



UNIBAP
SPACE SOLUTIONS

Introduction to **Unibap Space Solutions**

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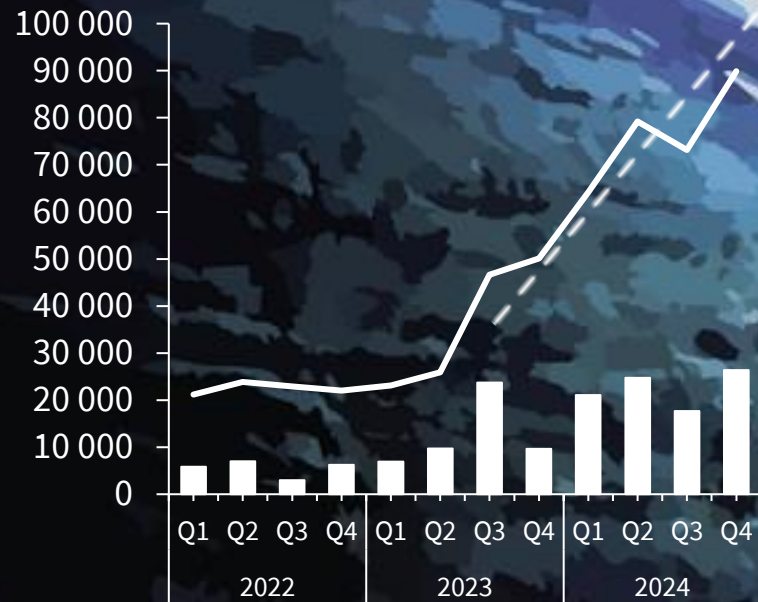
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UNIBAP

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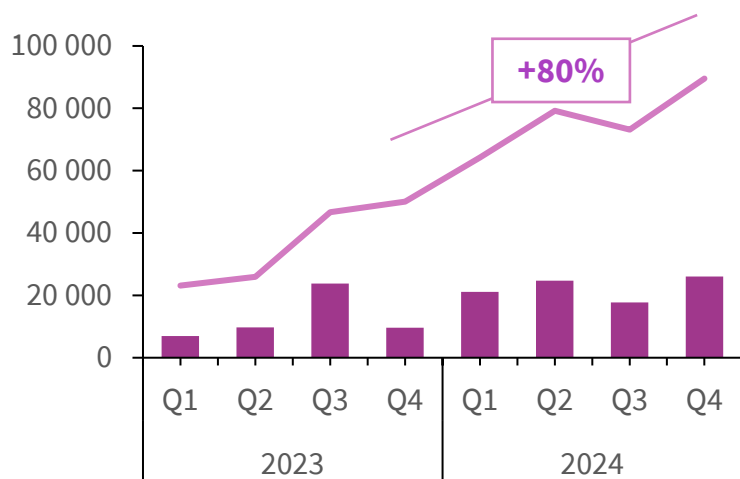
Net revenue (kSEK)



- HW, SW and Services for **Edge Computing in Space**
 - Headquarters and production facility in Uppsala, Sweden
 - +50 staff in Sweden / New US subsidiary
 - Distributors in USA, Japan and Korea
 - Partnerships throughout the space sector (NASA, ESA, JAXA, Moog, OHB, AWS and many more)
 - Listed on Nasdaq First North Growth Market

Financial highlights Q4 2024

Net revenue (kSEK)

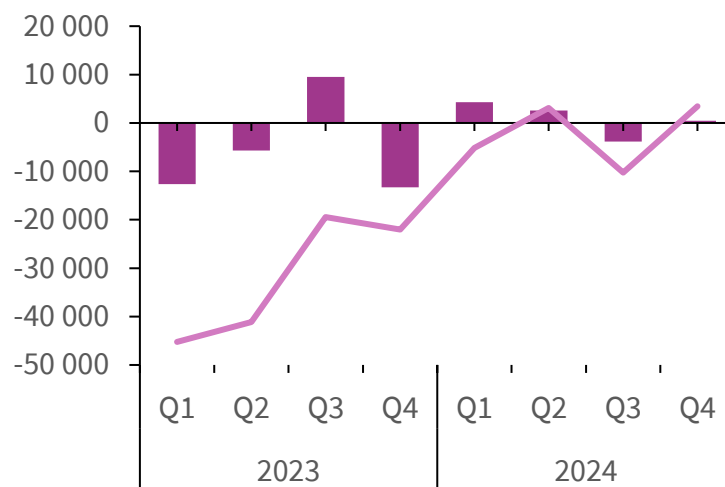


Highest revenue in company history

+80% growth Y-o-Y

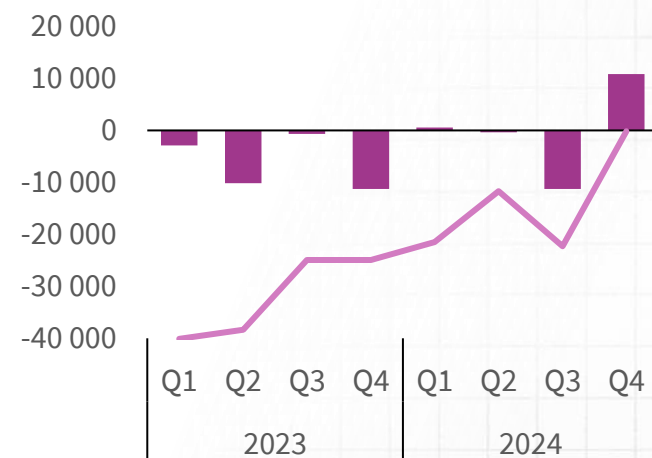
4x in last 2 years

EBIT (kSEK)



First full year positive EBIT

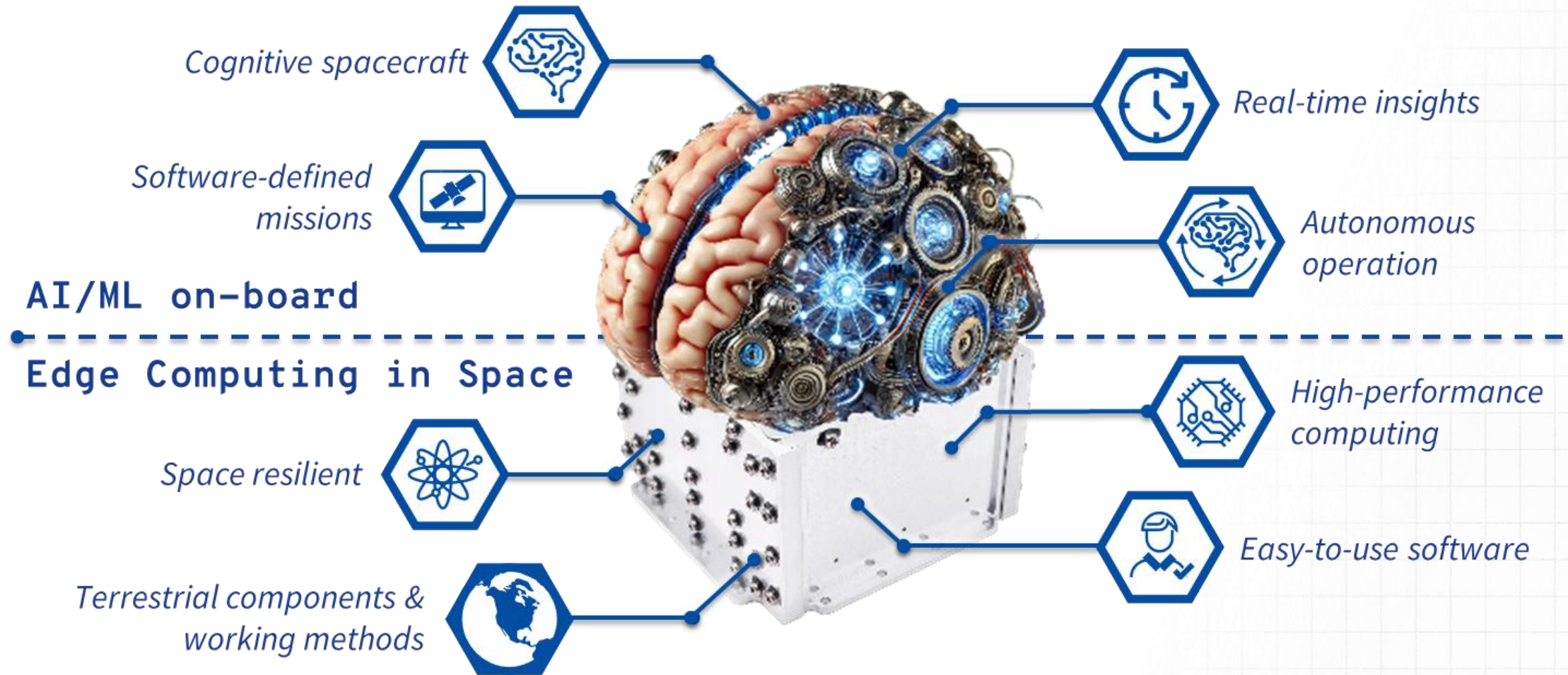
Cash flow from current operations (kSEK)



