



Partners in Resilience:

Commercial SAR for Spanish Earth Observation

Classification

Umbra Public

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Prepared By

Kyle McCloud, Commercial Program Manager

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Agenda

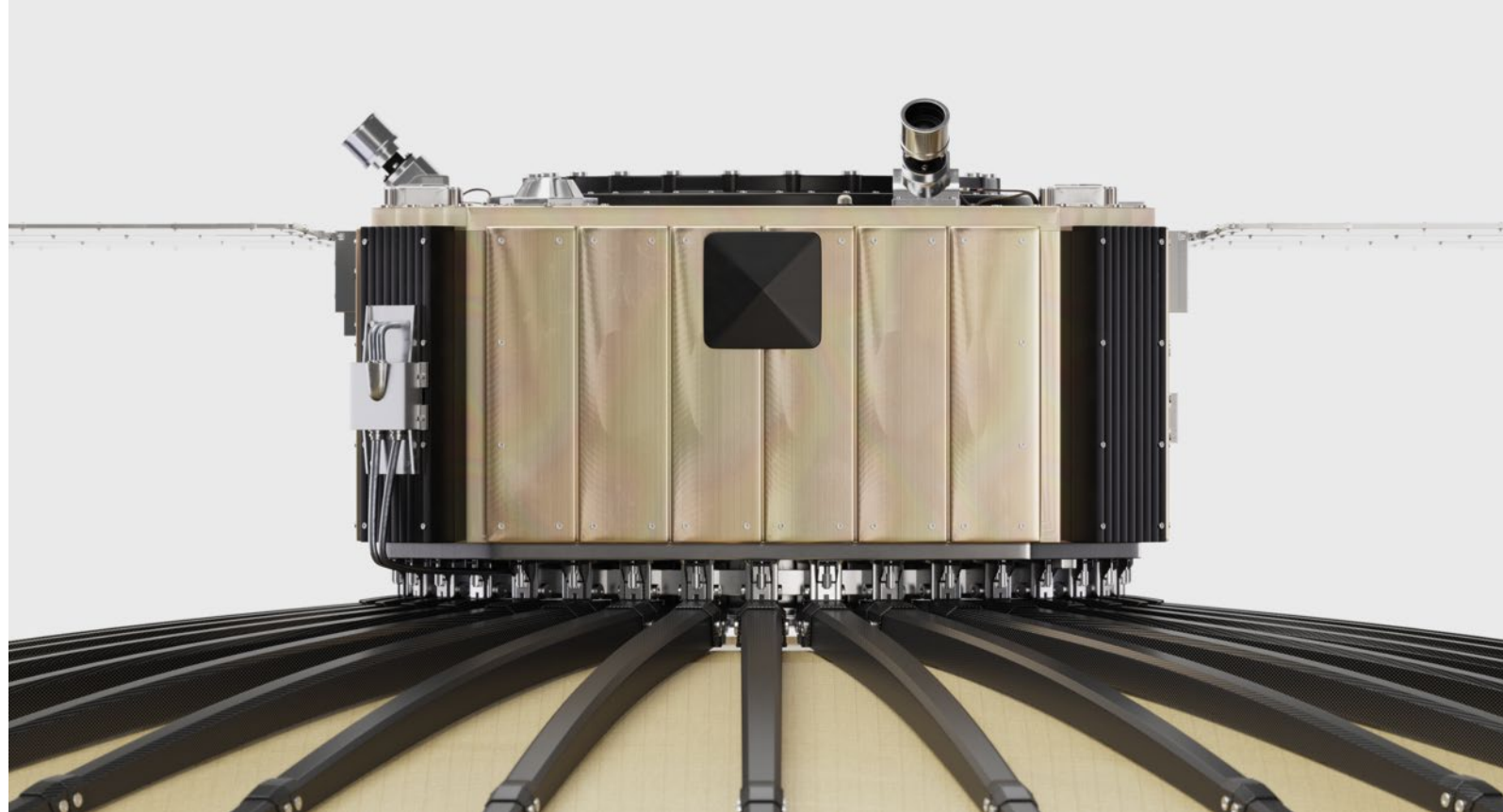
Umbra at a glance

Engineering for resilience: Our Architecture

Resilience in mission: Why SAR, Why Now

Partners in resilience: Building European Partnerships

The road ahead



Umbra-At-A-Glance

Mission-Aligned. Capability-Driven. Customer-Focused.



