

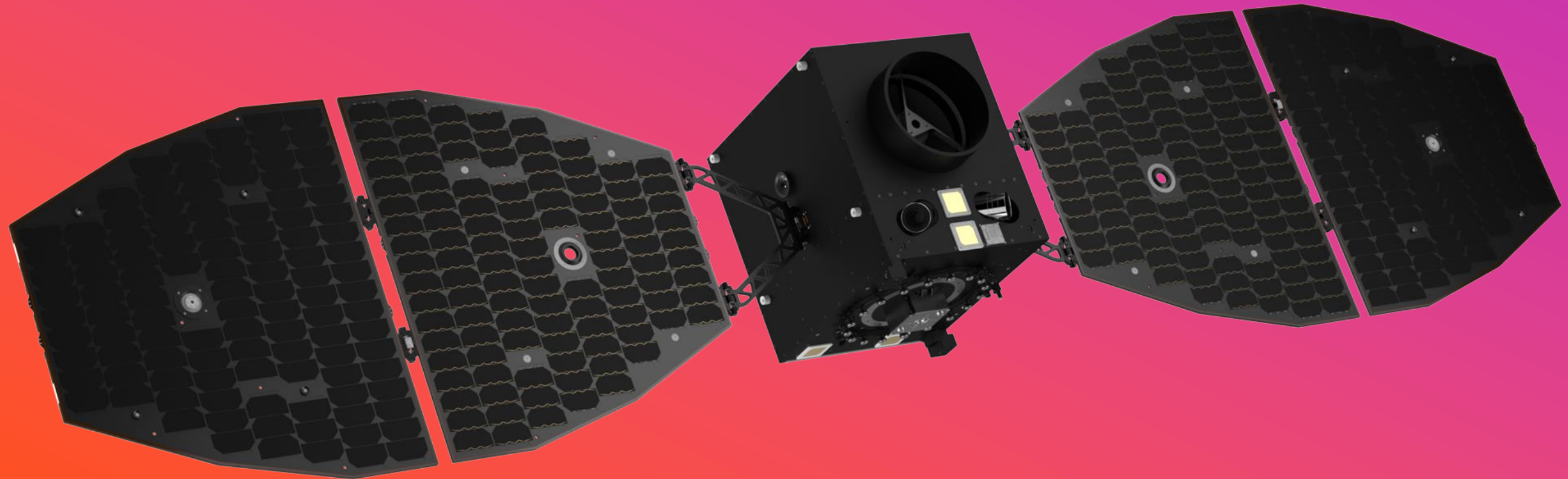


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Deep Vertical Integration

What is the Value?

