



SOLIDEON

Advancing Manufacturing.

Advancing Humanity.



SOLIDEON



Oluseun Taiwo
CEO

- Designed, Built, and Launched World's 1st 3D Printed Rocket.



- Employee #15 at Rocket Labs USA



- Built Virgin Orbit's first production line with 3D printing capability.

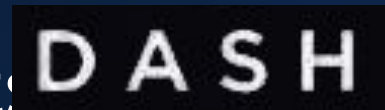


Joel Ifill
CTO

- 15+ years as Welding engineer with Aerojet Bettis Atomic Power Laboratory and Senior Aerospace

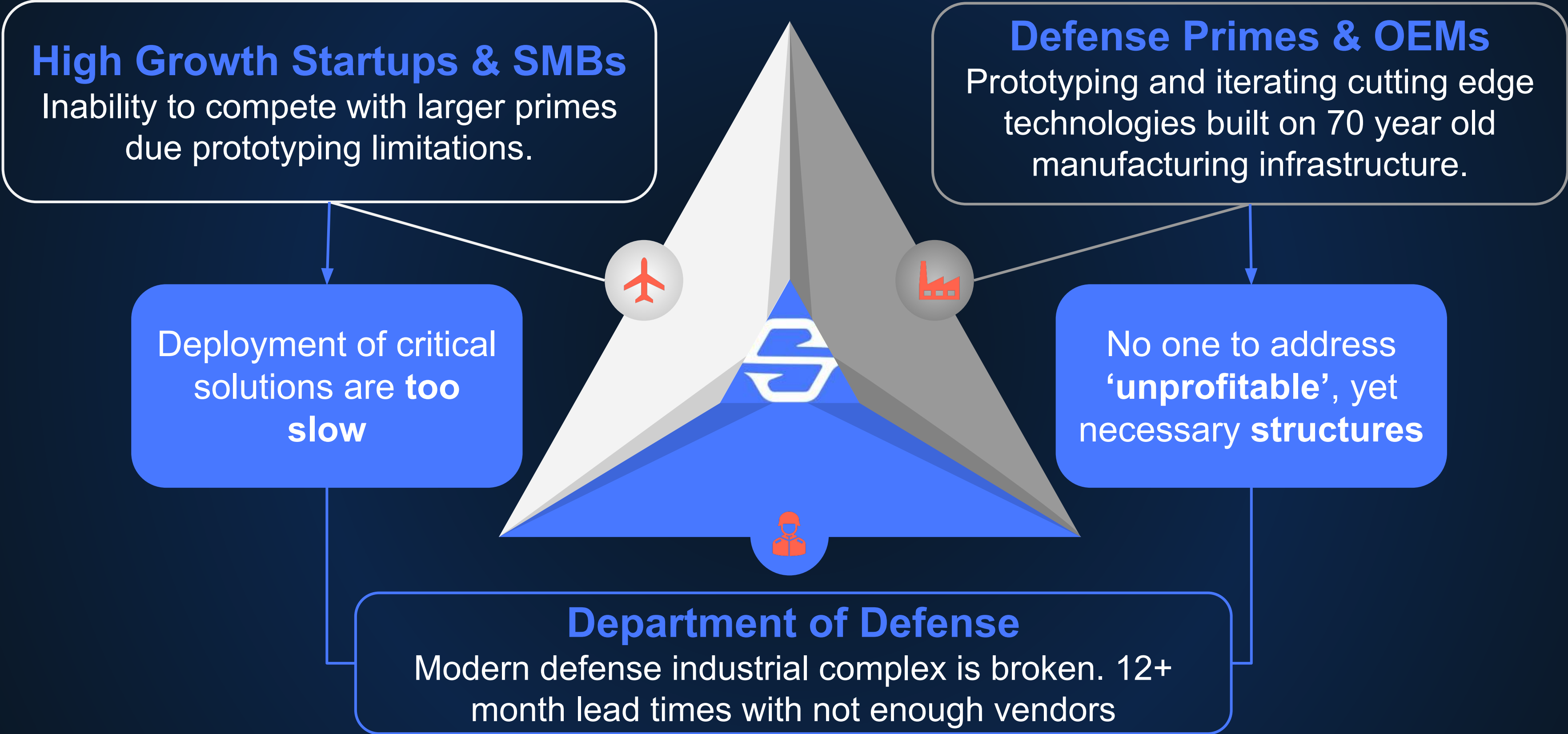


- Former Founder and CEO of DASH Systems, an aerospace startup that raised \$15m and exited

