

colt | **ANALYST DAY**
2026

BUILDING RESILIENT NETWORKS IN THE AI & QUANTUM ERA.

VIVEK GAUR – VP Engineering

PRASANNA SUNDARAM – Director of Optical
Engineering

ANALYST DAY
2026



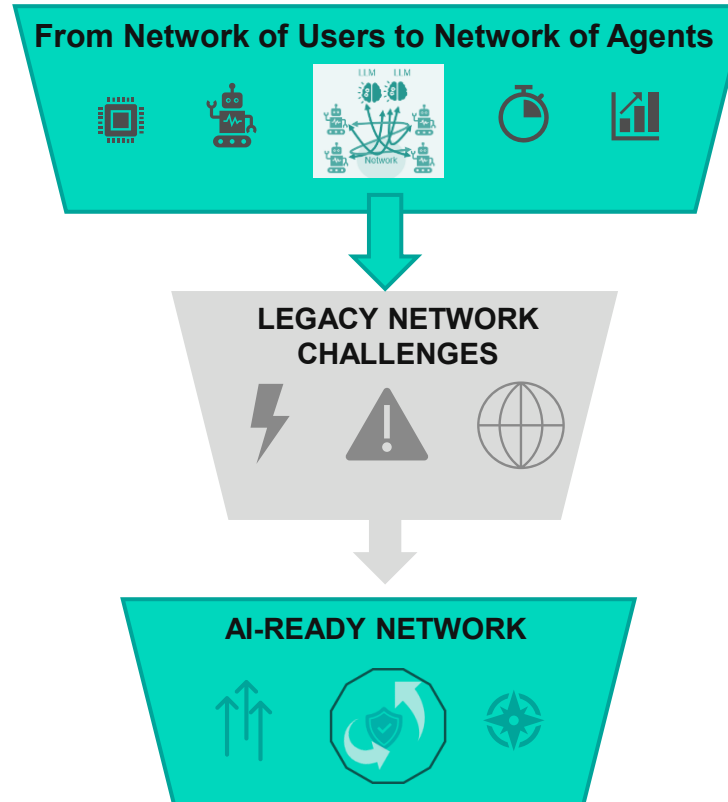
COLT'S VISION AND OUR GUIDING PILLARS FOR A RESILIENT NETWORK.



AI IS ONLY AS POWERFUL AS THE NETWORK BEHIND IT

THE SHIFT TO AI INFERENCE AGE

- » **AI spend surging**; 1 in 5 firms already spend \$750k+ annually
- » **Inference workloads** will dominate by 2030
- » **Traditional** connectivity models no longer fit for purpose



DETERMINISTIC, AI-READY INFRASTRUCTURE

- » **High capacity & predictable bandwidth** for GPU fabrics
- » **Automation & AI-driven** assurance for reliability
- » **Guaranteed low latency** for real-time inference
- » **Sovereign, secure data flows** across jurisdictions...

ENTERPRISES NEED MORE THAN CONNECTIVITY

They need intelligent fabric built on:

Security | Sovereignty | Capacity | Latency | Scalability | Capillarity | Responsibility | Simplicity

Colt Vision powers everything we do. For enterprises racing toward AI and next-gen services like NaaS and quantum-safe security, providers must deliver **more than connectivity** – they must deliver a wholesome experience.

Our vision is to be
the **easy button** for
**intelligent digital
infrastructure**

Colt anticipates AI Inference, the evolution of NaaS to 'NaaS 2.0' and quantum-safe security to shape the technology landscape over the next 12 months

Based on customer insights, market intelligence and Colt's own proprietary research

Powered by exceptional digital infrastructure, we create effortless connections and extraordinary outcomes for customers, communities and people

Colt is setting the benchmark for **digital infrastructure** in the Inference Age. Our **eight pillars** define our leadership and are the essential actions we're committed to deliver

colt

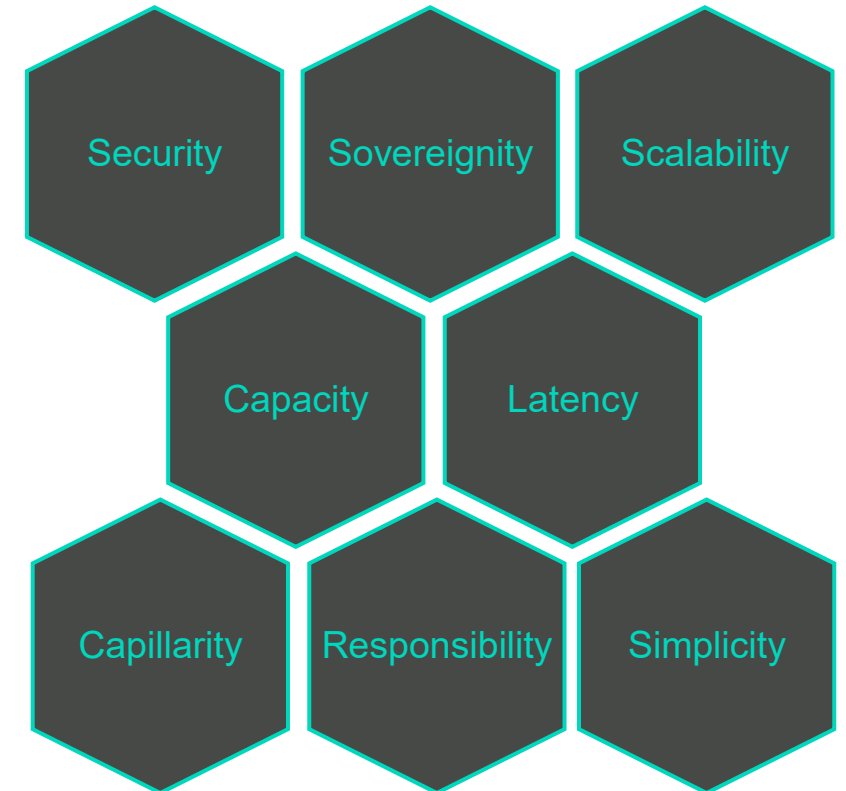
"We cannot afford to be narrow-minded about AI infrastructure. As industry leaders, we must embrace a broader, bolder vision that goes far beyond connectivity. Enabling true AI readiness for enterprises also demands security, sovereignty, scalability, capacity, low-latency, capillarity, responsibility and simplicity."

