

Defence in Space 2024

Joe Apa
Vice President of Sales, EMEA

About Us



Founded in March 2022



Headquartered in Munich, Germany



Growing, international team



Building the Rivada outernet



Defence, Security, Enterprise, Maritime,
Aviation





Low Earth Orbit (600 satellites)



Ultra low latency



1050km altitude



MPLS in the sky



Ka Band



High security



Gateway-less architecture



Data sovereignty

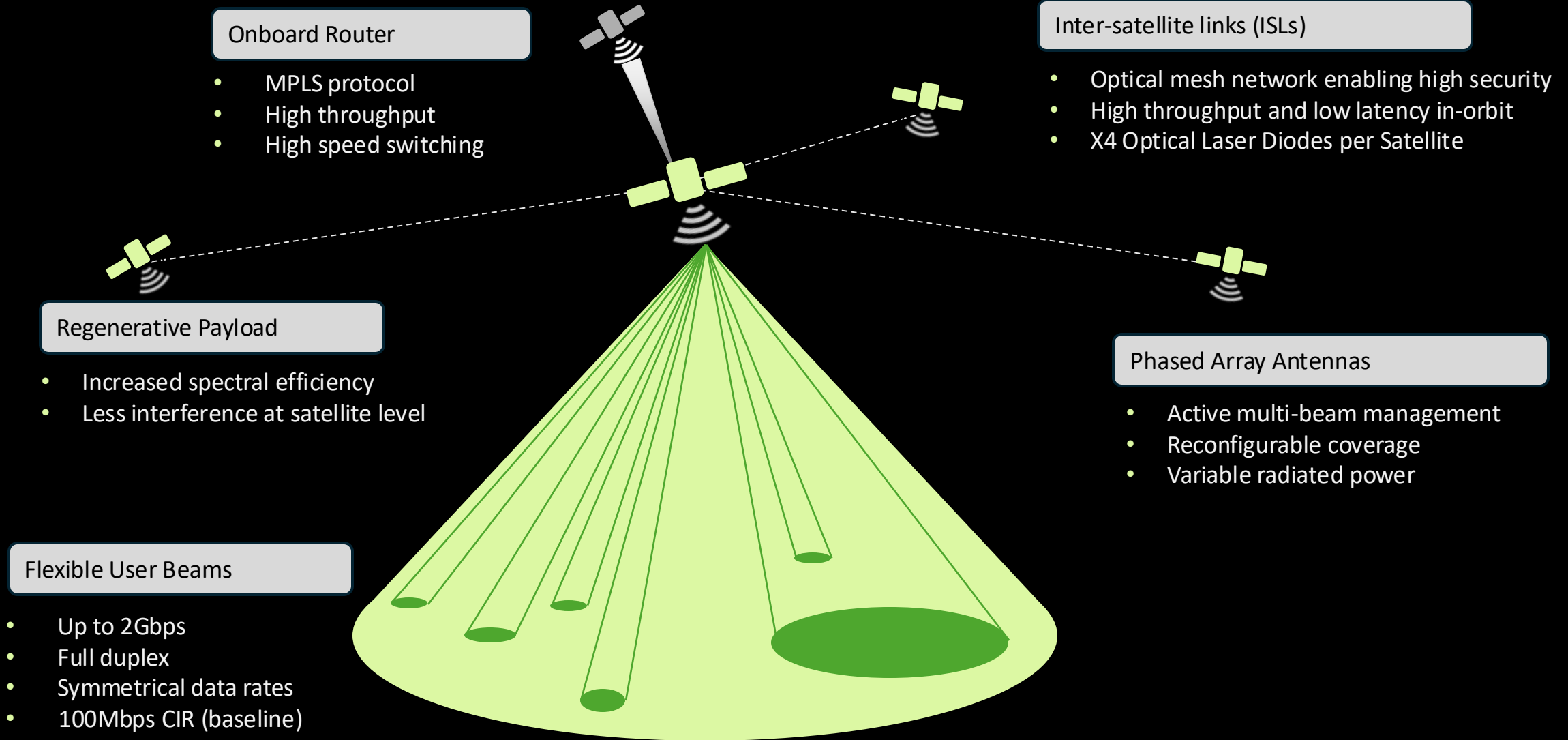


Symmetrical high throughput



Pole to pole coverage







The Outernet

Market Access

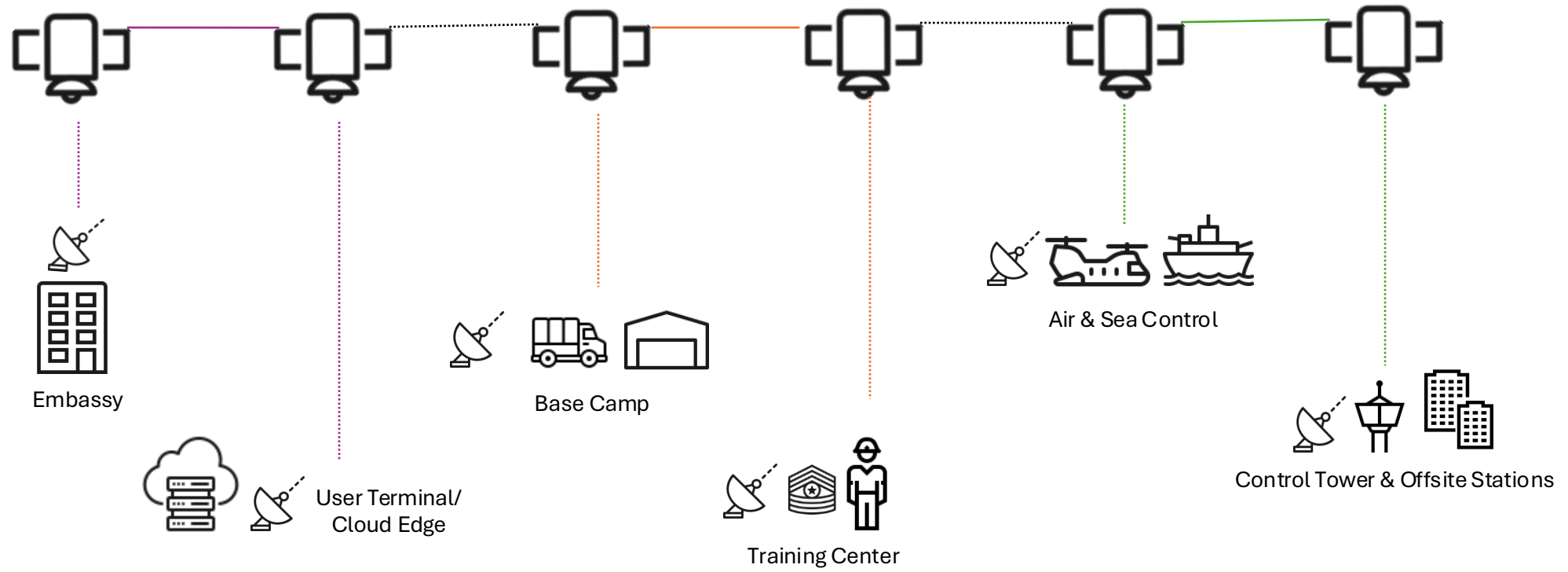
- Taking ownership ahead of launch
- Licenses already in place
- Phased approach

MEF Standards

- Carrier Ethernet grade
- MEF CE3.0 certified
- Seamless integration (Common standards, API's)