Improving cash flow

Large swings in order intake and revenue, and thus profit and cash flow, still expected between quarters

Unibap's novel solution – *the brain in spacecrafts*



Unibap Space Solutions – *dual-use*

SERVICES



Unibap Remote
Access



Unibap Remote
Support



In-Orbit
Demonstration

SOFTWARE



Unibap SCOS



Unibap LOOM

Developed for **Commercial markets**
→ Adopted to **Defence applications**

HARDWARE



Unibap iX5 ADS



Unibap iX10 ADS



Unibap iX5-106



Unibap iX10-102

Track record – orders, deliveries and launches

Q7 COMPUTE BOARDS

In space: >50 units launched in 2016-2023

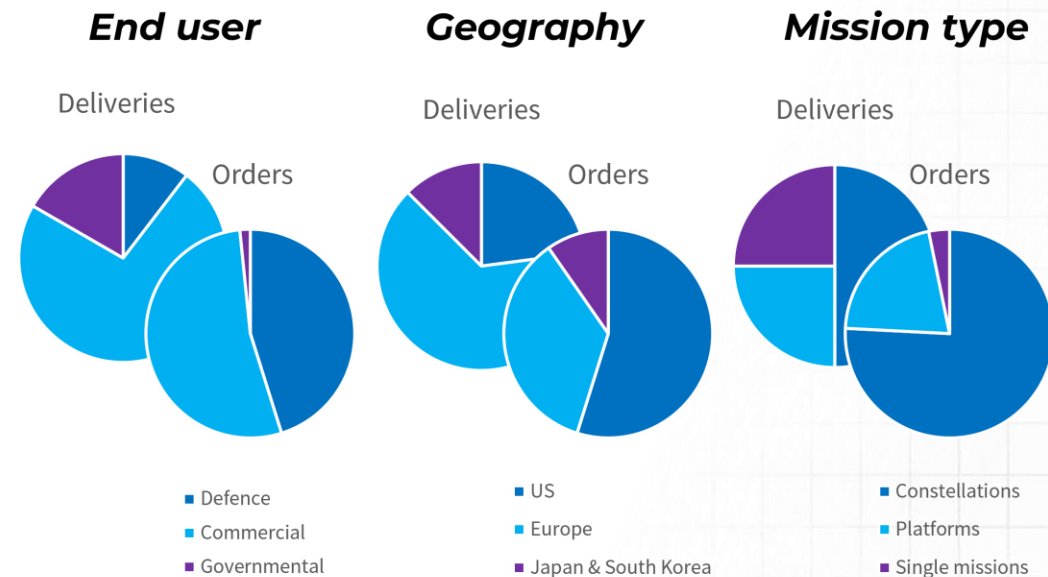
iX5 & iX10 EDGE COMPUTERS

Delivered: 79 units between 2020-2024
- 24 engineering models (EMs)
- 55 flight models (FM)

In space: 9 units of iX5 – first flight in 2021

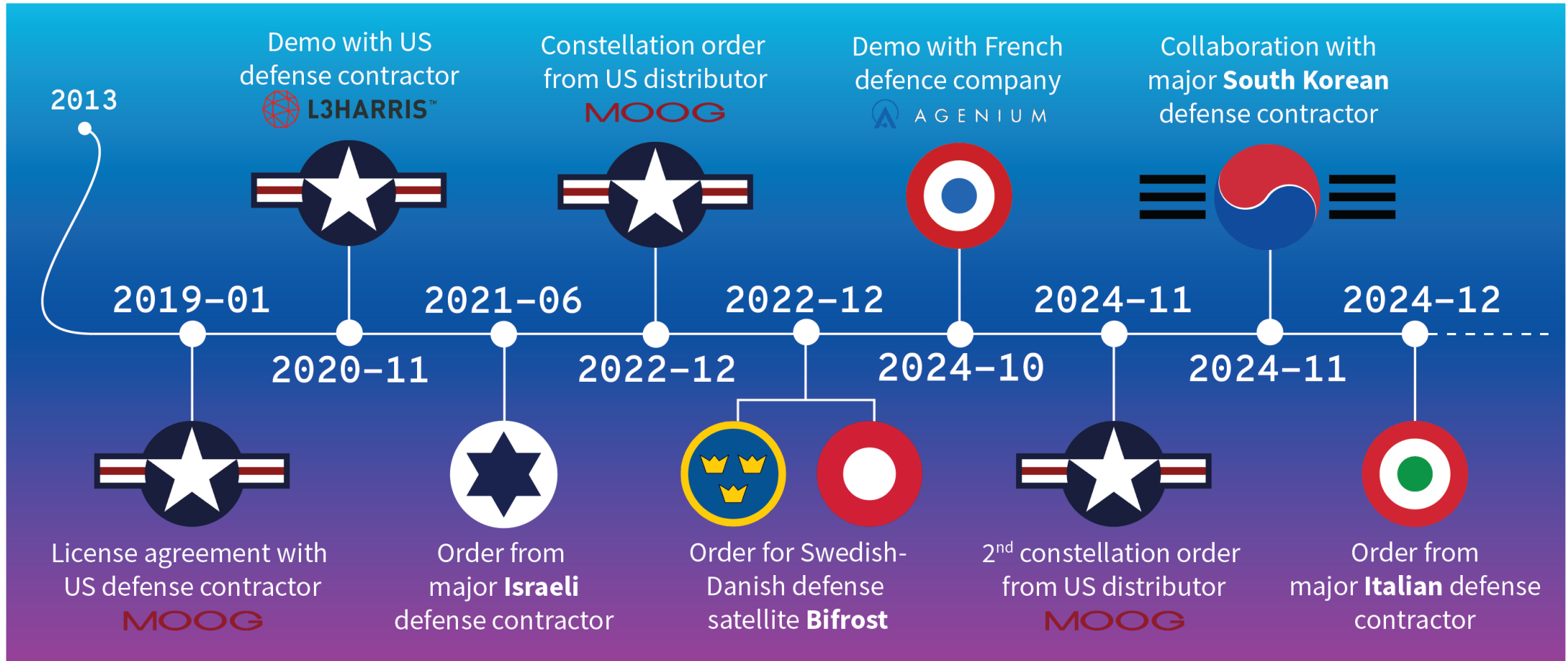
To be launched: >30 units in 2025 (mix of iX5 and iX10)

