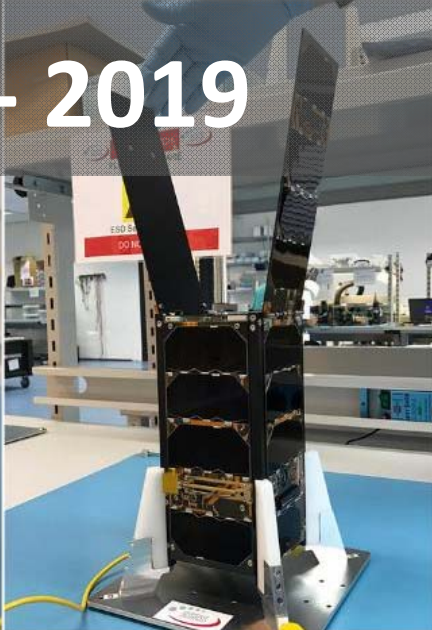


# 2006 - 2019



TURN-KEY MISSIONS



PLATFORMS



LAUNCH SERVICES



CUBESAT PRODUCTS

# 2020 - 2024

Many organizations want satellite data

but do not want to  
invest in technical expertise  
build an operations capability  
and bear the technical risks



SMALL SATELLITES AS A SERVICE

13 

YEARS IN SPACE

105 

EMPLOYEES

76 

CUBESAT PRODUCTS AVAILABLE

2 

SPIN-OUT COMPANIES

335 

SATELLITES LAUNCHED

6 JAN 2006 TO DATE



11 

NUMBER OF SATELLITES CURRENTLY  
OPERATED/MONITORED FROM OUR CONTROL  
ROOM

 1kg  25kg

LIGHTEST SAT HEAVIEST  
SAT

5 

LONGEST DURATION ISIS  
SATELLITE IN ORBIT  
(YEARS)