Jan Smolders - Chief Commercial Officer



Modules in orbit

600+

Modules in production

200+

Space proven in

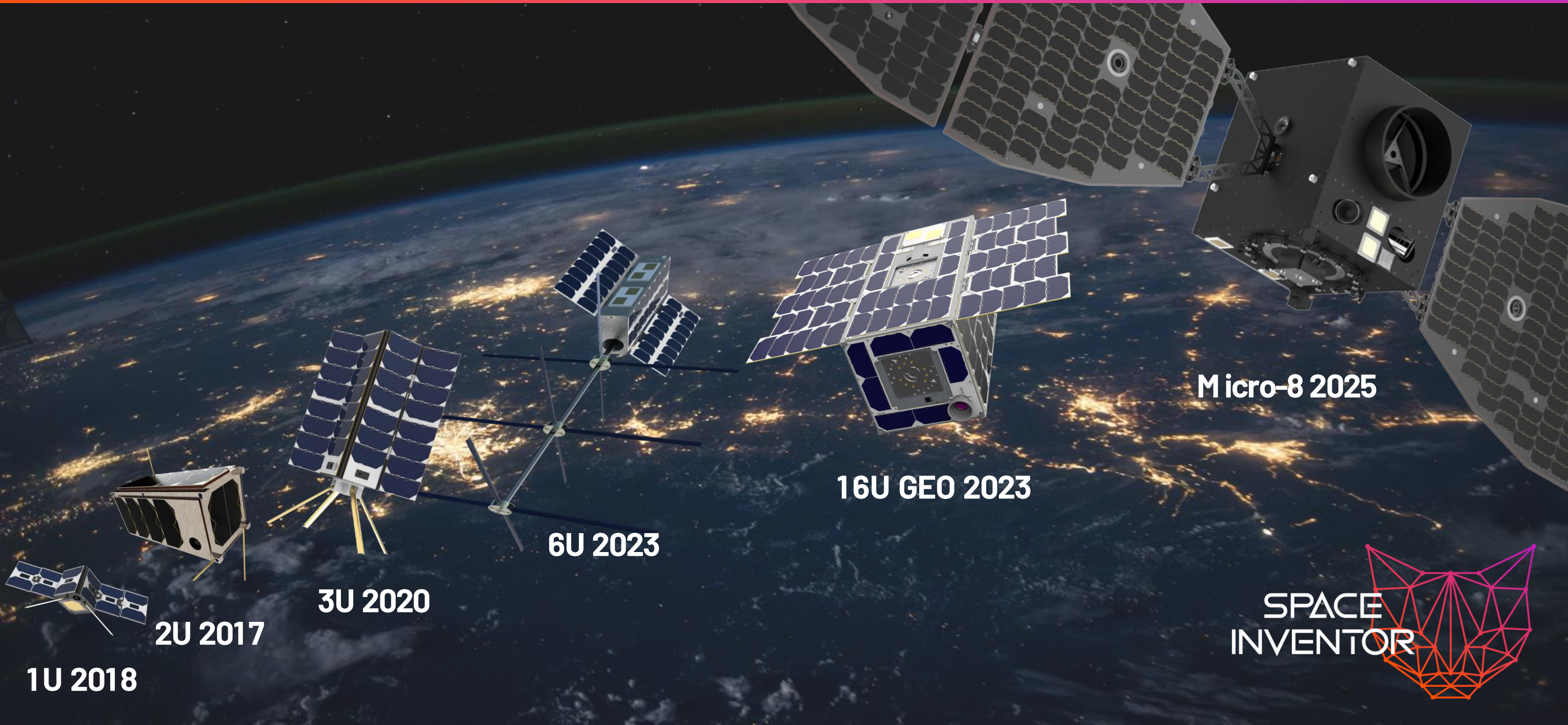
GEO + LEO

Projects delivered

100+

Satellites in production

15



Micro-8 2025

16U GEO 2023

6U 2023

3U 2020

2U 2017

1U 2018

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Satellite Manufacturing: Make Or Buy?



In-House Manufacturing

Direct control over production processes.

Eliminate reliance on external suppliers and their markups.

Optimize materials and **resource usage**.



Outsourcing

Higher costs for low volume components.

Increased vulnerability to **supply chain disruptions**.

Less control over **quality and delivery times**.



Vertical Integration: How Deep?

**Break Free from
Machine Shops**

**Bringing CNC Machining,
PCB Assembly and
Component Testing
in-house.**



Time Savings from Streamlined Production Processes

1

Reduced Lead Times : Weeks To Hours

Faster production cycles, minimizing delays and ensuring timely project completion.

2

Efficient Communication : Click "Print"

Direct collaboration between design and manufacturing teams, minimizing communication bottlenecks, sharing consistent information.

3

Optimized Workflow : Embracing Industry 4.0

Seamless integration of each stage, eliminating unnecessary steps and redundancies, working from the same ERP software..

Improved Quality Control and Reliability

Standardized Processes

Vertical integration facilitates tighter control over manufacturing processes.

Component Testing

Thorough testing of all components ensures high reliability.

Continuous Improvement

Internal expertise allows for constant optimization of quality standards.



Accelerating Engineering Design Cycles

1

Rapid Prototyping

Vertical integration enables fast iteration on designs, allowing for quick adjustments and improvements.