Our Gateway-less Architecture

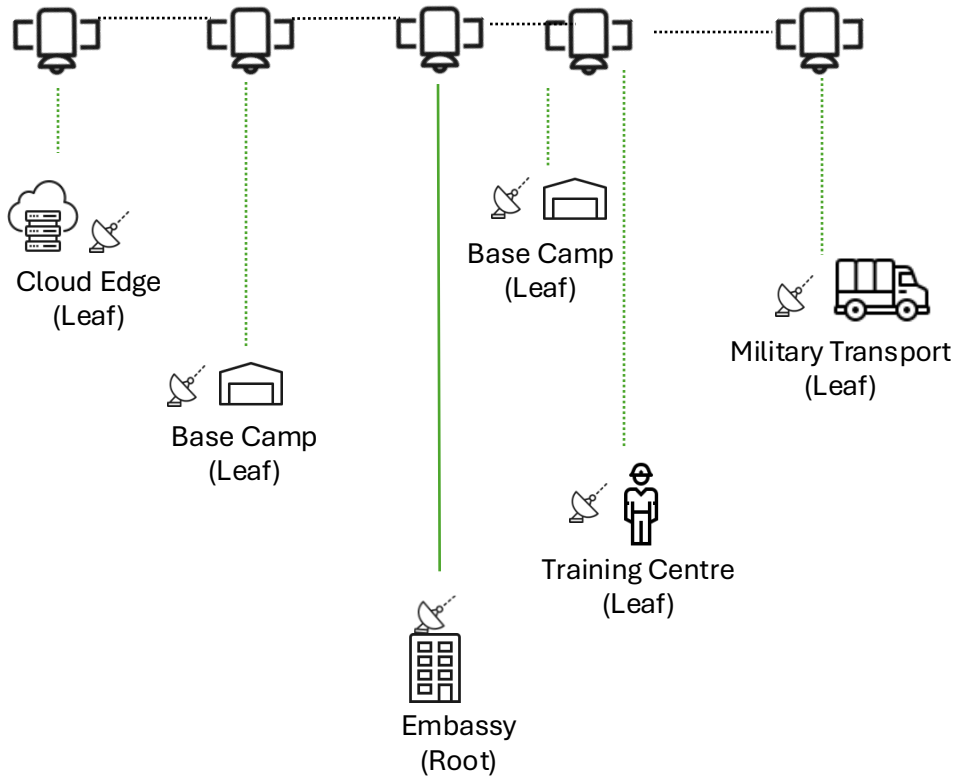
Point to Point Network
Without Gateways
(E-Line)



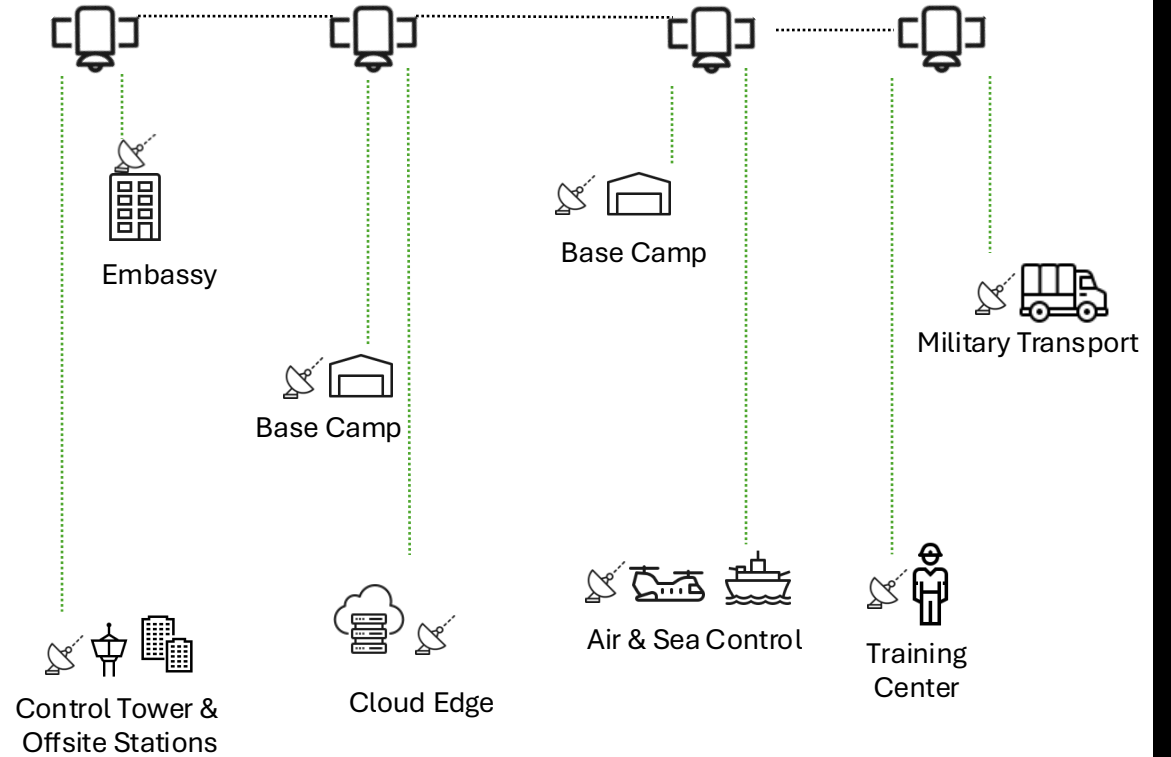
Gateway-less architecture

Other topologies

Point to Multipoint Network
(E-Tree)



