Exchange Commission. There can be no assurance that the future developments affecting the Company will be those that we have anticipated. Except as required by law, the Company is not undertaking any obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.*

#### Item 9.01 Financial Statements and Exhibits.

##### (d) Exhibits

Exhibit No.	Description
99.1	<a href="#">Press Release of Rocket Lab USA, Inc., dated September 21, 2022.</a>
99.2	<a href="#">Investor Presentation, dated September 21, 2022.</a>
104	Cover Page Interactive Data File (embedded within the Inline XBRL document).

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: September 21, 2022

**Rocket Lab USA, Inc.**

By: /s/ Arjun Kampani  
Arjun Kampani  
Senior Vice President, General Counsel, and Corporate Secretary



## MEDIA RELEASE

### Rocket Lab Hosts Investor Day and Neutron Development Update

*The event showcased Neutron launch vehicle development progress, outlined the path to target margin model for Electron and Space Systems, and provided product roadmap for future space systems capabilities*

**New York, 21 September, 2022** – Rocket Lab USA, Inc (Nasdaq: RKLB), a leading launch and space systems company, today hosted an Investor Day and Neutron Development Update at the Intrepid Air, Sea and Space Museum in New York City and streamed the event live on YouTube.

Rocket Lab Founder and Chief Executive Officer Peter Beck, joined by members of the Company's executive leadership team, provided a series of presentations including an update on the progress of the Neutron launch vehicle development. The event also outlined the path to the Company's target margin model for Electron and space systems, while also providing a product roadmap for future space systems capabilities.

A replay of the event webcast is available at: [www.rocketlabusa.com/investorday](http://www.rocketlabusa.com/investorday)

Key highlights from the event include:

#### **Neutron Development Update:**

- NASA's Stennis Space Center in Mississippi was announced as the engine test facility for Rocket Lab's reusable Archimedes rocket engine which will power the Neutron launch vehicle. Full details about the Archimedes Test Complex announcement can be found here: [www.businesswire.com/news/home/20220921005428/en/Rocket-Lab-Selects-NASA-Stennis-Space-Center-for-Neutron-Engine-Test-Facility](http://www.businesswire.com/news/home/20220921005428/en/Rocket-Lab-Selects-NASA-Stennis-Space-Center-for-Neutron-Engine-Test-Facility)
- Neutron hardware was revealed for the first time, including a full-scale section of carbon fiber tank structure and a full-scale Archimedes engine model.
- For the first time details and images of Neutron's potential crew capsule design were revealed, providing an exclusive look at how Neutron could enable human spaceflight in the future.
- Updates on the development of the Neutron production complex and launch site located in Virginia.

#### **Electron Program:**

- Highlighted Electron's position as the leading dedicated small satellite launcher with 30 missions now complete, including nine successful launches since the Company's de-SPAC in August 2021.

[rocketlabusa.com](http://rocketlabusa.com) | [media@rocketlabusa.com](mailto:media@rocketlabusa.com)



## MEDIA RELEASE

- Revealed that an Electron rocket is en-route to Launch Complex 2 in preparation for the Company's inaugural launch from U.S. soil, a dedicated mission for radio frequency geospatial analytics constellation operator HawkEye 360. The mission is scheduled to launch in December and is the first in a three-launch deal that will see Rocket Lab deliver 15 satellites to orbit across three Electron missions for HawkEye 360 between late 2022 and 2024.
- Announced a new contract with a confidential commercial customer for a dedicated mission on Electron from Launch Complex 2 in Virginia in Q1 2023. The mission is scheduled to launch only weeks after the site's inaugural launch, bringing small launch rapid response capability to the Eastern Shore.
- Shared details of Rocket Lab's progress to make Electron the world's first reusable orbital small rocket and confirmed the Company's next recovery mission will include an attempt to return the rocket to land after it is captured with a helicopter.

### Space Systems:

- Revealed the product roadmap for future space systems capabilities that will enable Rocket Lab to tap into total addressable market opportunity through the Company's vertical integration and mass production scalability.
- Shared progress on the development of space systems infrastructure, including a new 10,000 sq. ft. state-of-the-art satellite cleanroom and processing facility to scale production capacity for future growth.
- Detailed a selection of the 220+ missions in development that are supported by Rocket Lab space systems, including interplanetary missions to Mars and Venus, a multi-spacecraft contract for Varda, and other missions for commercial, civil, and defense satellite customers.

ENDS

+ Images & Video Content

<https://flic.kr/s/aHBqjzPrHL>

+ Rocket Lab Media Contact

Morgan Bailey  
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[rocketlabusa.com](https://rocketlabusa.com) | [media@rocketlabusa.com](mailto:media@rocketlabusa.com)



## MEDIA RELEASE

### + About Rocket Lab

Rocket Lab (Nasdaq: RKLb) is a global leader in space, delivering proven and reliable space services spanning launch, spacecraft manufacture, satellite subsystems, flight software, and on-orbit operations. Since 2018, the company's Electron rocket has delivered proven and reliable launch for civil, national security, defense, and commercial customers, deploying more than 150 satellites to orbit. Building on the achievements of Electron, Rocket Lab is developing a next generation large reusable launch vehicle, Neutron, designed for constellation deployment, cargo resupply, interplanetary missions. Rocket Lab also develops mission-ready spacecraft and satellite subsystems. More than 1,700 spacecraft on orbit feature Rocket Lab technology including space solar power, radios, separation systems, propulsion, flight software, star trackers, and reaction wheels. Headquartered in Long Beach, California, Rocket Lab operates three launch pads at two launch sites across New Zealand and Virginia, and has operations in Virginia, Colorado, Maryland, New Mexico, and Toronto. Visit [www.rocketlabusa.com](http://www.rocketlabusa.com).

### + FORWARD LOOKING STATEMENTS

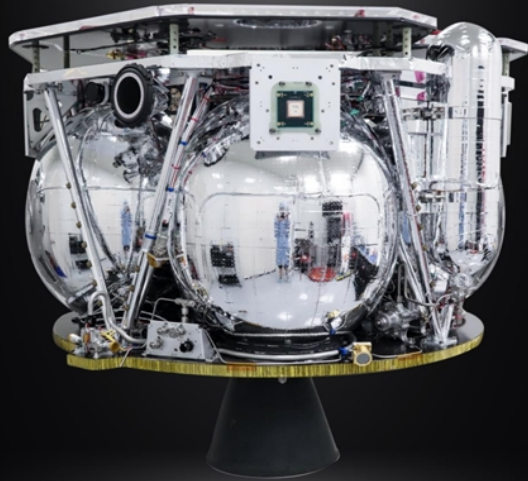
This press release may contain certain "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. All statements, other than statements of historical facts, contained in this press release, including statements regarding our strategy, future operations, future financial position, projected costs, prospects, plans and objectives of management, including without limitation Q1 2022 guidance, are forward-looking statements. Words such as, but not limited to, "anticipate," "aim," "believe," "contemplate," "continue," "could," "design," "estimate," "expect," "intend," "may," "might," "plan," "possible," "potential," "predict," "project," "seek," "should," "suggest," "strategy," "target," "will," "would," and similar expressions or phrases, or the negative of those expressions or phrases, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements are based on Rocket Lab's current expectations and beliefs concerning future developments and their potential effects. These forward-looking statements involve a number of risks, uncertainties (many of which are beyond Rocket Lab's control), or other assumptions that may cause actual results or performance to be materially different from those expressed or implied by these forward-looking statements. Many factors could cause actual future events to differ materially from the forward-looking statements in this press release, including risks related to the global COVID-19 pandemic; risks related to government restrictions and lock-downs in New Zealand and other countries in which we operate that could delay or suspend our operations; delays and disruptions in expansion efforts; our dependence on a limited number of customers; the harsh and unpredictable environment of space in which our products operate which could adversely affect our launch vehicle and spacecraft; increased congestion from the proliferation of low Earth orbit constellations which could materially increase the risk of potential collision with space debris or another spacecraft and limit or impair our launch flexibility and/or access to our own orbital slots; increased competition in our industry due in part to rapid technological development and decreasing costs; technological change in our industry which we may not be able to keep up with or which may render our services uncompetitive; average selling price trends; failure of our launch vehicles, spacecraft and components to operate as intended either due to our error in design in production or through no fault of our own; launch schedule disruptions; supply chain disruptions, product delays or failures; design and engineering flaws; launch failures; natural disasters and epidemics or pandemics; changes in governmental regulations including with respect to trade and export restrictions, or in the status of our regulatory approvals or applications; or other events that force us to cancel or reschedule launches, including customer contractual rescheduling and

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## MEDIA RELEASE

termination rights; risks that acquisitions may not be completed on the anticipated time frame or at all or do not achieve the anticipated benefits and results; and the other risks detailed from time to time in Rocket Lab's filings with the Securities and Exchange Commission (the "SEC"), including under the heading "Risk Factors" in Rocket Lab's Annual Report on Form 10-K for the fiscal year ended December 31, 2021, which was filed with the SEC on March 24, 2022, and elsewhere (including that the impact of the COVID-19 pandemic may also exacerbate the risks discussed therein). There can be no assurance that the future developments affecting Rocket Lab will be those that we have anticipated. You should read this press release with the understanding that our actual results may be materially different from the plans, intentions and expectations disclosed in the forward looking statements we make. All forward looking statements are qualified in their entirety by this cautionary statement. Except as required by law, Rocket Lab is not undertaking any obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise.

[rocketlabusa.com](https://rocketlabusa.com) | [media@rocketlabusa.com](mailto:media@rocketlabusa.com)



Rocket Lab USA, Inc.

# 2022 INVESTOR DAY AND NEUTRON UPDATE

September 21, 2022

[rocketlabusa.com](https://rocketlabusa.com)



# DISCLAIMER AND FORWARD LOOKING STATEMENTS

## Forward Looking Statements

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# TODAY'S PRESENTERS



**Peter Beck**  
Founder, CEO, Chief Engineer



**Adam Spice**  
Chief Financial Officer



**Brad Clevenger**  
Vice President – Space Systems



**Ehson Mosleh**  
Chief Engineer – Space Systems



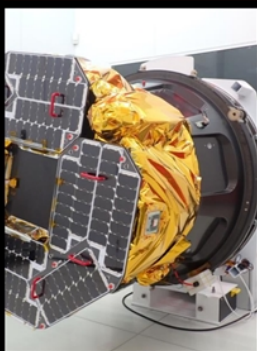
**Richard French**  
Director – Business Development  
and Strategy Space Systems



**Shaun D'Mello**  
Vice President – Launch Systems



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## SECTION

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## SECTION

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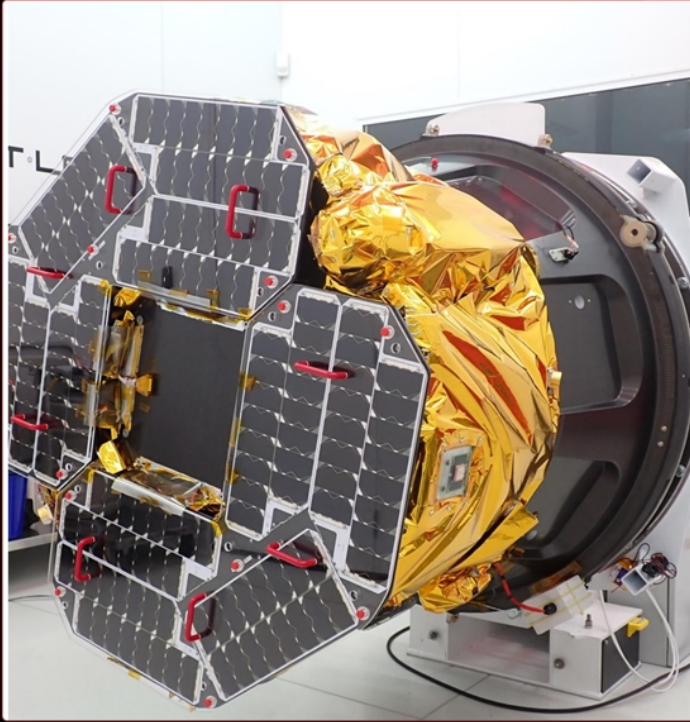
Launch: Neutron



## SECTION

# 05

Financial



SECTION

01

# ROCKET LAB OVERVIEW



OUR VISION

OPEN ACCESS TO  
SPACE TO IMPROVE  
LIFE ON EARTH



# LAUNCH WAS JUST THE START

01 **LAUNCH:**  
The ride to space.