2

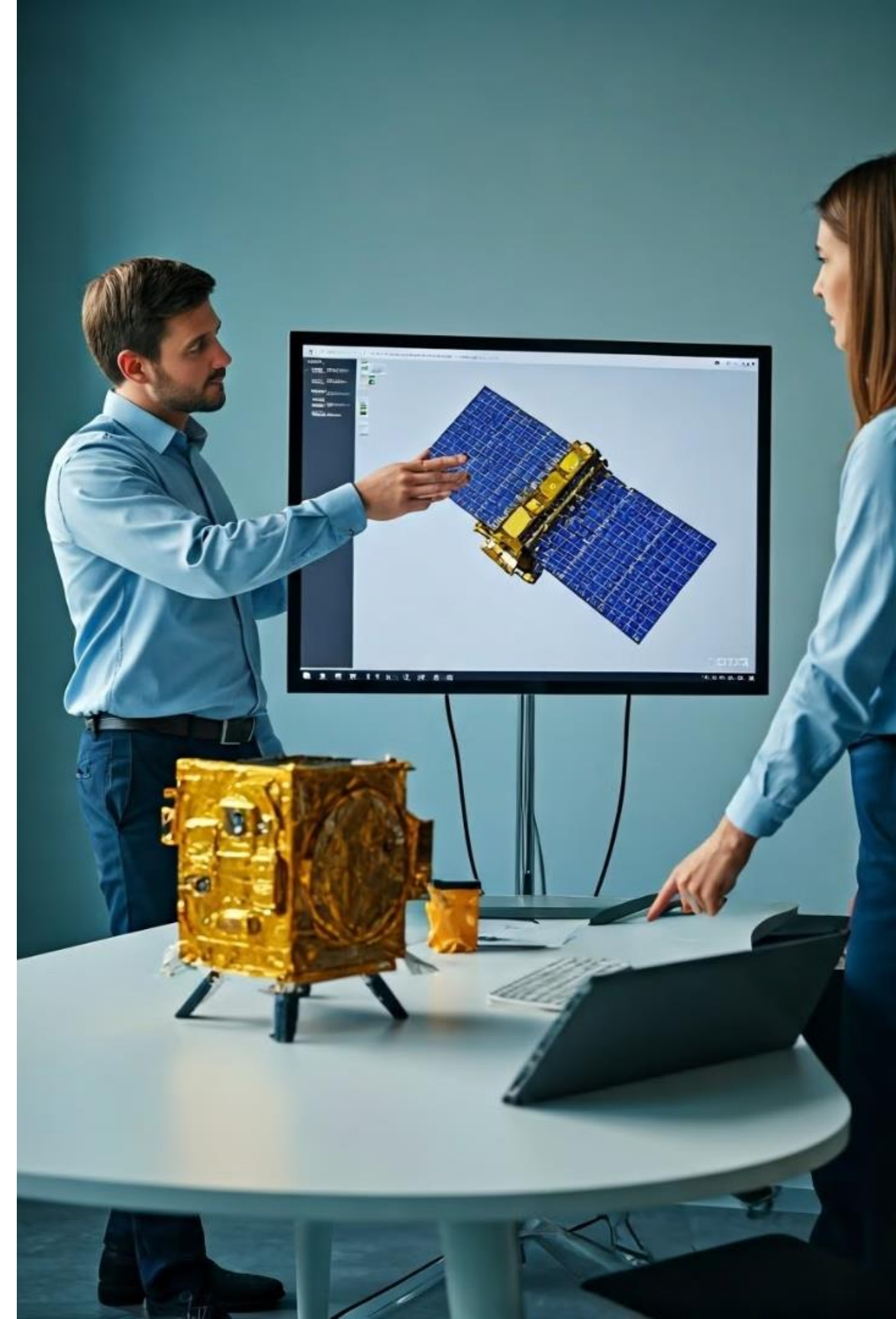
Streamlined Testing

Close collaboration between design and manufacturing teams accelerates testing and validation of prototypes.

3

Optimized Design

Real-time feedback loops enable engineers to refine designs based on manufacturing feasibility and performance.





Optimized Supply Chain and Inventory Management

90%

Reduced Lead Times

Direct control over sourcing and production minimizes delays.

25%

Lower Inventory Costs

Efficient production planning, no minimum order quantities, reducing obsolete inventory.

50%

Reduced scrap rate

Immediate problem solving, tailored machine process and reduced component handling.

Increased Agility and Responsiveness to Market Demands



Fast Turnaround Times

Vertical integration enables faster development and deployment of new satellite products.



Adaptable Manufacturing

In-house capabilities allow for quick adjustments to meet changing market requirements.