Keri Gilder, CEO, Colt Technology Services

[READ THE WHITEPAPER](#)



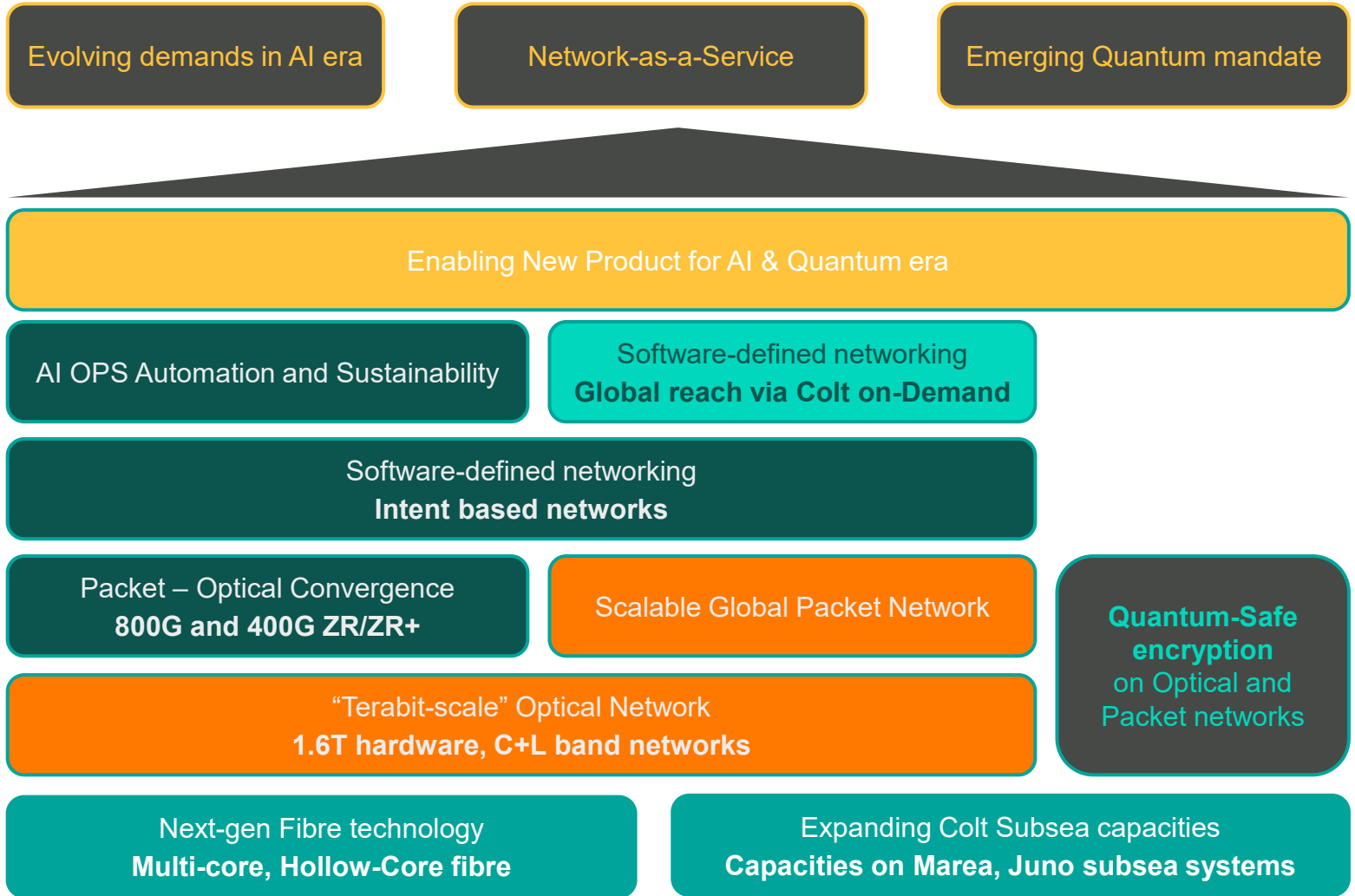
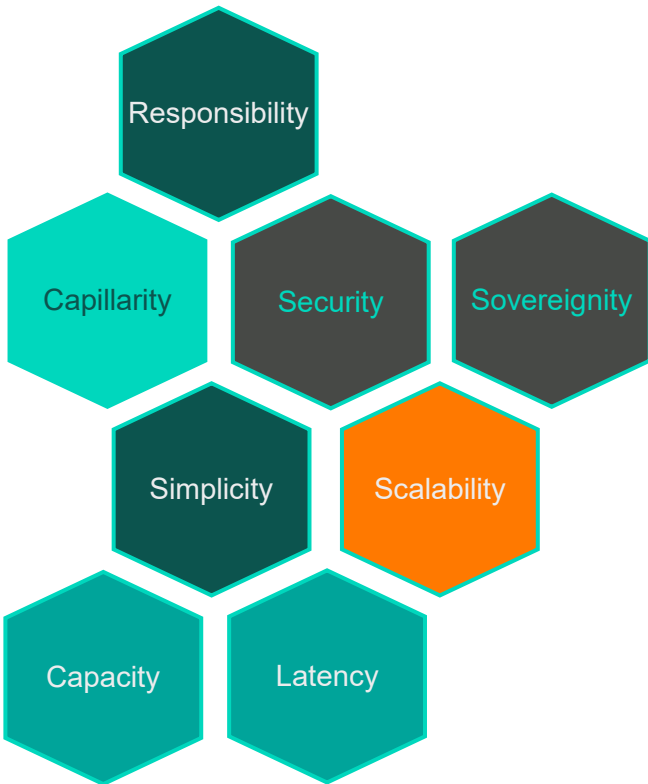
Eight pillars of our digital infrastructure



OVERVIEW OF NETWORK INITIATIVES ANCHORED BY THE GUIDING PILLARS.