Founded & led by engineers from the U.S. national security community

- Decades of hands-on experience as engineers and program managers designing and flying space systems for critical national security missions.



Exporting proven U.S. technology to equip America's allies

- After a decade honing our craft in the most competitive market in the world, Umbra is expanding internationally with the backing of the U.S. to support our global allies



Vertically integrated to drive speed, cost, and scale

- Umbra's 70,000 sq ft of manufacturing space in two manufacturing hubs in the United States enables delivery of 40+ satellites per year



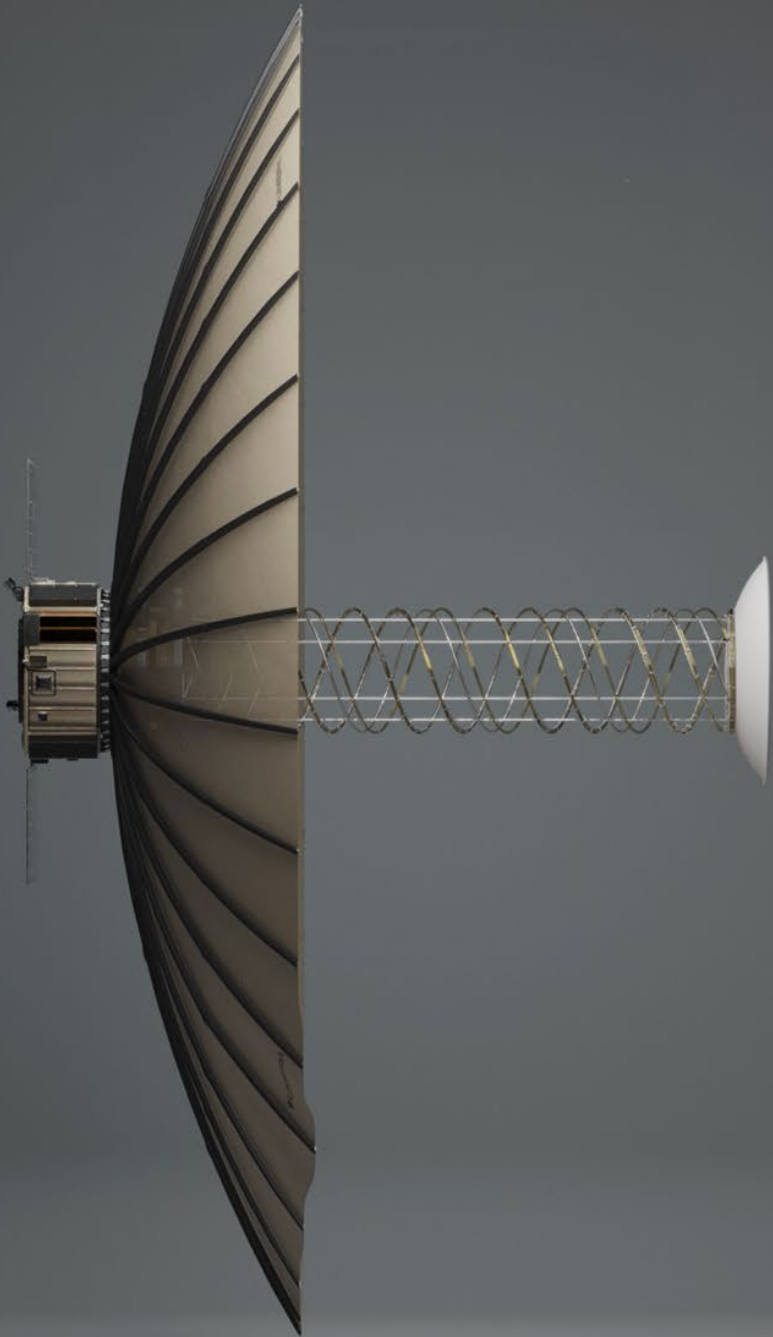
Redefining what is possible with Synthetic Aperture Radar (SAR)

- Umbra's next-gen systems, launching in 2028, will set a new standard for quality, revisit, latency, and resilience.