02 **SPACE SYSTEMS:**  
Satellites + the vital components and software within them.

03 **SPACE APPLICATIONS:**  
Uniquely positioned to access expanding space applications market.

Rocket Lab is bringing all three together, streamlining space as one of the most advanced technology and service providers to the growing space industry. We are delivering real hardware and real missions to real customers – right now.



# WE DID WHAT WE SAID WE WOULD

DELIVERING END-TO-END SPACE SOLUTIONS, FROM IDEA TO ORBIT

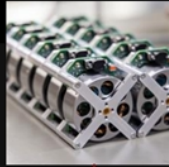


1

## Satellite Design and Manufacture



Production complexes in California, USA and Auckland, New Zealand.



2

## Satellite Components



Industry-leading star trackers, reaction wheels, solar cells and arrays, torque rods, sun sensors, composite structures, high-voltage batteries, separation systems, satellite radios.



3

## Flight Software & Testing



Off-the-shelf space software solutions.



4

## Launch Sites & Ground Stations



Three launch pads across U.S. and New Zealand, including the world's first private orbital launch complex.



5

## Launch Services



Small dedicated launch leadership today on Electron, with heavier lift in development with Neutron.



6

## On-Orbit Operations



Mission Control Centers in California, USA and Auckland, New Zealand.

# ROCKET LAB AT A GLANCE



30

Electron  
launches.



150

Satellites deployed  
to orbit.



3

Launch  
pads.



2ND

Most frequently  
launched U.S. rocket.



5

Mission control  
centers.



1,330

Team  
members.



4

Strategic  
acquisitions  
since April  
2020.



3

Rocket Lab  
Photon spacecraft  
on orbit.



5

U.S. states  
with Rocket  
Lab facilities.



13

Ton payload class  
rocket in  
development.



1,700+


Satellites on orbit  
featuring Rocket  
Lab technology.



# \$380B+ TAM FORECAST TO GROW TO \$1T BY 2030

LAUNCH SERVICES

~\$20B TAM



Proven, reliable products in market with growing product lines and services in development.

SPACE SYSTEMS

~\$44B TAM



SPACE APPLICATIONS

~\$320B TAM



With our own rockets and spacecraft, we're uniquely positioned to exploit this growing market.

Sources: Morgan Stanley, Northern Sky Research's 12th Edition Global Satellite Manufacturing & Launch Markets, Deutsche Bank

# ROCKET LAB REMAINS WAY OUT IN FRONT

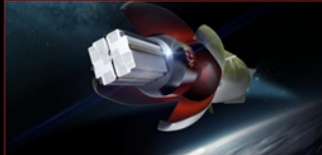
Continuing a record of relentless execution. Building momentum across launch and space systems, delivering on growth strategy.

**Cemented leadership position in small launch with increased launch cadence.**



Demonstrated launches 15 days apart.

**Expanding on addressable launch market with development of Neutron constellation launcher.**



Construction underway on Neutron Production Complex, launch site secured, and vehicle hardware already in test.

**Increasing mission heritage on Rocket Lab satellites and components, enabling access to higher value missions and larger constellation build opportunities.**



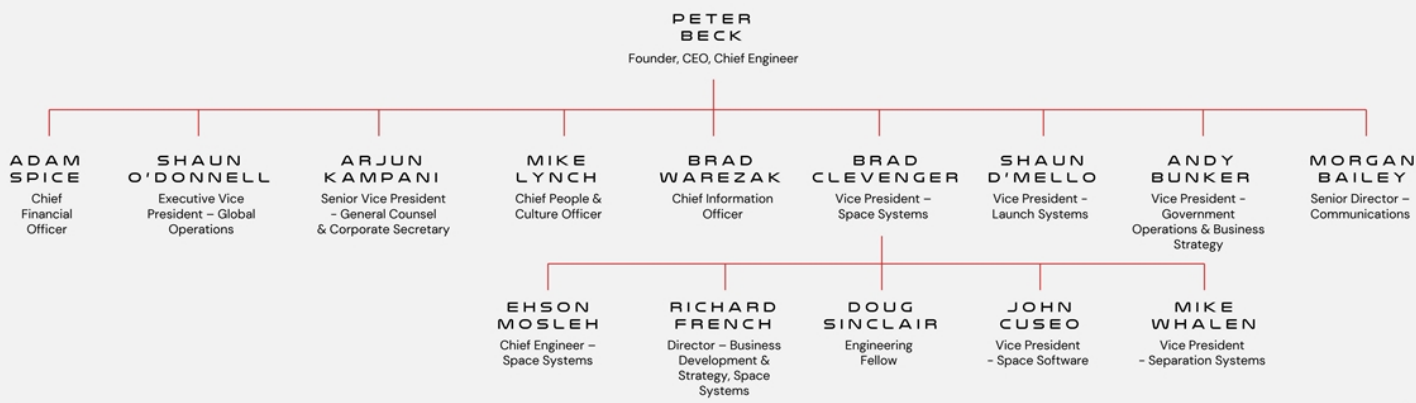
Successful Photon Moon mission for NASA has driven significant increase in interest from civil, defense, and commercial customers for Rocket Lab to design, build, and operate satellites for LEO and interplanetary missions.

**Increasing Space Systems capability to capture more of addressable space market.**



Through acquisitions and in-house development, we now deliver a significant launch and small satellite supply chain. This vertical integration enables us to offer customers schedule security and attractive pricing, resulting in significant contract wins including \$143M subcontract by MDA to build constellation spacecraft buses for Globalstar.

# BUILT WORLD CLASS EXECUTIVE TEAM



BRINGING DECADES OF EXPERIENCE FROM





SECTION

02

SMALL  
LAUNCH:  
ELECTRON



# LEADING SMALL ROCKET GLOBALLY

Second most  
frequently  
launched U.S.  
rocket.

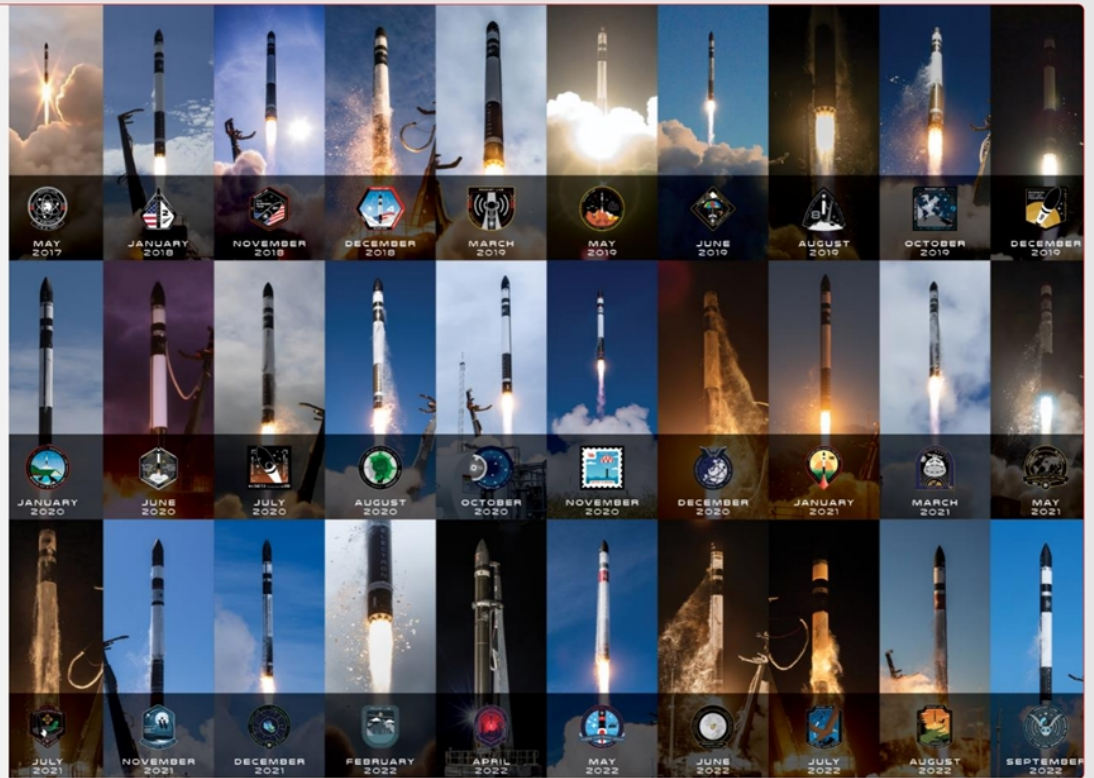
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1. SPACE X

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2. ROCKET LAB

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# SMALL LAUNCH LEADER

ELECTRON ACHIEVEMENTS SINCE ROCKET LAB'S DE-SPAC IN AUGUST 2021



9

Successful orbital launches.



100%

Mission success rate for Electron launches since de-spac.



MOON

Mission success for NASA using Electron rocket and Photon spacecraft.



320KG

Heaviest payload launched on Electron.



First mission from Pad B – second pad at Launch Complex 1 in New Zealand.



SPACE FORCE



Launched satellites for U.S. Space Force, NASA, National Reconnaissance Office (NRO), and commercial constellation operators BlackSky, Synspec, E-Space, and Unseenlabs.



First helicopter capture of Electron, advancing reusability program.



First reflight of recovered, pre-flown Electron components.



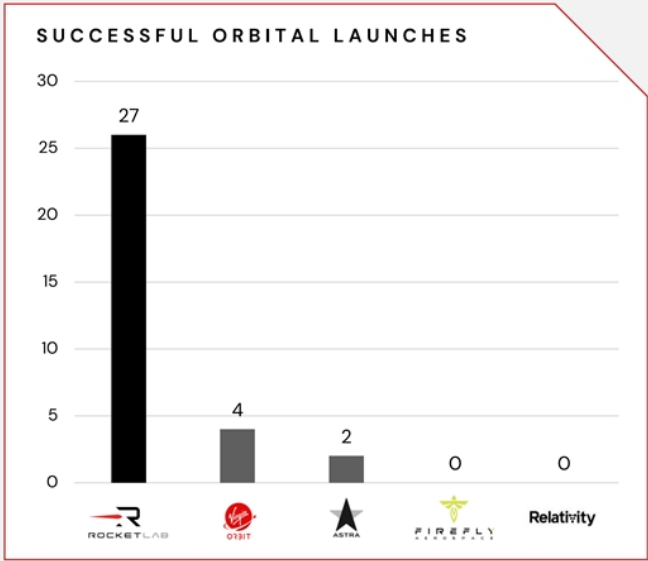
Delivered our fastest launch turnaround yet (15 days between launches).



Introduced Responsive Space Program to enable rapid call-up launch.

# THE LEADER IN SMALL SAT LAUNCH

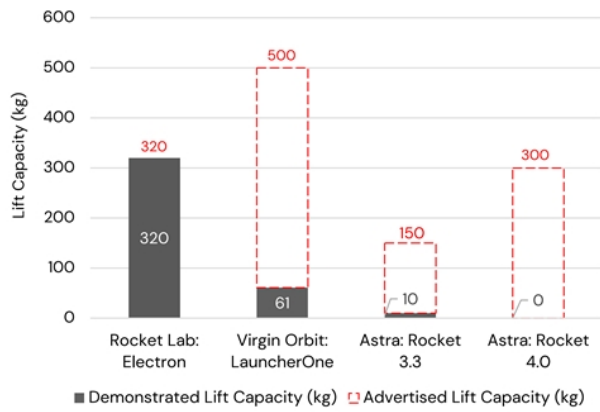
Most reliable small launch vehicle with  
highest number of launches.



