

### SMALL LAUNCH IS SOLVED



# THE GLOBAL LEADER IN SMALL LAUNCH

- Founded in 2006 by Peter Beck
- US company, \$288M raised, valued at over \$1B
- 11 launches, 48 satellites, 100% mission success
- HQ in Long Beach, CA with global infrastructure
- 2 launch sites, 3 launch pads, including the only private orbital launch site in the world
- First 3D printed rocket engine
- First electric pump cycle rocket engine
- First fully carbon composite vehicle
- First NASA Cat 1 certified small launch vehicle



### IOVERALL

LENGTH

17M

DIAMETER (MAX)

1.ZM

STAGES

2 + KICK STAGE

VEHICLE MASS (LIFTOFF)

13,000KG

MATERIAL/STRUCTURE

CARBON FIBER COMPOSITE/MONOCOQUE

PROPELLANT

LOX/KEROSENE

### I PAYLOAD

NOMINAL PAYLOAD

150KG TO 550

PAYLOAD DIAMETER 1.08M

1100101

PAYLOAD HEIGHT

1.91M

FAIRING SEP SYSTEM

PNEUMATIC UNLOCKING, SPRINGS

### ISTAGE 2

PROPULSION

1X RUTHERFORD VACUUM ENGINES

THRUST

5500 LBF VACUUM

SP

343 SEC

### **IINTERSTAGE**

SEPARATION SYSTEM

PNEUMATIC PUSHER

### ISTAGE 1

PROPULSION