2024 STATISTICS



102 MSEK order intake in 2024 (approx. +100%)
Growing US fraction
Growing Defence fraction
3 constellation projects (+2)

Defence projects



New Space Defence and Emergency paradigm

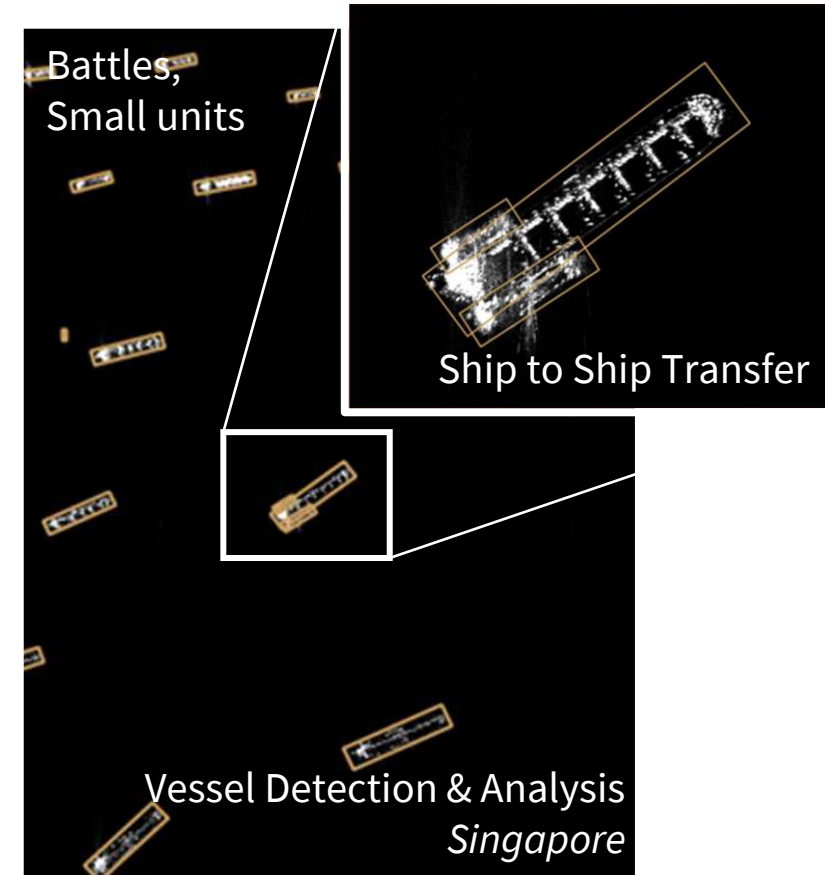
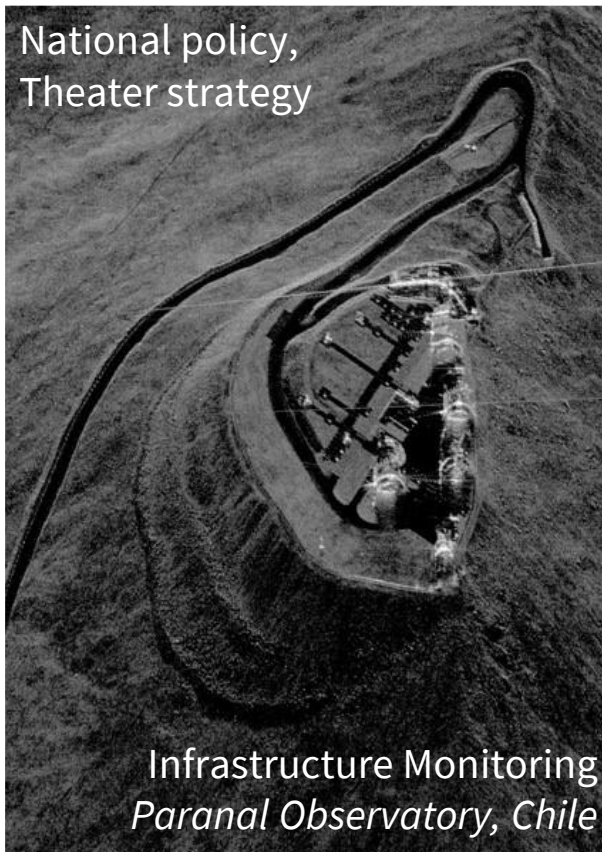
Strategic



Operational



Tactical



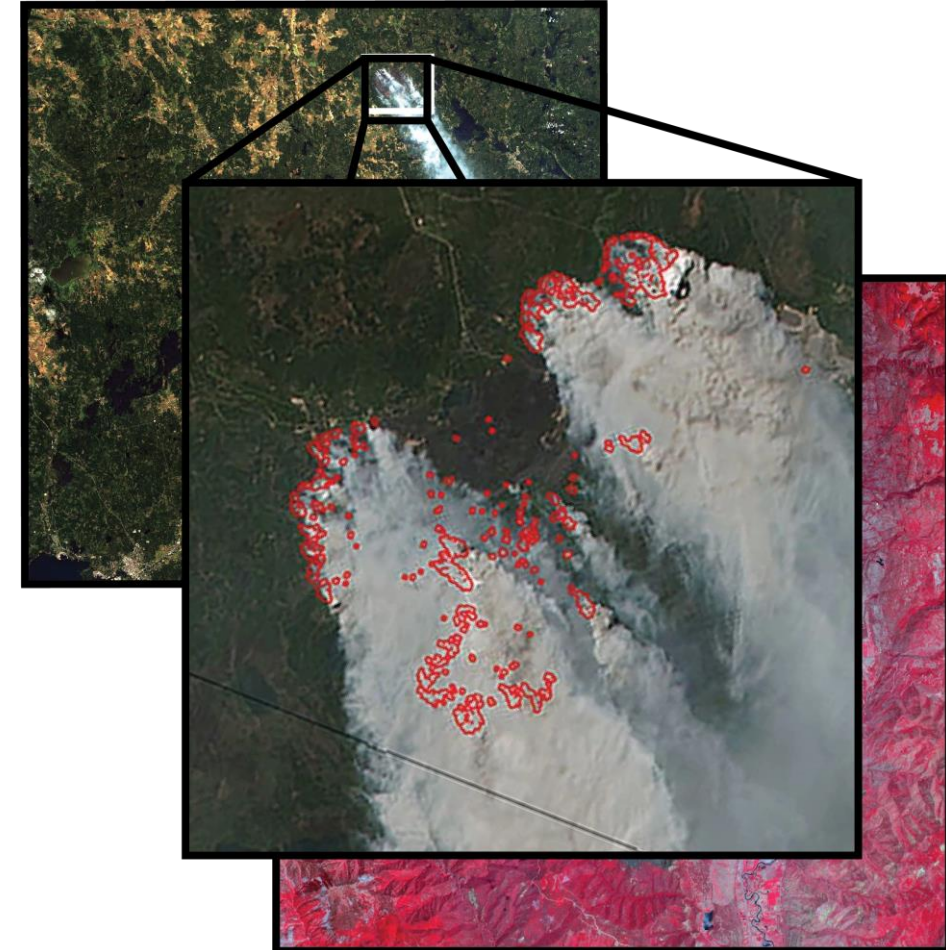
Real-time Emergency response

- **TRADITIONAL:** Imaging mode #1
 - *Low resolution VIS used to look for signs of forest fires*