# THE LEADER IN SMALL SAT LAUNCH

Only small launch provider with demonstrated  
ability to lift advertised payload mass.

ADVERTISED VS.  
DEMONSTRATED LIFT CAPACITY



# RAPIDLY INCREASED LAUNCH CADENCE

Rocket Lab has demonstrated the fastest turnaround between successful launches of any small launch provider.

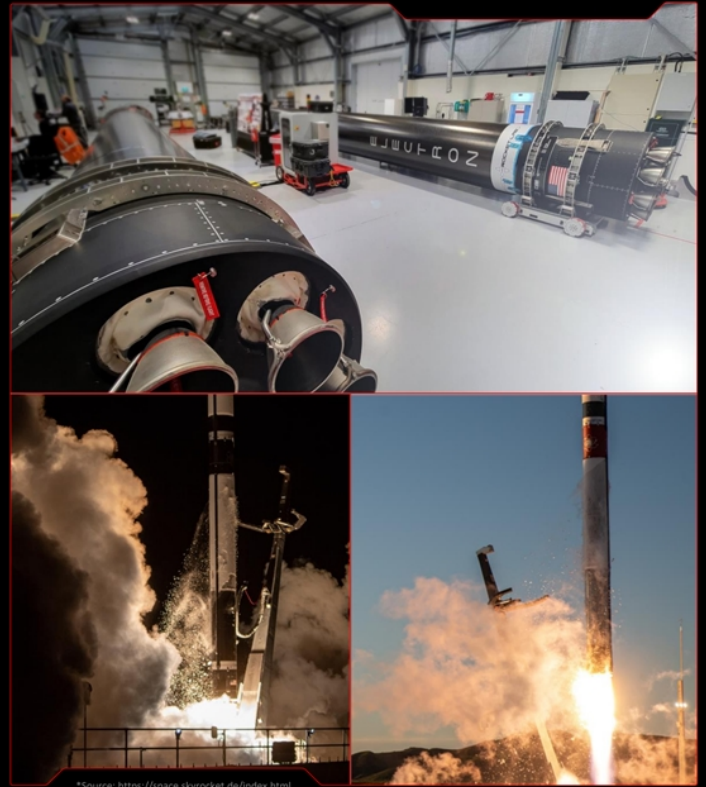
  
2<sup>ND</sup>  
115 Days

  
ROCKETLAB

1<sup>ST</sup>  
15 Days

  
3<sup>RD</sup>  
164 Days

18



# ELECTRON DELIVERS ON WHAT MATTERS MOST TO SMALL LAUNCH CUSTOMERS



**Rapid, Responsive Launch**  
Rapid call-up launch in days or hours to meet defense needs and constellation replenishment.



**Reliability**  
150 satellites deployed to orbit across 27 successful missions.



**Dedicated Launch**  
Putting small launch customers in control of their orbit, launch schedule, and mission parameters.



**Rideshare Options**  
Regular rideshare missions enabling smaller customers to share costs.



**Choice of Launch Sites**  
3 launch pads, two continents.



**Schedule Flexibility**  
132 launch slots available annually. By operating our own exclusive-use launch pads, we can easily shuffle the launch manifest to support customer schedule changes.





# UNRIVALED LAUNCH INFRASTRUCTURE

3 LAUNCH PADS IN 2 COUNTRIES



132 launch slots annually.



Critical national infrastructure asset for U.S. government customers.



Dedicated integration and control facilities.



World's first private, FAA-licensed orbital launch site.



24-hr rapid call-up launch for defense needs and constellation replenishment.



A bilateral treaty allowing a U.S. rocket to launch outside the U.S.



LAUNCH COMPLEX 1  
Mahia, New Zealand



LAUNCH COMPLEX 2  
Virginia, United States

# ELECTRON SHIPPED TO LAUNCH COMPLEX 2

Major milestone achieved in path to first Rocket Lab launch from U.S. soil.

First in a multi-launch deal with HawkEye 360 to launch **three missions** on Electron.

Launch scheduled December 2022.



HawkEye<sup>360</sup>



LAUNCH  
COMPLEX-2

Wallops Island, Virginia, USA





# ELECTRON REMAINS THE GO-TO DEDICATED LAUNCHER



Electron backlog grew 37% from August 2021



Awarded multi-launch deals by constellation operations Kineis, Synspecive, BlackSky, and Hawkeye 360.



Selected to launch NASA's Advanced Composite Solar Sail System.



Awarded contract to launch innovative space debris removal mission for Astroscale.



Selected by NASA to provide launch services for NASA's Venture-Class Acquisition of Dedicated and Rideshare (VADR) missions, a five-year program with a maximum total budget of \$300 million in launch contracts.



## GROWING LAUNCH COMPLEX 2 DEMAND



Selected by confidential commercial customer to provide dedicated launch services on Electron from LC-2 in January 2023.



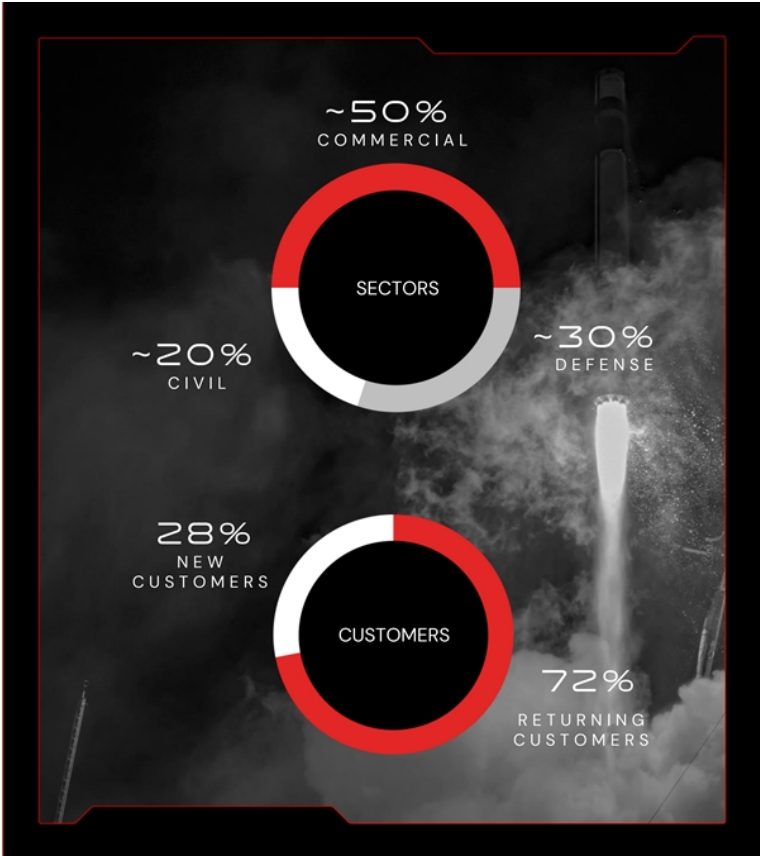
Mission to lift-off just weeks after scheduled inaugural launch from the pad.



# TRUSTED LAUNCH PROVIDER OF CHOICE

Rocket Lab is a mission partner of choice for government agencies, commercial space companies, and prime contractors globally.

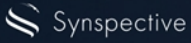


# STRONG LAUNCH MANIFEST

UPCOMING ELECTRON MISSIONS\*



3 LAUNCHES



1 3<sup>RD</sup> OF 3 LAUNCHES



5 LAUNCHES

BLACK|SKY

1 7<sup>TH</sup> OF 7 LAUNCHES



U.S. GOVERNMENT CUSTOMERS



1 LAUNCH



1 LAUNCH



Launching NASA's Advanced Composite Solar Sail System.








Selected for NASA's Venture-Class Acquisition of Dedicated and Rideshare (VADR) missions. Five-year program with a total budget of \$300 million in launch contracts.



\*Due to customer confidentiality requirements, this list is not exhaustive

# REUSABILITY BEING OPERATIONALISED

			
Parachute system works.	First stage survives re-entry.	Demonstrated helicopter catch.	Full duration test of a recovered Rutherford engine.



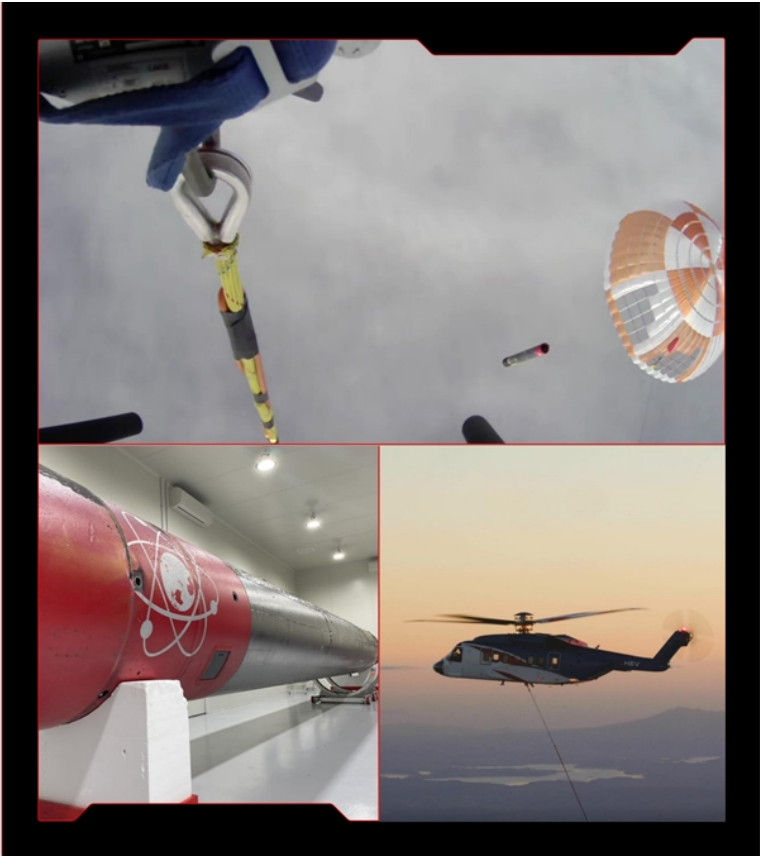
**UP NEXT:**

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Catch another stage and carry it back to land via helicopter.

---

Launch a pre-flown stage.



# RECOVERED RUTHERFORD ENGINE HOT FIRE

SYSTEM: RUTHERFORD ENGINE  
LOCATION: PROPULSION TEST COMPLEX



# ELECTRON MARGIN IMPROVEMENT

Proven vehicle and established manufacturing facilities – now we can focus on margin improvement.



## R&D complete

Core product is proven and reliable, requiring limited further investment into development.



## Manufacturing facilities established

Factories in place and capable of producing Electrons every seven days.



## R&D headcount stable

Team is built and experienced. Any new Electron headcount is focused on scaling production in line with launch demand.



## Cost savings

With R&D complete and launches now standard operations, we can drill into every part and process, identifying opportunities for cost savings to reduce build price per vehicle.



## Strong negotiating power

As a launch and space systems manufacturer producing at scale, we're able to secure compelling prices from suppliers.



## Reusability

The first stage represents ~65% of the total Electron build cost. By reusing them, we can make significant cost reductions.







SECTION

03

SPACE  
SYSTEMS



SPACE SYSTEMS STRATEGY

EVERYTHING THAT GOES  
TO SPACE SHOULD  
HAVE A ROCKET LAB  
LOGO ON IT





BRAD  
CLEVENGER

**Vice President**  
Space Systems

# WHAT WE SAID WE'D DO

1

## SATELLITES AS A SERVICE

Complete spacecraft design and build for LEO constellations to high-complexity deep space and interplanetary missions.