Multipoint to Multipoint Network
(E-LAN)



User Terminals

Approach

- Working with OEMs
- Multi-vendor – for supply chain resilience and flexibility
- Proprietary modem design

User Terminal Approach

Early Service User Terminals

- Fixed commercial terminal applications
- ~60-70 cm ESA
- ~60-80 cm + ~1.0-1.2 m dual parabolic
- E-Line Carrier Ethernet Services (EPL and EVPL)

Roadmap to Expand Use Cases and Capabilities Over Time

- Mobility – Vehicle, Manpack, Maritime, Aero
- Higher capacity, tighter integration



Pre-cursor Mission (early 2025)

Orbital Formation

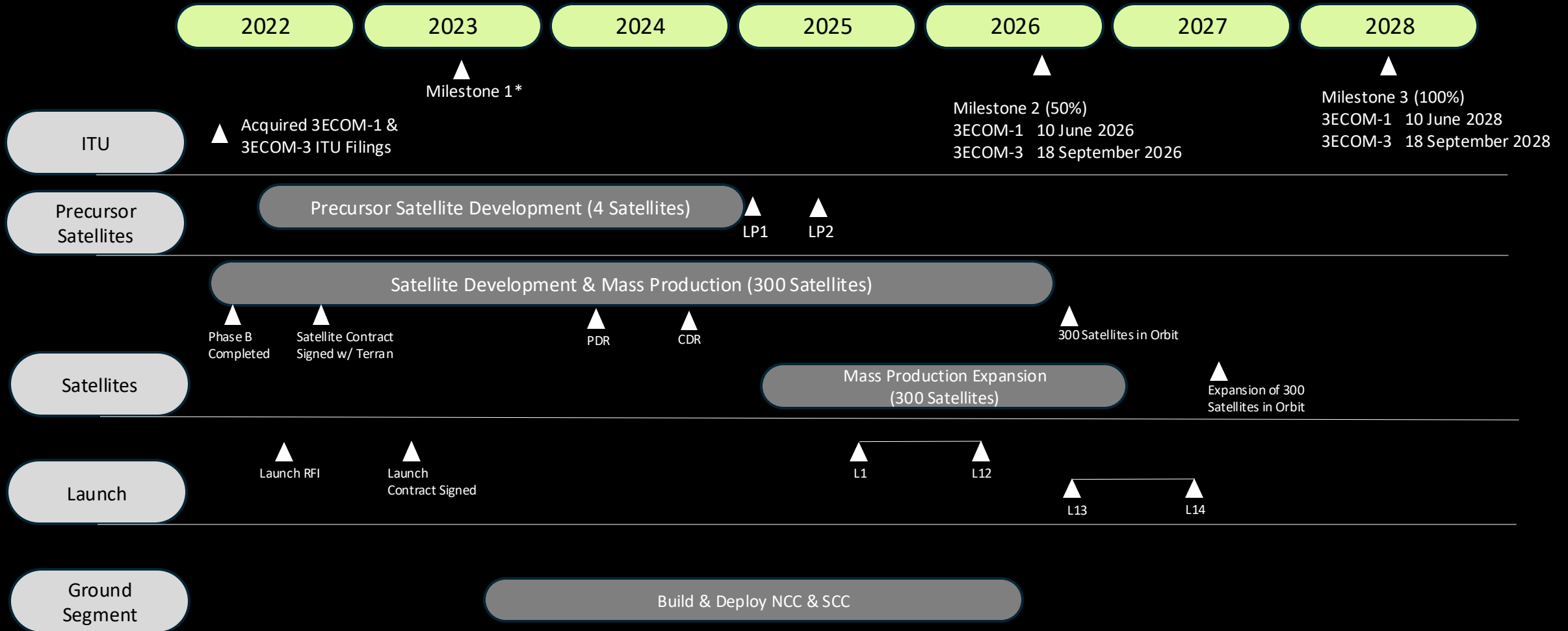
- 4 identical satellites
 - 2 satellites per plane
- 3ECOM1 3ECOM3 filings
 - 89 degrees inclination
 - 1050km altitude
- 2 adjacent orbital planes
 - 15 degrees

Satellite configuration

- Scaled down platforms
 - From Terran Orbital
- Representative RF payload
- 2 LCTs per satellite