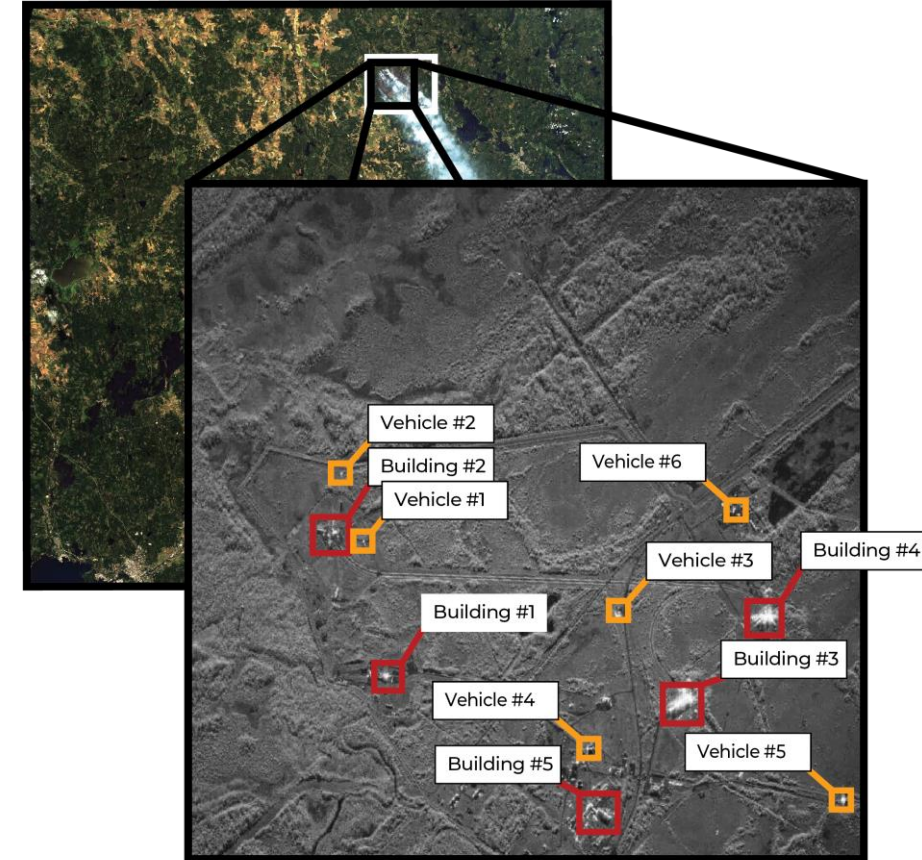
Real-time Emergency response

- Imaging mode #1
 - *Low resolution VIS used to look for signs of forest fires*
- **COGNITIVE:** Detection triggers high resolution sensors
- **MULTI-SENSOR:** Imaging mode #2
 - *High resolution VIS and IR cameras are used to identify the active foci of the fire*



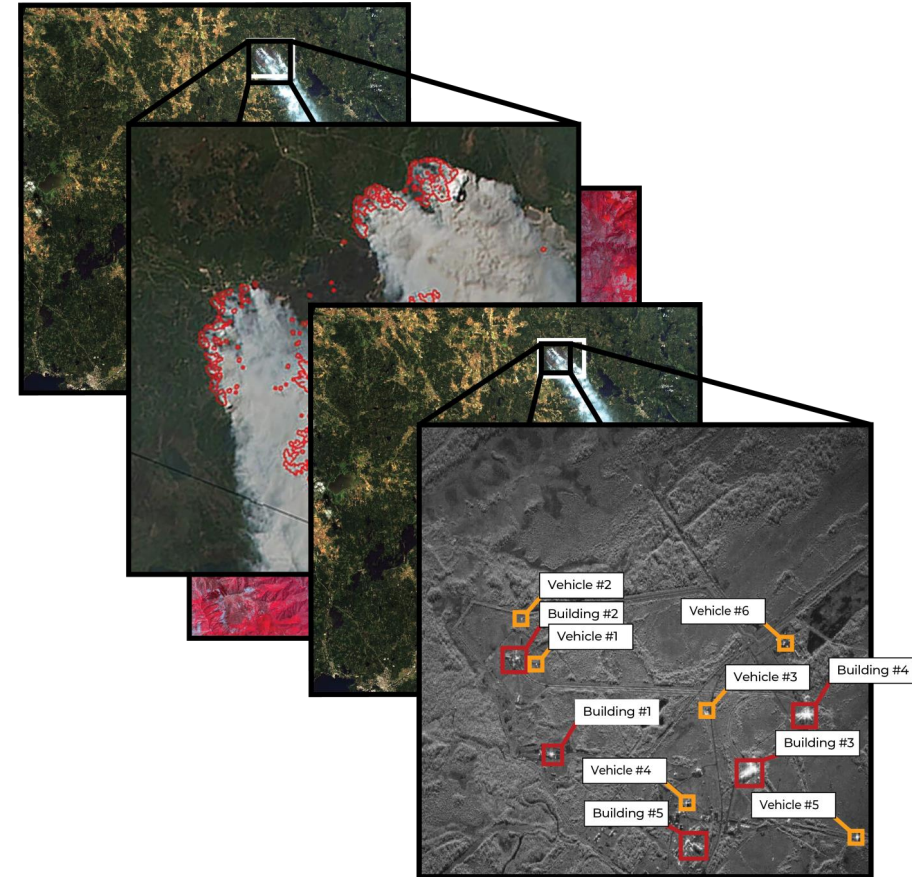
Real-time Emergency response

- Imaging mode #1
 - *Low resolution VIS used to look for signs of forest fires*
- Detection triggers high resolution sensors
- Imaging mode #2
 - *High resolution VIS and IR cameras are used to identify the active foci of the fire*
- **ADVANCED SENSOR:** Imaging mode #3
 - *SAR radar is used to identify all buildings and vehicles in the affected area*
- **REAL-TIME INSIGHTS:** AI/ML applications
 - Identification of critical objects