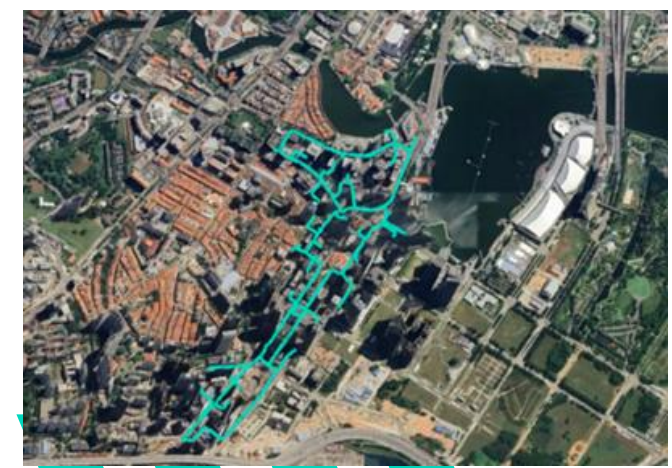
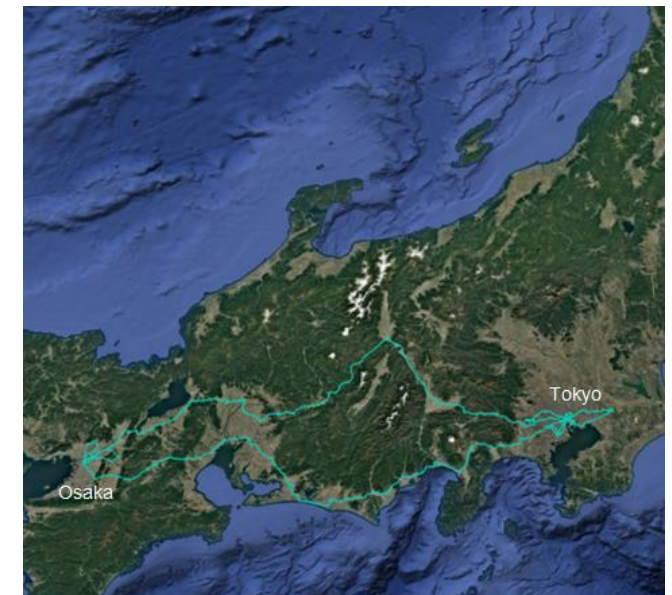
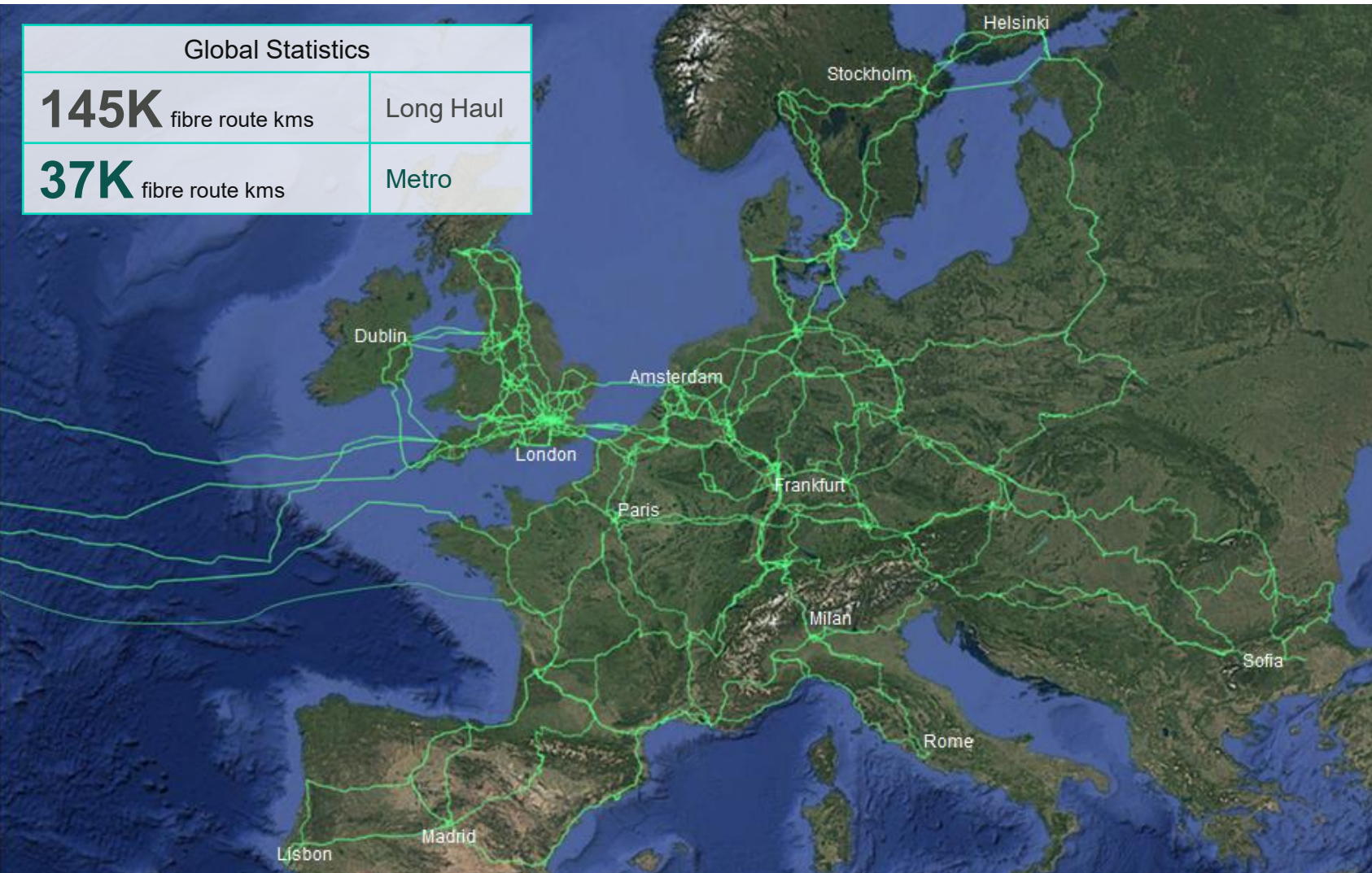


WE ARE ENGINEERING THE NEXT-GENERATION RESILIENT NETWORKS BEYOND JUST CONNECTIVITY. THESE ARE ANCHORED BY THE PILLARS OF OUR DIGITAL INFRASTRUCTURE FRAMEWORK