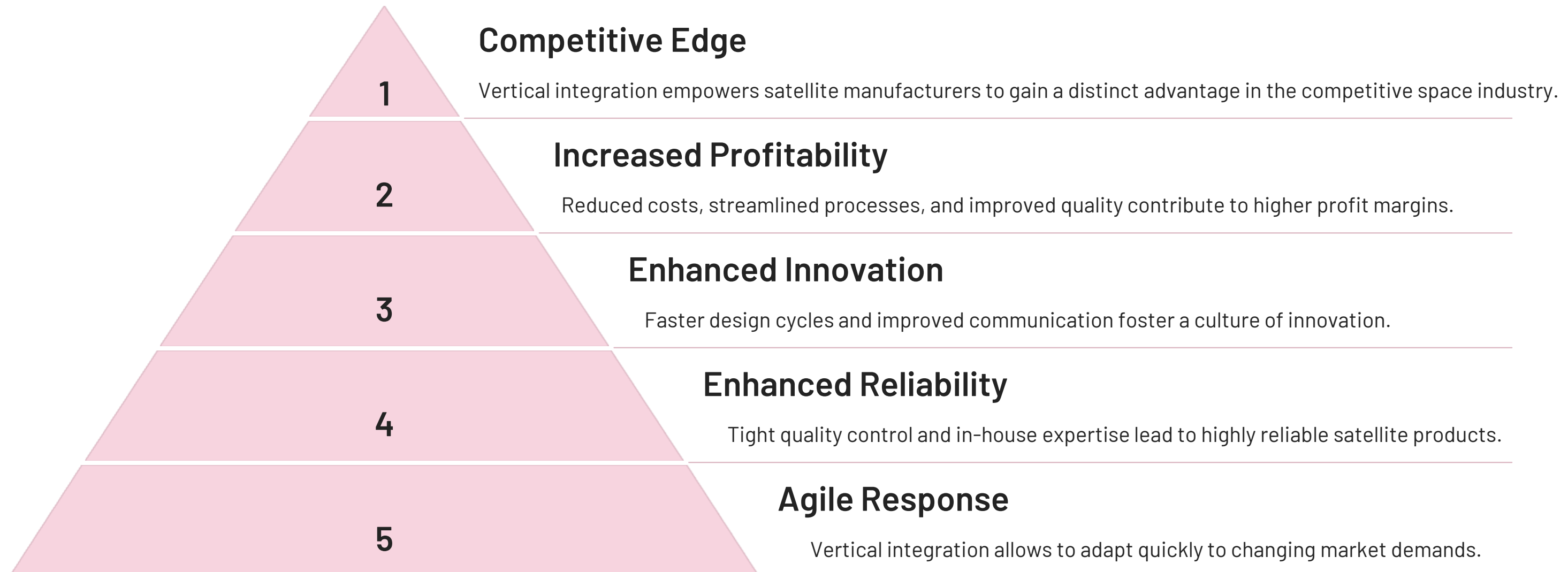


Faster Innovation

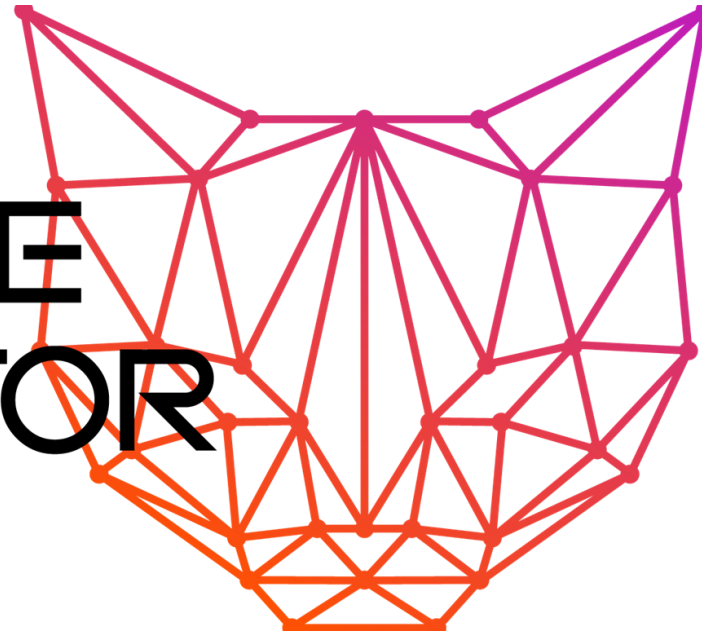
Tightly integrated teams can rapidly prototype and iterate on new satellite technologies.



Conclusion: Competitive Advantages of Deep Vertical Integration



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Thank you for your attention

Visit our booth E45

www.space-inventor.com