2

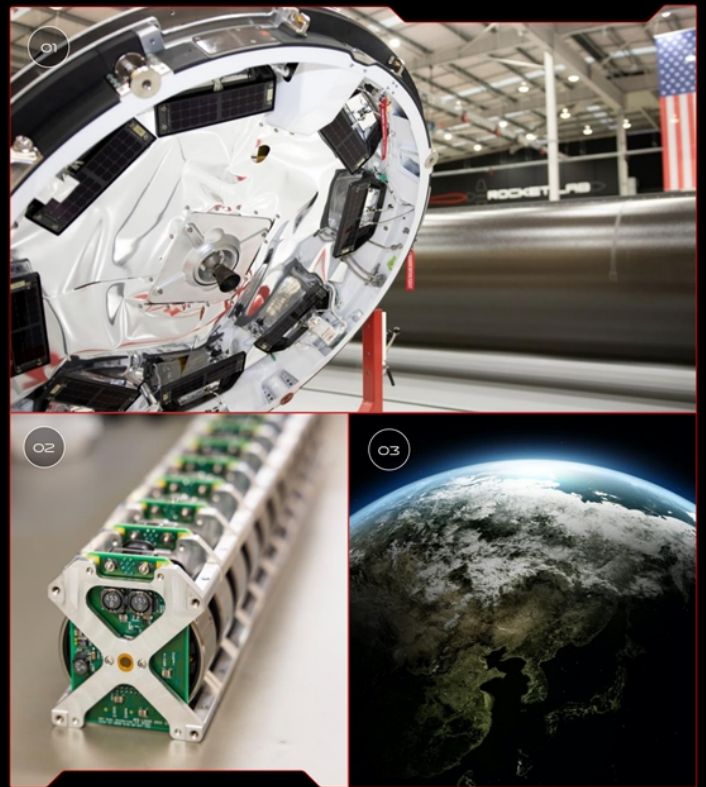
## SATELLITE COMPONENTS

Building the hardware that makes missions possible.

3

## SPACE APPLICATIONS

Uniquely positioned to access expanding space applications TAM.

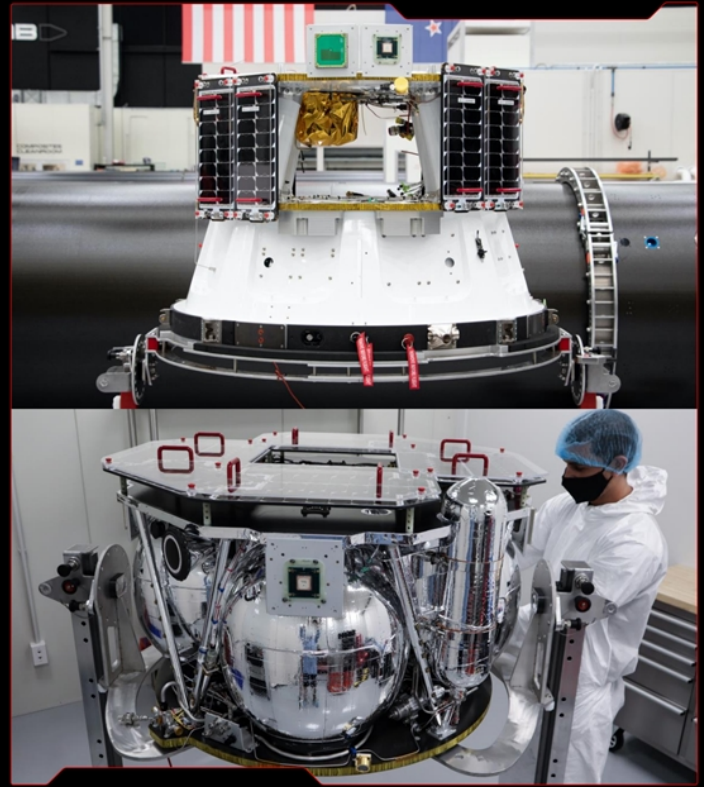




# NOW A LEADING SPACECRAFT MANUFACTURER

Capability proven, manufacturing facilities established, and strategic investments underway to scale production capacity for future growth.

- > Rocket Lab spacecraft on orbit, including NASA Moon mission.
- > Delivering best-in-class spacecraft components and capabilities through organic offerings and strategic acquisitions.
- > Three satellite operations control centers.
- > Constellation manufacturing contract awarded.
- > 10,000 sq/ft state-of-the-art satellite cleanroom and processing facility established in Long Beach HQ – a significant investment in future satellite manufacturing capability.
- > Integrated launch + spacecraft offering.



## VERTICAL INTEGRATION ACQUISITION STRATEGY



Bringing robust spacecraft manufacturing capability and critical elements of supply chain in-house.



These acquisitions, combined with our organically developed solutions, enable Rocket Lab to offer some of the most efficient and optimized spacecraft solutions in the industry.

SINCLAIR  
INTERPLANETARY

REACTION WHEELS & STAR TRACKERS

ASI

FLIGHT SOFTWARE & GNC

PSC

SEPARATION SYSTEMS

SOLARERO

SPACE SOLAR POWER

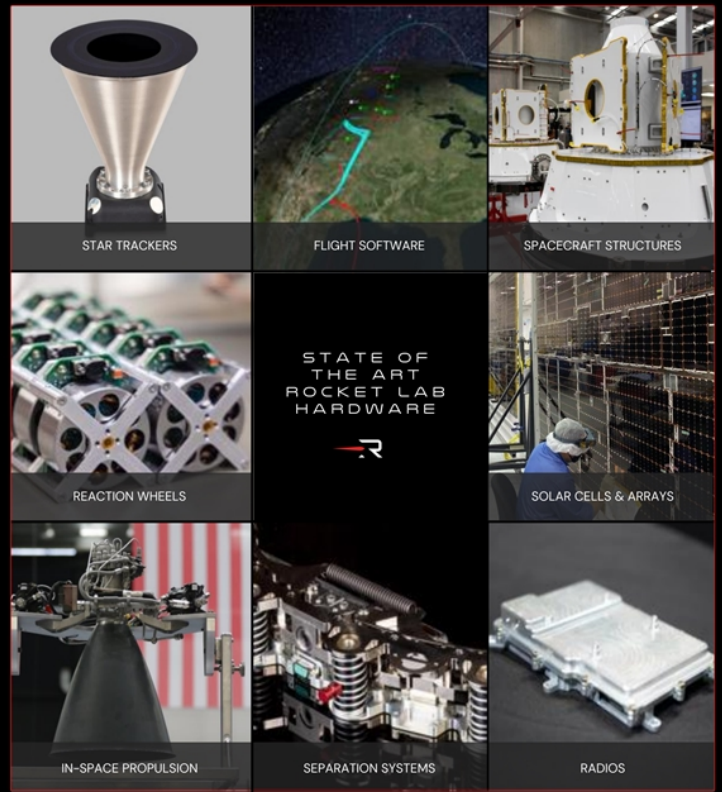


# INDUSTRY LEADING SPACECRAFT COMPONENTS

MORE THAN

# 38%

of addressable launches in 2021 globally  
featured technology created by companies  
that are now part of Rocket Lab.



# ENABLING THE WORLD'S MOST AMBITIOUS MISSIONS

Supplying hardware and software for scientific missions of global significance, defense primes, and large commercial constellations.





# NEW SATELLITE PRODUCTION FACILITY



Significant investment in satellite manufacturing and testing capability at scale.



Designed for constellation-scale production, this satellite manufacturing, integration, and test facility is substantially complete at our Long Beach Headquarters, encompassing a 10,000 sq/ft state-of-the-art cleanroom.





EHSON  
MOSLEH

**Chief Engineer**  
Space Systems

# COMPLETE SPACECRAFT SOLUTIONS

Awarded contracts to design, build and operate spacecraft across all target segments.

## LUNAR AND INTERPLANETARY

NASA CAPSTONE Moon mission.

NASA's ESCAPADE Mars mission.

Private science mission to Venus in partnership with MIT.

## HIGH-COMPLEXITY MISSIONS

Enabling in-space manufacturing and re-entry vehicles.

Cryogenic fuel depots in orbit.

Research agreement with U.S. Transportation Command to explore using Photon to establish on-orbit cargo depots.

## SATELLITE CONSTELLATIONS

\$143M contract to design and manufacture 17 spacecraft for Globalstar's space-based connectivity constellation





A ROCKET LAB SPACECRAFT  
DELIVERED THE FIRST  
MISSION OF NASA'S ARTEMIS  
PROGRAM TO RETURN HUMANS TO  
THE MOON



# A COMPLETE MISSION SOLUTION

- > A MOON ROCKET
- > A MOON ENGINE
- > A MOON SPACECRAFT
- > A MOON TRAJECTORY

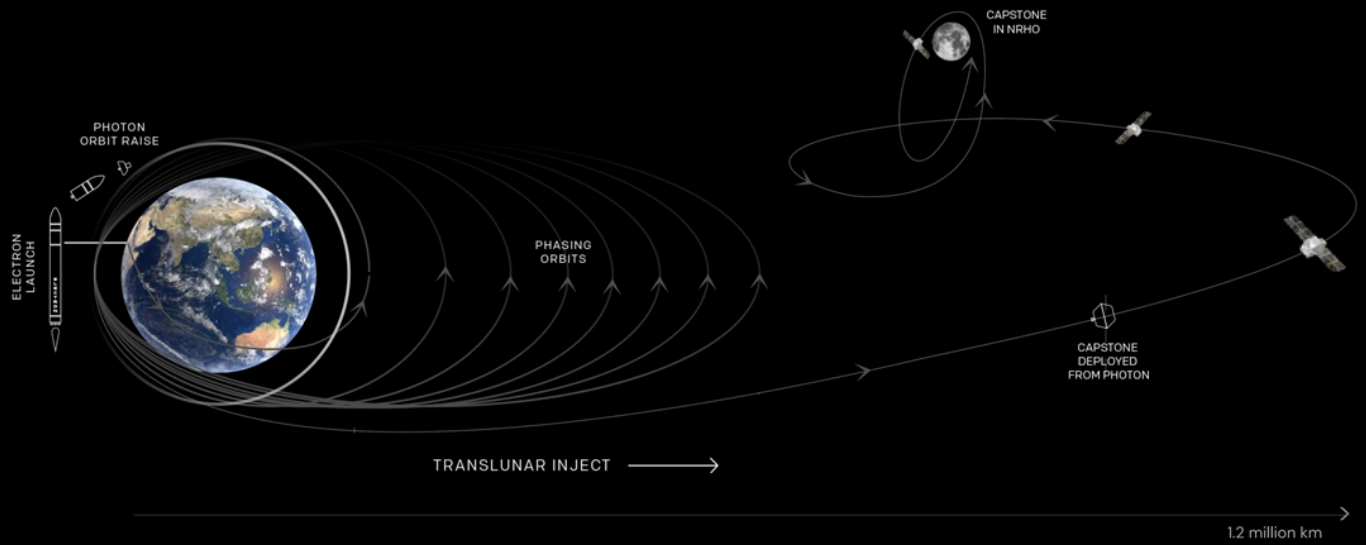
All designed, built and operated by Rocket Lab.

Rocket Lab is the only small launch provider to have **designed, built, launched, and operated** its own satellites in orbit, further expanding our TAM.



# HIGHLY COMPLEX TRAJECTORY

Six days of 24/7 spacecraft operations.



# THE MOST COMPLEX ROCKET LAB MISSION YET



First deep space mission.



First use of Lunar Photon, a high energy Rocket Lab-designed and built spacecraft.



Developed new in-space propulsion system in under two years.