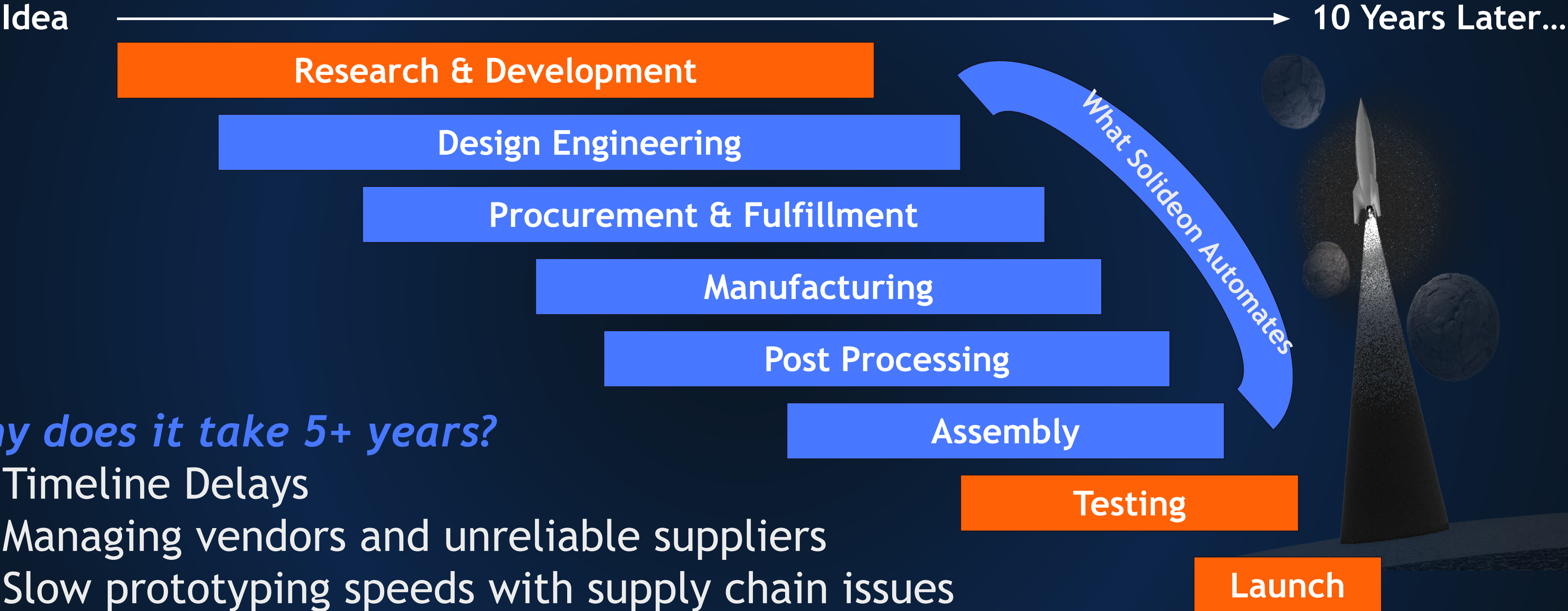


- 5+ patents patents mechanical, aero and welding engineering

Problem



Traditional Manufacturing Timelines



Why does it take 5+ years?

- Timeline Delays
- Managing vendors and unreliable suppliers
- Slow prototyping speeds with supply chain issues
- No retained insights for future improvement
- Minimal technological improvement since the Cold War

Technology Overview

- Multi-robot, multi-tool work cell >> **increase throughput**
- Algorithmic design Integration >> **optimize structures**
- Unique IP for gradient materials >> **increased performance**

