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# Nichification & Backward Vertical Integration

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# **Nichification**

There won't be a 2<sup>nd</sup> 'Planet Labs'.

## **Space Lasers from Space**

LiDAR for precise ground and atmospheric measurements

What is it for?

#### Atmospheric Measurements

- Aerosol identification & concentration
- Wind direction & speed

#### **Ground Measurements**

- Very high resolution DEMs
- Asset monitoring & planning
  (Forests, Infrastructure, Insurance, etc.)



# **Space Lasers from Space**

LiDAR for precise ground and atmospheric measurements

Why did it take so long?

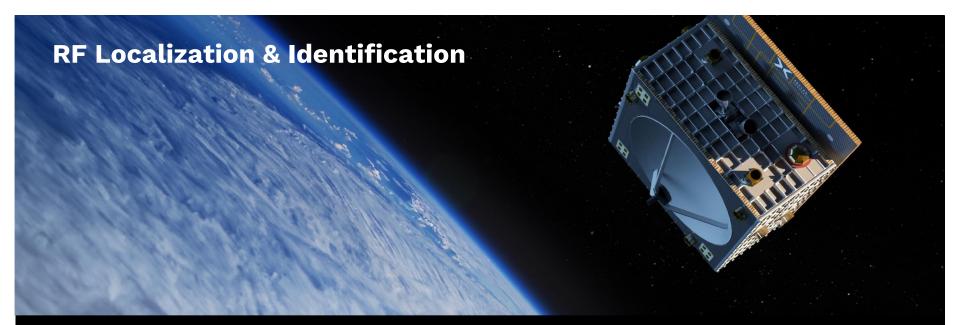
- Lasers are freakin' complex (Space lasers even more!)
- High Size, Weight and Power (SWaP) of the instrument
- High precision satellite platforms required



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# **Backward Vertical Integration**

Two real-life examples of how to (re)gain control of your supply chain.

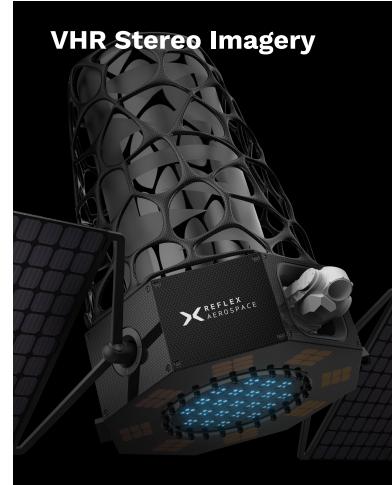


# **Challenge & Opportunity**

- Immediate Business Opportunity
- Required data not available
- No Payload / Instrument available
- Very short time for implementation

## **Solution & Mission**

- Support to evolve non-space H/W into space H/W
- Development of a tailored satellite in 18 months
- Launch & nominal operations



## If suppliers are too slow, ...

simply indulge in your own constellation.

#### Background & Reasoning

- Capacity limitations with growing demand
- Unit economics bad

#### Challenges

- Switch from OpEx to CapEx financing
- Limited knowledge regarding space assets

#### **Business Opportunity**

- Lower costs / higher margins
- Penetrate new markets faster
- Positive spill-over effects

### Conclusion

"Soon, every company will be a space company."
 (Harvard Business Review, 11/2022)

Latest developments driven by market demand &
 Laser-focused on specific use cases

 Recent advancements in other industries enable low cost & rapid deployment of space assets





Don't sacrifice on your Use Case.



Never compromise on your Mission.