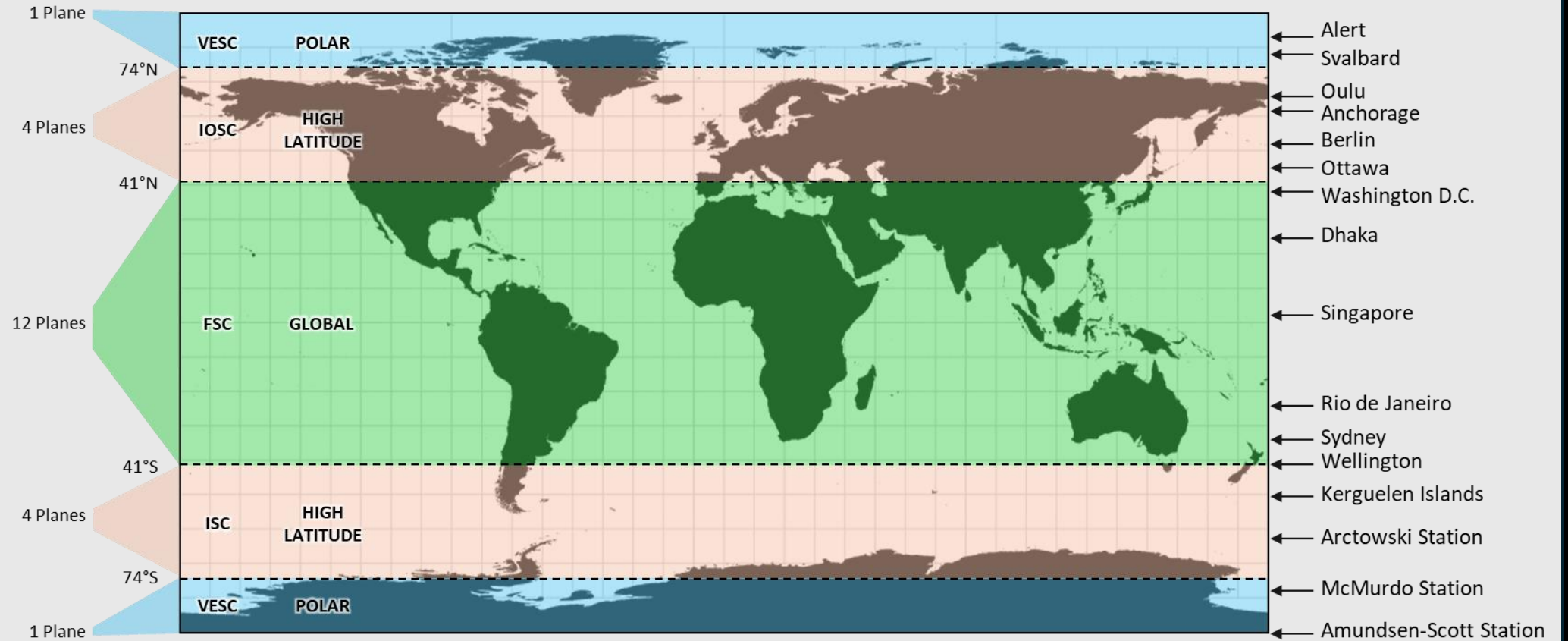


2024 Main Milestone Achievements

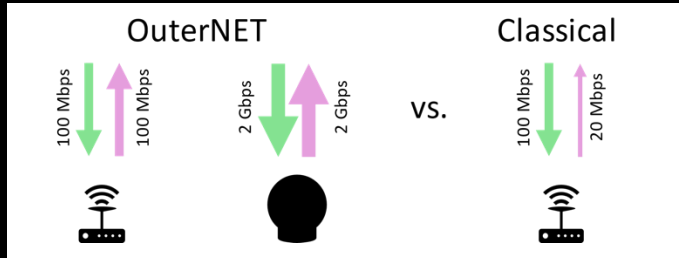


* On July 5, 2023, the ITU Radio Regulations Board waived Milestone 1

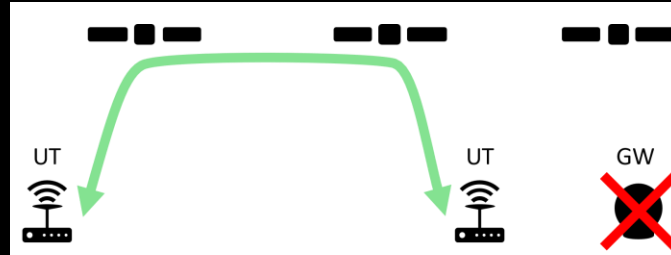
Service Deployment Schedule



Outernet Differentiators



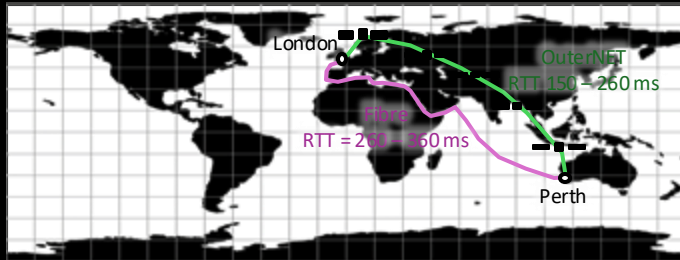
Symmetrical Down/Up Link



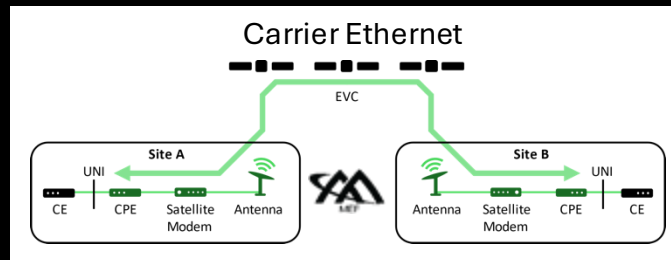