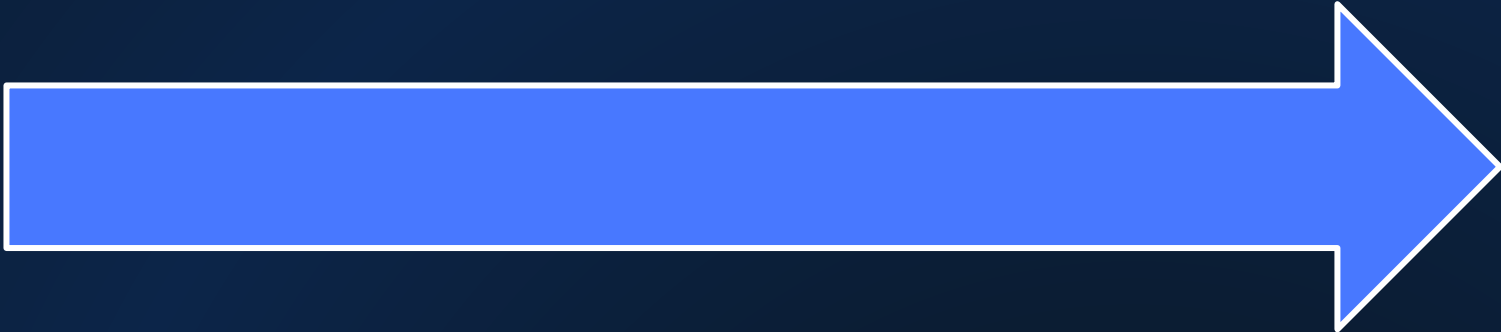
Goals:

- Reduce design-to-deploy time
- Reduce weight & buy-to-fly ratio
- Increased performance and capabilities
- ***Create hardware at the speed of software***

