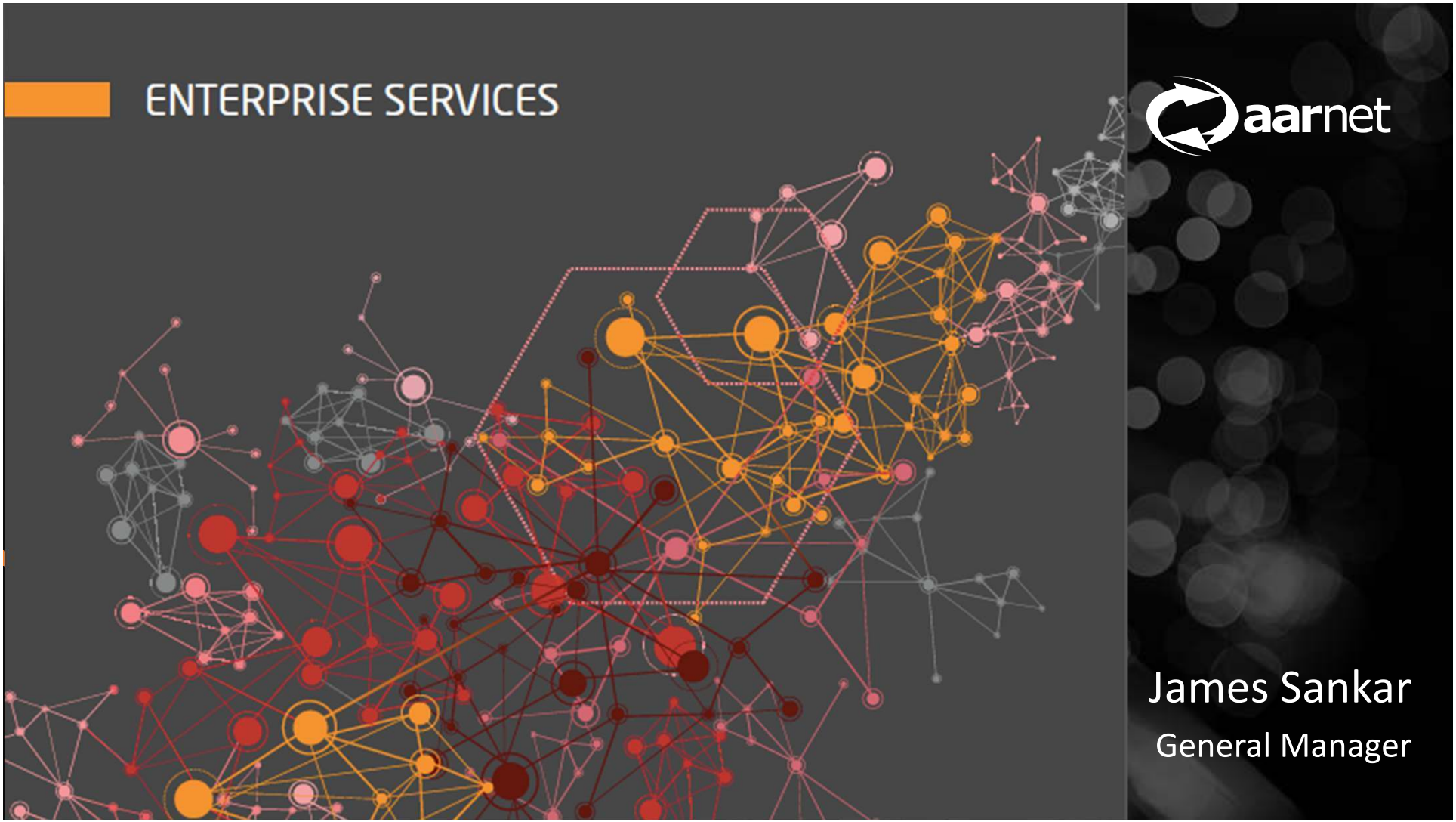
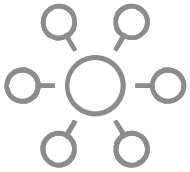