By 2030, Umbra Will Provide Customers the Highest-Persistent Intelligence Imagery
Ever Offered Commercially

Engineering for Resilience



Coverage

Resolution

Cost

Parabolic Mesh Reflector

Umbra

Wider

Wide-area access with fewer satellites

Superior

Large effective aperture enables superior resolution

Lower

Lower cost—mechanically simpler to manufacture

Resilience in Mission

Dyagilevo, Airfield | 50cm | 4x-Multilook



Resilience to weather

All-weather, day-night, cloud-penetrating. SAR keeps working when optical can't. And most of the time, optical can't.



Resilience through coverage

Modern mesh antenna delivers wide-area access with fewer satellites. More imagery, more revisit, fewer gaps across European areas of interest.



Resilience of access

Sovereign-friendly tasking through trusted partners. Access designed for European missions, not retrofitted to them.

Partners in Resilience

How Umbra partners with European space ecosystems to serve sovereign missions

UMBRA BRINGS

- The constellation and the data quality
- Responsiveness and tasking flexibility
- Architecture built for resilience
- Technical roadmap and continuous capability investment

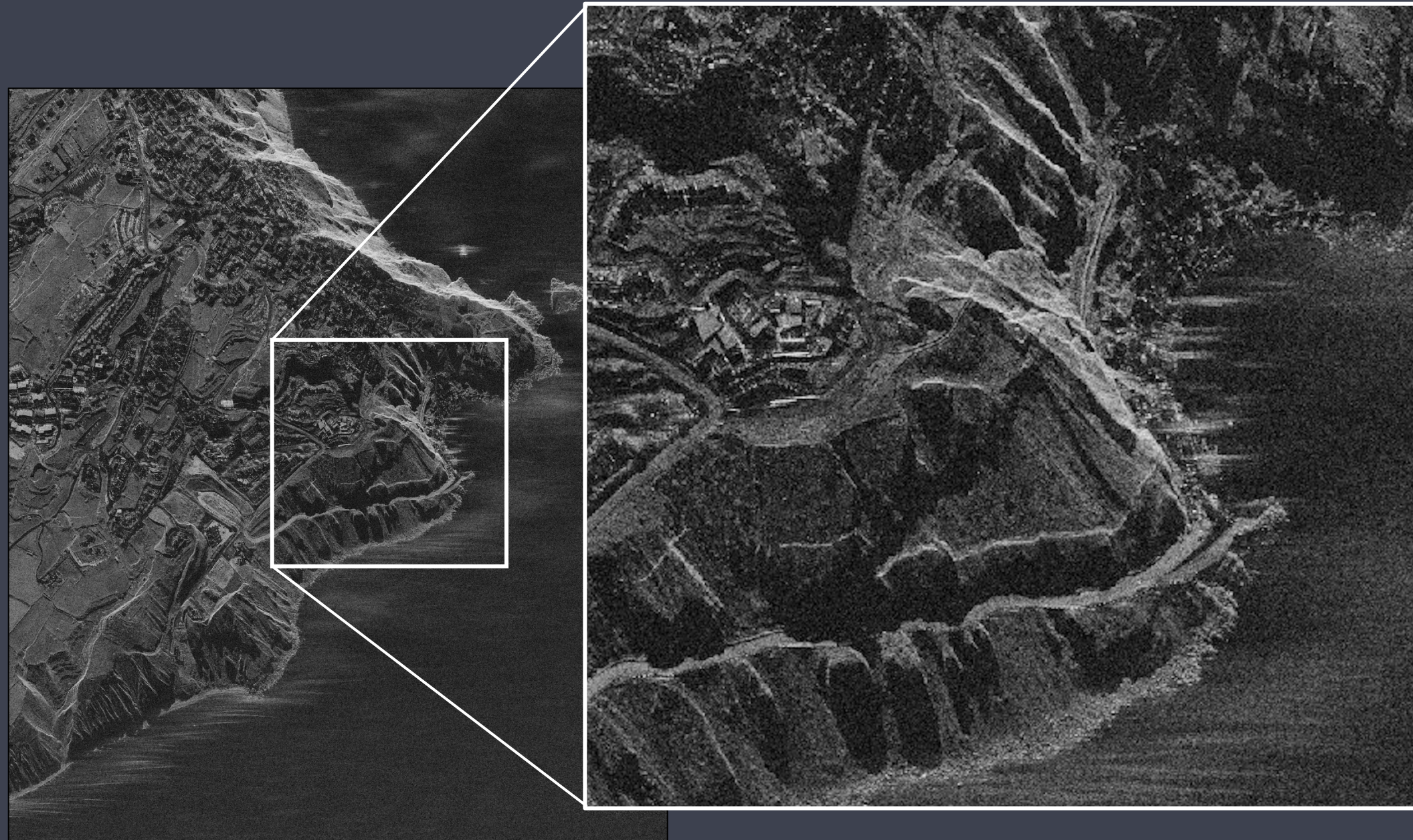
OUR PARTNERSHIP MODEL

- Trusted regional partners for sovereign access
- Tasking pathways integrated with national workflows
- Support for defense, civil, and commercial missions

FOR SPAIN: An opportunity to build a commercial SAR partnership that fits Spanish missions, Spanish workflows, and Spanish sovereignty requirements."