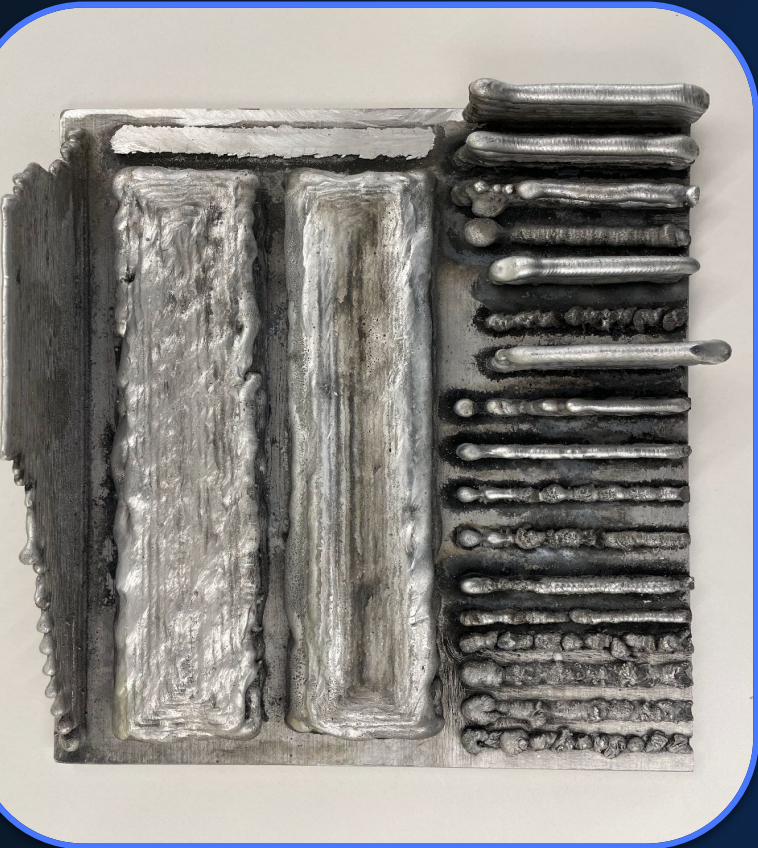


Progression of Technology

1st Print



Technology Printing Itself



JULY



AUGUST



OCTOBER



DECEMBER

Typical Metal 3D Printing Capabilities



6 feet

Solideon's Capabilities



6 feet

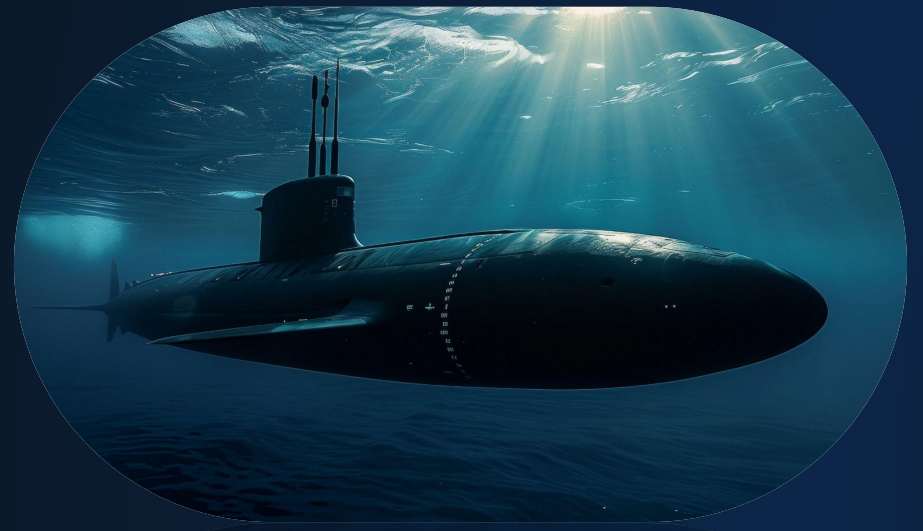


What We Make: Early Customers

Underwater Robotics

Market Size

\$23.5Bn



China's naval manufacturing capacity is 230x America's

Since the cold war, manufacturing dropped from 30+/year to 1.5.

Hypersonics

Market Size

\$6.8Bn



\$11bn research budget set by the pentagon FY24

Hypersonic missiles cost 33%+ more than ballistic missiles

Rockets

Market Size

\$10.3Bn



223 Rocket Launches in 2023

90% of US rockets are SpaceX operated

\$60m-\$200m+ per launch

Satellites

Market Size

\$286Bn



8,300+ Satellites in Orbit in 2024

50k+ satellites expected by 2030

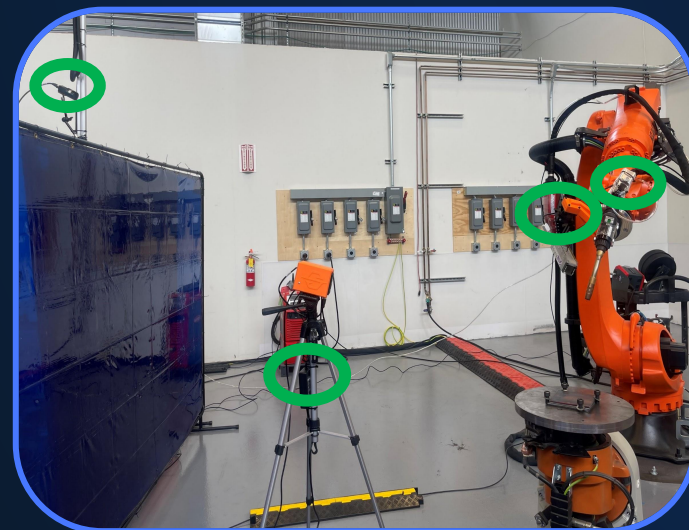
Hardware to survive launch is 50% of manufacturing costs

How Are We Different?



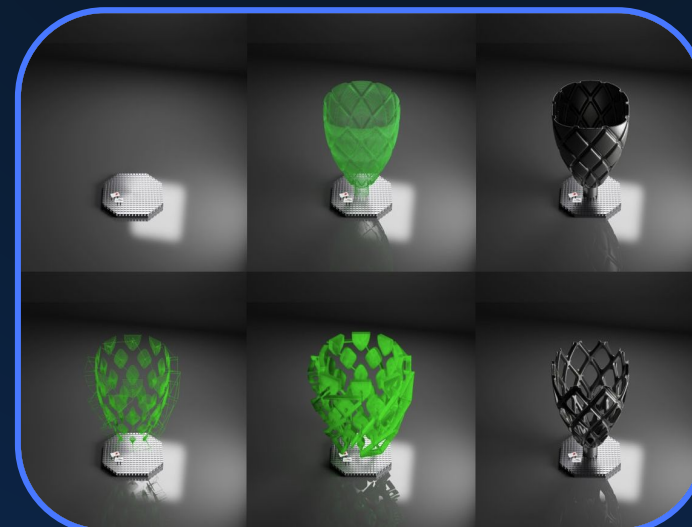
Sensors

Leveraging sensors and computer vision to make a woven image for **self correction**.