9X RUTHERFORD SEA LEVEL ENGINES

THRUST

5500 LBF SEA LEVEL (PER ENGINE)

ISP

311 SEC



9X RUTHERFORD SEA LEVEL ENGINES

# GLOBAL INFRASTRUCTURE



- Sinclair Interplanetary By Rocket Lab
  - LAUNCH COMPLEX 2

Rocket Lab HQ Long Beach







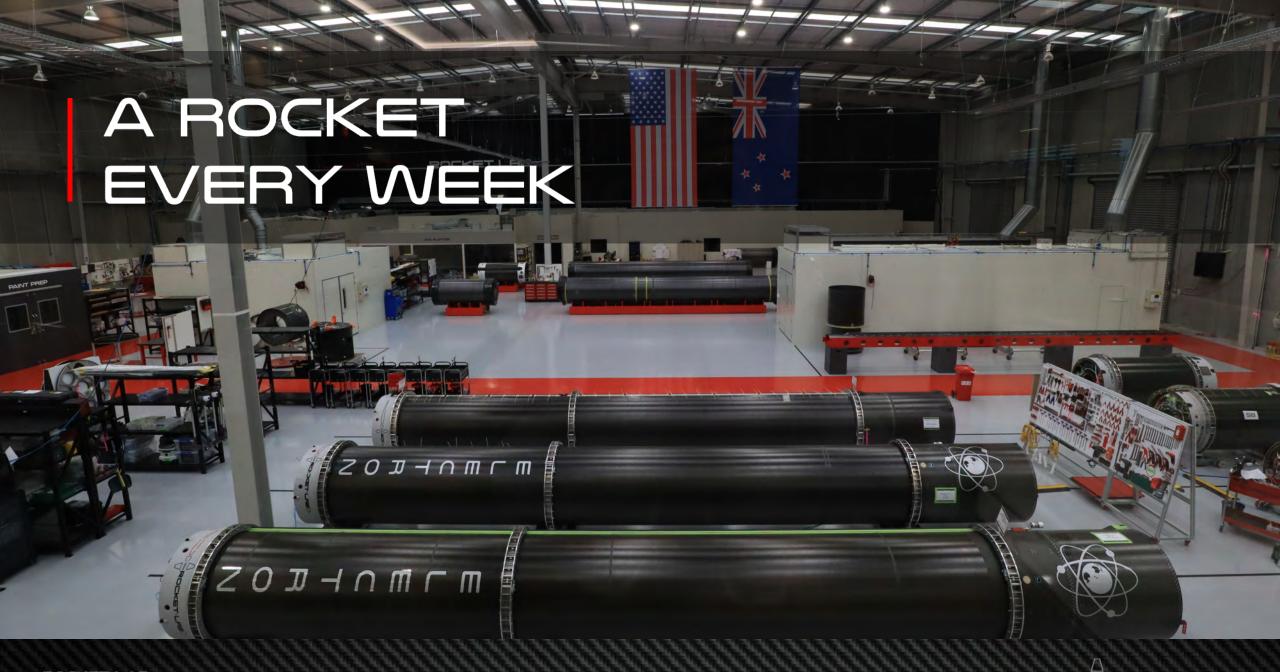


AUCKLAND PRODUCTION COMPLEX

LAUNCH COMPLEX 1







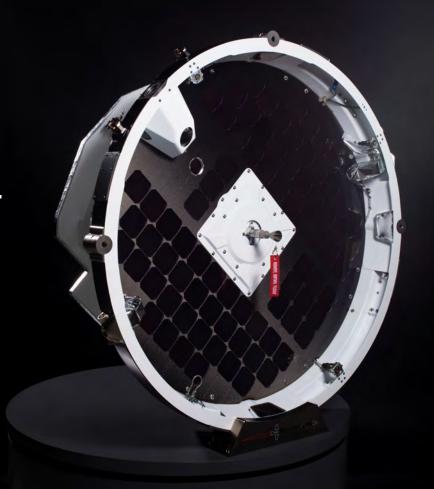
### SMALL LAUNCH IS SOLVED



### NOW WE'RE SOLVING SATELLITES

Focus on your payload, we do the rest.

- Don't worry about the spacecraft.
- Focus on the thing that provides revenue or capability.



# IMAGINE IF YOU HAD TO BUILD A CELL PHONE EVERY TIME YOU WANTED TO CREATE AN APP?

This is where we are today in space.





# THE COMPLETE MISSION SOLUTION









KSAT PARTNERSHIP
ENABLES GLOBAL
GROUND STATION
COVERAGE





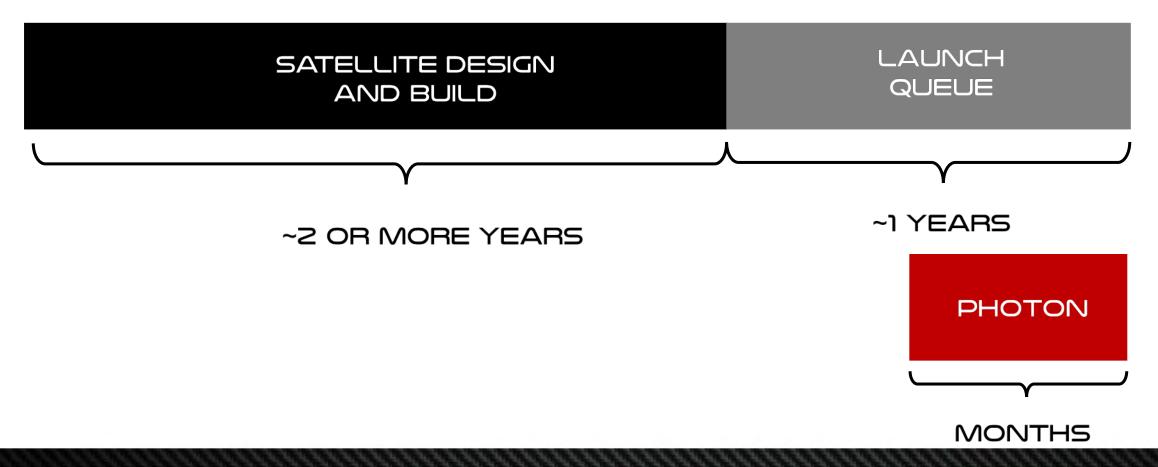
### PHOTON

"Photon" noun': "A collection of components configured in such a way to produce a satellite that also shares some commonality with its launch system."

