

Telstra's Network 2020

SDN/NFV Evolution Network (SEN) Project





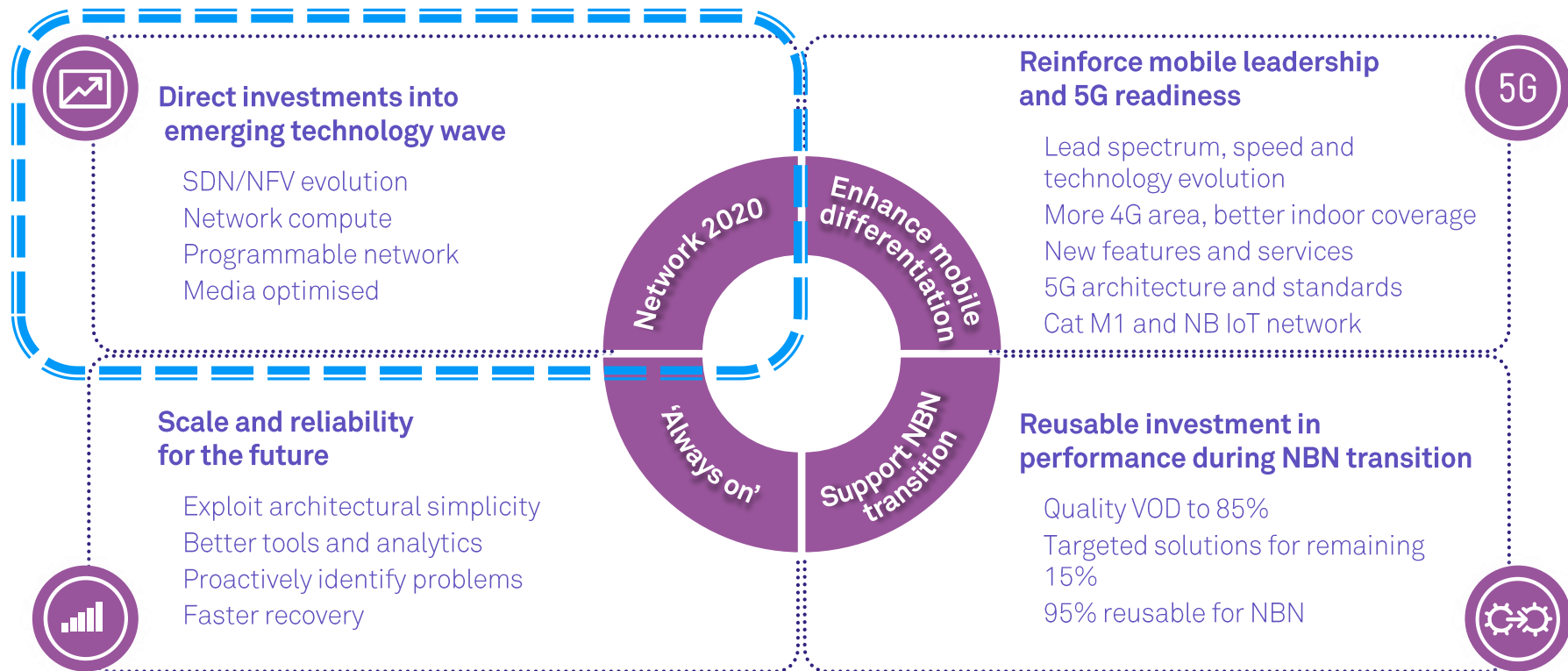
Agenda

- 1 Position the SEN project within the context of Telstra's strategy
- 2 Provide a deeper dive into the project, it's objectives and outcomes.
- 3 Outline the challenges, what we learned and the work still to do.
- 4 Q&A

