

# More resolution. Smaller satellite.

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Company & Product Overview

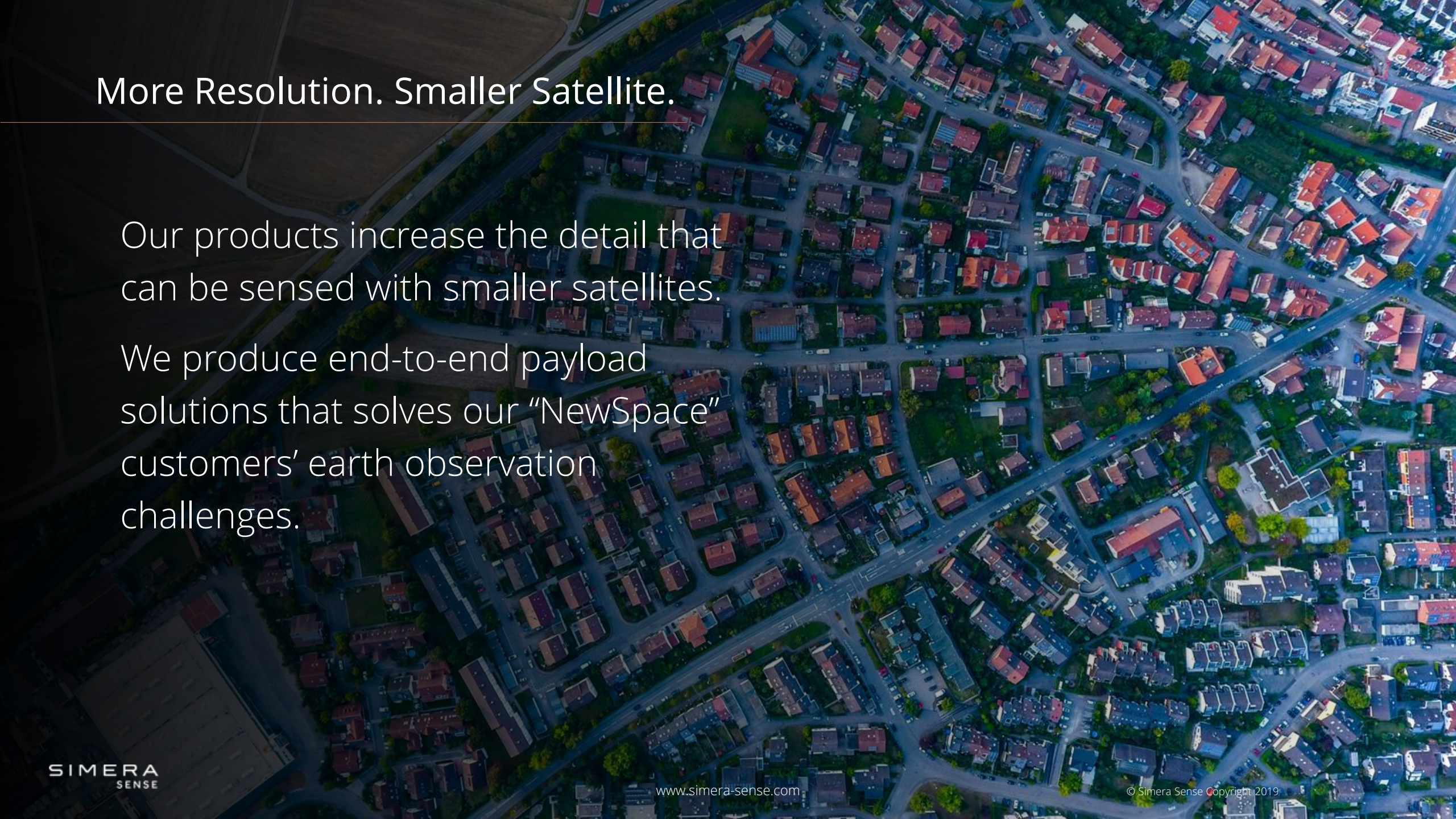
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Johann du Toit, Group CEO

October 2019







# More Resolution. Smaller Satellite.


Our products increase the detail that can be sensed with smaller satellites.