ENTERPRISE SERVICES
aarnet
James Sankar
General Manager

Enterprise Services

Background



Trends

Customer Outcomes

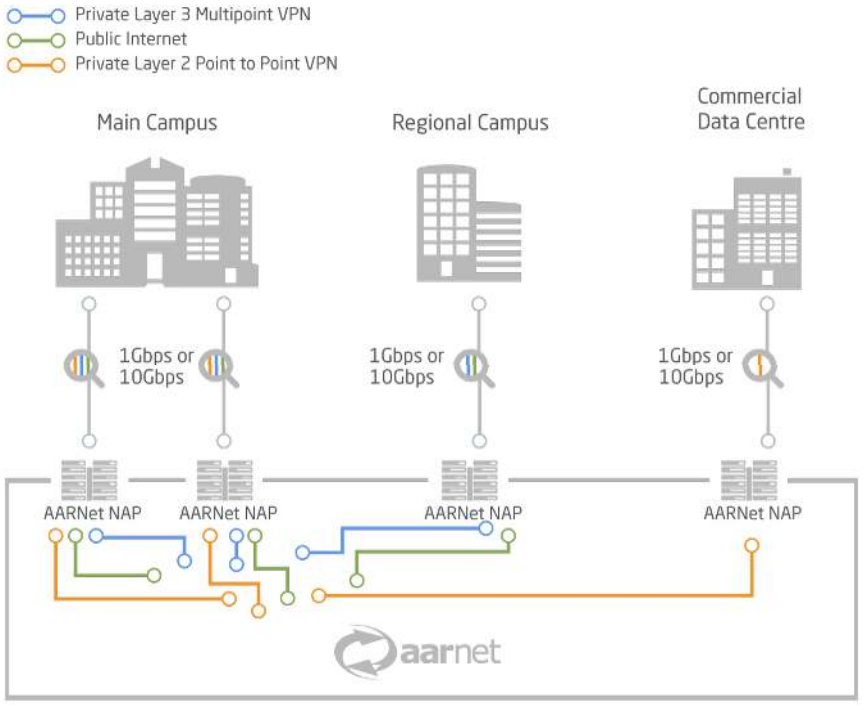
Roadmap

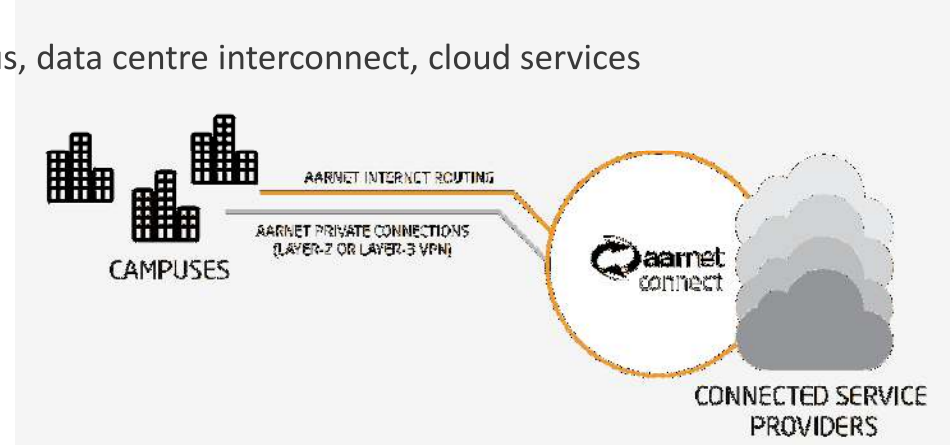
BACKGROUND

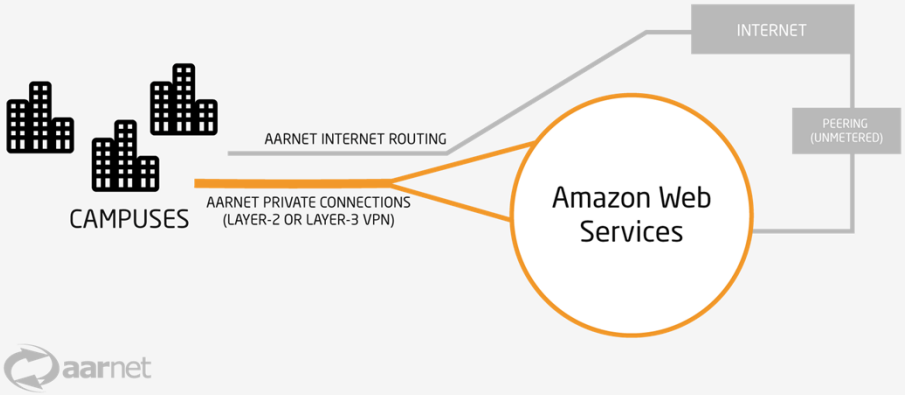
- Not for Profit
- Sector owned
- Sector and Client exclusive
- Independent, vendor agnostic
- Highly skilled, industry diverse experienced team
- Enabling value from mutual network investments

WIDE AREA NETWORK CONNECTIVITY OPTIONS