### PHOTON

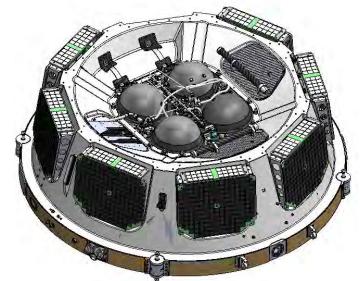
"**Photon**" noun': "a force carrier emitted by an Electron in a higher than normal orbit."

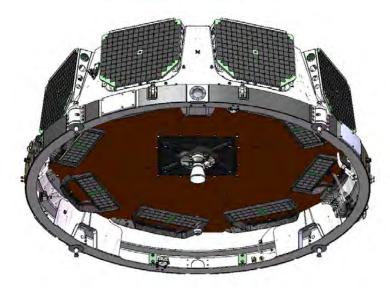
# STREAMLINING THE PATH TO ORBIT



### GET MORE, SPEND LESS, GET THERE FASTER

- Launch + satellite + ground + operations as a bundled service
- Based on Rocket Lab's heritage Kick Stage, leveraging significant orbital flight heritage.
- Adds high power generation, high-accuracy attitude determination and control, radiation-tolerant avionics, and high-speed downlink.
- Configured for your mission
- LEO and Beyond LEO capabilities
- Versatile platform for Earth observation/remote sensing, telecommunications, science, research, technology demonstrations, hosted payloads







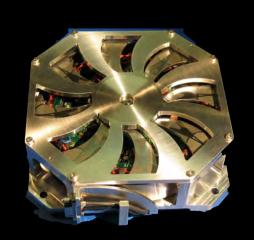
### NEW SUBSYSTEMS IN PRODUCTION

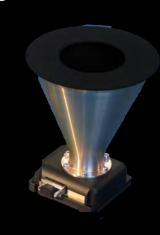
- ATTITUDE CONTROL SYSTEMS
- TORQUE RODS
- POWER MANAGEMENT SYSTEMS
- FLIGHT COMPUTERS
- REACTION CONTROL SYSTEMS
- IN-SPACE PRIMARY PROPULSION
- MOTOR CONTROLLERS
- REACTION WHEELS (SINCLAIR)
- STAR TRACKERS (SINCLAIR)