We produce end-to-end payload solutions that solves our “NewSpace” customers’ earth observation challenges.

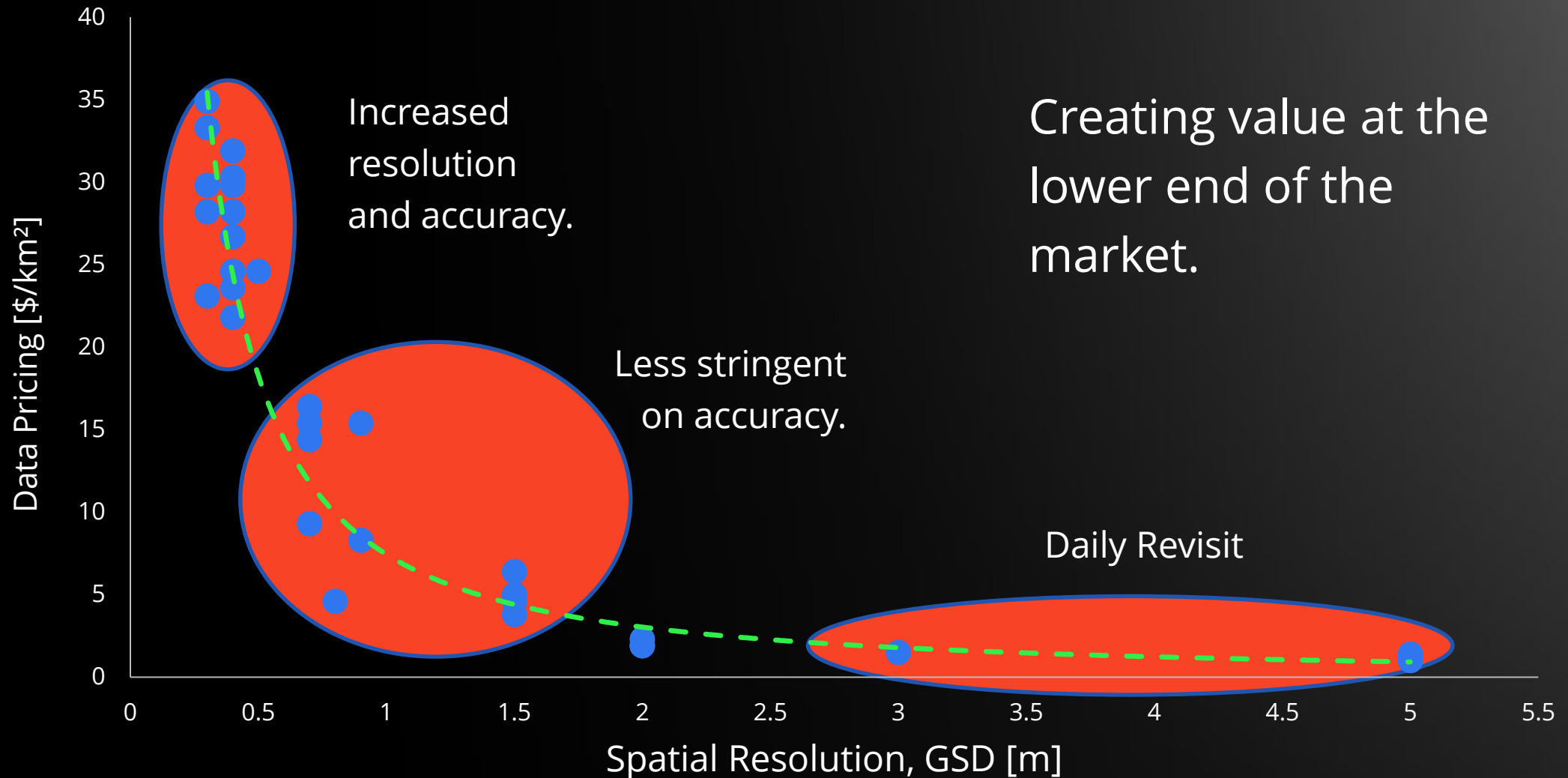


# Addressing a market gap

Simera Sense is positioned to address the optical market needs for the NewSpace industry through its tailored performance, quick design iterations and short lead times.