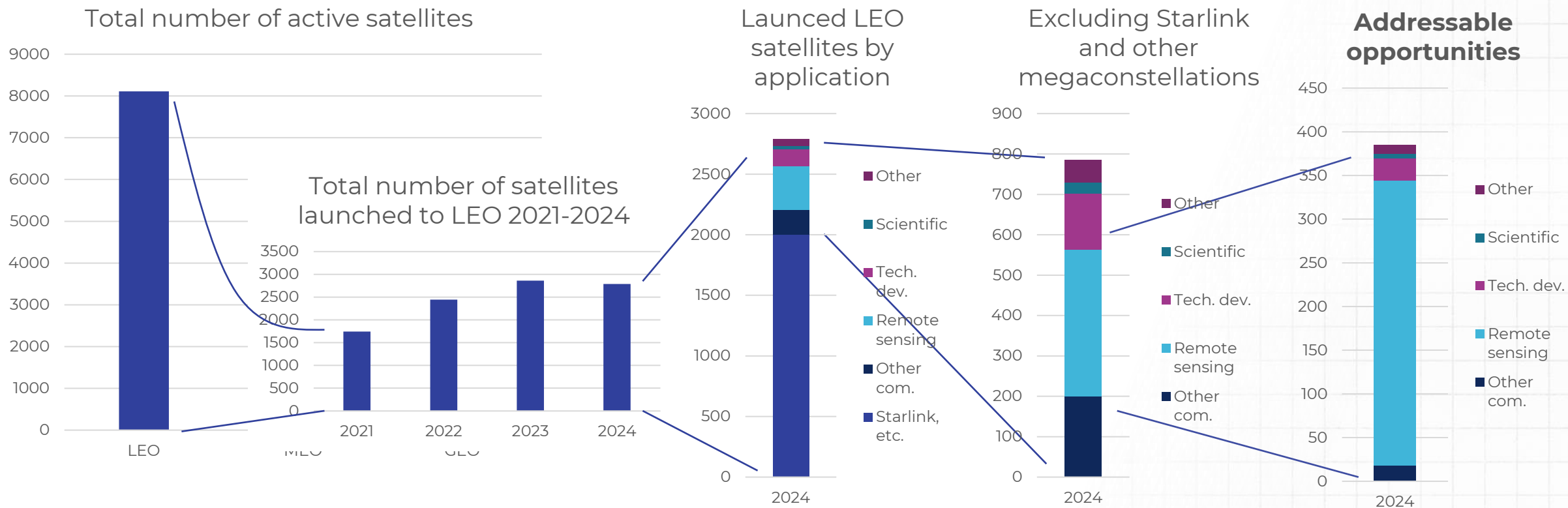


Real-time Emergency response

- Raw data:
 - **Type:** *Disperse and difficult-to-interpret raw data*
 - **Size:** *>100 GB*
 - **Latency:** *Hours to days to downlink*
- Downlink:
 - **Type:** *Map polygons of active fire foci. Coordinates of buildings and vehicles in the risk area.*
 - **Size:** *~100 kB*
 - **Latency:** *Seconds over Real-time connection via GEO*

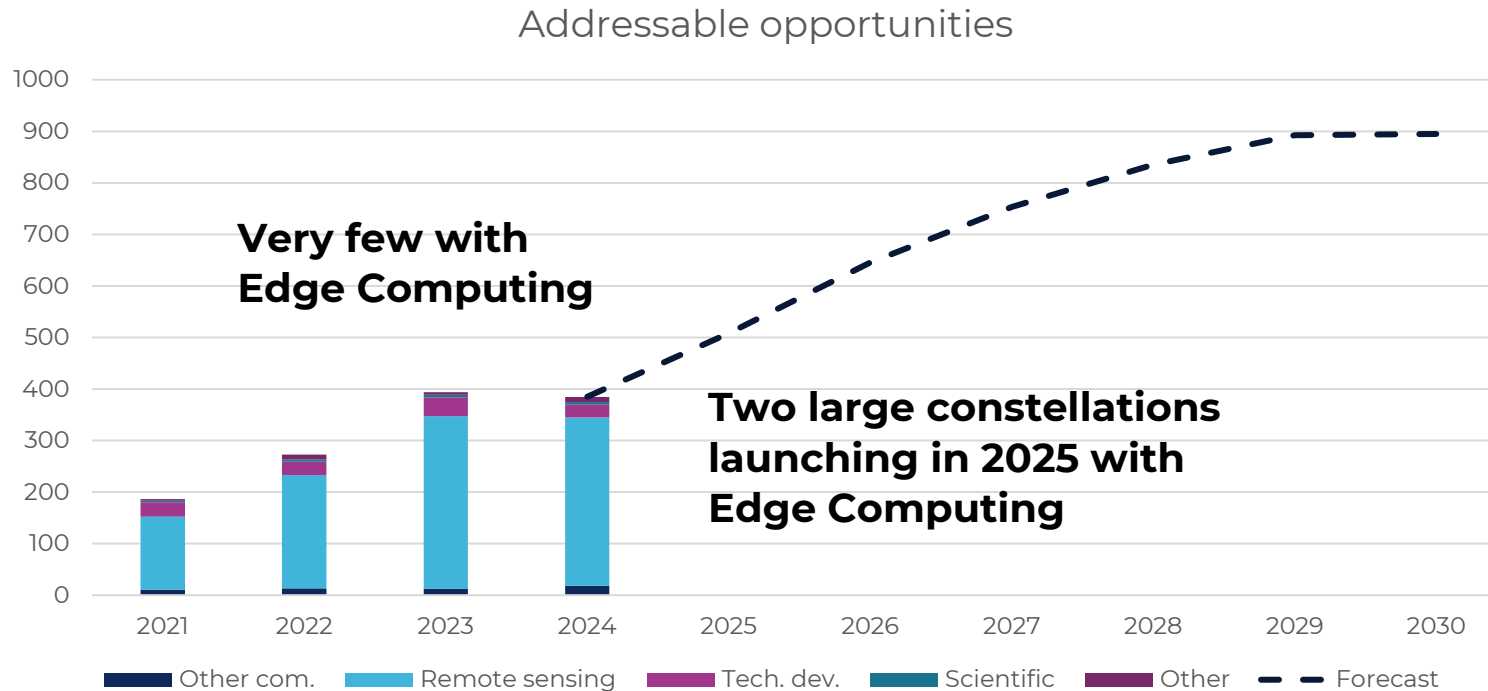


Market overview



Reference: Smallsats by the numbers 2021, BryceTech, Smallsats by the numbers 2022, BryceTech, Smallsats by the numbers 2023, BryceTech, Smallsats by the numbers 2024, BryceTech, Smallsats by the numbers 2025, BryceTech,