What This Enables

Mission applications relevant to Spanish Earth Observation priorities

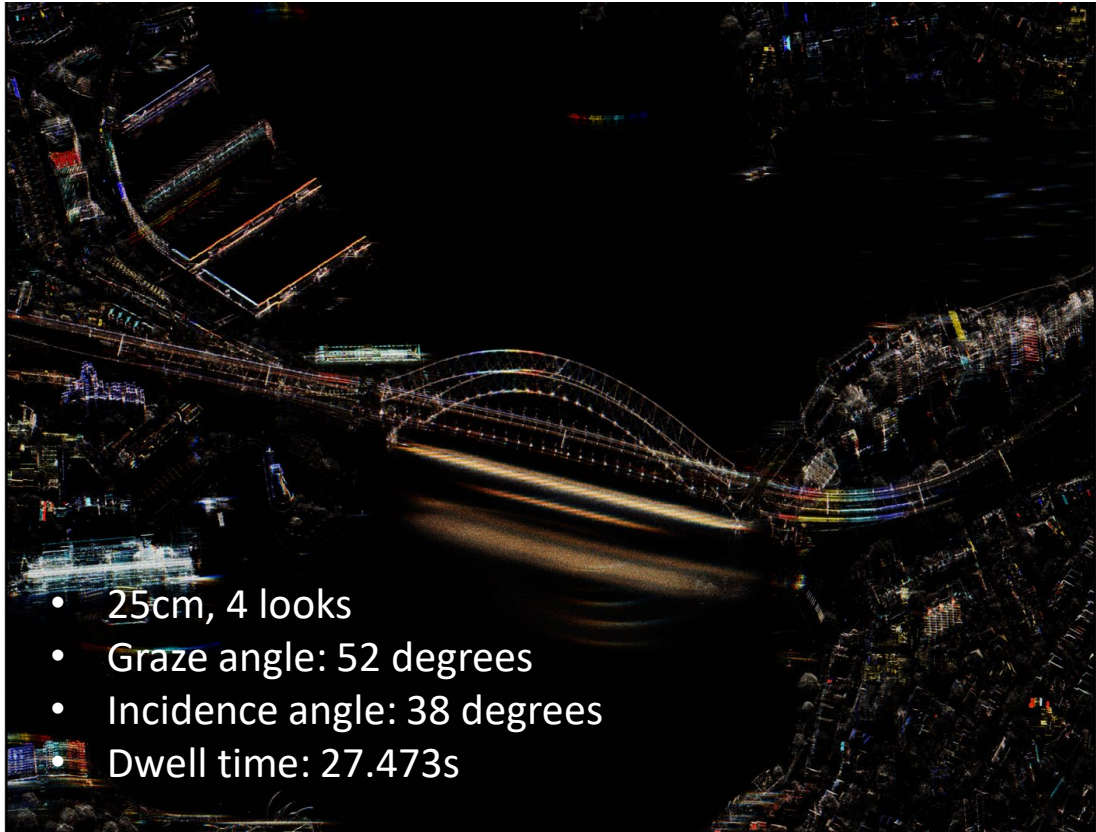
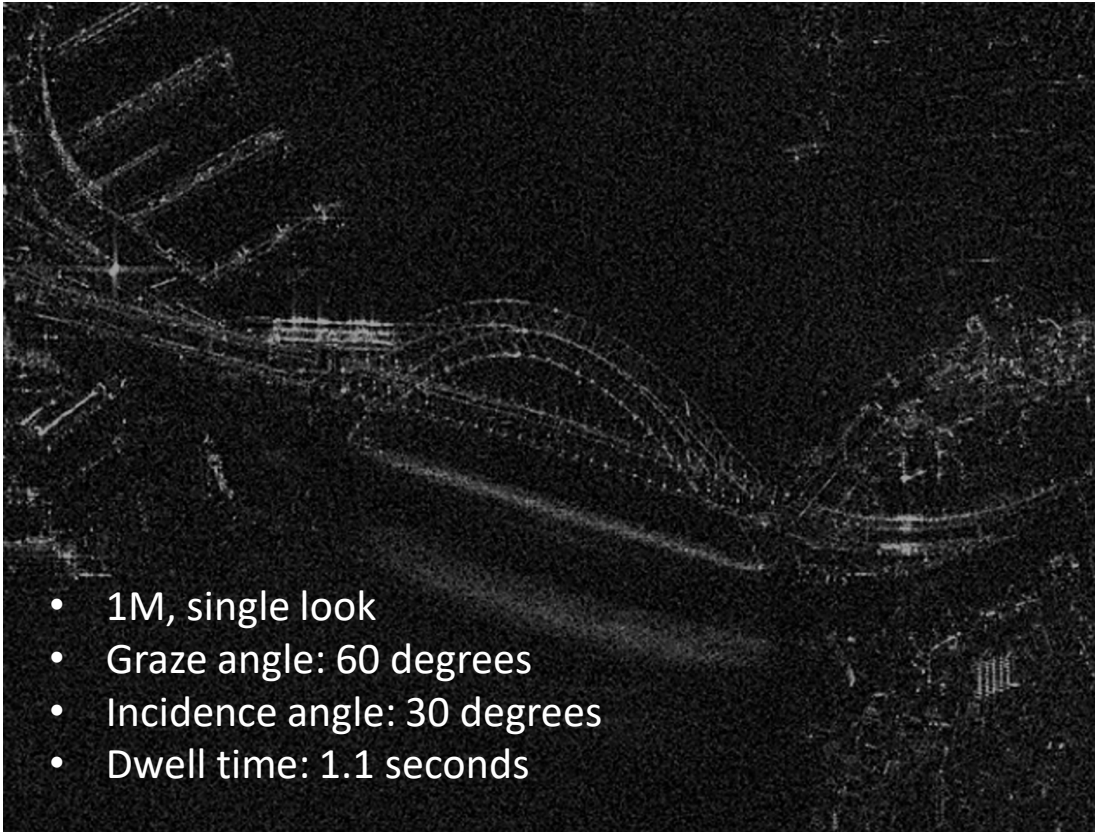


- Defense & Intelligence
 - Persistent monitoring, change detection, and activity-based intelligence
- Maritime Domain
 - Vessel detection, dark target identification, and port monitoring across Europe
- Critical Infrastructure
 - Pipelines, ports, energy assets protected with persistent SAR
- Disaster Response
 - Rapid, all-weather damage assessment when optical systems are grounded by cloud cover or smoke