		ABLE TO RAPIDLY ITERATE?	
		YES	NO
ABLE TO SCALE PRODUCTION?	YES	 Market Gap	Traditional Component Suppliers
	NO	"NewSpace" Market Entrants	

# Staying ahead of the curve



# The Simera Sense approach

At Simera Sense we produce optical payloads for space in a more cost-effective way than any company by using lean procedures while maintaining performance.

Optimized  
Resolution

Reduced  
Per Unit Cost

Increased  
Efficiency

Standard  
Interfaces

Going  
Beyond Pixels

# xScape100 family of products

Less than

# 4.75 m

GSD at 500 km orbit height

# RGB

Bayer pattern

More than

# 19.0 km

Swath at 500 km orbit height

# 7-Band

Multispectral

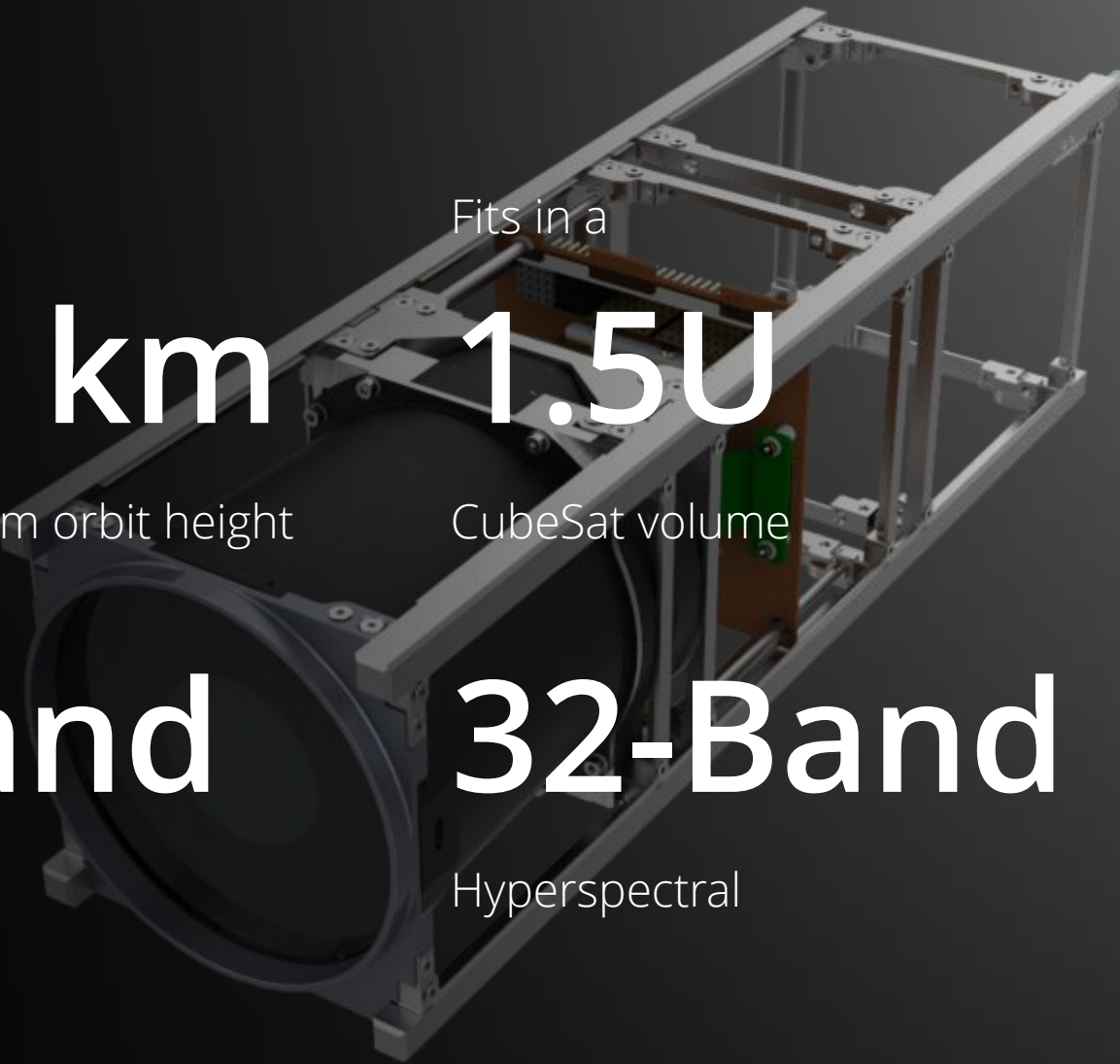
Fits in a

# 1.5U

CubeSat volume

# 32-Band

Hyperspectral



# xScape200 family of products

Up to

# 1.50 m

GSD at 500 km orbit height

# RGB

Bayer pattern

More than

# 14.0 km

Swath at 500 km orbit height

# 5-Band

Multispectral

Fits in a

# 12U

CubeSat volume

# VNIR

Spectral range



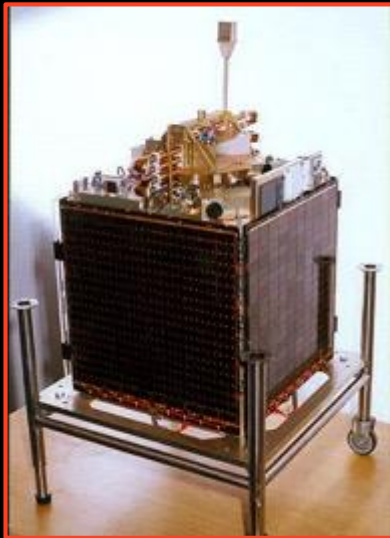
# A proud shared history

Over 30 years the core of the Simera team contributed on various levels to the South African space history.