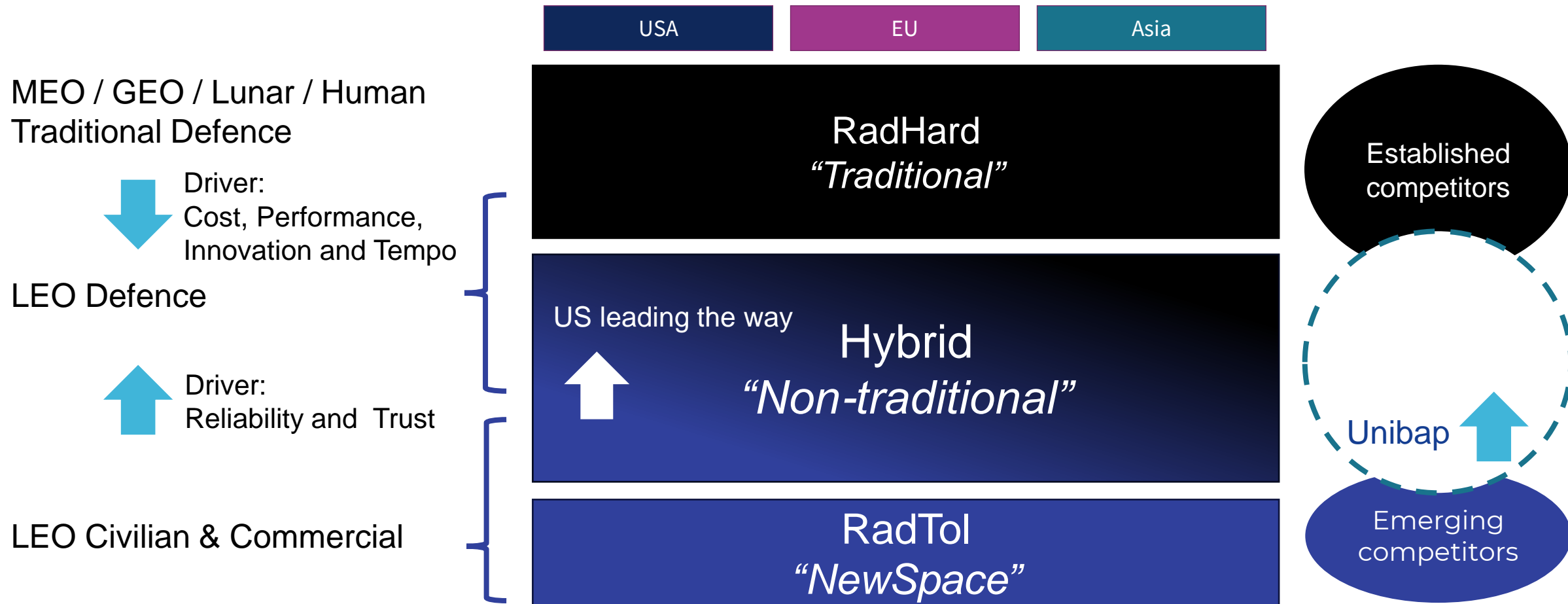
Market forecast



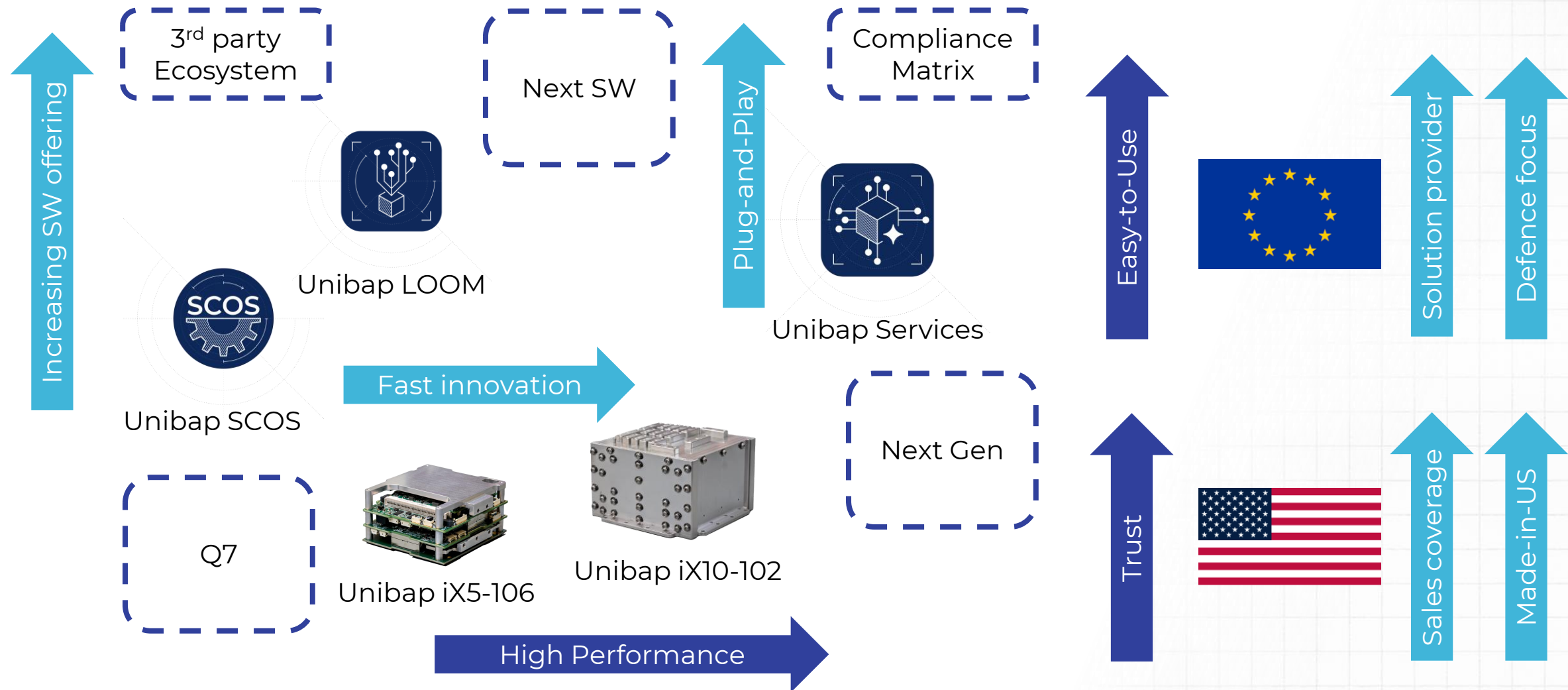
Reference: Smallsats by the numbers 2021, BryceTech, Smallsats by the numbers 2022, BryceTech, Smallsats by the numbers 2023, BryceTech, Smallsats by the numbers 2024, BryceTech, Smallsats by the numbers 2025, BryceTech, Managements own assessment.

- Market opportunity:
 - Most relevant satellites do not use Edge Computing yet
 - US market >5x Europe
- Short-term growth driven by:
 - Adoption of Edge Computing
 - European demand for sovereign space assets
 - Commercialization of Earth observation data
- Long-term market consolidation driven by:
 - Mega constellations going from building to maintenance
 - Problems with crowded orbits and space debris

US leading the way



Our strategy – Innovation & Trust – focused on Growth



Ambitions in 2025



TECHNOLOGY MATURITY

- *More than 30 launches planned*
- *First stand-alone SW in space*
- *Reach TRL9 for iX10*



BUSINESS DEVELOPMENT

- *Capture Qualification Projects*
- *Convert into Constellation Projects*
- *Expand US operations*
- *Leverage European awakening*



OPERATIONAL READINESS

- *Build redundancy*
- *Maintain >100 units/year capacity*



FINANCIAL IMPROVEMENT

- *30-50% average annual mid-term revenue growth*
- *>30% revenue growth in 2025*

Mix shifts over the next years – driven by strategy

Offering	Subcategory	Historical mix	Expectation	Gross margin ambitions	Expected shifts in mix
Services	Engineering	Dominant	Smaller	20-40%	Standard Products reduce Customization Services
	Support	Small	Increasing	20-40%	
Hardware	Engineering (EM)	Even	Smaller	60-80%	
	Flight (FM)	Even	Dominant	70-85%	Constellation Projects increase FM content
Software	Embedded	N/A (included in HW)	Increasing	95-100%	New SaaS license model introduced
	Applications	N/A	Over time	95-100%	Gradually expanding portfolio