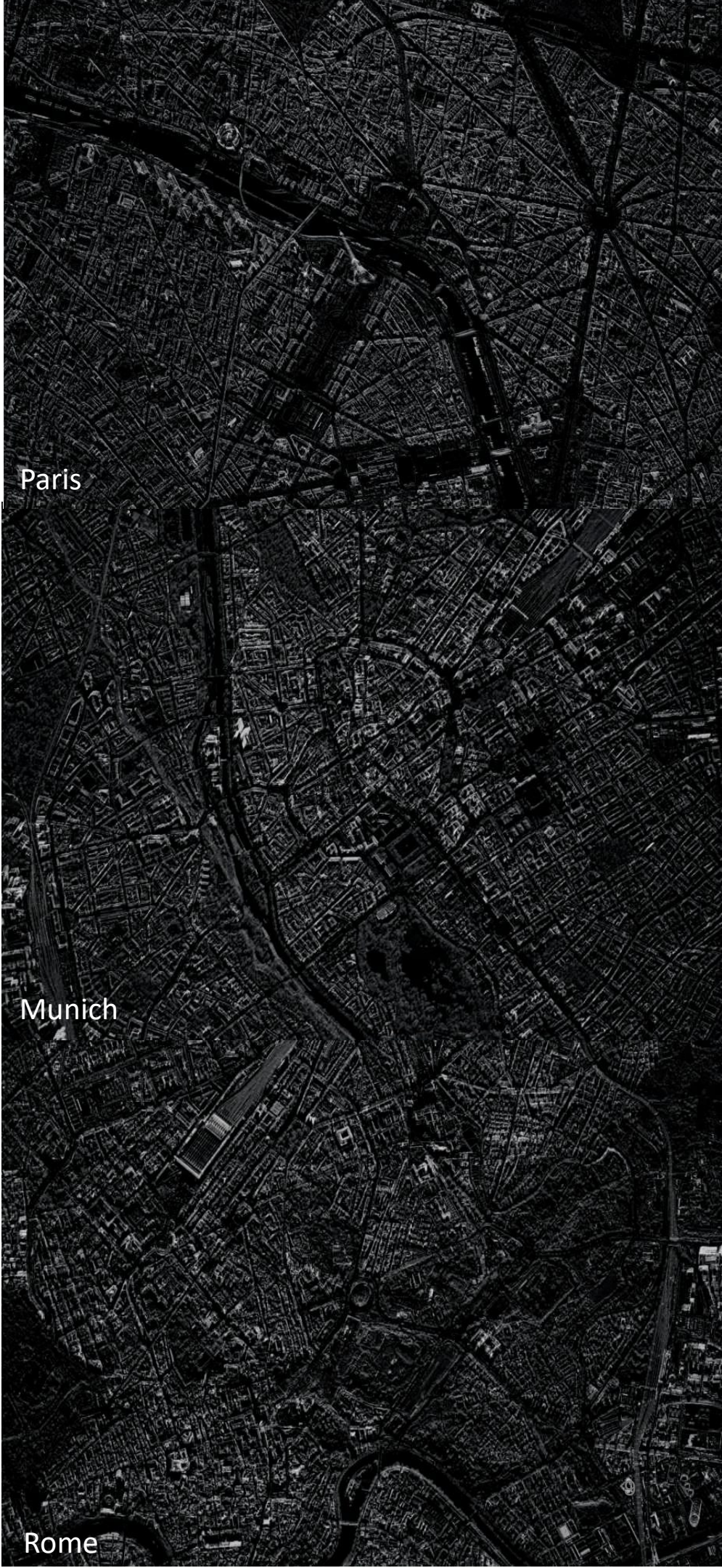


The Road Ahead

A relentless focus on advancing what's possible from space.



Next-generation systems launch in 2028. A new standard for quality, revisit, latency, and resilience.





Thank You

Kyle McCloud
Kyle.mccloud@umbra.space
Cell/Signal: 805-453-0835