Growing range of dedicated connectivity options intercampus, data centre interconnect, cloud services

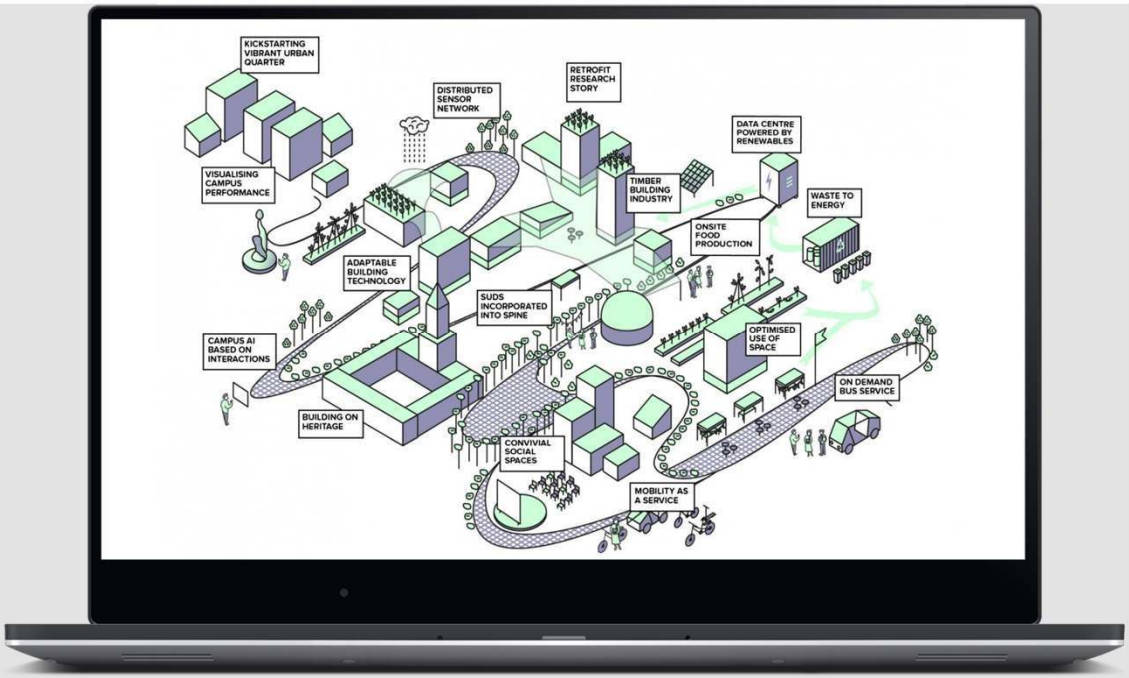






TRENDS

- Intelligent network routing
- Massive datasets utilising off campus compute and storage
- Health and Industry collaboration precincts
- Personalised service delivery using machine learning, AI, Chat bots and location data
- Cloud services for service resiliency and agility
- Multi-layered network security that does not impact throughput