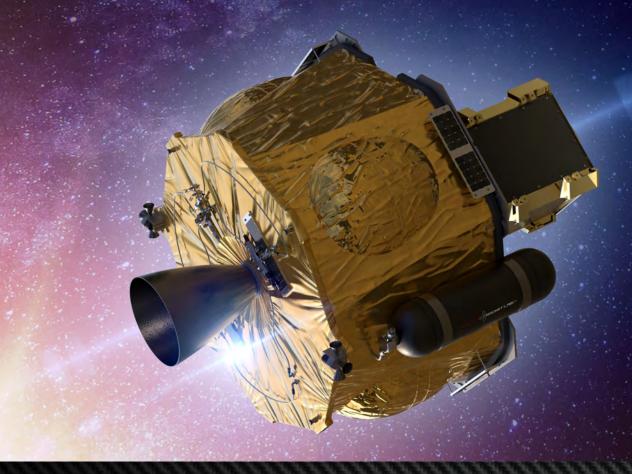




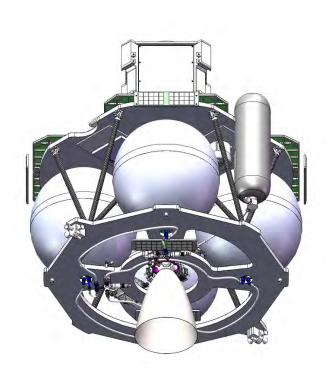


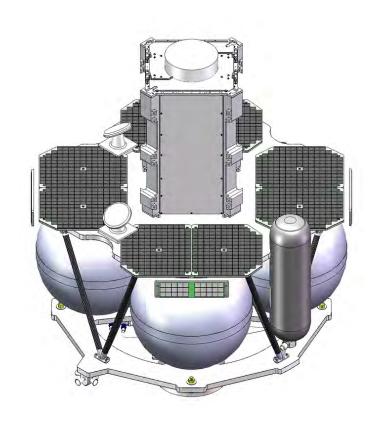


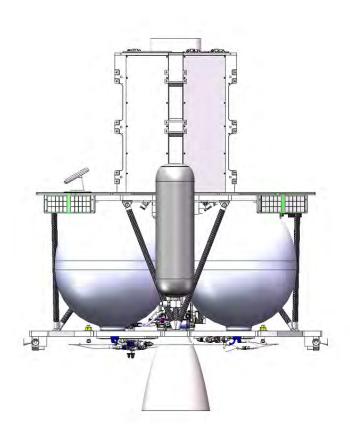
## PHOTON IS TAKING NASA TO THE MOON



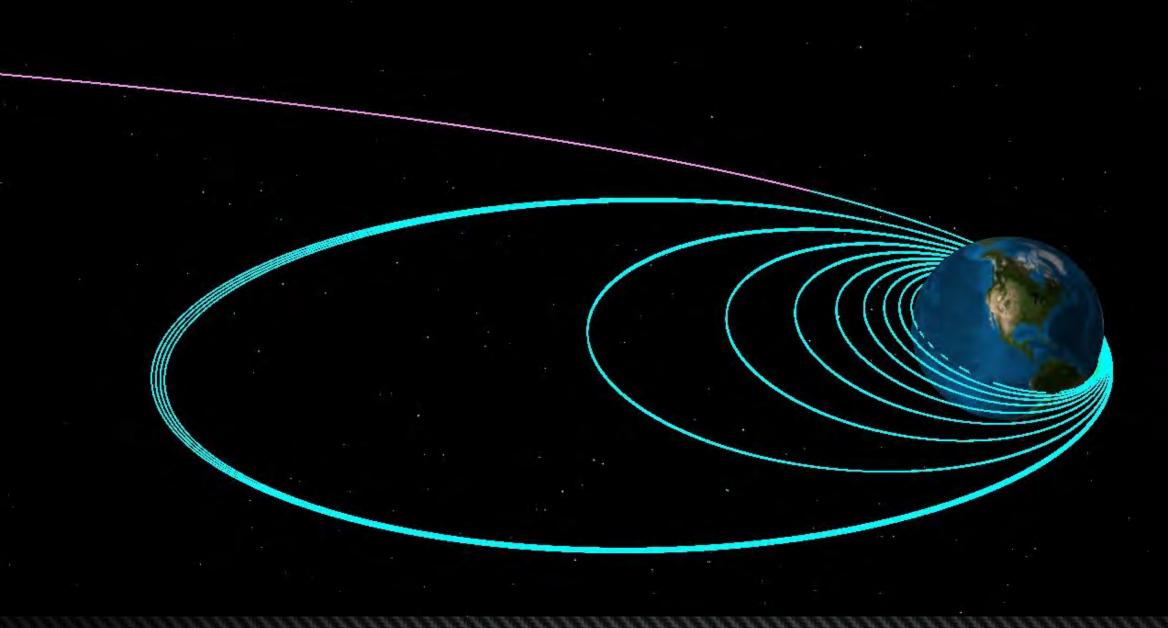
### PHOTON LUNAR

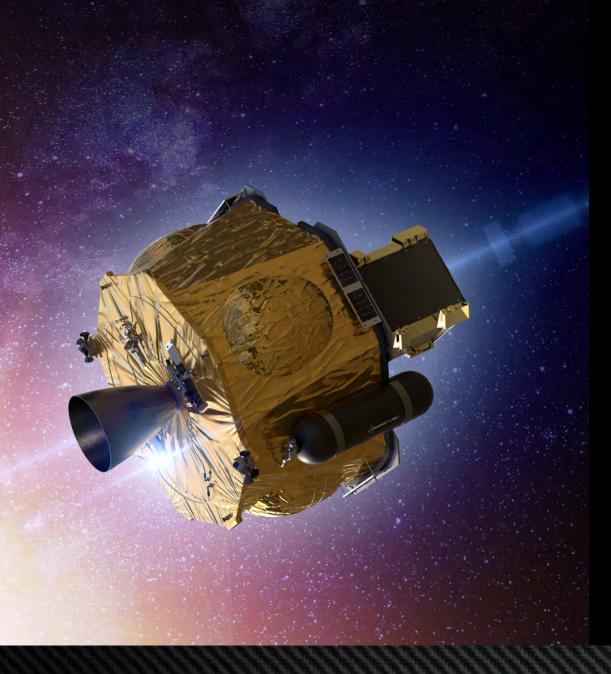


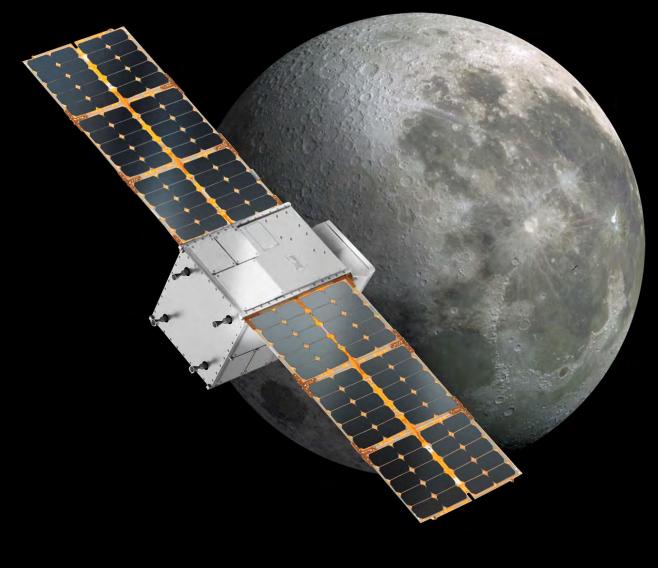




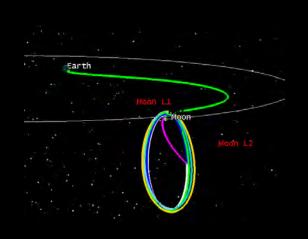


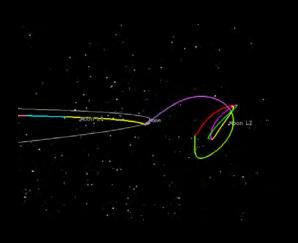