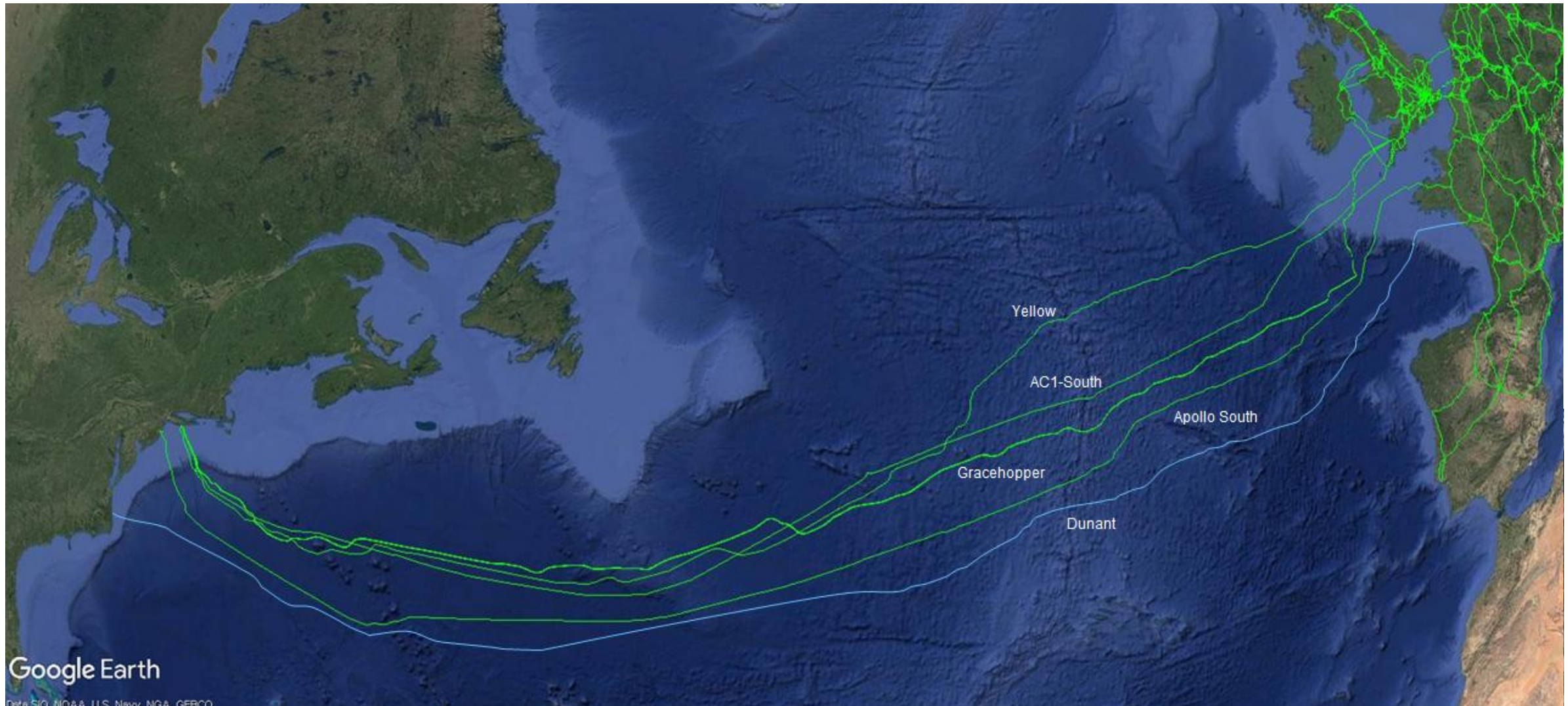
Colt's core strength : Our fundamental asset is the 180K Kms+ of global fibre network

Building on its legacy of deep fibre assets, Colt expanded its fibre network in Europe and to US through strategic acquisition and integration. This created powerful and bigger network to innovate and meet the growing demands.



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Powered by our network we keep business connected across the world

Colt global network extends across 5 continents on Colt owned or partner fibres. We offer the best-in-class services, end-to-end SLAs.



**MULTI-DIMENSIONAL
INITIATIVES
TOWARDS A RESILIENT
NETWORK.**

Capacity & Latency – Colt is pioneering Multi-Core and Hollow-Core fibre technology validation to boost network utilization and offer ultra-low latency. Colt is also expanding its subsea network to boost global network capacity

Multi-core and Hollow-Core fibre tech for Capacity and Low Latency

Colt Subsea network expansion to boost intercontinental capacity

Multi-Core Fibre : Validated in Dec'25

Benefits – Massive capacity gains in same (duct) infrastructure



Hollow-Core Fibre

Benefits – High-performance, low-latency network

Use case validation in Q3 2026

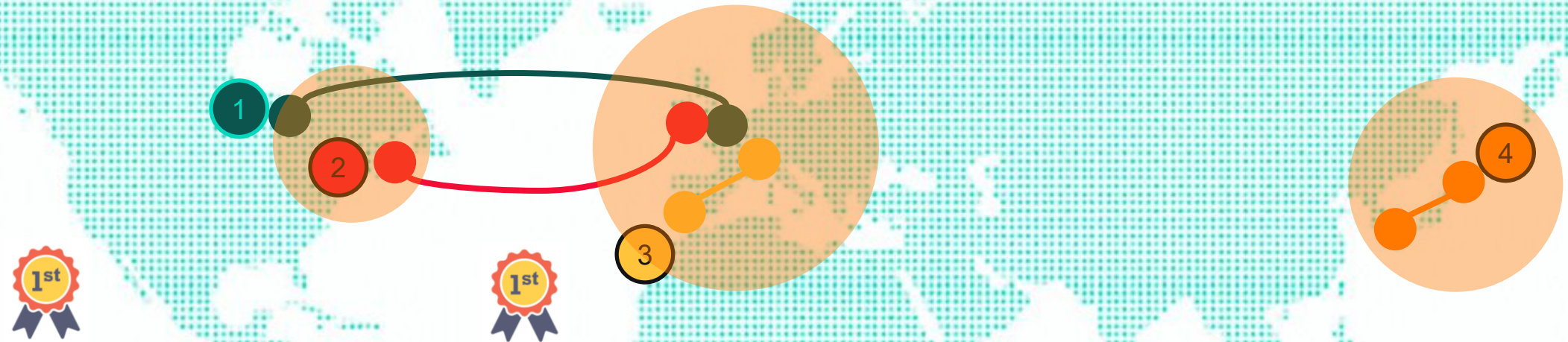


1. New Transatlantic connectivity via 6,600 kms **Marea Subsea cable** connecting US (Virginia Beach) to EU (Spain)
2. New Transpacific connectivity via 11,700 kms **Juno Subsea cable** connecting US (Los Angeles) to Japan (Tokyo)



Scalability – On the Optical network, Colt has pioneered test and deployment of terabit scale equipment on the global subsea and terrestrial optical networks to deliver new customer service interfaces such as 800GE

Colt is scaling capacity on key routes with advanced optics, aiming for 800G anywhere to meet traffic growth and its leadership in international connectivity – thanks to the trust and collaboration of our valued technology partners.