http://futurecities.catapult.org.uk/project/smart-campus-university-of-glasgow/

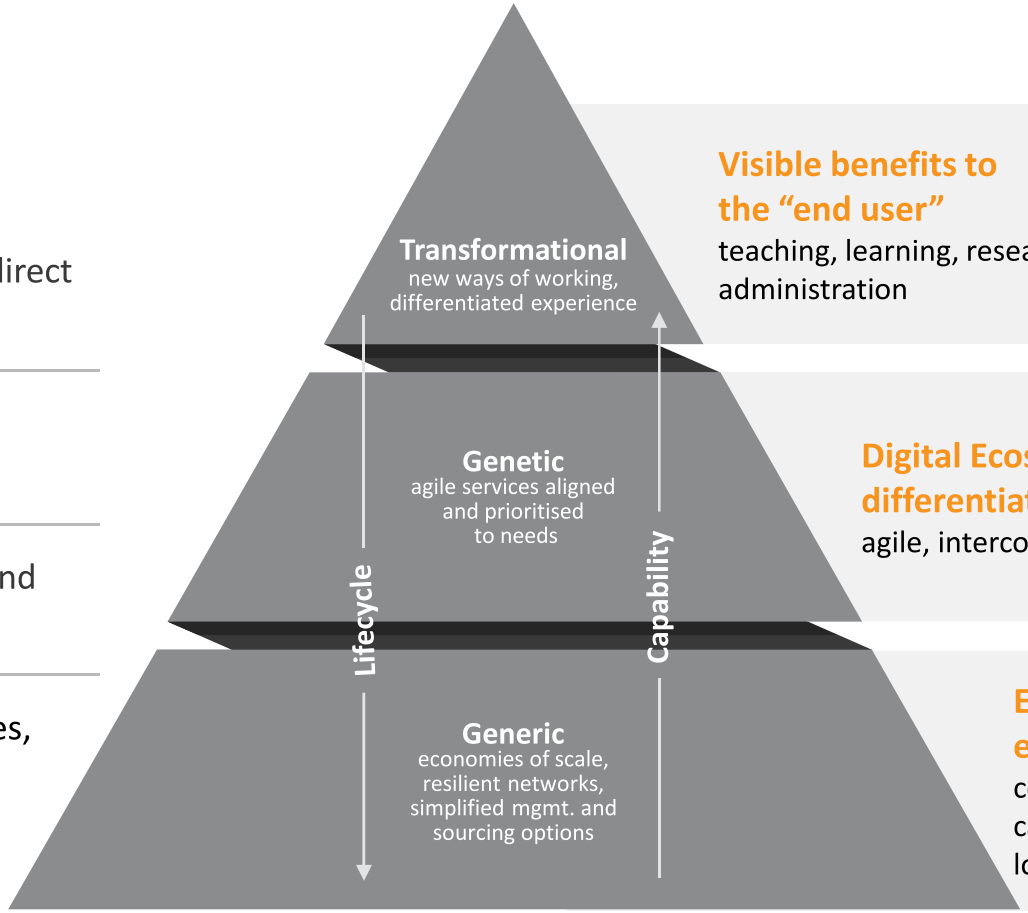
TRENDS

Freeing up resources to direct to stakeholder needs

Providing **unique R&E solutions and platforms**

Professional consulting and engineering services

Managed Network devices, specialised services



Visible benefits to the "end user"
teaching, learning, research, administration

Digital Ecosystem of differentiated services
agile, interconnected, AAI

Enabling ecosystems, end users services
connectivity on/off campus, multi-cloud, co-lo, data centres