GreenSat

1985



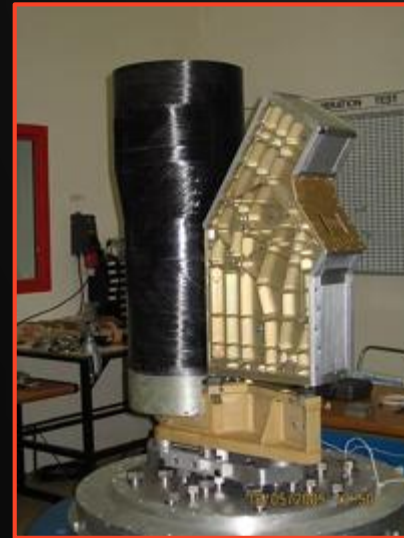
SunSat

1990



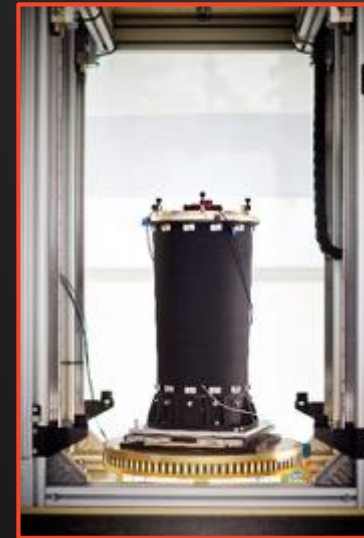
SumbandilaSat

1995



MSMI

2000



Optical Payloads\*

2010



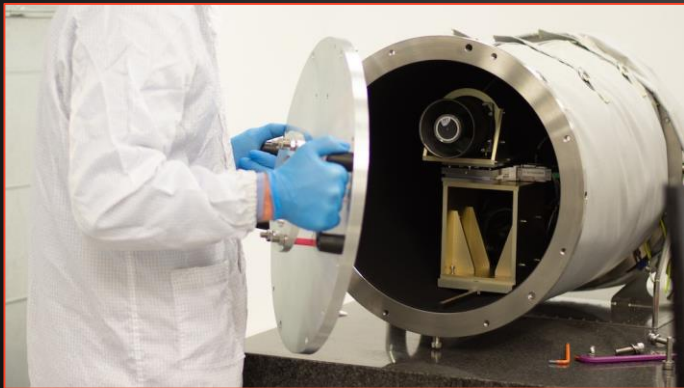
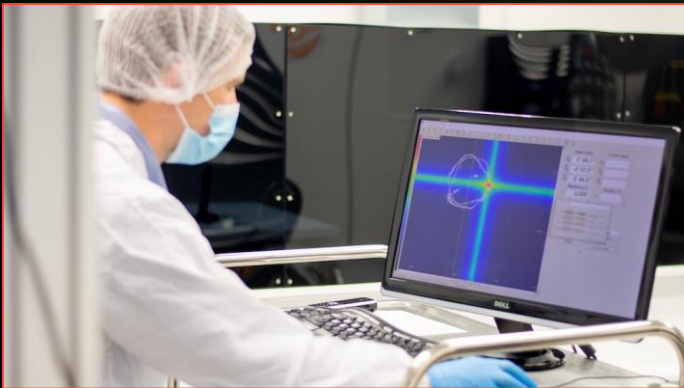