1 (Test Service)
Transcontinental 800GE

800GE on client interface
8500 Kms, Chicago - London

2 (Backbone Capacity)
Terabit Subsea Wave

1.2Tbps per Wavelength
6400 Kms, US – UK CLSs

3 (Backbone Capacity)
Terabit Regional Wave (EU)

1.5Tbps per Wavelength
950Kms, Lisbon to Madrid

4 (Backbone Capacity)
Terabit National Wave (Asia)

1Tbps per Wavelength
650Kms, Tokyo to Osaka

80Tb capacity deployed

Scalability – On its global Packet network, Colt continues to provide scalable, hyper-resilient and guaranteed SLA based infrastructure through six pillars of evolution

The evolution is focussed to support customers AI inference workloads and other XL traffic growth to build high-resiliency necessary for digital employees (AI Agents)

Six pillars of Packet Network Evolution

I



Universal Silicon
xx-xxx Tbps capacity
Services 1G-400G

II



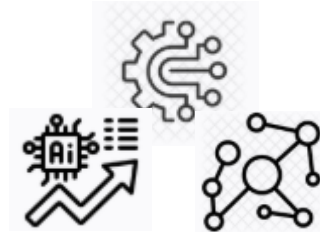
100% RON Core
Coherent plugs
400G & 800G

III



SDN
100% automated
Orchestration / slicing

IV



Analytics
Knowledge graph
AIOps

V



NaaS
Smart Path
L2L3 services slicing

VI



PQC ready
Programmable Packet
Fabric

Lowest TCO
and Carbon Footprint

On demand services slicing, **simplified and automated operations**

- » Custom path A to Z routing
- » Ultra low latency
- » Disjoint
- » Greenest path (CI)
- » SLA based (AI elephant flows)

Custom slicing, with

- » Sovereignty as factor
- » Quantum safe protocol as a factor

Simplicity – Colt led industry on Packet – Optical convergence by validating and adopting Coherent optics on Colt’s Packet network. This has simplified architecture while driving sustainability

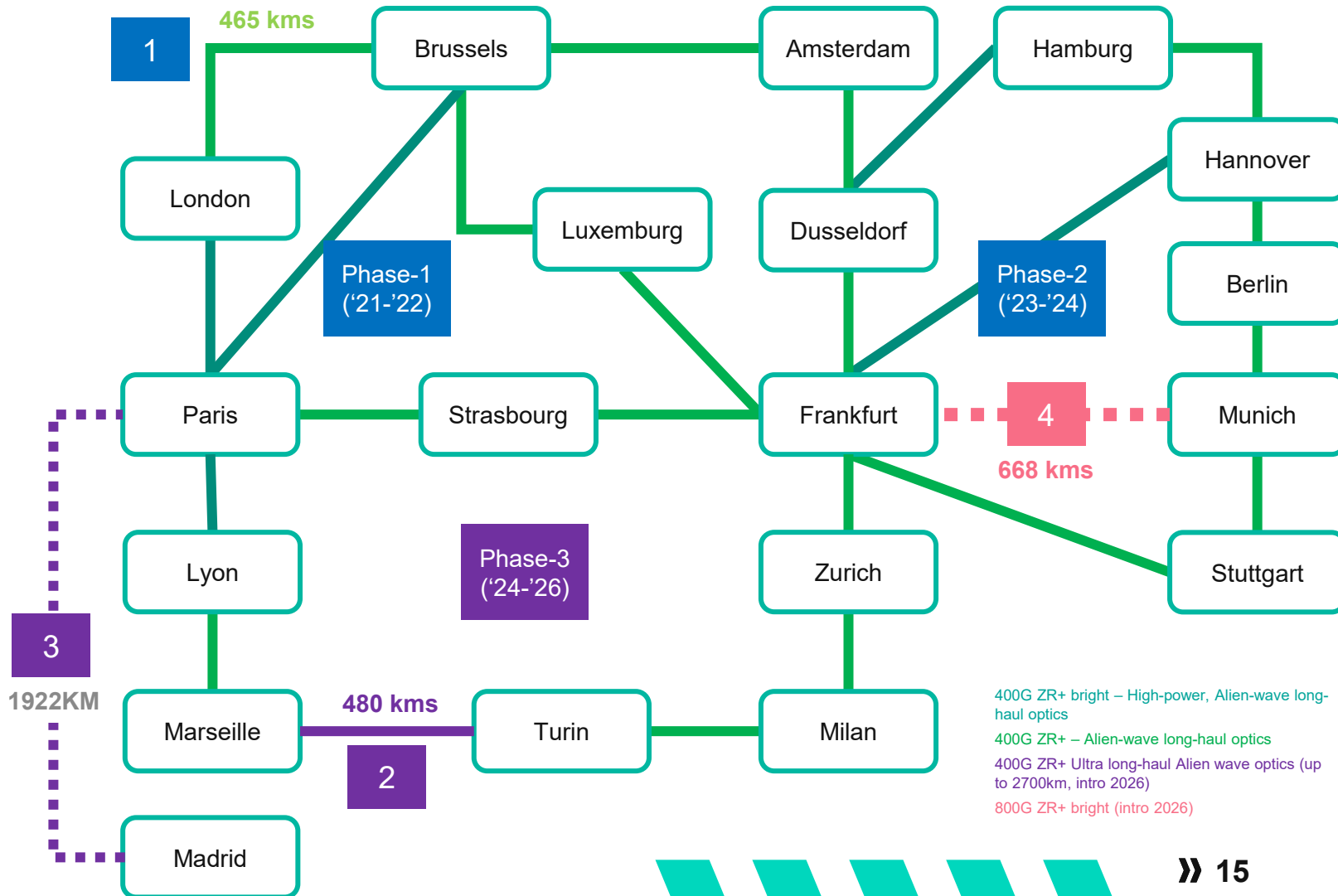
The convergence contributes to Simplicity and sustainability while maximizing capacity utilization. The deployments reduced Wattage per 100G by 97%, while increasing Capacity per 1 Rack Unit from 10.8T to up to 26.4T; lowering Packet overlay costs by 69%

Cost-effective low power Routed Optical Network

- 1 2021 intro 400G ZR/ZR+
- 2 400G Bright ZR+ pluggable
- 3 400G ZR+ ultra long haul
- 4 800G ZR+ POC Q1 2025