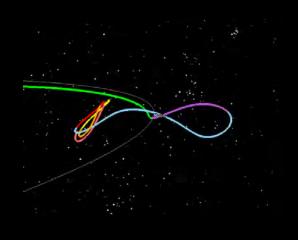




## ENABLING CISLUNAR







Lunar NRHO

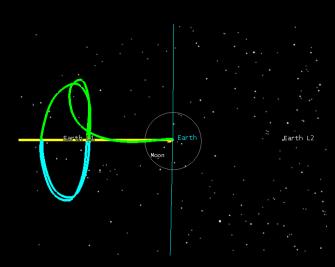
Low Lunar Orbit

Earth-Moon L2

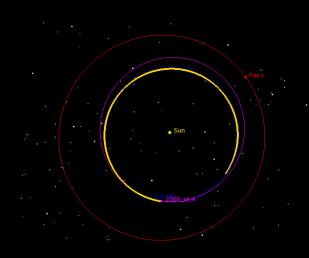
Earth-Moon L1



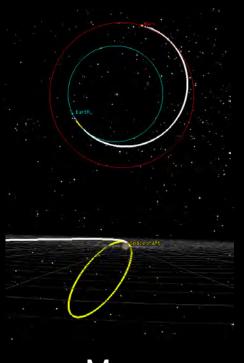
## DEMOCRATIZING DEEP SPACE



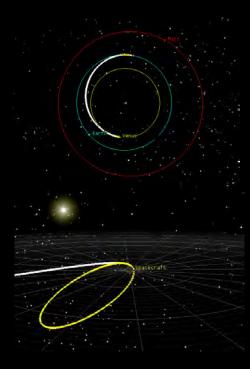
Earth-Sun L1



Near Earth Objects
Oort Cloud comets



Mars



Venus