First use of MAX Flight Software from Advanced Solutions Inc (ASI) on a Rocket Lab spacecraft.



First time planning and executing lunar trajectories.



First mission where Electron's second stage deorbited the same day as launch.



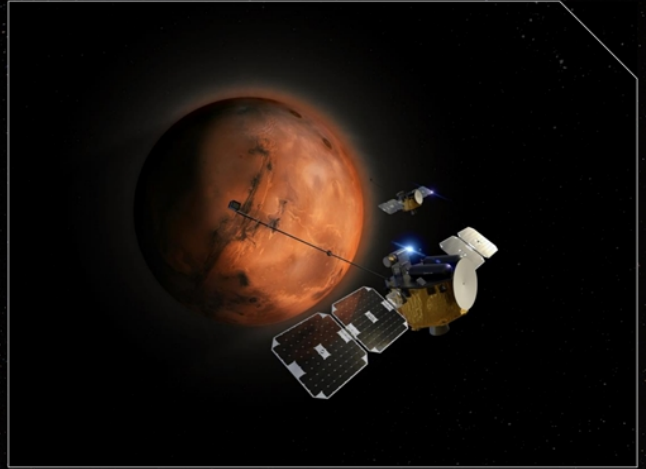
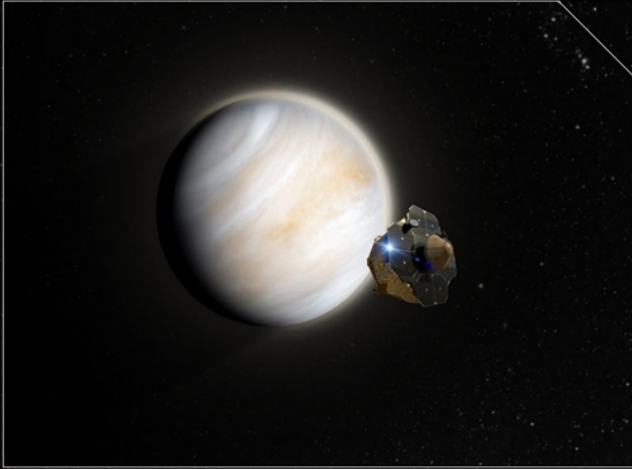
Second flight of the Frontier-S satellite radio which Rocket Lab has an exclusive license with Johns Hopkins University Applied Physics Laboratory to manufacture.



Electron's heaviest lift to date (320 kg).



# CAPSTONE HELPED US PREPARE FOR VENUS AND MARS



## HIGH COMPLEXITY MISSIONS

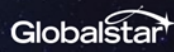
Selected by Varda Space Industries to build four spacecraft, enabling high-value products to be manufactured in zero-gravity and returned to Earth in a re-entry capsule.

LOXSAT selected as a NASA Tipping Point program to support Eta Space's development to further cryogenic fuel depot technologies in orbit.

Entered into research agreement with U.S. Transportation Command to explore using Photon spacecraft to establish on-orbit cargo depots and deliver re-entry capability in support of U.S. Air Force's Rocket Cargo Program.

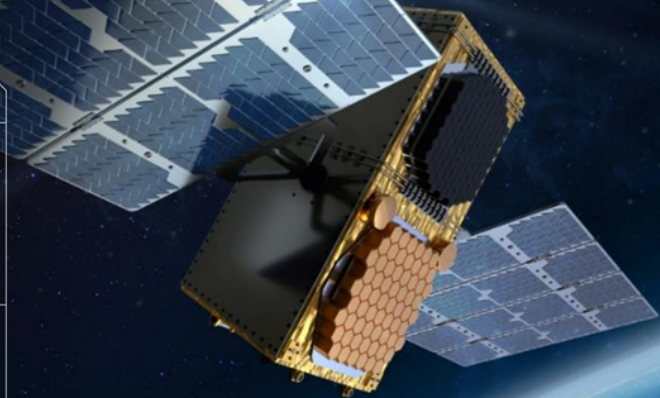


# CONSTELLATIONS



Awarded \$143m contract to design and build seventeen 500 kg spacecraft buses for Globalstar constellation to enable space-based global connectivity.

The contract is a major step toward Rocket Lab's strategy to grow its Space Systems business and provide end-to-end space mission solutions at scale.



# CONSTELLATIONS



The spacecraft design for this premium customer utilizes key internal investments and expertise from recent acquisitions.

- Solar Panels from SolAero - 2.7 kW per satellite.
- Two Rocket Lab C-Band Frontier-C Radios per spacecraft (34 total) - exclusive manufacturing license from APL.
- ASI MAX Flight Software on all 17 spacecraft.
- Rocket Lab internally-built power distribution systems.
- Option to increase value with ASI/Rocket Lab Ground Data System and Operations software to fly the constellation.
- Option to increase value with launch dispensers.
- Platform can serve as an entry point to other communications missions or constellations.





RICHARD  
FRENCH

**Director**  
Business Development  
& Strategy, Space Systems



# SPACE SYSTEMS: CLEAR GROWTH STRATEGIES & DEMONSTRATED SUCCESS

**Deliver operational satellite solutions with discriminating capabilities for high-value customers to maximize spacecraft unit price**

NASA ESCAPADE

NASA LOXSAT

Varda Space Industries

Globalstar/MDA

**Vertically integrate components to reduce satellite cost and expand merchant component supply TAM/SAM**

Organic and inorganic capabilities

New component products releases

Expansion and improvement of existing products lines

**Constellation-class capabilities to capture strategic opportunities**

Constellation-class component manufacturing

Large constellation reaction wheel production contract, heritage constellation production for OneWeb and small geospatial constellations.

Demonstrating constellation satellite integration with Varda and Globalstar/MDA.

**Cross-selling opportunities with new and existing customers builds scale into production, allows building to demand**

BlackSky/LeoStella

Astro Digital

Lockheed Martin

Globalstar/MDA

**Integrated launch and satellite capability provides the lowest total cost of ownership for future expansion into application layer**

# A LEADER IN REACTION WHEELS AND STAR TRACKERS



## STAR TRACKERS & REACTION WHEELS

- > Industry leader for reaction wheel assemblies and star trackers from acquisition of Sinclair Interplanetary in 2020
- > Star trackers: Space heritage with 70+ units on orbit
- > Reaction wheels: Space heritage on 200+ units on orbit
- > Family of reaction wheel products for a range of spacecraft sizes
- > **New large reaction wheel assembly** developed for spacecraft up to ~600 kg, unlocking new component TAM/SAM; will fly on Globalstar/MDA
- > **New high volume reaction wheel (>3,000 units/year) production capability** established for constellations





## EXPANDING SOFTWARE SOLUTIONS



- › Industry-leading flight software, ground software, and mission simulation tools from Advanced Solutions Inc. (ASI) acquisition in October 2021.
- › MAX Flight Software: Off-the-shelf flight software operating on 53 spacecraft for cumulative 160+ years in space.
- › SOLIS: leading spacecraft simulation capability
- › Introducing **new MAX Ground Data System** to unlock new customer opportunities: Operations ground software for spacecraft and constellation missions

**MAX**  
FLIGHT SOFTWARE

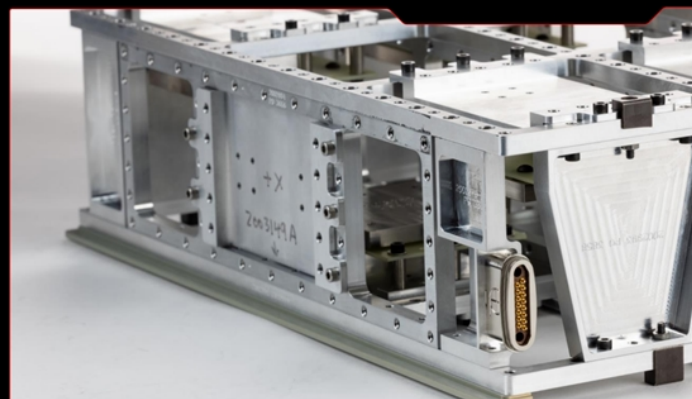
**SOLIS**  
SOLAR

**MAX**  
GROUND DATA SYSTEM

## CONTINUED INVESTMENT IN SEPARATION SYSTEMS



- > Industry-leading launch separation systems from Planetary Systems Corp. (PSC) acquisition in December 2021.
- > Heritage Canisterized Satellite Dispensers and Motorized Lightband separation systems family of products for satellites up to 1,800lb payloads, proven on hundreds of launches with 100% mission success.
- > **New Advanced Lightband separation system:** developed to increase stiffness, reduce costs, and reduce lead time. Flight heritage on recent launches with 100% mission success.

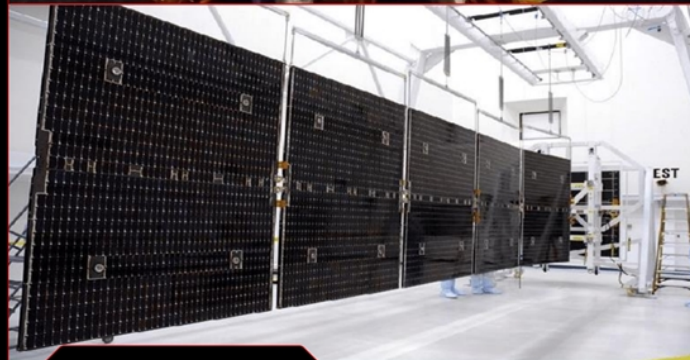


## EXPANDING SOLAR AND STRUCTURES SOLUTIONS

# SOLAERO

BY ROCKET LAB

- > High-volume solar power production capability from acquisition of SolAero Technologies Inc. in January 2022
- > Leveraging in-house composite structural panel manufacturing, introducing a **new structures business for satellites and launch vehicles**, increasing TAM/SAM; also flying on Globalstar/MDA
- > **New deployable solar array solution** being introduced to customers desiring a turn-key solution, increasing TAM/SAM



## HIGHEST EFFICIENCY SPACE SOLAR CELL TECHNOLOGY IN THE WORLD

Patented Inverted MetaMorphic (IMM) solar cell technology— only at Rocket Lab

- **Single highest efficiency cell in the world** at 33.3%, with potential for even higher performance than any other competing cell technology, enabling new missions
  - Enabled the NASA Mars Helicopter
  - Enabled an important Maxar mission
  - Only technology that meets the Space Force roadmap
- More than 40% lighter than competing solar cells, making satellites more cost effective to launch and improving satellite agility
- **Actively investing in IMM capacity expansion** to meet increasing demand and bring high production volume to market

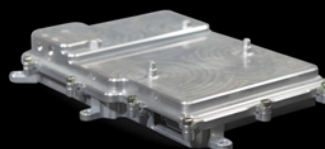


## EXPANDING RADIO PRODUCTS

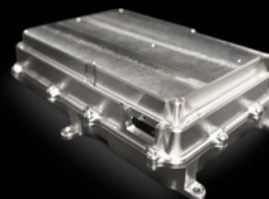
Building on partnerships and organic manufacturing capabilities, Rocket Lab has brought new products to market and continues to add more.

### SATELLITE RADIOS

- › Exclusive license agreement with the Johns Hopkins University Applied Physics Laboratory to manufacture Frontier radios for satellites.
- › Fronter-S S-band radio announced in November 2021; first flight model delivery to customer expected in Q3 2022.
- › Expanding product line with **new Fronter-X X-band radio**; will fly on NASA's ESCAPEDE Mars mission.
- › L-band and C-band variants in development.



FRONTIER-S



FRONTIER-X

## RECORD YEAR FOR SPACE SYSTEMS

# 66%

of Rocket Lab's total Q2'2022 revenue was from space systems, creating cash flow stability and diversity and off-setting the natural lumpiness of launch revenue.

# ALL

Component hardware companies acquired by Rocket Lab have had record sales and production rates for 2022 YTD.

# \$396.4M

Total space systems backlog as of Q2, 2022.