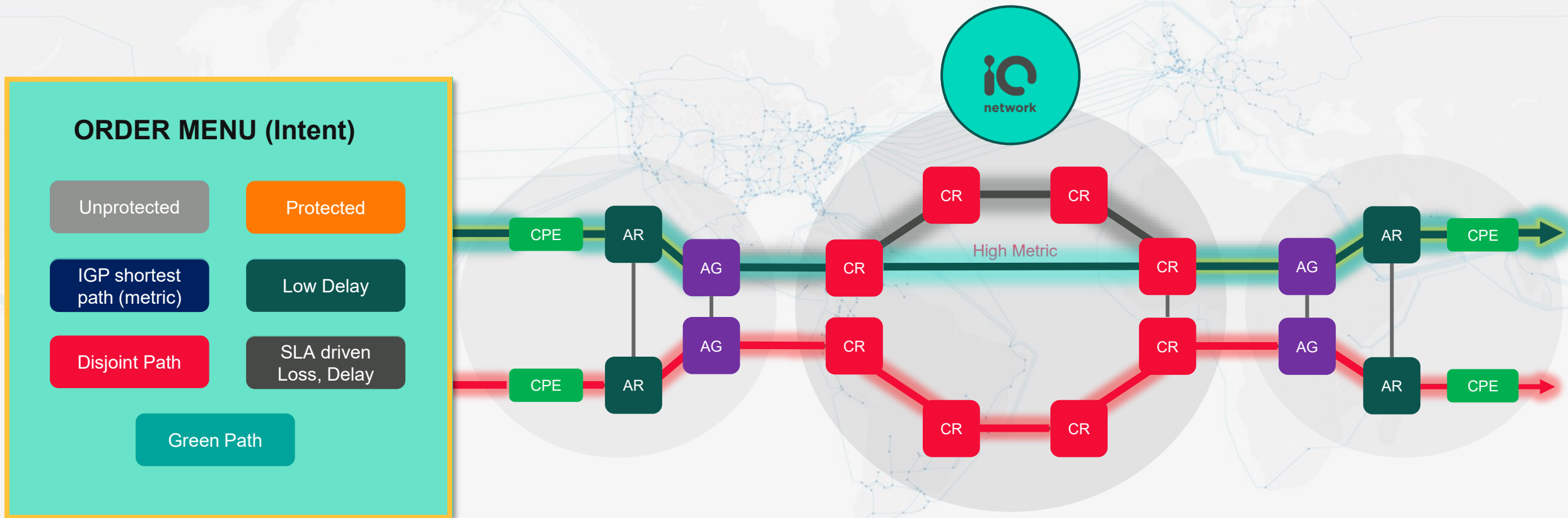
97%
Less Watts / 100G

69%
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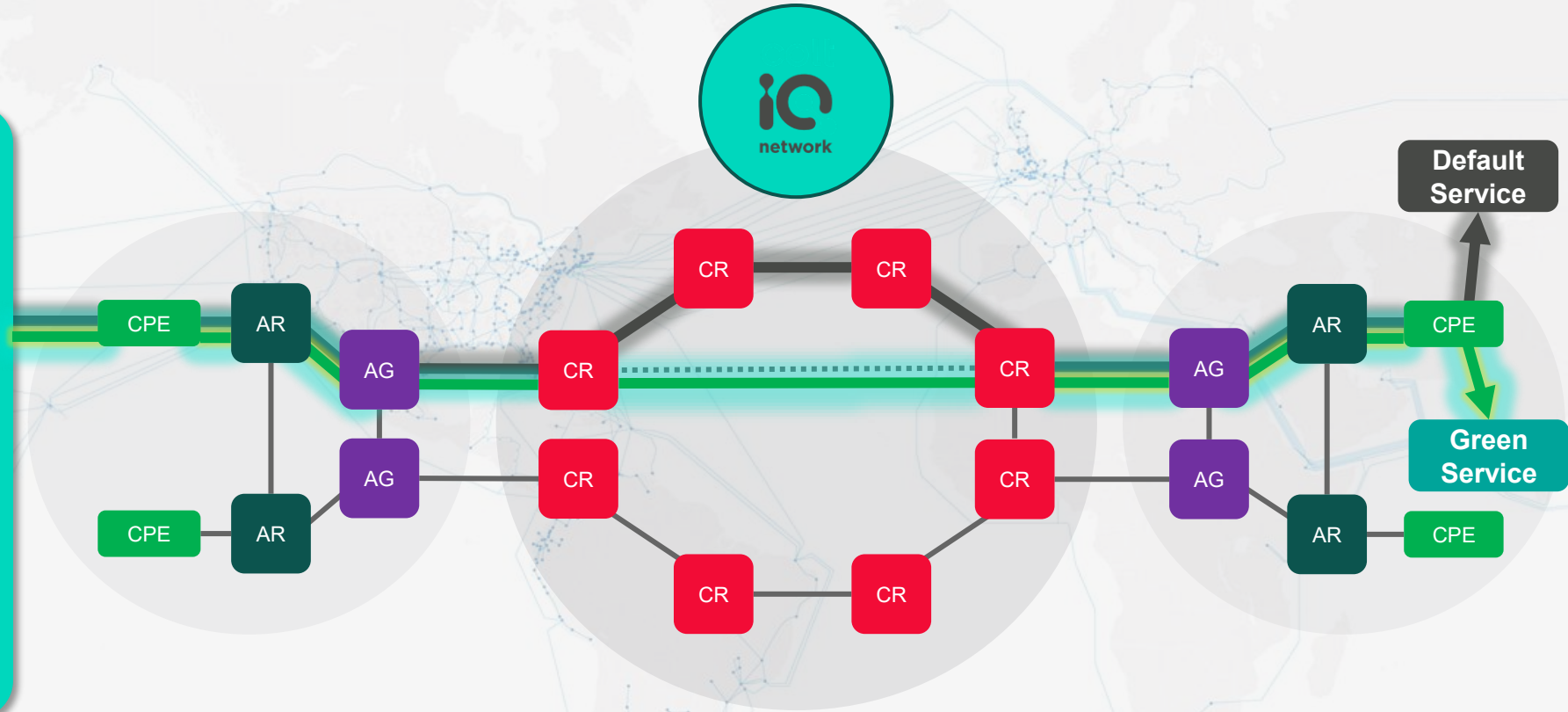
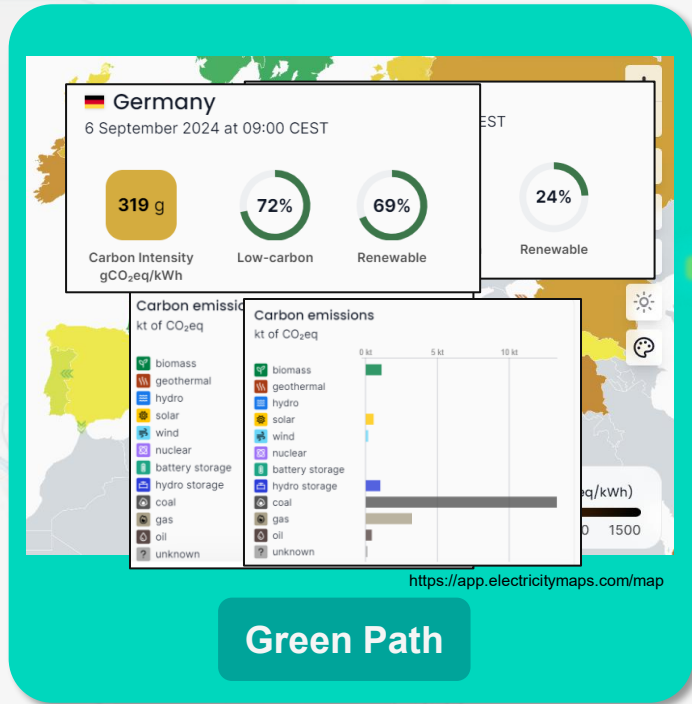


400G ZR+ bright – High-power, Alien-wave long-haul optics
 400G ZR+ – Alien-wave long-haul optics
 400G ZR+ Ultra long-haul Alien wave optics (up to 2700km, intro 2026)
 800G ZR+ bright (intro 2026)

Simplicity – Colt is ready with an Intent Based Networking to transform how services route, guided by **colt** business intent, not just technology. It's programmable, flexible, and built to optimize cost while giving customers the power to choose the path that best serves their goals.