Gateway-less Architecture



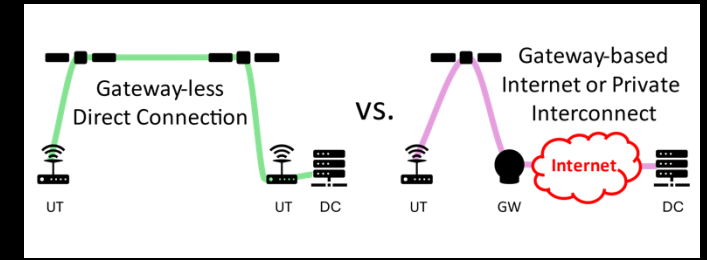
Pole to Pole Coverage



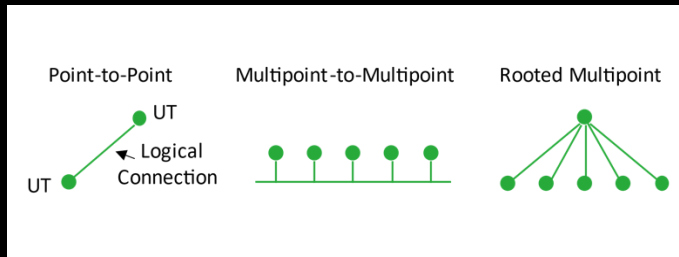
Ultra Low Latency



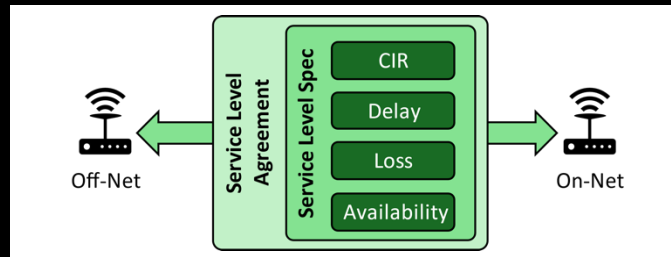
Layer 2 Connectivity



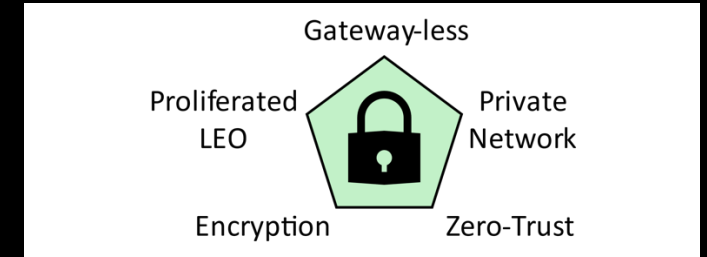
Data Sovereignty



Multi Topology Options



End to End SLA



Security & Resiliency by Design

Thank you!