## ROCKET LAB IS NOW POSITIONED TO CAPITALIZE ON THE LARGEST SPACE TAM – SPACE APPLICATIONS.

With our own satellites  
and launch capability,  
we can deliver  
services from space.

Active discussions  
with our customers  
on what these will be  
are underway.





NEUTRON

SECTION

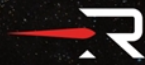
04

NEW ROCKET  
DEVELOPMENT

MEGA CONSTELLATION LAUNCHER

IT'S HAPPENING

REAL HARDWARE  
IN MANUFACTURE





NEUTRON IS  
COMING TO LIFE



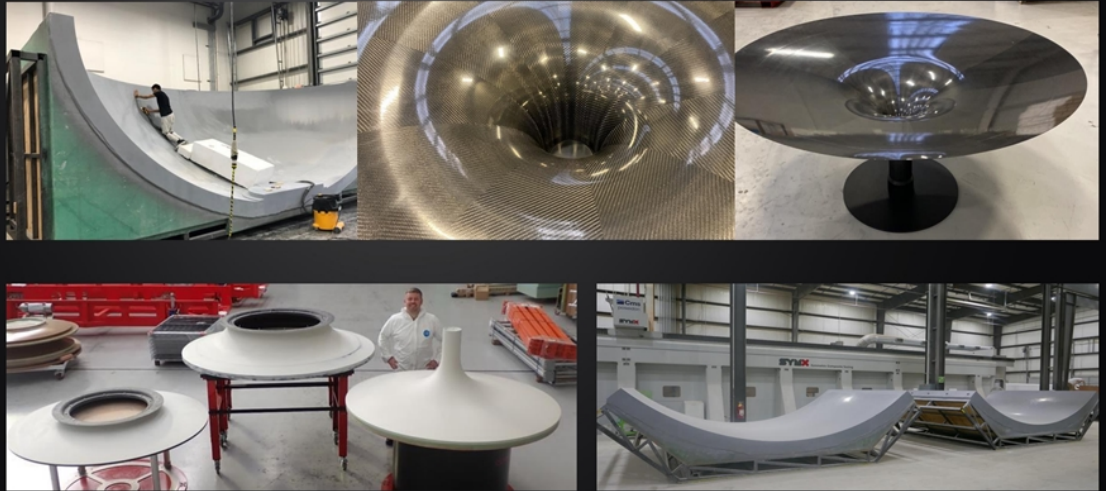


# FIRST NEUTRON TANKS

## Hardest part complete

Tooling and moulds are the complex, time-consuming part requiring extensive design work and refinement.

With these now done, the first hardware has been delivered with more in production at pace.



# WE'RE BUILDING IT

We're experts at 3D-printing rocket engines and we know how to scale.

Full scale parts come through our production lines using in-house 3D-printing machines.

We own some of the largest 3D-printers in the world.





# A DESIGN LED BY MARKET DEMAND

PAYLOAD: 15T (Expendable), 13T (Reusable), 8T (Return to Pad).

HEIGHT: 42.8 m / 140.4 ft.

FAIRING DIAMETER: 5 m / 16.4 ft.

MISSION PROFILES: LEO, MEO, GEO, Interplanetary.

REUSABILITY: First Stage And Fairing.

ENGINE TYPE: LOX/Methane.

NUMBER OF ENGINES: 9 First Stage/ 1 Second Stage.

STRUCTURE: Carbon Composite.



# ADVANCED FAIRING DESIGN

A slightly less hungry hippo.

## **Captive Fairing:**

Fairing remains attached to the first stage, opening to deploy the second stage and payload within.

## **Enables rapid re-launch:**

Eliminates the high cost of expending or capturing and reusing fairings.

## **Iterated Design:**

From four fairing panels to two. Reduces the amount of angle the fairing must open and enables more robust fairing panels.



# FIRST STAGE MAJOR DESIGN COMPLETE

Built for rapid reusability.

**Tapered profile:** First stage has a tapered profile and aerodynamic control surfaces, including canards and landing legs that act as rear-lifting surfaces.

**Optimized ballistic coefficient:** Allows first stage to glide back to Earth for landing, reducing aerothermal load experienced by modern re-entry boosters.

42.8  
meters  
tall

7  
meter  
diameter

5  
meter  
fairing

9  
Archimedes  
engines



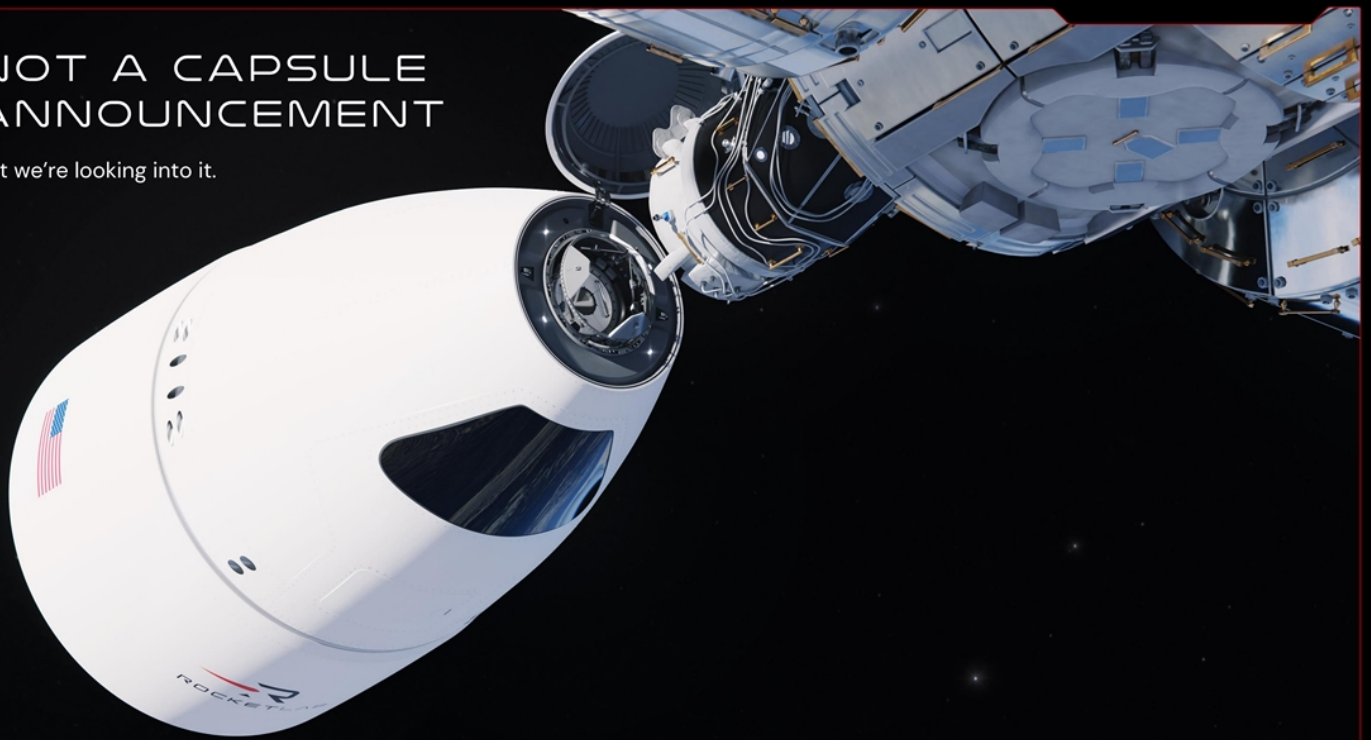
# NOT A CAPSULE ANNOUNCEMENT

But we're looking into it.



# NOT A CAPSULE ANNOUNCEMENT

But we're looking into it.



## SECOND STAGE MAJOR DESIGN COMPLETE

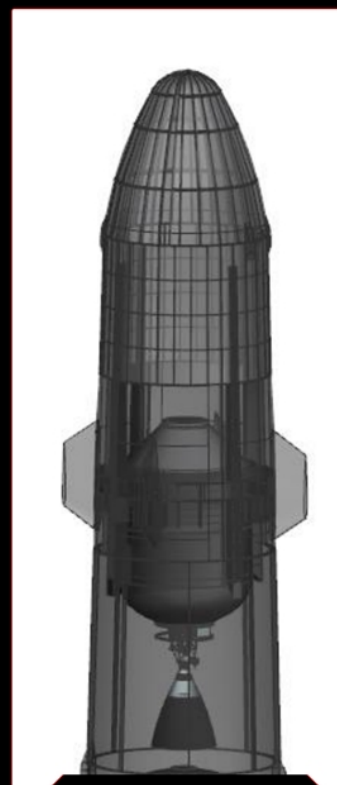
**High performance:** Designed to maximize mass-to-orbit capability, orbital insertion accuracy, and performance for complex payload deployments.

**Suspended second stage:** Provides easily accessible and condensed mounting location for avionics hardware, aerodynamic control devices, and fluids lines. Also minimizes the requirement for the second stage to withstand the external launch environment.

**11.5**  
meters  
tall

**1**  
Archimedes  
engine

**15**  
tonne payload  
capacity





# ROCKET BUILDING ROBOTS

Automated Fiber Placement: Optimized for performance, speed and cost.

**Advanced composite manufacturing technique:** Used to fabricate complex, lightweight vehicle structures with superior strength qualities.

**Outperforms metallics on structural performance and manufacturing cost:** Complete tanks manufactured in days with minimal human labor and less material and waste than metallics.

**Proven technology:** Applying reliable tech used by thousands of aircraft to space.

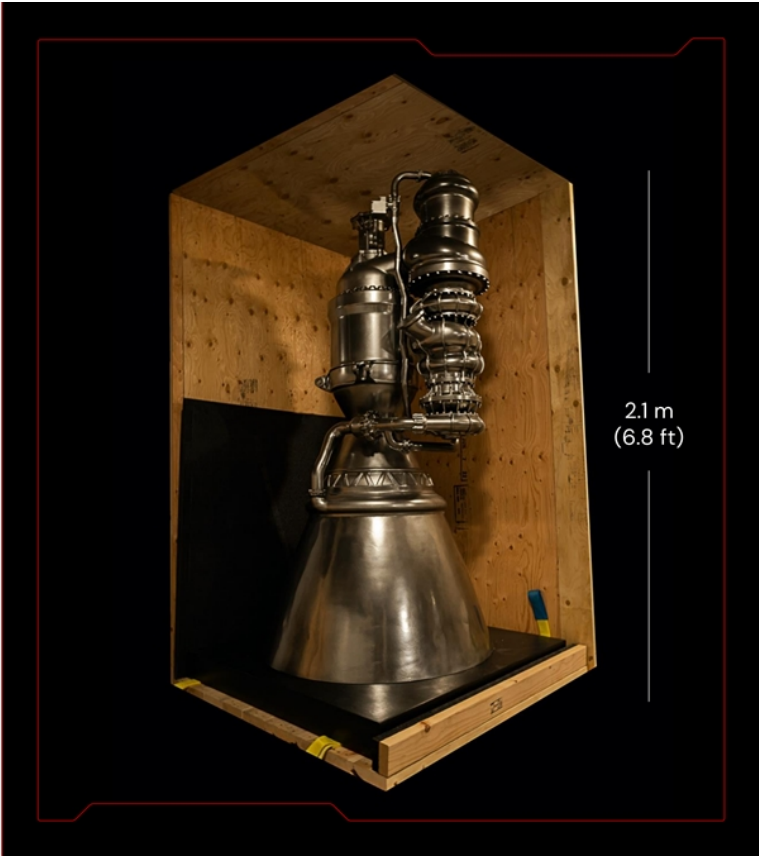
**American-made:** Built at the launch site in Virginia.



# ARCHIMEDES ENGINE UPDATE

Breathing first fire this year.