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COMMERCIAL

DEFENSE



Earth observation

USE CASE

Surveillance

Maximized asset utilization

CHALLENGE

High-resolution sensors

Less value



Increased latency

Software defined satellites

DOWNLINK

BOTTLENECK

SOLUTION

Real-time intelligence from space

Refined downlink data, wider customers base & continuous mission upgrades

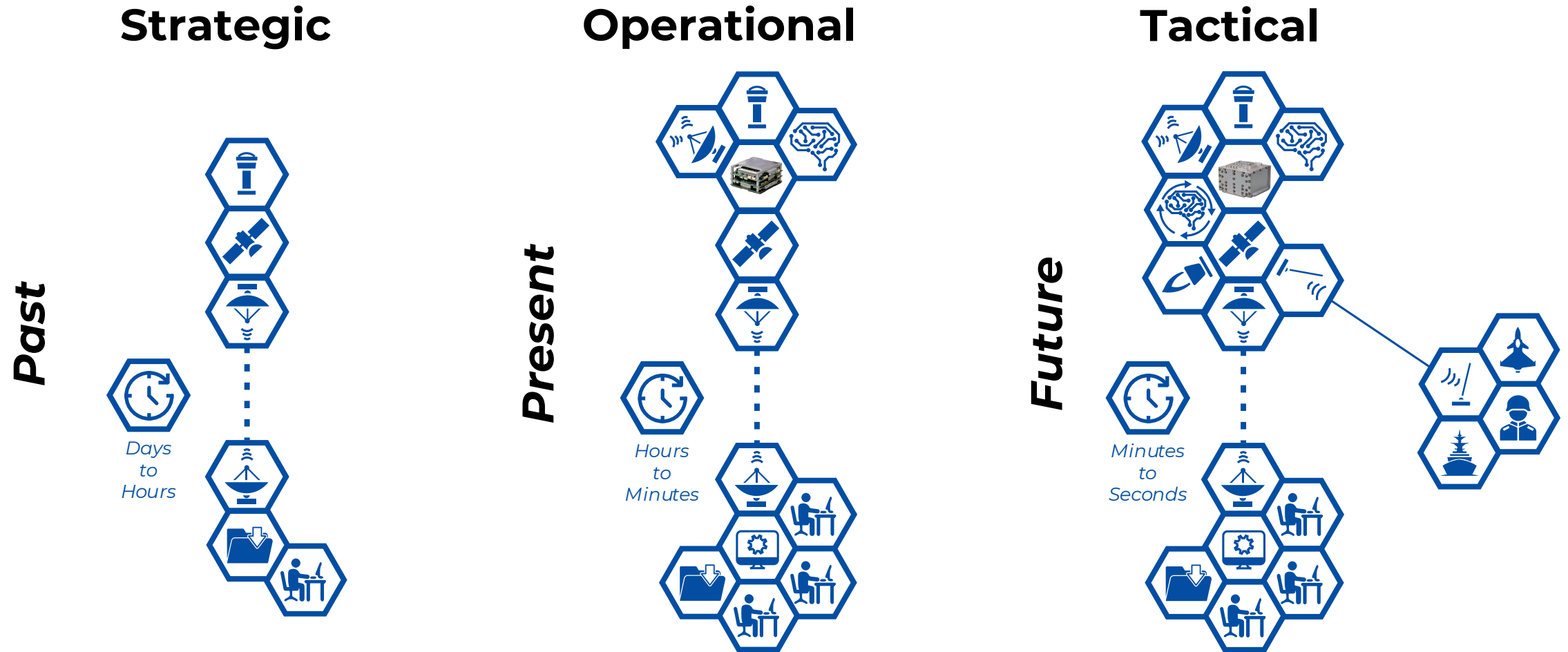


BENEFIT



Direct tasking & distribution of tactical insights

Defence concepts – “*latency is the new resolution*”



Synthetic-aperture radar (SAR)

SAR raw-data pre-processing pipeline

- Raw data from Copernicus' Sentinel-1A
 - *16384 x 16384 pixel images*
- *Takes ~9 s to record (~30 megapixel/s)*



Synthetic-aperture radar (SAR) → *Realtime ISR*

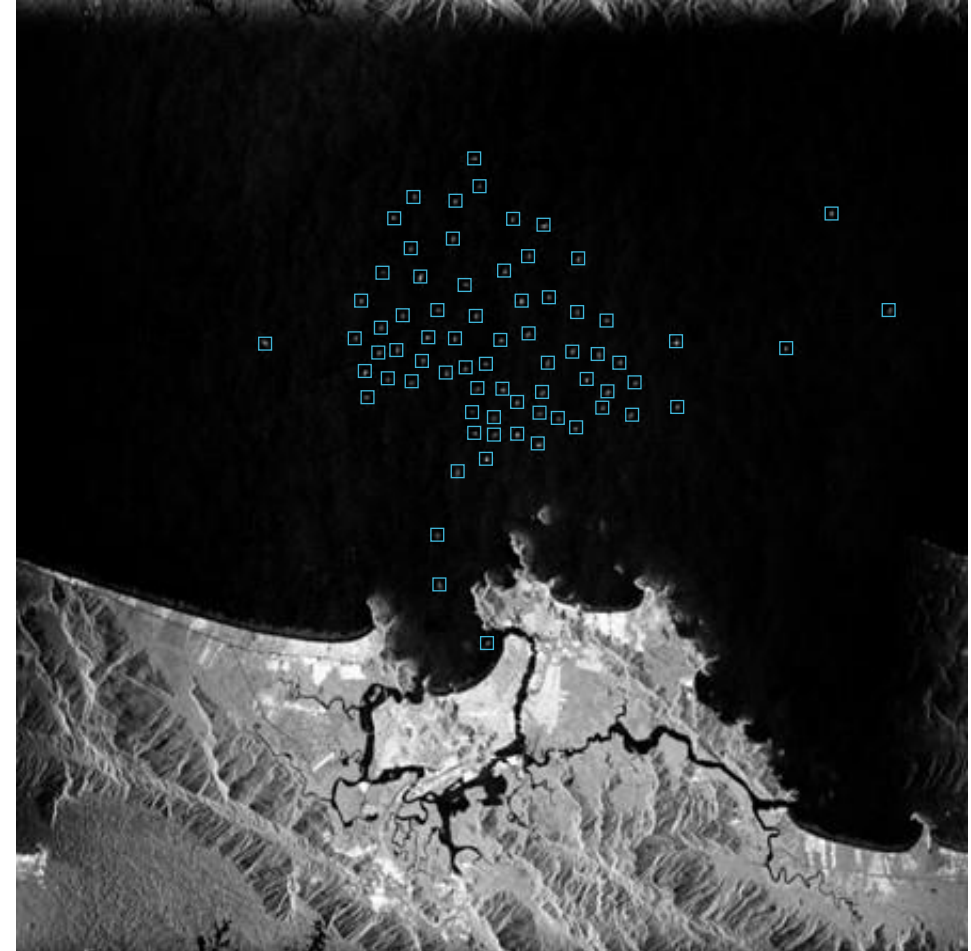
SAR raw-data pre-processing pipeline

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Prep-processing in Unibap's optimized iX10 image formation pipeline