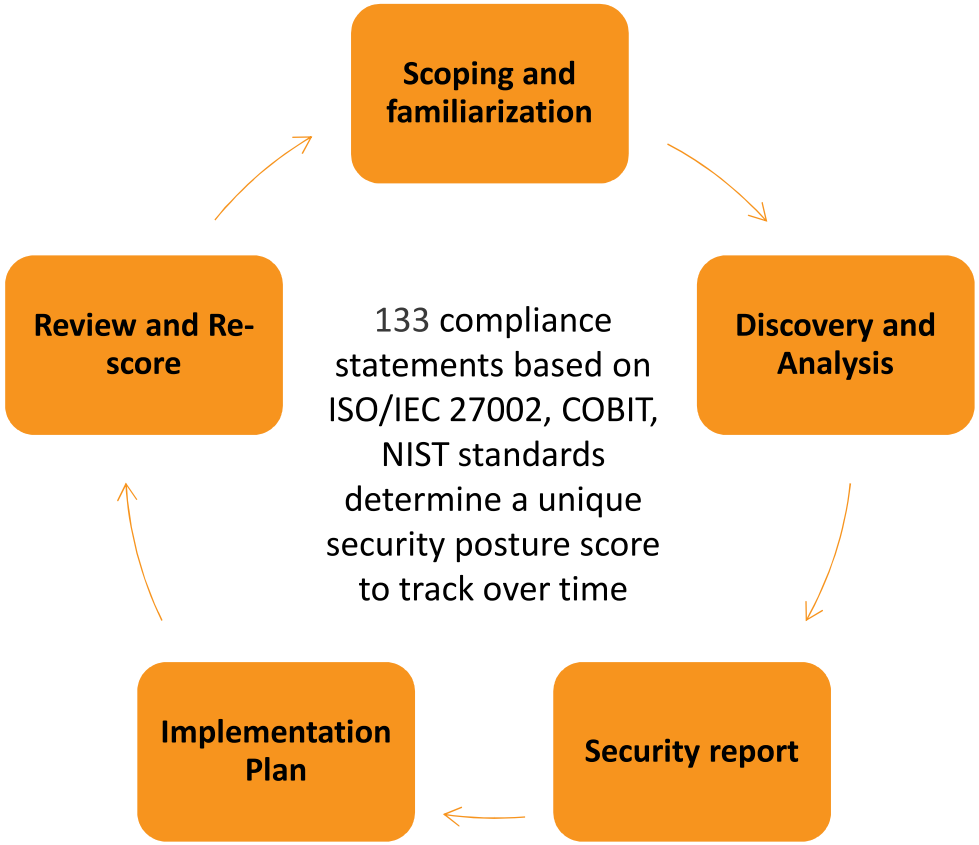
CUSTOMER OUTCOMES

	Activities	Outcomes
Network Reviews & Architecture Design	• ITS & Faculty/School alignment analysis • Network Operations maturity review • Campus, data centre, cloud network designs	• Massive data traffic growth identified • People, process maturity issues identified • Network fleet consolidation opportunity • New architecture model for growth/agility • Network security and automation options
Campus Network Refresh	• Multi-campus Network Refresh • Network Security & Access Control • Network Analytics (CMX, Net flow)	• Fit for purpose Bill of Materials • Minimal wired/wireless network disruption • Deployment of Video enabled phones • Enhanced network security and analytics
Network Security	• iBGP Implementation & Routing Support • NGFW RFQ & Palo Alto implementation • ISE 802.1X and Stealthwatch	• ITS and Cyber team coordination • Network Segmentation • Security control to networks and devices • Deployment of new security capability
Network Resiliency & Optimisation	• Multi-campus network resiliency • BGP/QoS network optimisation • Increasing Security FW control	• Highly available network connectivity • Primary Data centre migrated to co-lo • Multi-campus BGP enabled resiliency • QoS enabled support for VoIP/Video services