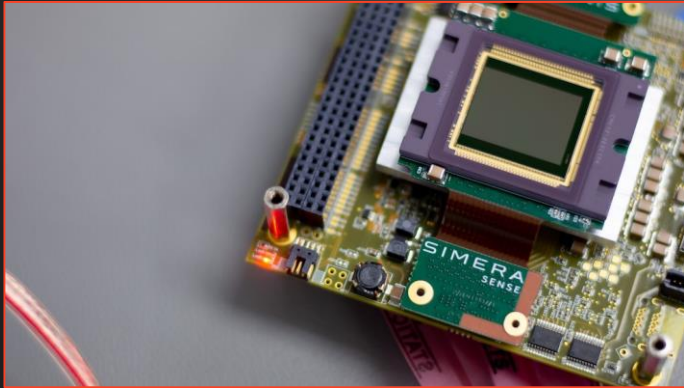
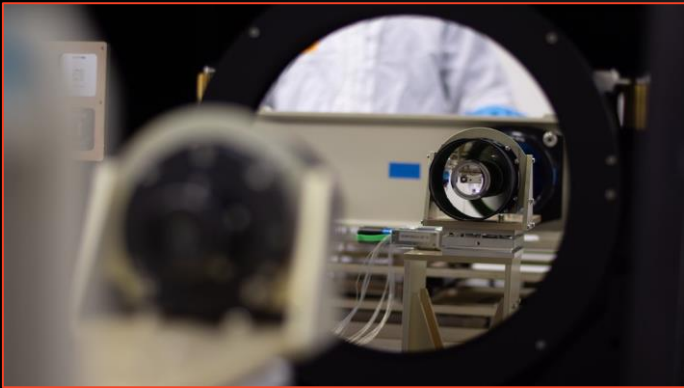
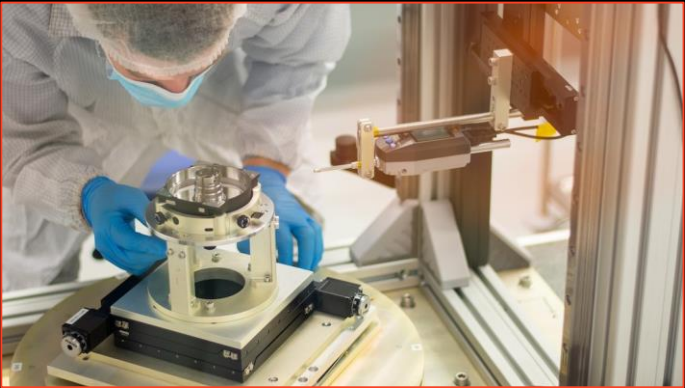
xScape100

2015

\* Simera also designed, manufactured and delivered various customer confidential optical payloads for international clients.