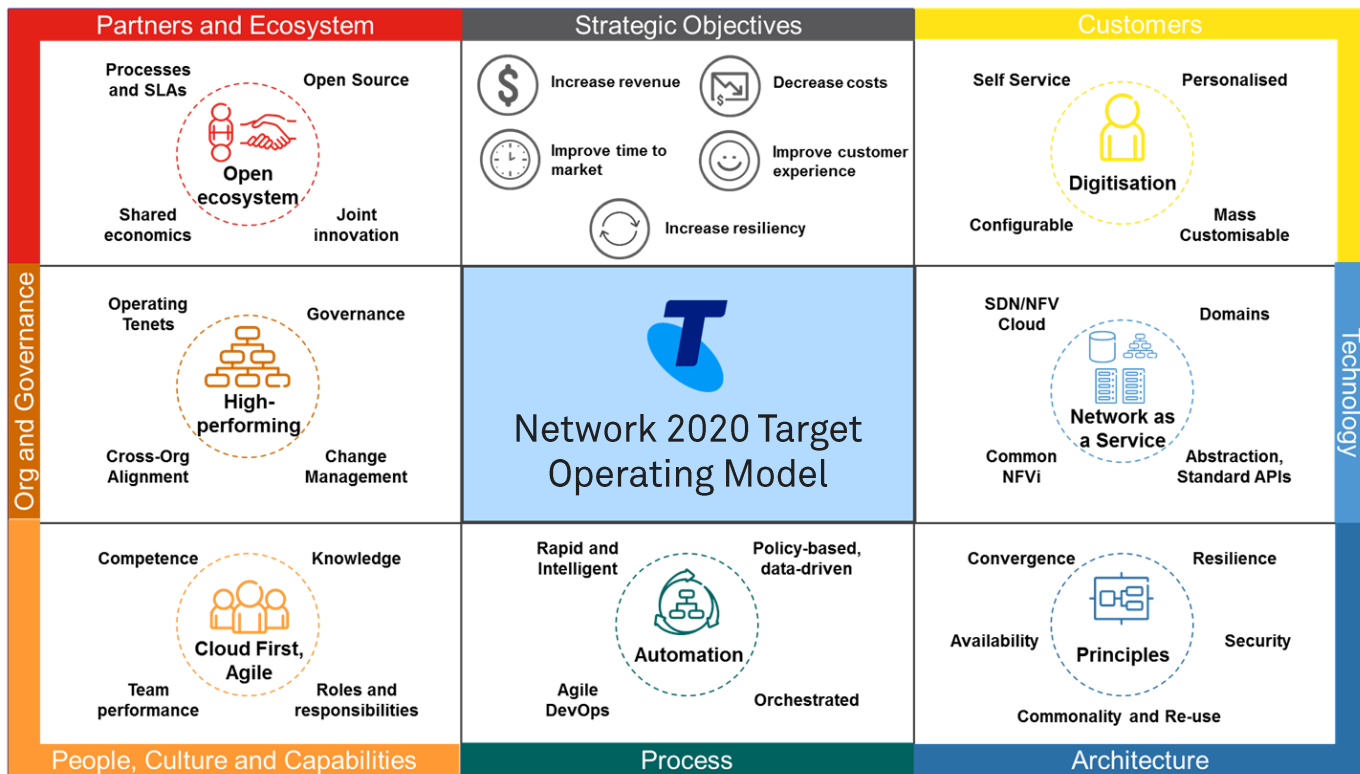
Our Plan



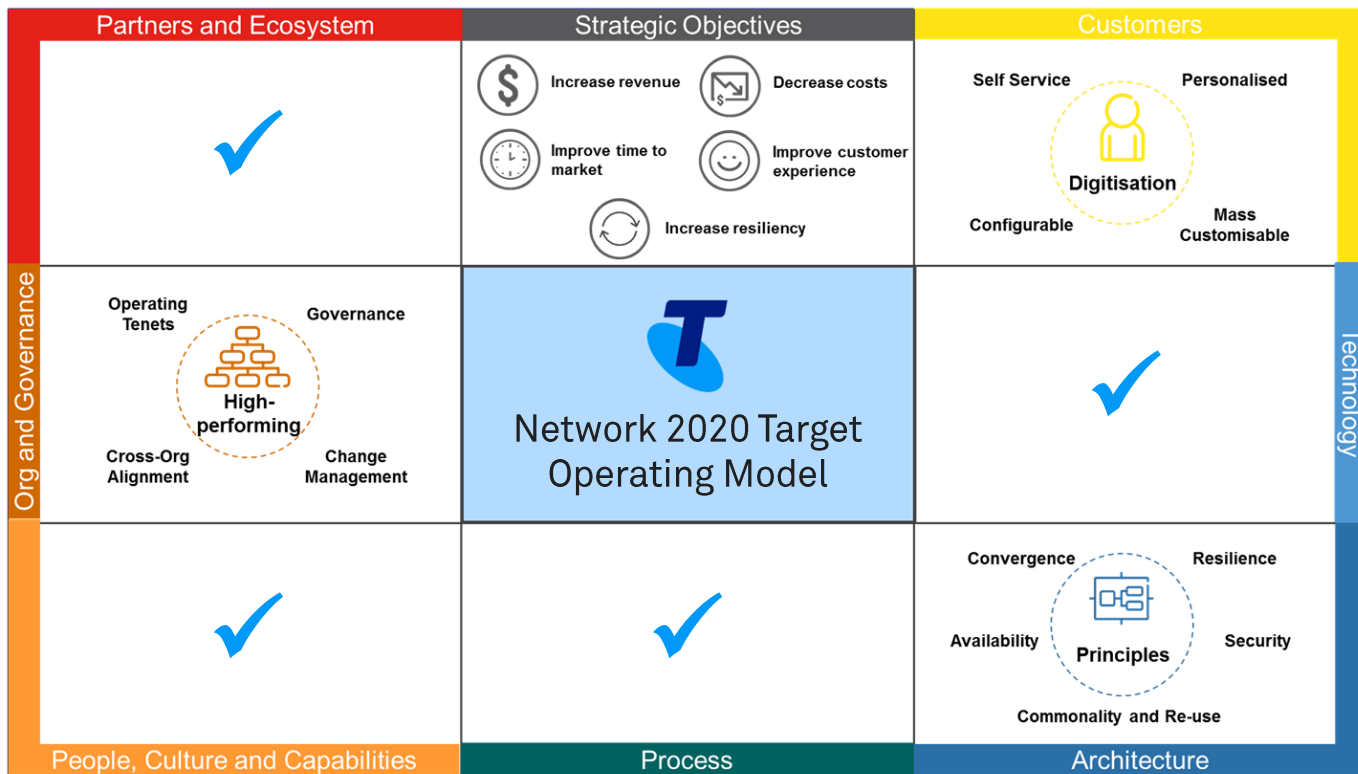
Networks for the Future



Network 2020 Target Operating Model



Primary focus of SEN



SDN/NFV Evolution Network “Project SEN” X

Challenge the Status Quo
Promote change by building a bridge to the future
Satisfy a short-term business need
Keep our customer's traffic safe

FROM:

Traditional conservative
Telecoms company



TO:

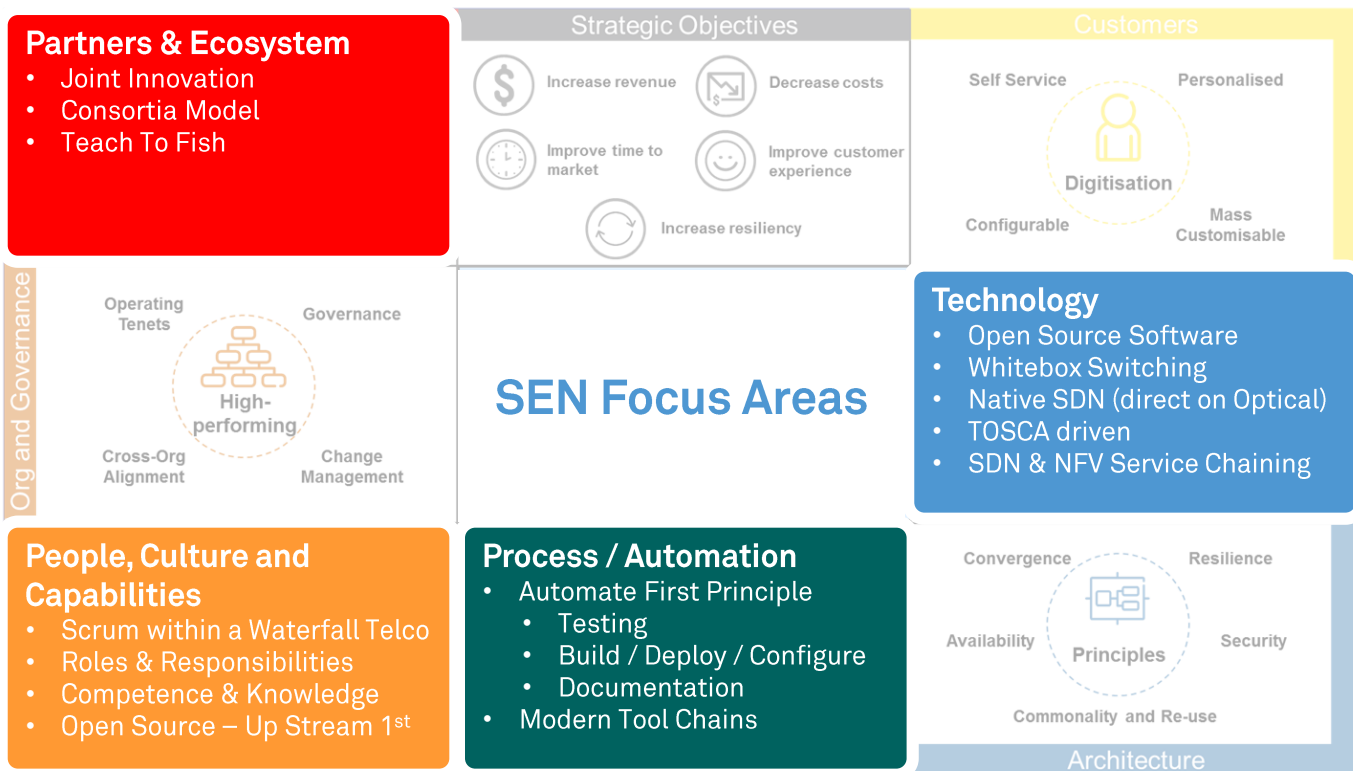
A world class technology
company that empowers
people to connect

SEN

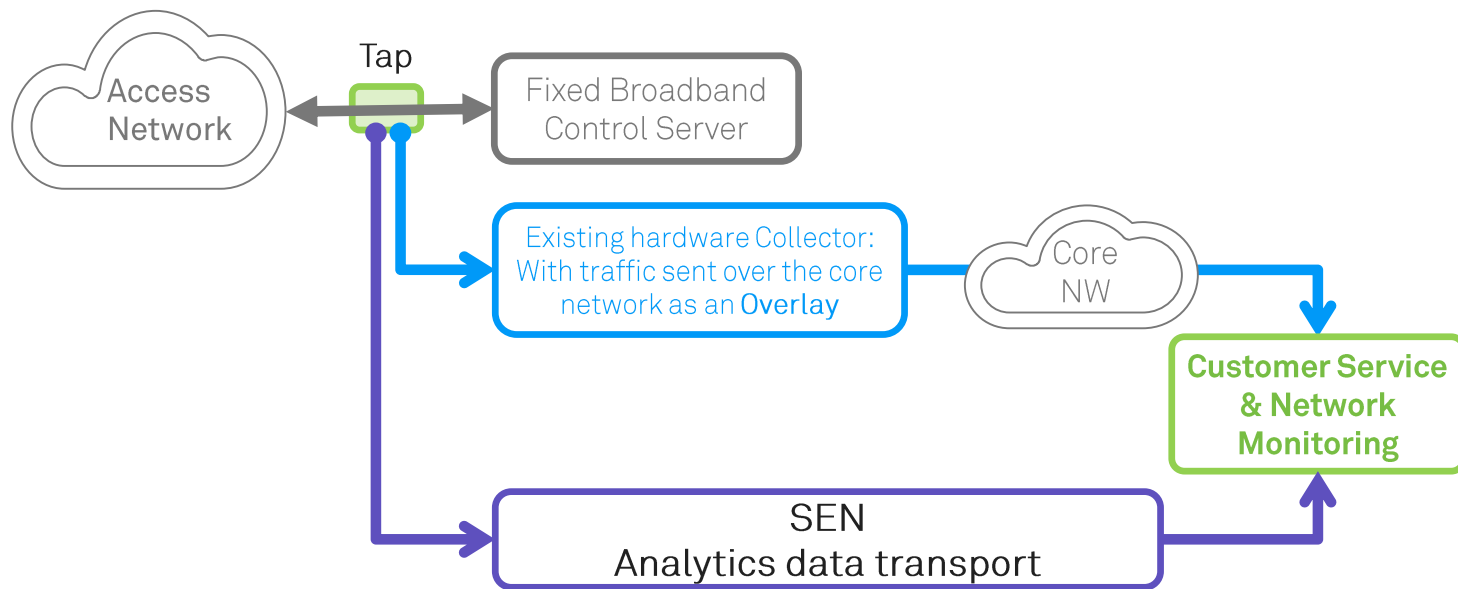
New technologies
New ways of working
New culture