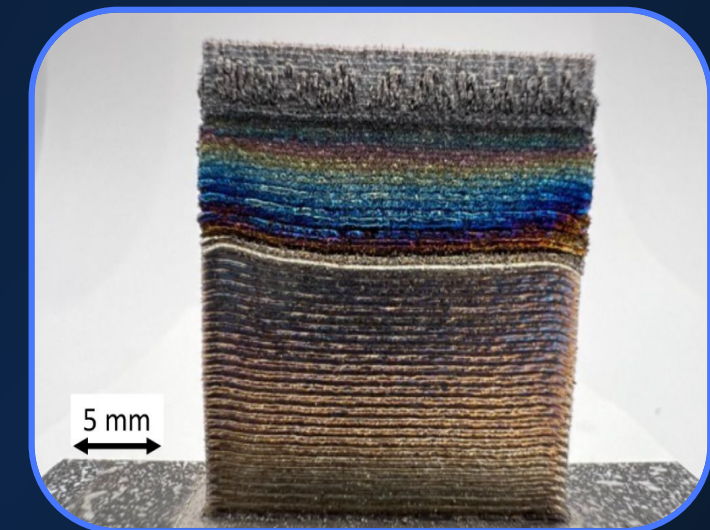
Software

Using generative AI to render **designs fully optimized** for hypersonic and deep space travel.



Materials Sciences

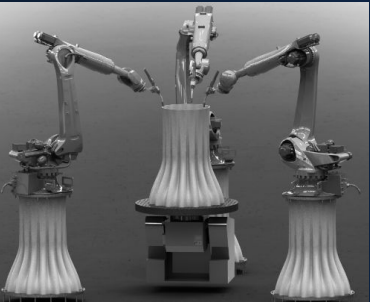
Texas A&M partnership to develop gradient materials: **we can achieve more, cheaper**.



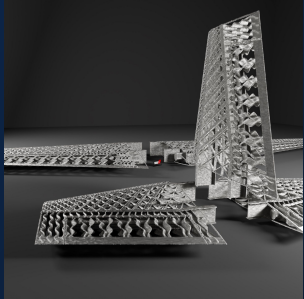
Product Roadmap



Printed 3D printer pedestal as first large print



Full System Built and Online



Transitioning from R&D to production.



Capability for all small-scale, complex aero components.



First Print and Payment From AFRL STTR



Capability for all complex aero components, at scale.



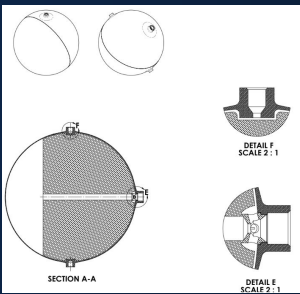
First Pressure Vessels



Multi Materials Structures Kick Off



Achieve in-space structure testing



Capability for all aerospace structures (entire vehicles).

2023

2024

2025

2026

Pre-Rev
\$4M Raised

Proj. Rev: \$1M+
\$5M+ Fundraise

Proj. Rev: \$10M+
Series A

Proj. Rev: \$20M+
Series B



Competitive Analysis

	Rosotics	Divergent3D	MX3D	Relativity	Solideon
Process	Rapid Induction Live Interpass	WAAM (Laser)	WAAM (DED)	WAAM (DED)	WAAM (DED)
Size	10' or More	5' or More	5' or More	10' or More	10' or More
Volume	Medium	Low	Medium	Low	High
Target Market	Aerospace & Industrial	Automotive	Architecture & Construction	Space	Aerospace & Defense
Metals of Use	Steel & Aluminum	Aluminum	Most	Aluminum	Most
Capability	Printing	Printing & Assembly	Printing	Printing	Printing & Assembling & Machining

*Most meaning all commercially weldable metals and alloys. Ex: Titanium, Inconel, Copper, etc.



In Less Than 18 Months, We Have...

Partnered with **Texas A&M** to develop priority gradient alloys

3D printed a rocket engine with HALO Engines

Secured **\$40M+** in LOIs from Axiom Space, iRocket, Leap 71, etc...

Realized **\$110k in revenue** in 2023 from Fenix Space

Been awarded a **Phase I STTR** from AFRL

2 Patents Filed, Ownership of joint-IP with Texas A&M

\$4M+ raised from incredible investors like:



THE FACTORY (WESTWORLD)





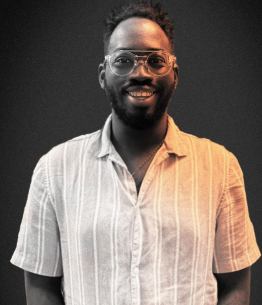
We are building humanity's industrial manufacturing base throughout the solar system. The first step in that plan? Fixing manufacturing here on earth.

Want to learn more?

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