300 

ANTENNAS DELIVERED

25 

GROUND STATIONS  
DEPLOYED

# Small satellite products

## Off-the-shelf standardized products



CUBESAT STRUCTURES



COMMUNICATIONS SYSTEMS



ON BOARD COMPUTER



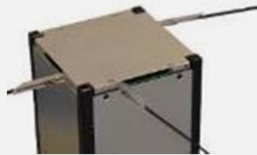
ATTITUDE CONTROL SYSTEMS



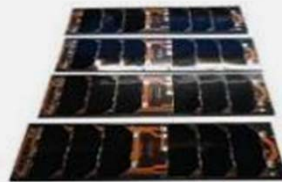
GROUND STATIONS



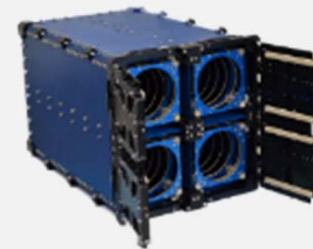
GROUND SUPPORT EQUIPMENT



ANTENNA SYSTEMS



SOLAR PANELS



CUBESAT DEPLOYERS



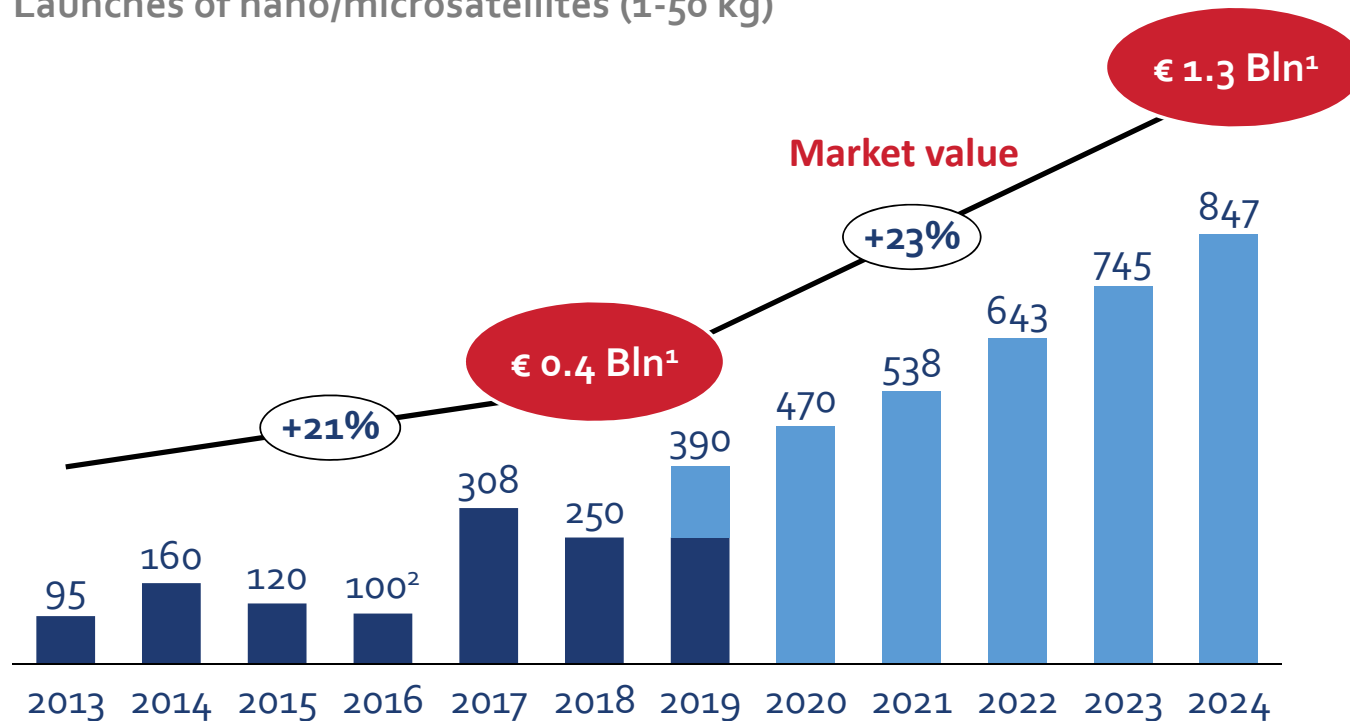
CUBESAT DEVELOPMENT  
PLATFORM

# Our market continues to grow strongly driven by applications

## Small Satellite Market

■ Historical launches ■ Forecast

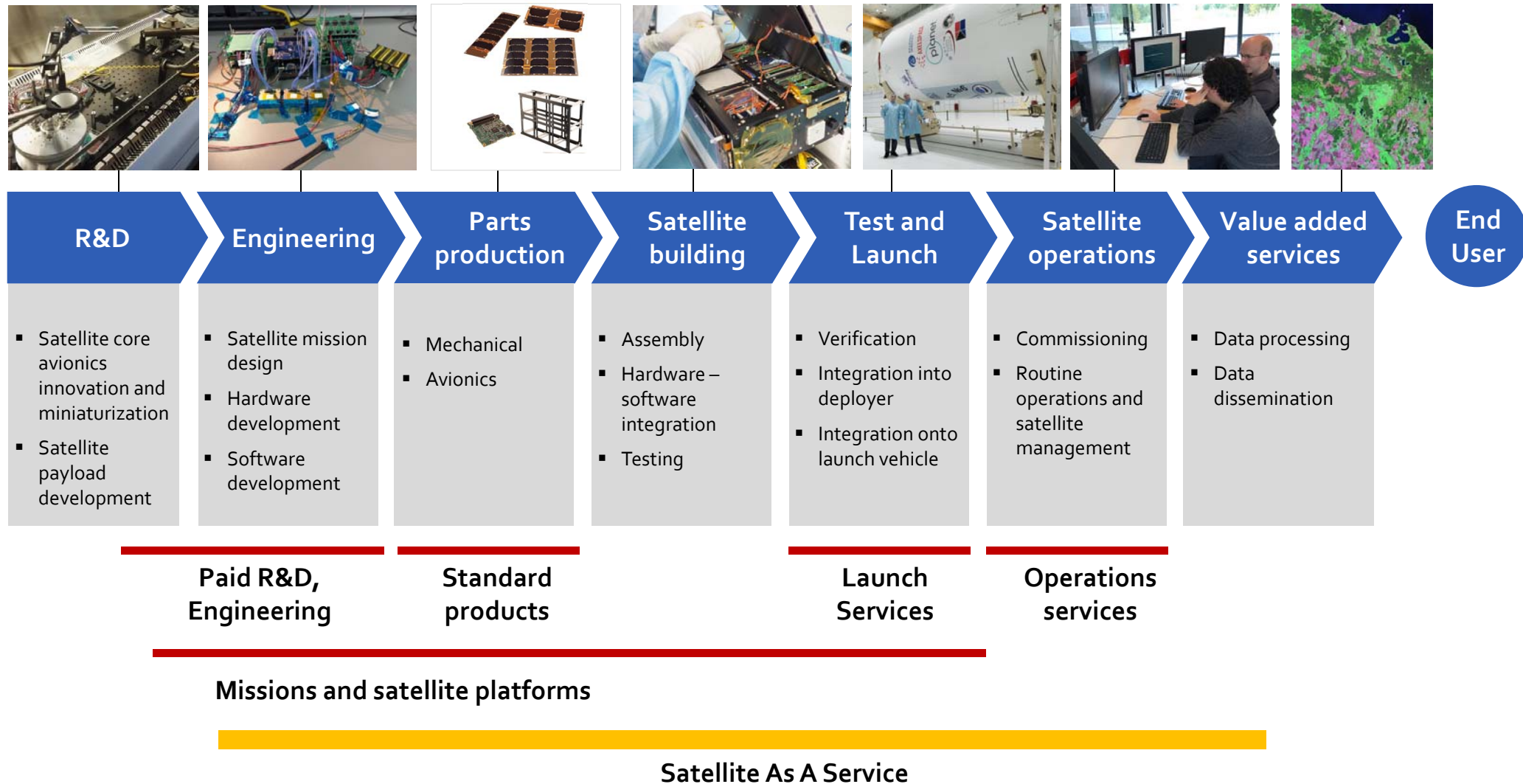
Launches of nano/microsatellites (1-50 kg)