Deploy a National SDN/NFV based Analytics Transport Network

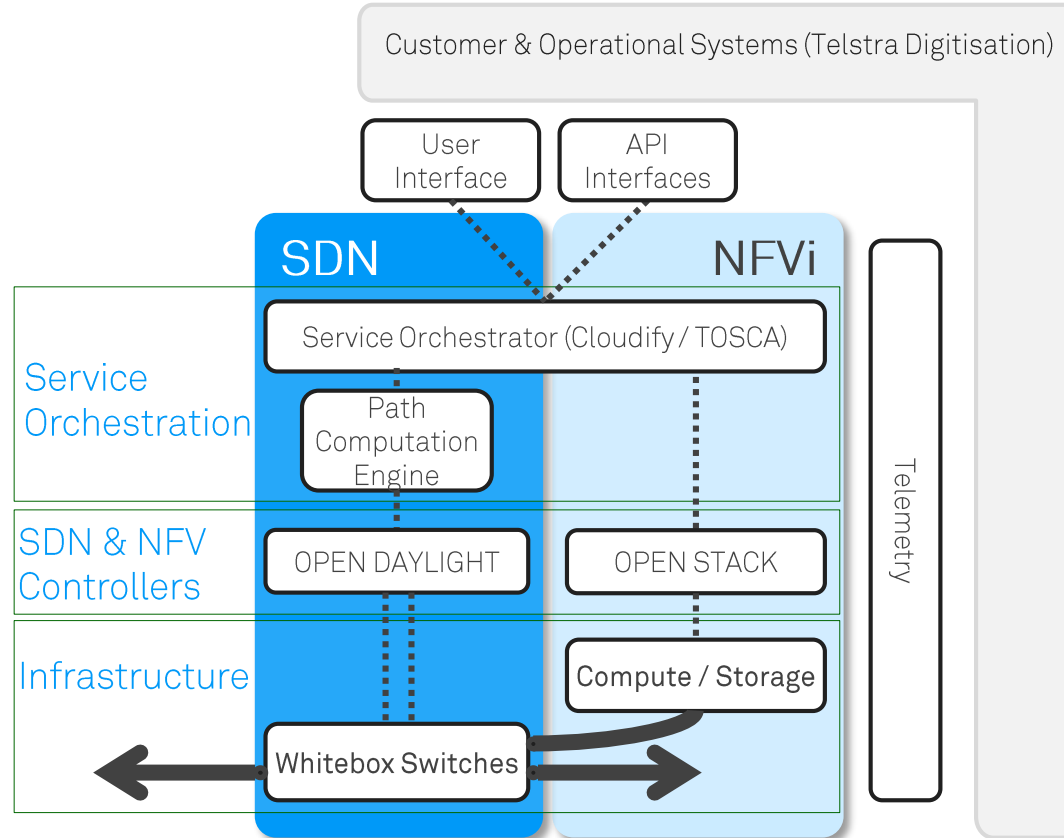
New Ways of Working



Deployment strategy: Protecting the business



High Level Architecture





Delivered...