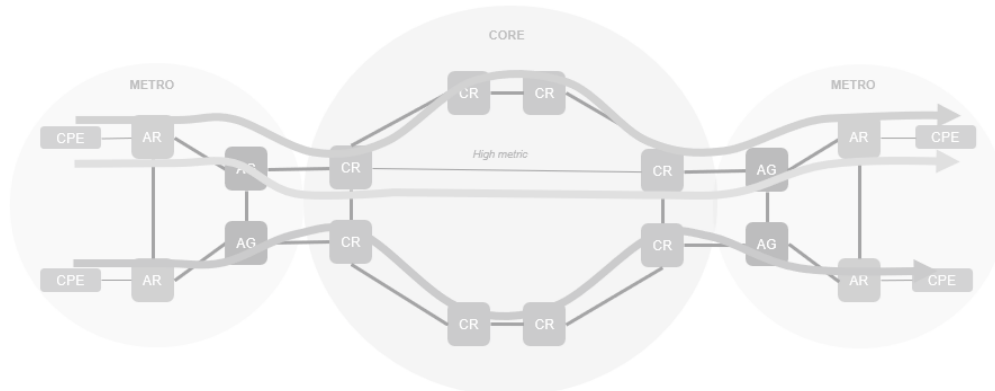
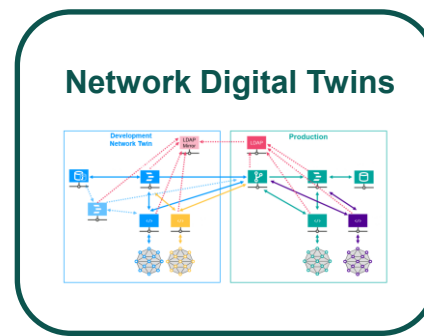
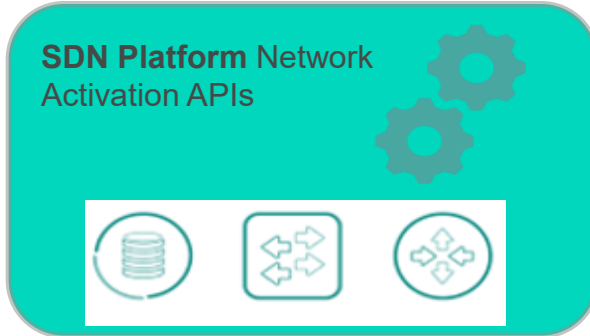
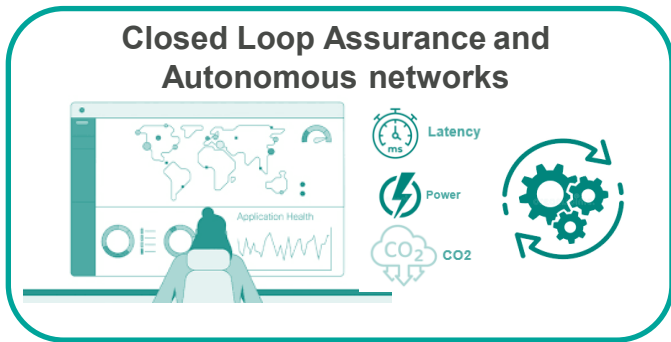
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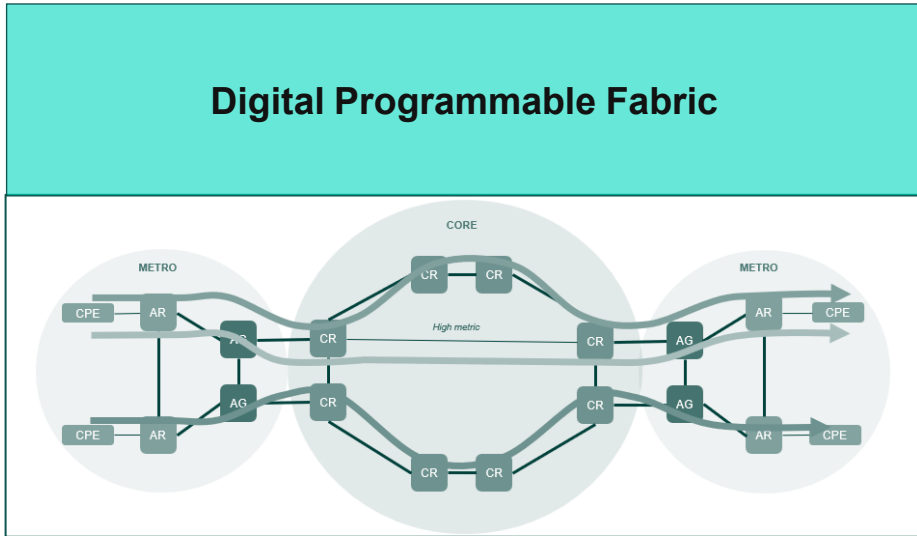
Simplicity and Capillarity – Colt On-demand layer brings together Intent Based Networking, Autonomous assurance and operational simplicity to create the “easy button” for AI-ready infrastructure. It extends the functionality closer to the users – to enterprises across millions of locations across the globe.



COLT EXPANDS ON DEMAND TO MILLIONS OF WORLDWIDE BUSINESS LOCATIONS
 Award-winning platform now supports 'off net' locations, bringing consumption-based networking to more global businesses than ever before. Lo...