## New applications

- IoT from space (Hiber, Kepler)
- Real time remote sensing (Planet)
- Defense & security (Dutch MoD)
- Commercial Weather (Spire)
- Precision Agriculture (VanderSat)
- Climate Monitoring (RMIB)
- Air Quality Monitoring (TANGO)
- Commercial science (SpacePharma)
- ...

# Transition from product and project model to sat-as-a-service



# ISIS customer base - examples

## Academic Institutes



## Traditional / Institutional

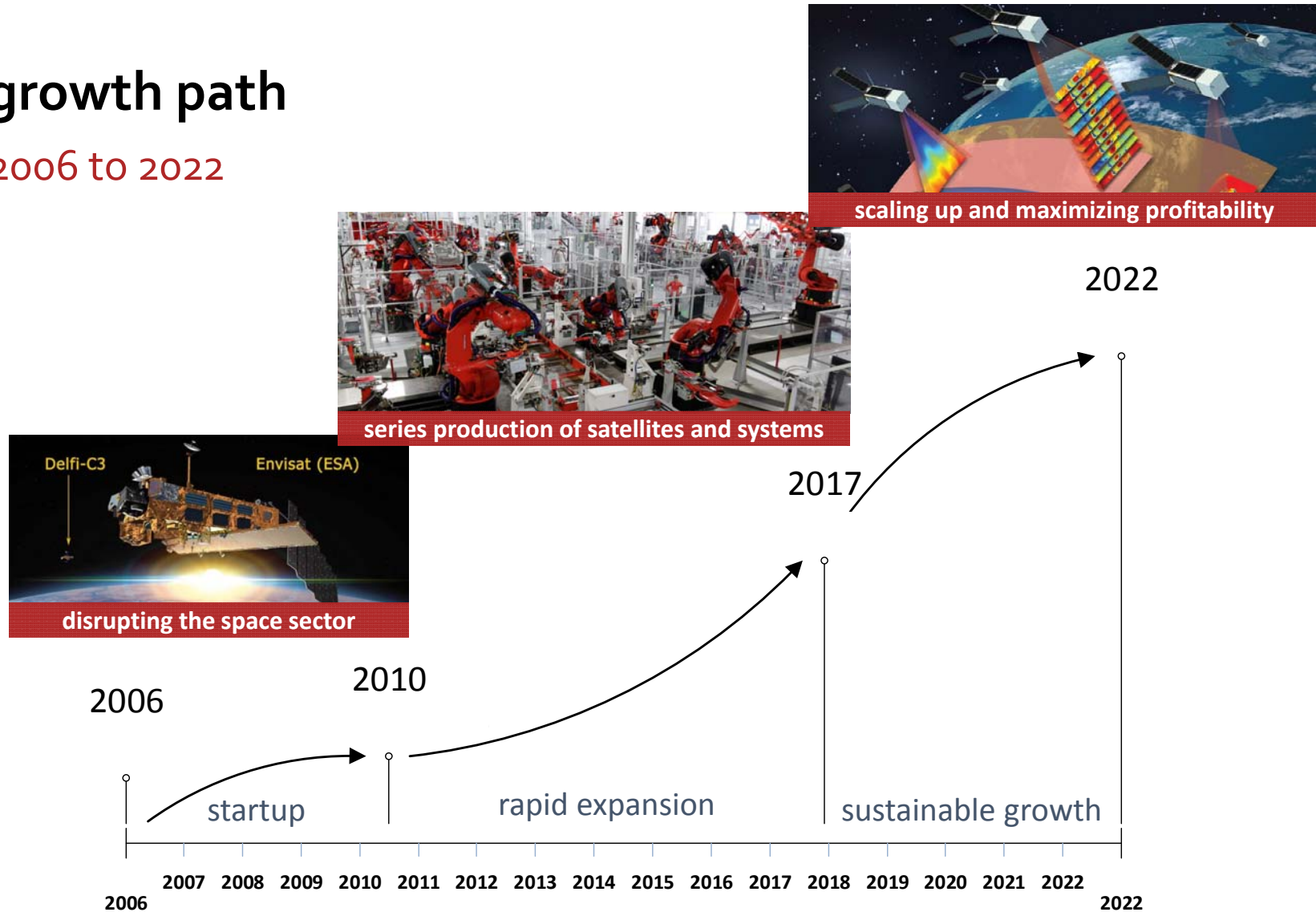


## New Space



# ISIS growth path

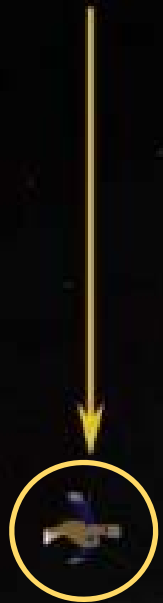
From 2006 to 2022



Small is beautiful...