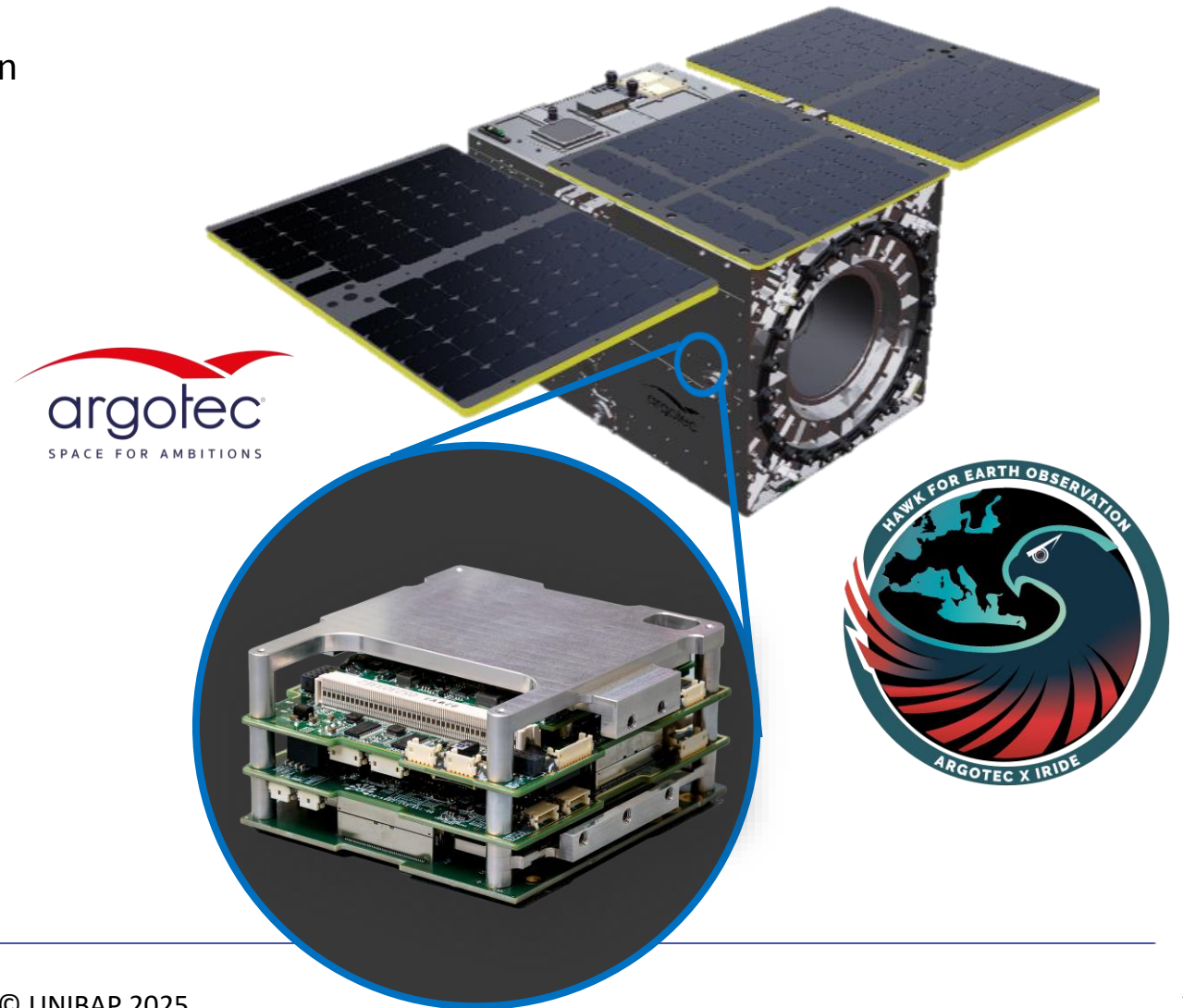
- *Takes ~3 s*
- *90 megapixel/s*

**Enables live in-orbit object detection
and cognitive SAR sensor**



IRIDE HEO – Argotec – Civilian / Commercial

- Unibap is part of the Italian **IRIDE** HEO constellation
- Up to 40 **Argotec** Hawk satellites in LEO
 - *2 h revisit time*
- Hyperspectral payload
 - *3 m resolution*
- Unibap contributes:
 - **Unibap iX5-106** edge computer
 - **Unibap SCOS** operating system
 - **Unibap Loom** pre-processing pipeline
- First launch in early 2025
- **25 operational satellites** in 2026



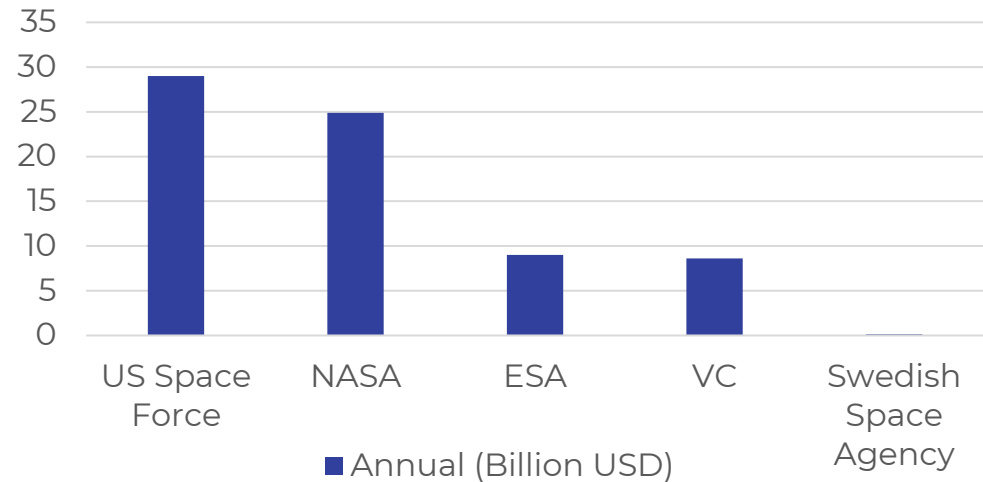
IRIDE HEO – Argotec – Civilian / Commercial

- Edge computing opportunities on IRIDE
 - Compression and condensation of gathered information
 - Longer sensor **uptime** before filling storage/downlink
 - Increased sensor **utilization**
 - Larger **land-coverage** per orbit
- Software defined missions
 - **Multiple** users per satellite
 - **Tailored** end-user data products over different areas at different times
 - Improved spatial and temporal **monetization** of space asset
 - “Over-the-air” updates for continuous enhancements and customer acquisition throughout **asset lifecycle**



The new Space Race

- The US Space Development Agency (SDA)
 - *US Space Force's tech development agency*
 - *Hypersonic missile tracking from space*
 - *Average 100 satellites per year*



- Disruptive procurement process

Buying services with clear end-users...

2 y development cycles...

Every new batch better than the last...

Standard products off the shelf...

New suppliers...

...rather than...

...rather than...

...rather than...

...rather than...

...rather than...

...projects with opportunistic value

...15 y long projects

...re-using proven technology

...custom made tech for every mission

...relying on old

The new Space Race

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Buying services with clear end-users...

2 y development cycles...

Every new batch better than the last...

Standard products off the shelf...

New suppliers...

...and we offer...

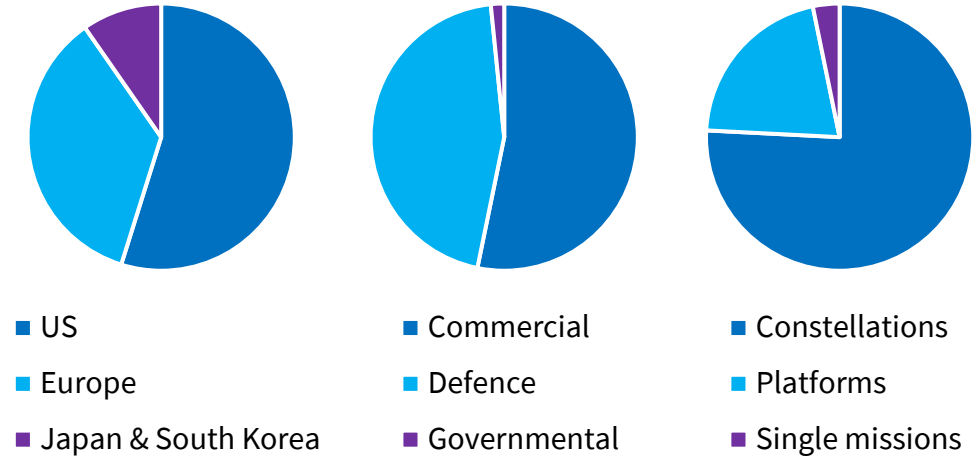
...and we provide...

...and we focus on...

...and we deliver with...

...and we are...

Unibap order statistics 2024



*...market thought **leadership***

*...fast and effective **innovation***

*...rapid adoption of terrestrial **technology***

*...1 month **leadtime***

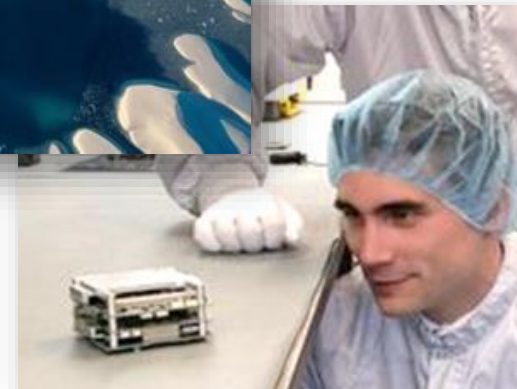
*...already delivering to the **US defence***

Bifrost – *On-orbit AI surveillance*

Nordic defence collaboration for spaceborne marine surveillance

- Ordered by **Swedish** and **Danish** defence materiel administrations
- Demo satellite for **in-orbit AI inference**
- Advanced **image** and **signal analysis**
- **Marine surveillance** in the Arctic

Unibap has delivered the **edge computer** and will support **software development**



Bifrost – On-orbit AI surveillance