Security and Sovereignty – Delivering future-Ready security through Quantum-Safe Networking, intelligent routing, and key management across network layers



Digital Programmable Fabric

Next generation Packet network



Next generation Fibre and Optical network

Multi Layer Key Management Systems

“Flex Algorithm” Digital Sovereignty & Routing

Packet Core – Quantum safe underlay

Post-Quantum Cryptography Quantum Key Distribution

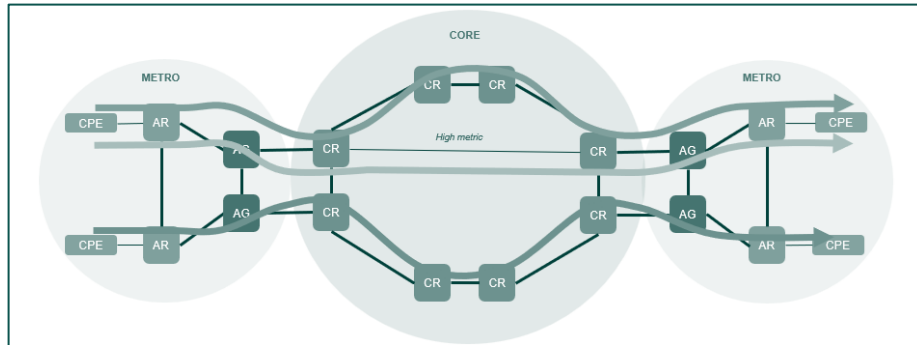
Quantum Safe Optical Network and services

AES 256 Encryption



Responsibility – Sustainability by Design: Greener & Smarter networks! Continuous architectural innovation – lowering power. Proving that performance and sustainability can grow together!

Digital Programmable Fabric

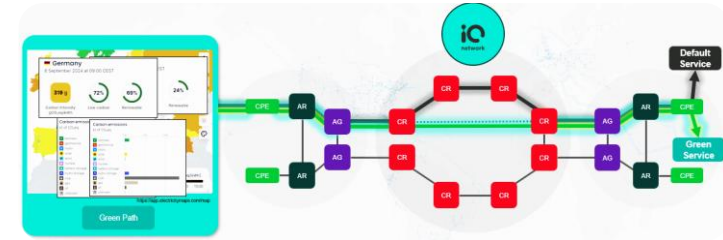


Next generation Packet network

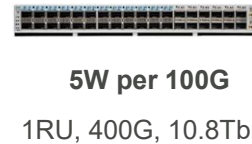


Next generation Fibre and Optical network

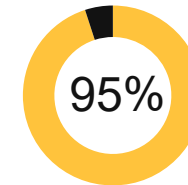
Green path selection



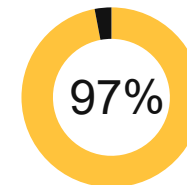
171W per 100G
21 RU, 100G ports, 9 Tbps



5W per 100G
1RU, 400G, 10.8Tbps



Space Reduction (Core)



Power Reduction (Core)



30% emissions avoidance
Next-gen vs previous-gen transponder



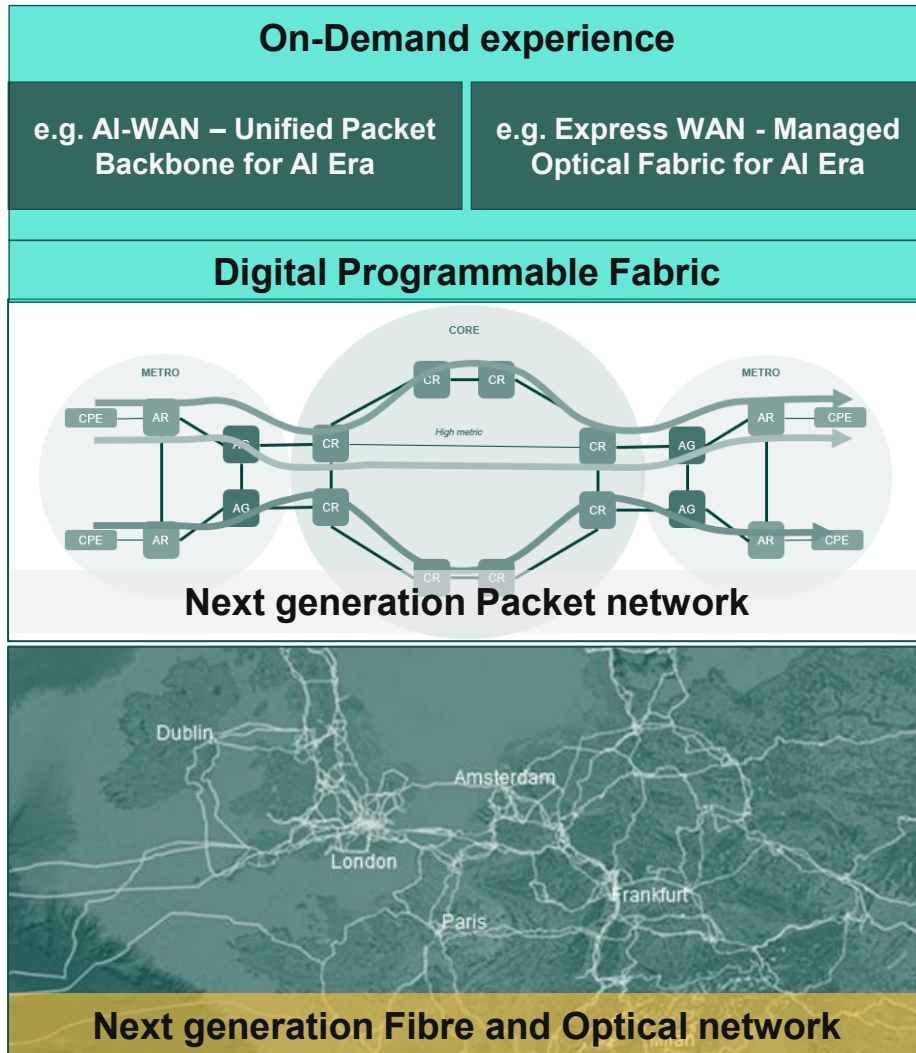
62% emissions avoidance
Next-gen vs older-gen transponder





SUMMARY

Colt is leading its network transformation to build a resilient network that enables and supports products and services for our customers in AI and Quantum era



Simplified On-Demand Experience
A **rapid** setup, elastic **scaling**, and commercial **flexibility**.

Global Reach & Connectivity
Native connectivity across **multi-clouds, data centres and sites**

Smart Network Fabric
An **intent-driven Layer-3** fabric prioritising AI and business-critical applications.

Smart Operations
Self-monitoring and **self-healing operations**

Marketplace-Network/Security Service
Add **new capabilities** and services on demand as needs evolve.

Underlay for SASE SD-WAN
A **deterministic underlay** delivering predictable end-to-end performance.

Sovereign Controls
Control where data travels and how it is handled across global jurisdictions.

Built-in Security
Integrated **security protecting AI workloads, apps and the network**, with **post-quantum** readiness.

Q&A
Q&A
Q&A
Q&A



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**THANK
YOU**