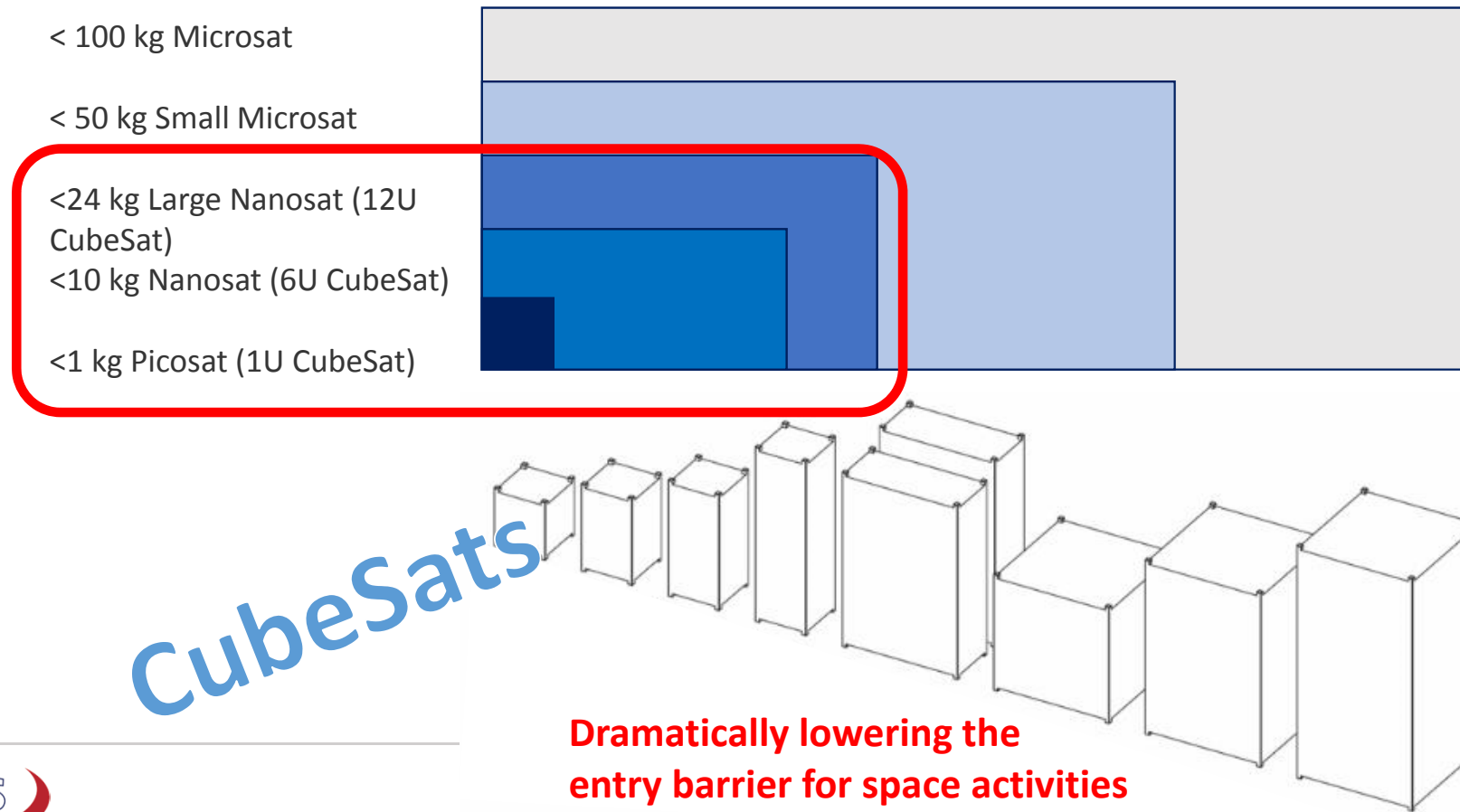
Delfi-C3

Envisat (ESA)



# Nanosatellites and CubeSats

## modular spacecraft