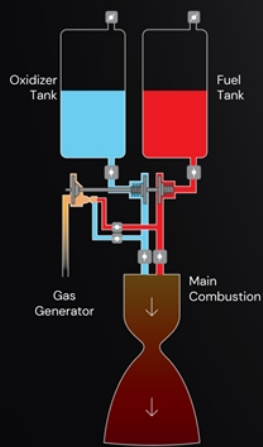
Property	Value
STAGE 1 ENGINE	
Quantity	9
Min. Throttle	50%
Sea Level Thrust	165 klbf
Vacuum ISP	329 s
STAGE 2 ENGINE	
Quantity	1
Min. Throttle	50%
Vacuum Thrust	200 klbf
Vacuum ISP	367 s



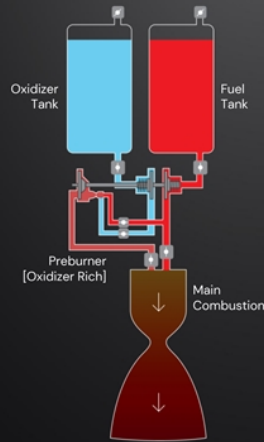
# THE ARCHIMEDES ENGINE

Simplicity where it matters.

## Open Cycle Rocket Engine



## Oxidizer Rich Closed Cycle



Provides higher specific impulse than gas generator, open expander, or tap-off cycles, without the thrust limits or added complexity.

Gas generator cycles are limited in capability and not suited to the deep throttling required for multiple re-lights in orbit, and for landing the first stage.

ORSC engines operate at relatively low temperatures and pressures, eliminating the stress and thermal strain experienced by gas generator engines. This improves engine life and reusability, while leaving headroom to increase performance.

### Liquid Oxygen and Methane:

Provides higher specific impulse than RP-1 kerosene for improved stage performance without the dramatic stage size increase required for low density liquid hydrogen.



SHAUN  
D'MELLO

**Vice President**  
Launch Systems





# SECURED ENGINE TEST SITE

Exclusive use of large-scale national asset.

Selected NASA Stennis Space Centre's A-3 Test Complex to test Archimedes engines.

Exclusive use of land within a 1 million square foot area for 10 years, with option for additional 10 years.

Access to capital investment incentive from the Mississippi Development Authority to further develop the facilities and infrastructure at Stennis for Neutron.

Leveraging existing infrastructure and site-wide Services, enabling rapid stand up of our test facility in the order of months, not years.





# NEUTRON FACTORY

Concrete poured in Wallops Island, Virginia.



Standing up the first Neutron Production Complex building before the end of the year.



Expecting to build our first Stage 1 tank above this concrete.



The site also serves as a development area for tank testing, enabling rapid build & test iteration.





# DEVELOPMENT PARTNERSHIPS WITH KEY U.S. GOVT CUSTOMERS



## U.S. SPACE FORCE

Awarded a \$24.35 million contract with the U.S. Space Force's Space Systems Command for development of Neutron's upper stage.

Provides a strong foundation for on-ramping to the National Security Space Launch (NSSL) program, which launches the United States' most critical missions.

Key milestones delivered and tracking well for period of performance so far, incl. successful concept design review and systems requirement review.



## U.S. TRANSPORTATION COMMAND

Signed a Cooperative Research and Development Agreement (CRADA) with the U.S. Transportation Command (USTRANSCOM) to explore the possibility of using Neutron for point-to-point cargo delivery around the world.

Part of the Air Force's Rocket Cargo Vanguard program, designed to advance emerging systems and concepts through prototyping and experimentation to deliver remarkable new capabilities.

# NEUTRON PROGRAM ON TRACK

From program start to hardware in less than 18 months.

**Not starting from scratch – new developments  
leverage rich flight proven heritage.**

Critical technologies and capability scale well from  
Electron to Neutron.

- Avionics GNC ✓
- Software ✓
- Communications ✓
- Command & Control ✓
- Manufacturing Systems & Processes ✓
- Integrated Testing & Operations ✓

Secured large capital infrastructure.

- Manufacturing, test and launch infrastructure ✓

## UPCOMING NEUTRON MAJOR MILESTONES INTO END OF 2023

Engine  
Pre-burner  
Testing

Neutron  
Factory  
Buildings

Construction  
Underway at  
Launch  
Complex 3

Stage 1 and  
Stage 2  
Test Sites

Stage 1 and  
Stage 2 Tanks,  
Primary  
Structures  
Built

Stennis  
Engine  
Test Site

All-up  
Engine  
Testing

Avionics  
Hardware  
and  
Software

Hardware in  
the loop facility  
operational



SECTION

05

FINANCIAL





ADAM  
SPICE

**Chief Financial  
Officer**



# BUILDING MOMENTUM ACROSS MULTIPLE GROWTH VECTORS

## WHAT WE SAID WE'D DO

1. **Execute on Small Launch: Electron Leadership and Heritage**
  - > Capitalize on leadership position in dedicated small satellite launch.
2. **Expand into Larger Launch: Neutron Launch SAM Expansion**
  - > Develop a constellation builder to increase addressable launch services market.
3. **Deliver End-to-End Space Solutions**
  - > Expand addressable market for spacecraft and component solutions, enabling end-to-end space solutions and pathfinding for large constellation build and launch opportunities.
  - > Increase mission heritage on Rocket Lab spacecraft and components to enable access to higher value missions and constellation build opportunities.

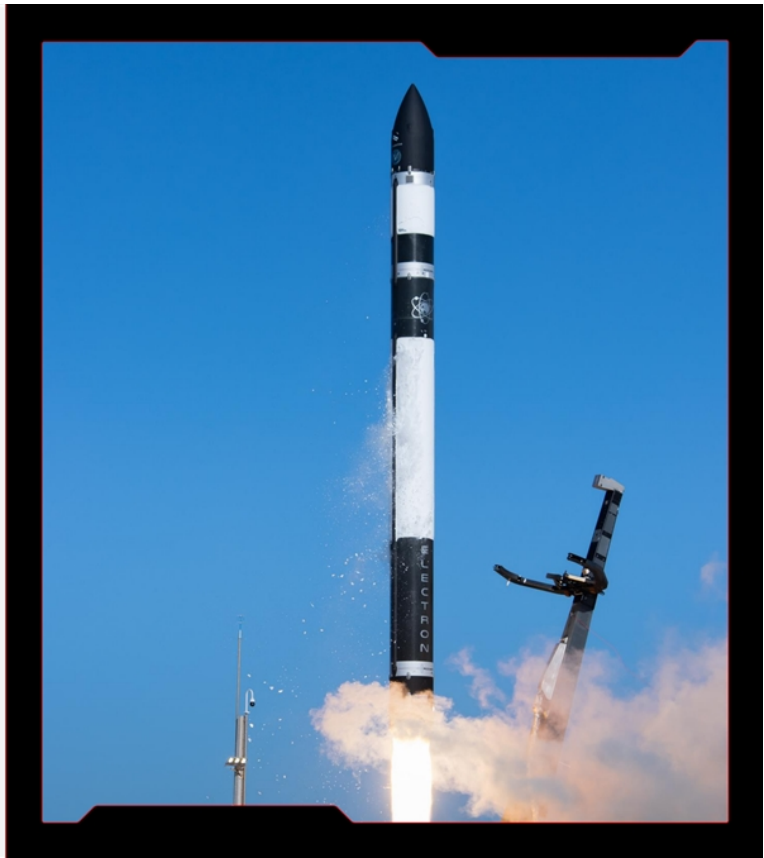


# BUILDING MOMENTUM ACROSS MULTIPLE GROWTH VECTORS

## WHAT WE'VE DONE

### Executed on Small Launch:

- > Made it look easy. Launch is hard, and gets harder after your first successful launch.
- > Dramatically extended leadership in small dedicated launch with increased cadence, improved payload performance, and more RKLB launches than all other small launch providers combined, and 7x more successful launches than nearest competitor.
- > Expanded competitive moat with progress on booster recovery to drive down cost, increase margins, and enable increased launch cadence.



# BUILDING MOMENTUM ACROSS MULTIPLE GROWTH VECTORS

## WHAT WE'VE DONE

### More Launch: we're building a larger rocket

- > Secured \$45M in State of Virginia and local incentives towards manufacturing facility and pad infrastructure, in addition to a \$24M contract with the U.S. Space Force's Space Systems Command for development of Neutron's upper stage.
- > Leveraging Electron core technology heritage and learnings, seasoned team and scaled operational facilities, realizing human and capital efficiencies to enhance long-term return for investors
- > Progress made towards securing initial committed constellation launch services customer on Neutron.

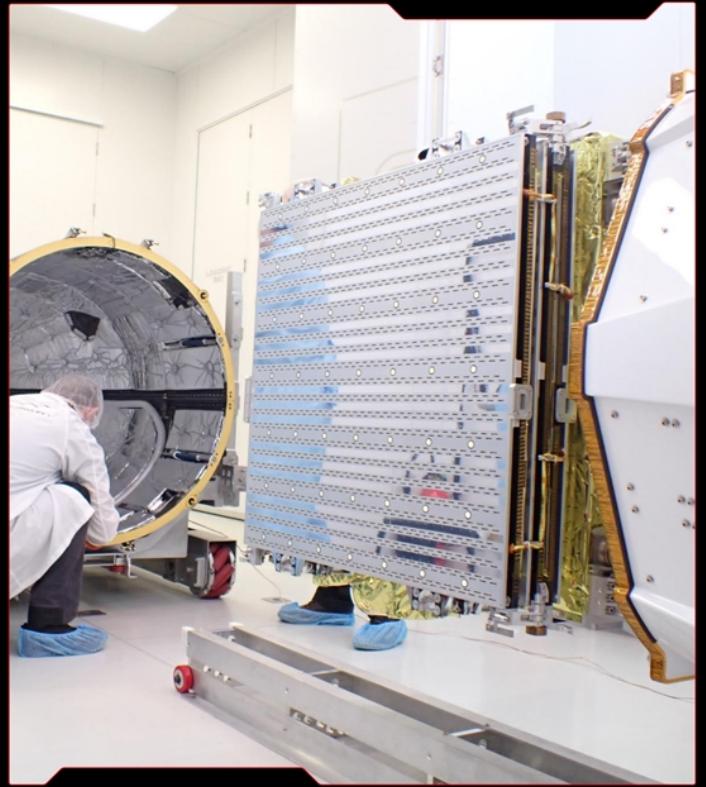


# BUILDING MOMENTUM ACROSS MULTIPLE GROWTH VECTORS

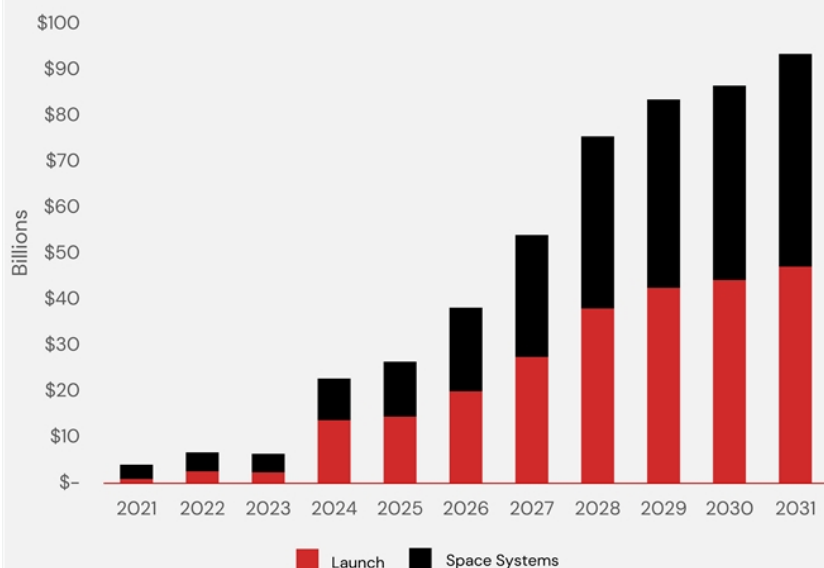
## WHAT WE'VE DONE

### End-to-End Space Solutions:

- > Organic development and acquisition have expanded our addressable market in spacecraft and component solutions.
- > Secured first constellation contract valued at \$143M with MDA for Globalstar.
- > 1,700+ spacecraft with Rocket Lab technology on-orbit heritage and 220+ missions in development.
- > Grown Space Systems backlog to \$396M across range of increasingly diverse products, services and customers.