COMMERCIAL IN CONFIDENCE

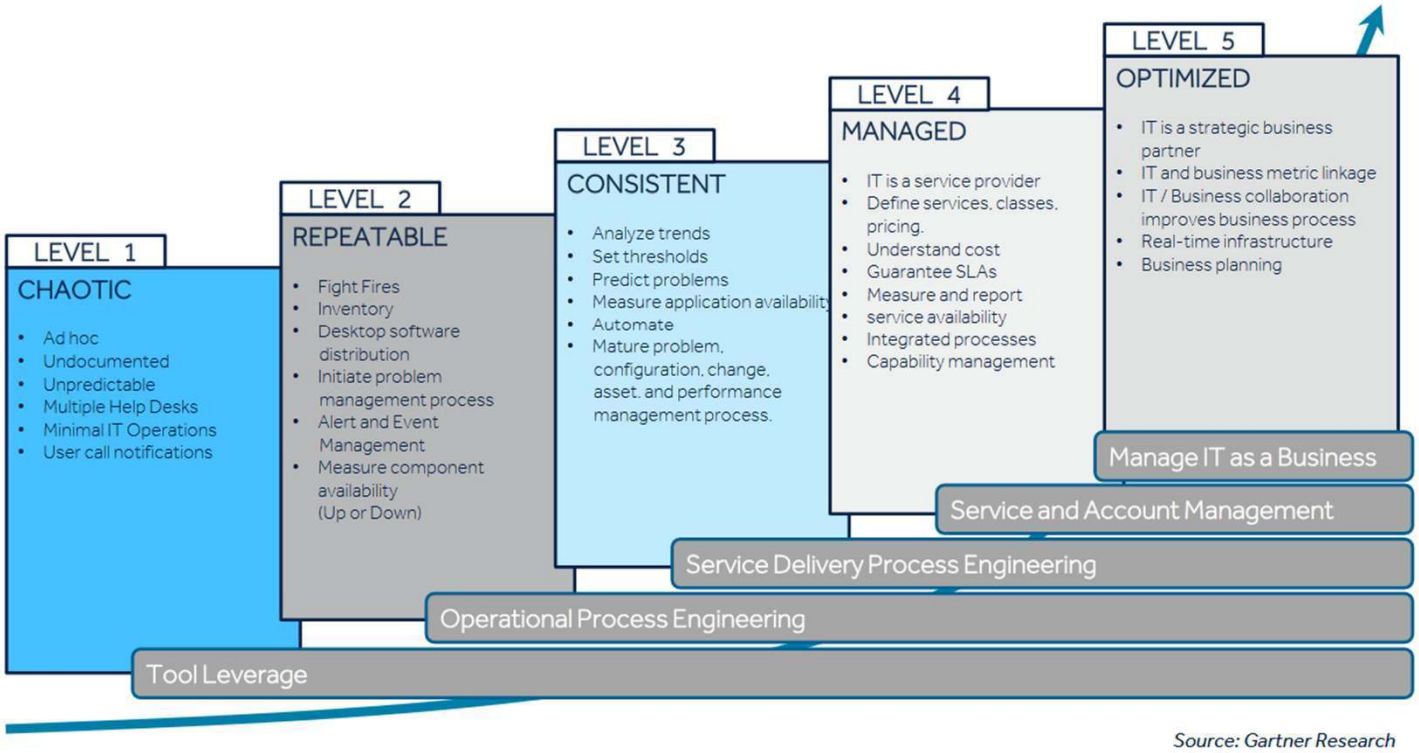
ROADMAP: NETWORK SECURITY REVIEWS

- Higher education tailored review of publicly facing services
- Evaluations of current security controls and their effectiveness
- Identify pragmatic improvements, aligned to customer risk appetite and priorities
- Anonymised scoring model showing security posture