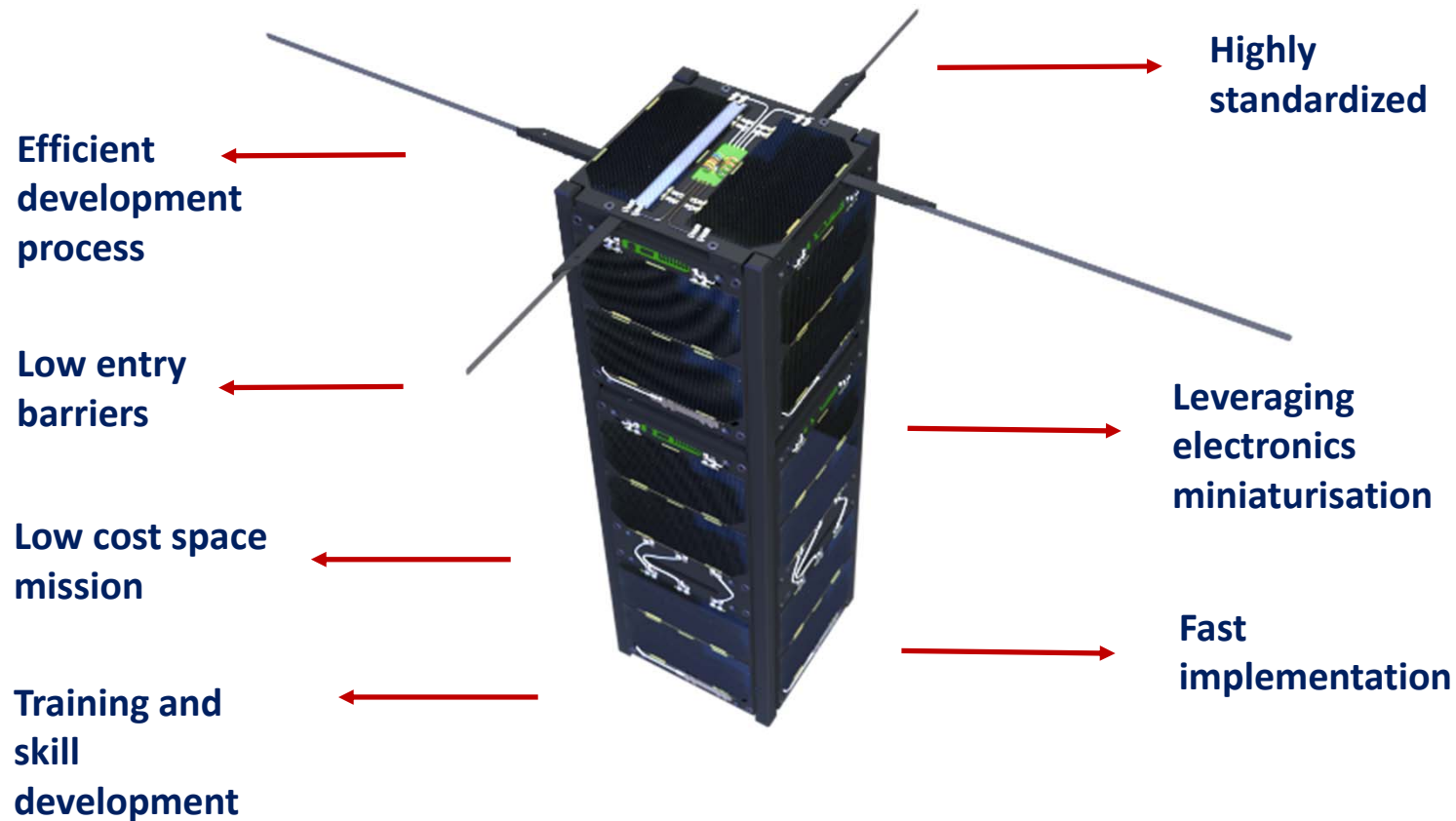
# Modular building blocks for rapid implementation of space missions