## EXPANSION OF ADDRESSABLE MARKET (LAUNCH & SPACE SYSTEMS)



*\*Market Research Units Source: Northern Sky Research, Global Satellite Manufacturing and Launch Markets, 12<sup>th</sup> Edition and management estimates for ASP.*

*\*Addressable market calculation reflects various penetration rates into each NSR-defined market segment and excludes Starlink and China*

### 2021

#### SAM consisted of

- Small responsive launch with Electron.
- Satellite Manufacturing with Photon.
- Satellite components from Sinclair Interplanetary such as reaction wheels and star trackers.

### 2022

#### SAM has grown to include

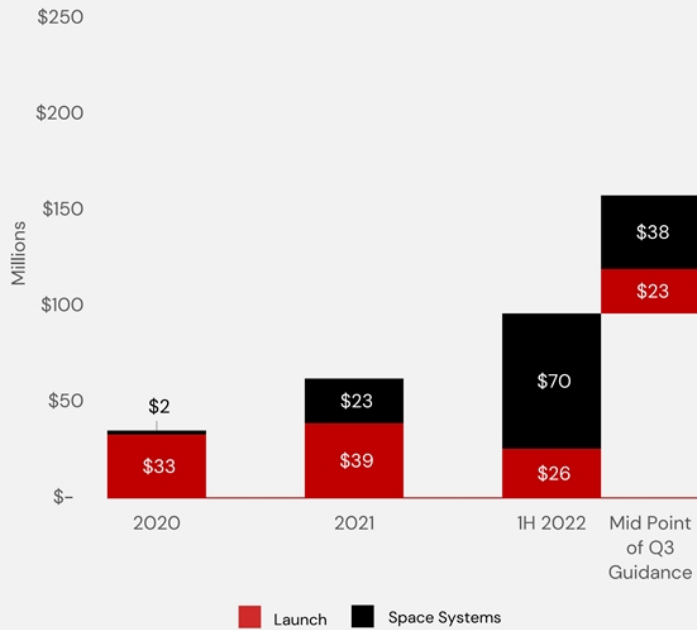
- Additional satellite components from strategic acquisitions and partnerships such as separation systems, solar solutions and radios.
- Portfolio now includes space software.

### FUTURE

#### SAM evolution targeted to include

- Neutron rocket tailored for constellation launches, human space flights, and I.S.S. crew resupply.
- Continually increase space system offerings through organic & inorganic R&D.

## INCREASING REVENUE SCALE AND DIVERSITY



Significant scaling across both launch and space systems supports aggressive TAM expanding investments and garner larger platform opportunities such as the recently awarded MDA/Globalstar 17 satellite constellation.

More than just launch – we are delivering meaningful revenue and customer diversification and developing capabilities towards our vision of being an end-to-end space company

- 66% of Q2'2022 revenue derived from Space Systems products and services.
- Revenue generating customers increased from 29 to 87, or by 3X, YTD 2022 versus 2020.



# KEYS TO CREATING OPERATING LEVERAGE

ESTABLISHING A NEW BUSINESS  
MODEL IN NEW SPACE



**Cost of Revenue:** increases in launch vehicle build rate enable greater overhead absorption and direct labor efficiencies. Along with BOM reductions, enables long-term target model of 45% to 50% of revenue.

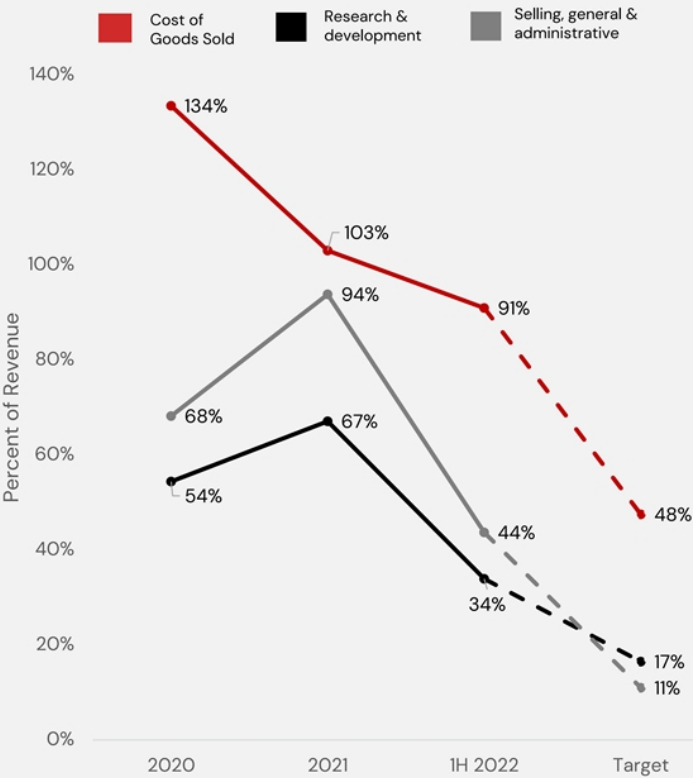


**Research and Development:** disciplined and targeted R&D investment on TAM expanding projects across Neutron and Space Systems, with long-term target model of 15% to 18% of revenue.



**Sales, General and Administrative:** leverage legacy investment and standing business infrastructure as we scale, with long-term target of 10% to 12% of revenue.

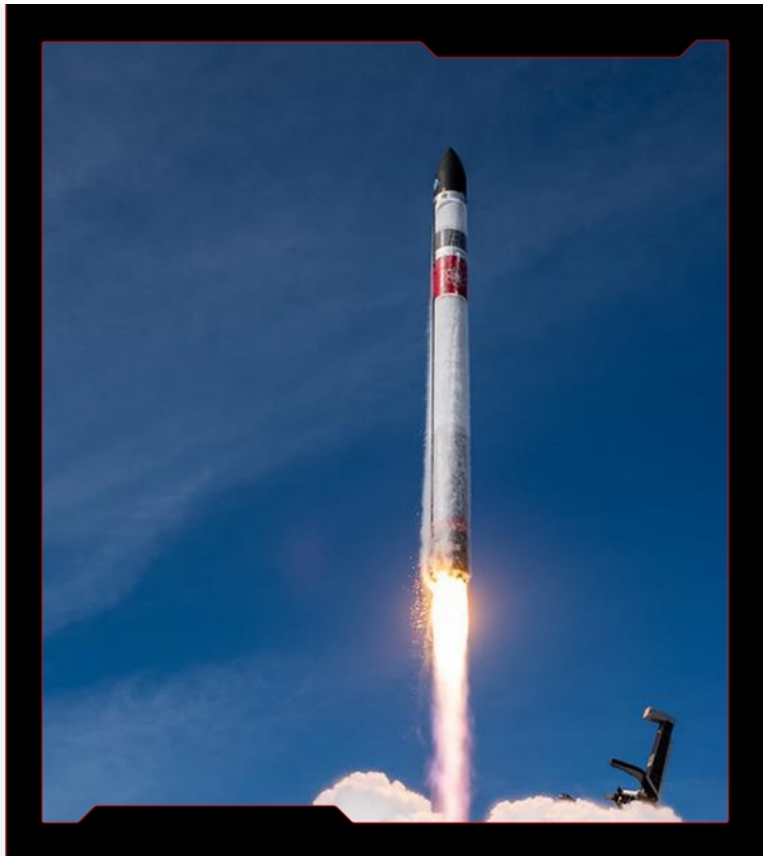
## PATH TO TARGET MODEL



# FOCUS ON PROFITABILITY

## ELECTRON

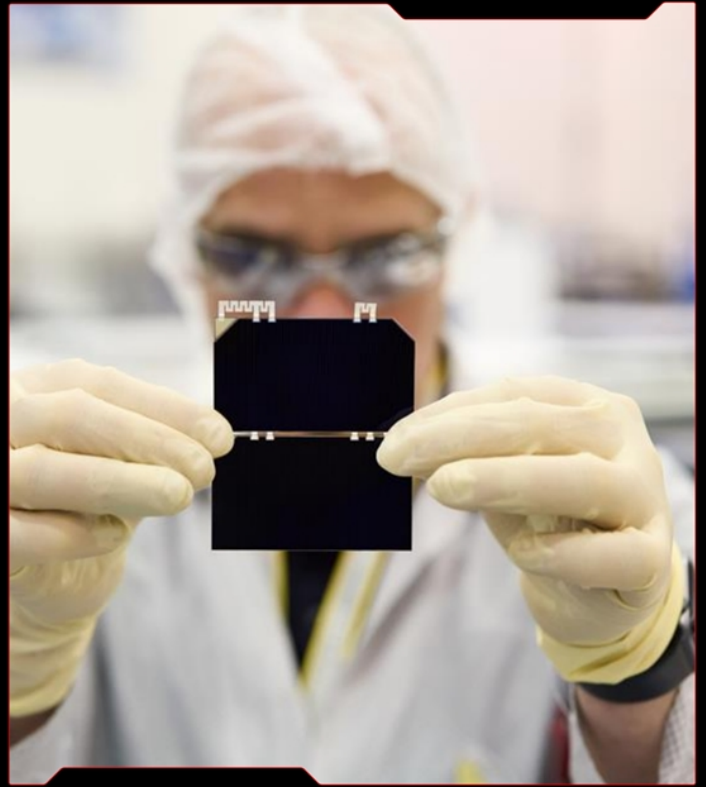
- > **30 launches and Stage 1 Recovery Progress:** positions us to turn the crank on profitability
  - > **Volume Driven Savings:** increase launch cadence from 12 to 24 missions per year
  - > **Production:** overhead pool constrained and amortized over greater units = 25% savings
  - > **Launch Ops:** absorption of fixed launch range overhead costs over greater units, net of expanding LC-2 operations = 8% savings
- > **Stage 1 Booster Recovery Savings:** incremental impact of returning a booster to the pad. Estimated impacted of a recovered Stage 1 enabled mission (net of helicopter and Stage 1 variable refurbishment costs) represents a 61% cost reduction versus current expendable at 12 missions per year
- > **Aggregate impact:** increasing annual launch cadence to 24 at mix of 50/50 Recovery versus expendable missions yields weighted average savings of 42%



# FOCUS ON PROFITABILITY

## SPACE SYSTEMS

- > Gross margins across space systems components are at or above target with the exception of SolAero
  - > SolAero: from ~10% to 30% gross margins by Q1 '2024
    - > Introduction of highest efficiency IMM technology
    - > Yield enhancements, capacity utilization, and overhead absorption
    - > Burn down \$150M legacy backlog at time acquisition
- > Portfolio breadth a key differentiator and enabler of our end-to-end space systems vision
- > Customers placing high value on schedule certainty and platform level optimization



# LIQUIDITY

## STRONG CASH POSITION

- **Raised \$777 million of gross proceeds from business combination and PIPE investment**
- **Strategically deployed approximately \$180M, before transaction adjustments, into growing our vertically integrated Space System business**
  - > ASI – October 2021
  - > PSC – November 2021
  - > SolAero – January 2022
- **Making disciplined investments in addressable market expanding research and development and capital expenditures**
  - > Making the investments needed to fulfill our existing commitments and future aspirations
- **\$546.6 million of cash and cash equivalents and restricted cash as of June 30, 2022**
  - > We have the necessary resources to do what we said we will do

Q&A