- National analytics transport network in production
- Core SDN/NFV network based on Open Source software and OpenFlow switches
- Accelerated development and software deployment
- Introduced DevOps and Telemetry based operations
- Our people have acquired Agile skilled
- Modern Tool Chain
- Proven consortia model

Established a foundation for evolution



Insights: Success Factors

- Strong Executive Support
- Highly skilled and engaged staff
- Highly collaborative and dedicated vendors
- Insertion into a safe part of the network
- Clear and agreed operating principles

Insights: Real-world Challenges



Security

Reliability

Architecture

Complexity

SW Lifecycle Management

Documentation

“Brownfield” organisations

Governance & Funding

Procurement



Next Steps

Scaling:

- People
- Process
- Network & Technology

Broader loosely coupled Integration into the company's IT environment

- ONAP (AAI and DCAE leading to CLAMP)

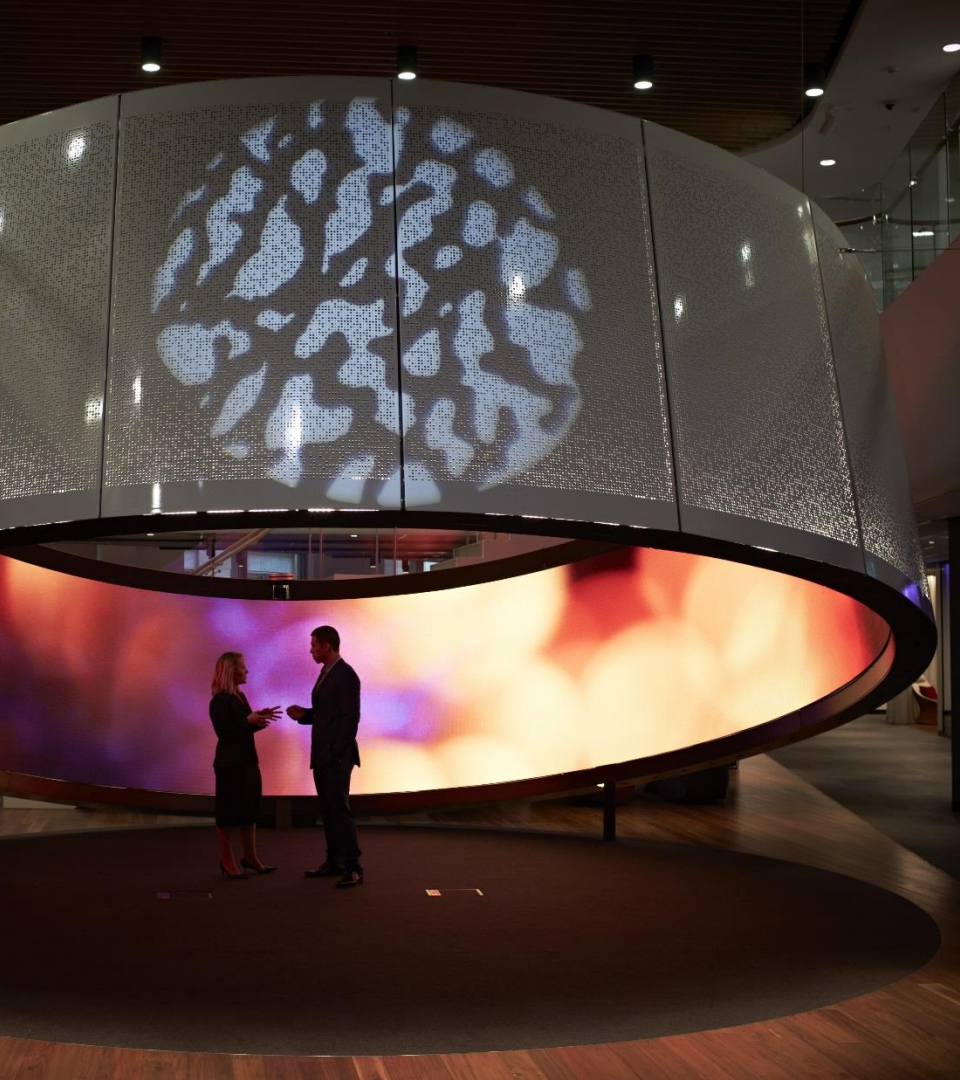
Summary

We have cross company aligned vision and strategy

A new pure play SDN/NFV Analytics transport network

New Ways of Working - A strong start but still lots to learn





Q&A