Satellite parts, payloads, designs, launches, ground segment, support, services

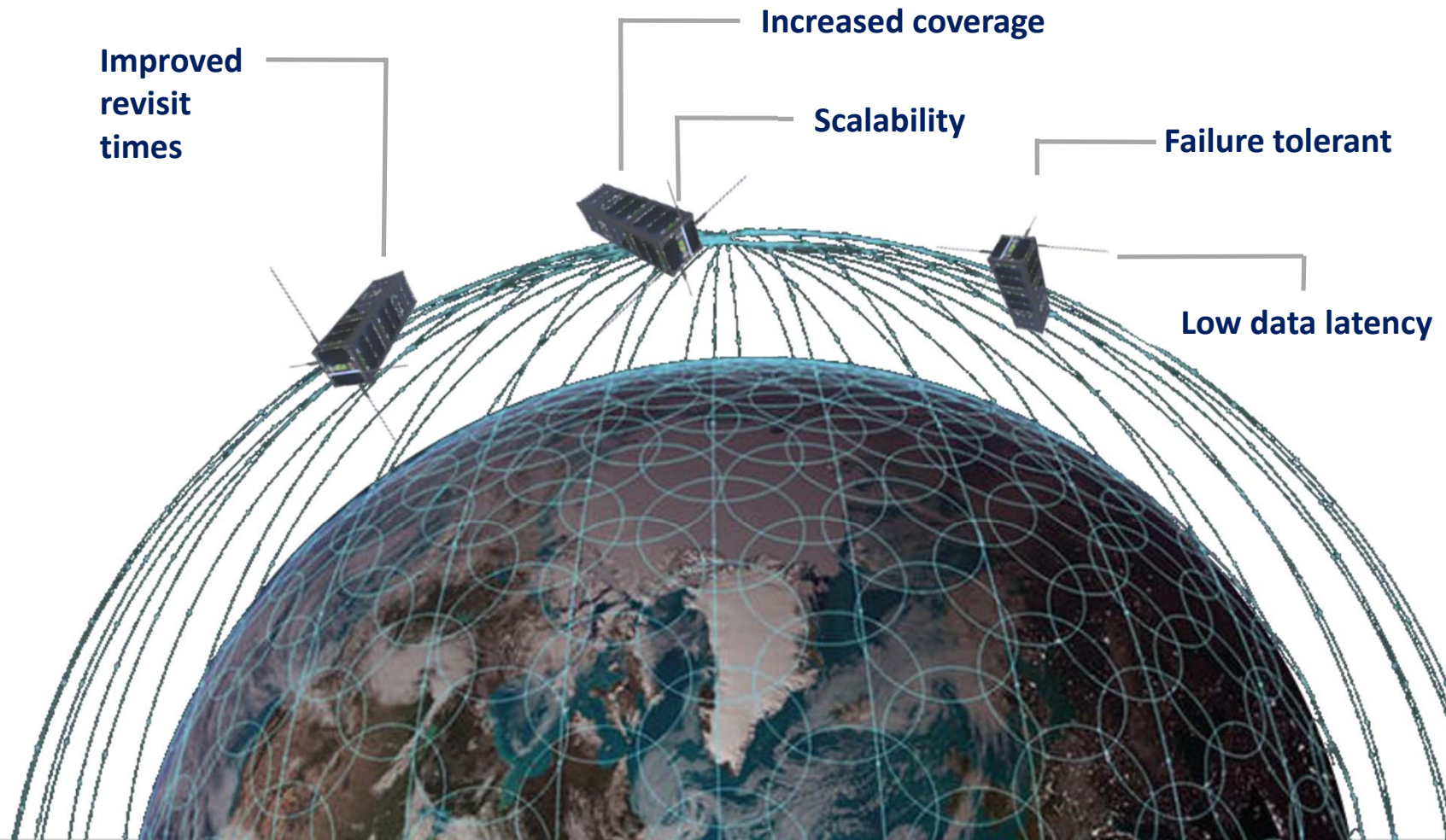




# Advantages of a **nanosatellite**



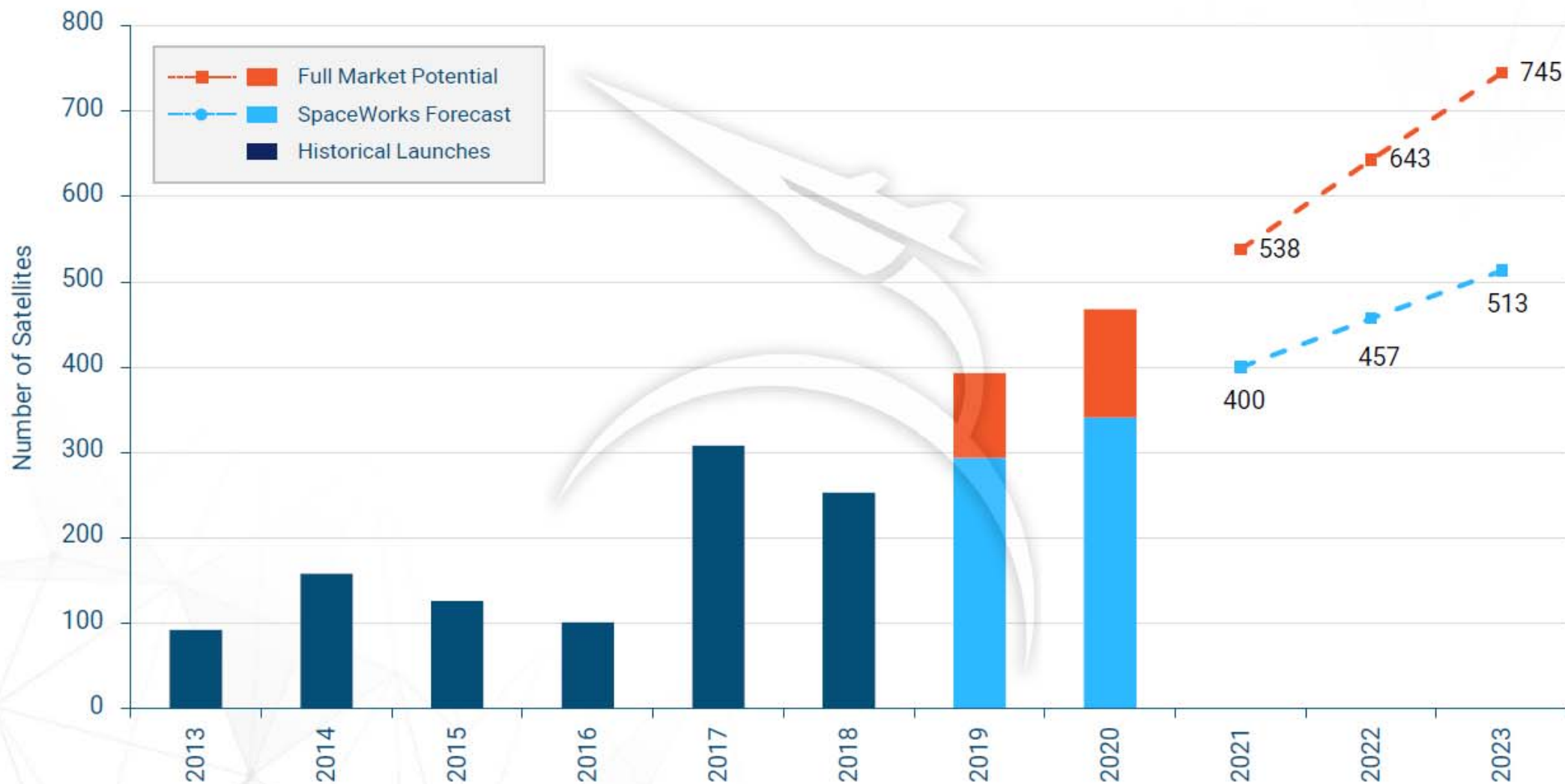
## Advantages of **many** nanosats



# Nanosatellites as disruptive innovation

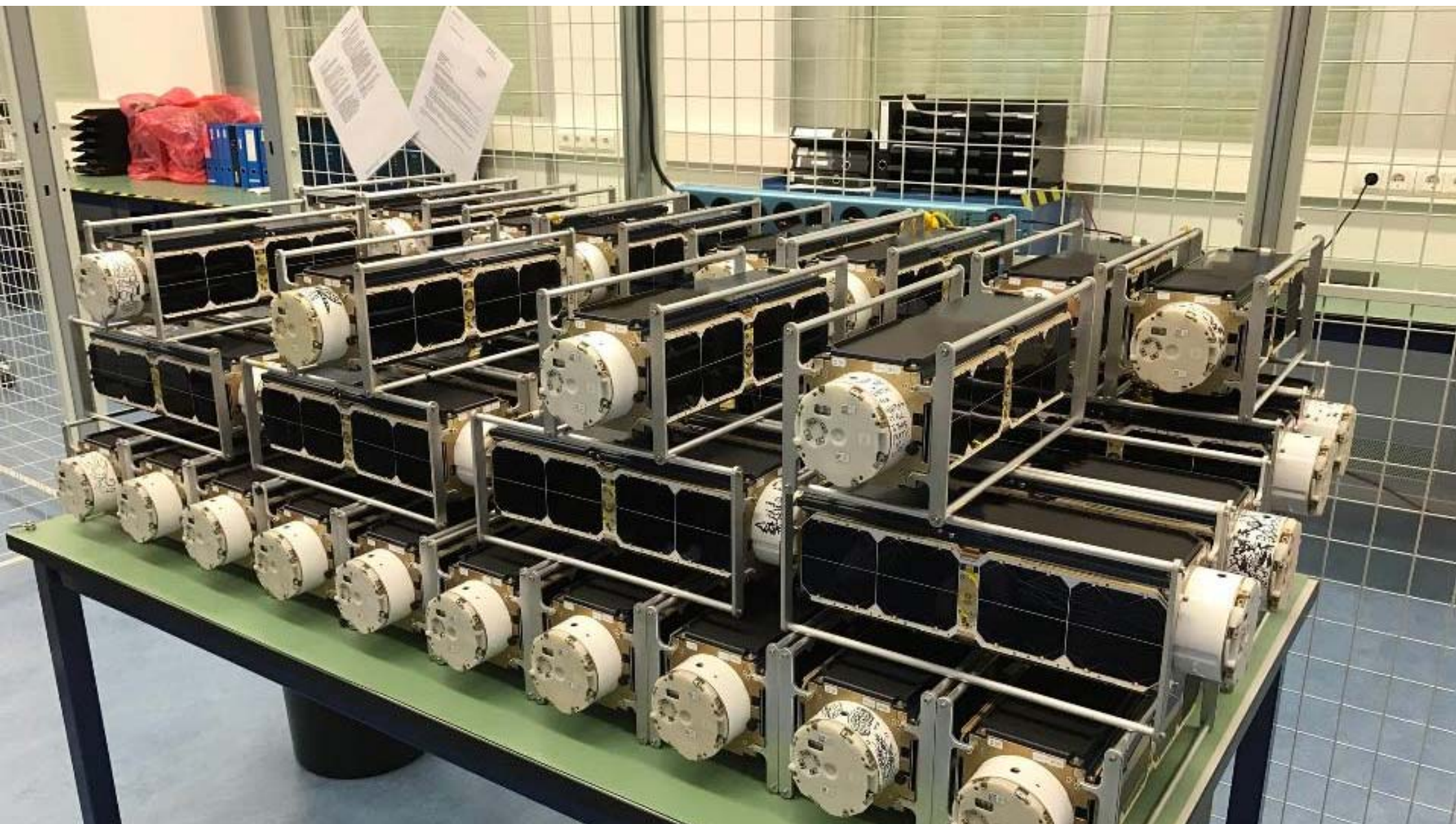


## A growing market for nanosatellites



The space sector is changing  
out of the laboratory, into the factory











# Small Satellites offer great opportunities

Huge opportunities for highly constrained small satellite missions

- Leverage cost effective solutions from the civil market to rapidly implement missions for security and defense.
- Tailor made solutions to meet the needs of the military
- Training and knowledge transfer opportunities

Thank you for you attention!

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