ROADMAP: ENTERPRISE NETWORK AUTOMATION READINESS ASSESSMENT

SERVICE MANAGEMENT FRAMEWORK
SERVICE MANAGEMENT MATURITY OVERVIEW



Source: Gartner Research

OUR TEAM

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PRINCIPAL CONSULTANT - NETWORK ENGINEERING

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PRINCIPAL CONSULTANT - CAMPUS NETWORK MANAGEMENT

JAMES HORNE
TECHNICAL CONSULTANT - NETWORKS

YINGCHEN YU
NETWORK ENGINEER

GARETH D'SOUZA
NETWORK SECURITY ENGINEER

CURRENT SERVICE OFFERINGS

Engineer Assist

- Engineering tasks
- Blocks of hours

Network Assist

- Connect to AARNet
- Network Reviews
- Network Designs

Security Assist

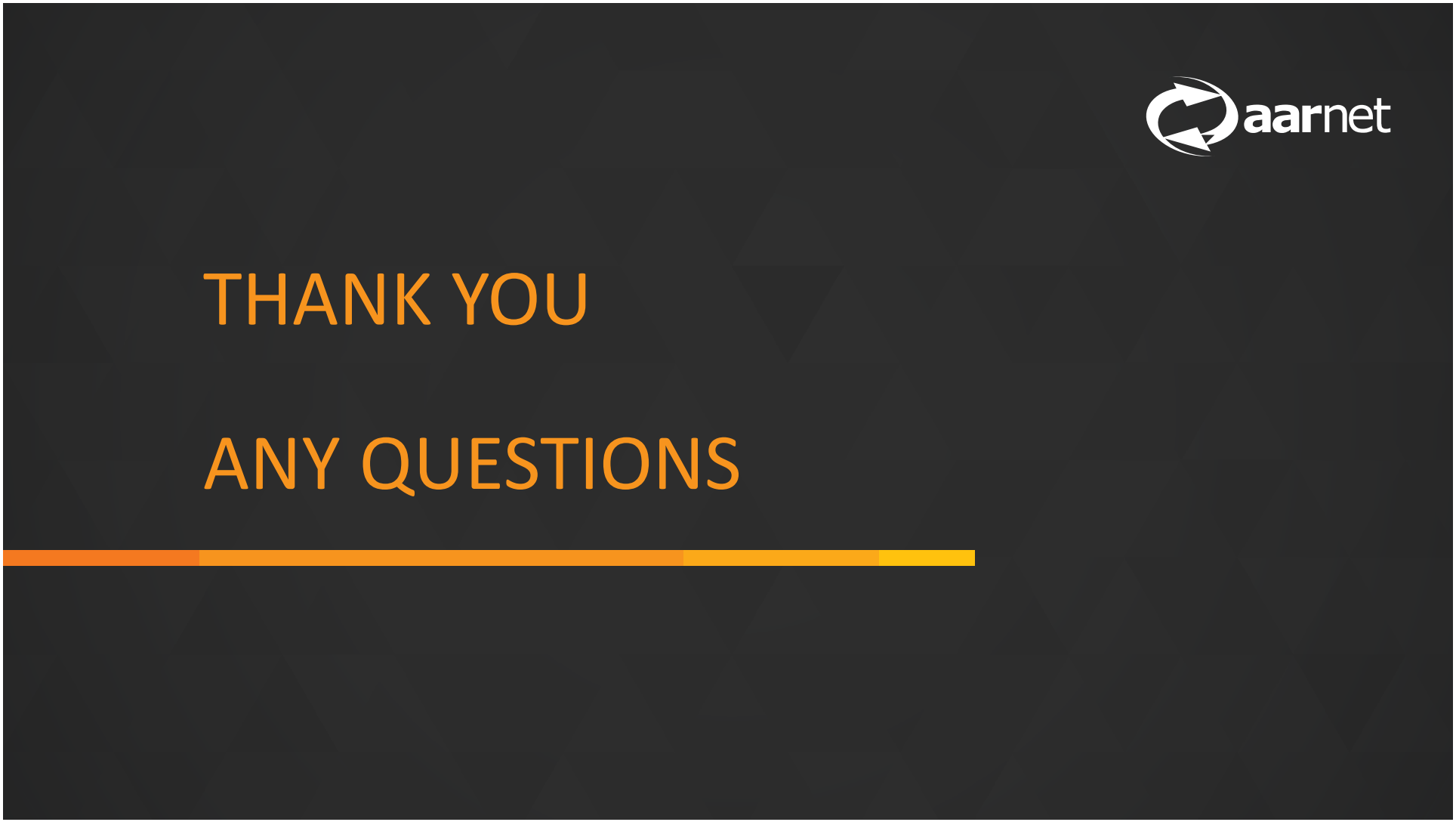
- Security reviews
- Posture scores
- Remediation

Tender Assist

- Technical drafts
- Supplier selection
- Acceptance Testing

Project Assist

- Network Refresh
- DC/Cloud migration
- Network Security / Automation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THANK YOU
ANY QUESTIONS

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