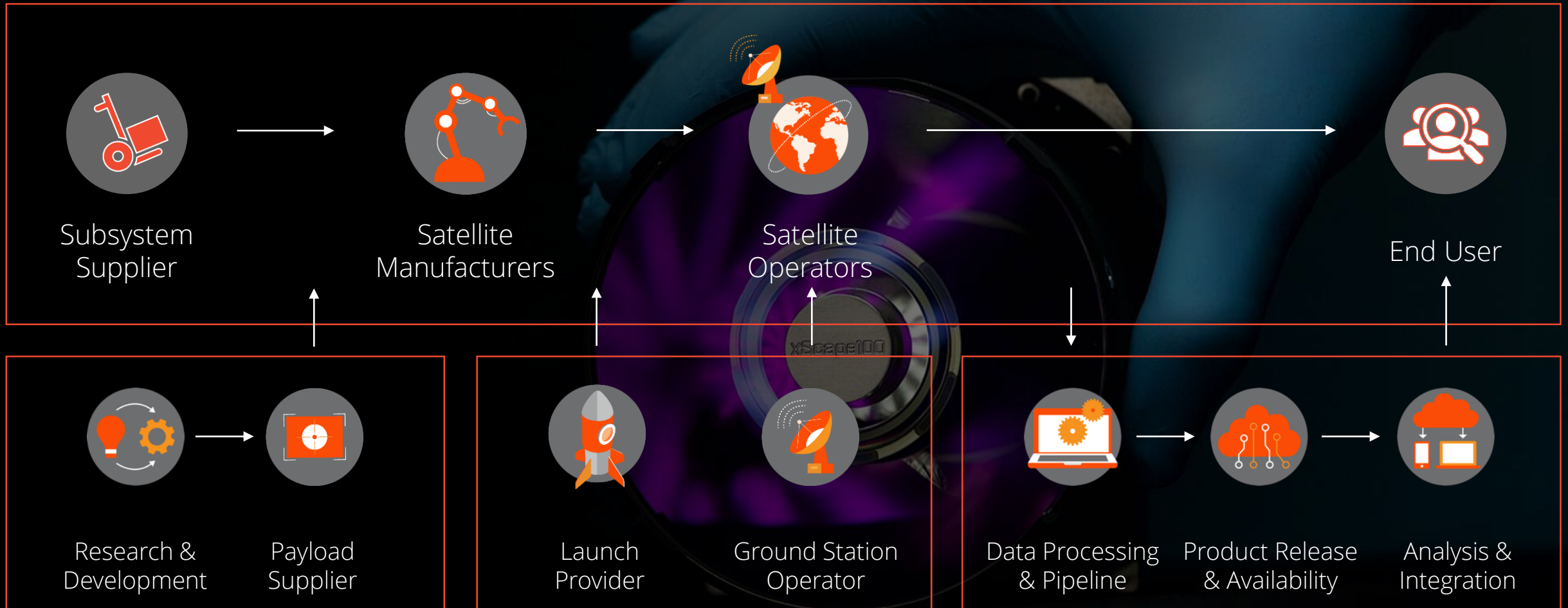


# Assembly, integration & test facilities.



# We are looking for value chain partners

## Vertically Integrated Small Satellite Supply Chain



SIMERA  
SENSE

# More resolution. Smaller satellite.

Imagine what we could do for your  
earth observation mission.

Email: [thys.cronje@simera.com](mailto:thys.cronje@simera.com)

[www.simera-sense.com](http://www.simera-sense.com)