



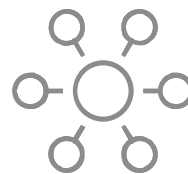
ENTERPRISE SERVICES



James Sankar
General Manager



Background



Trends



Customer Outcomes



Roadmap

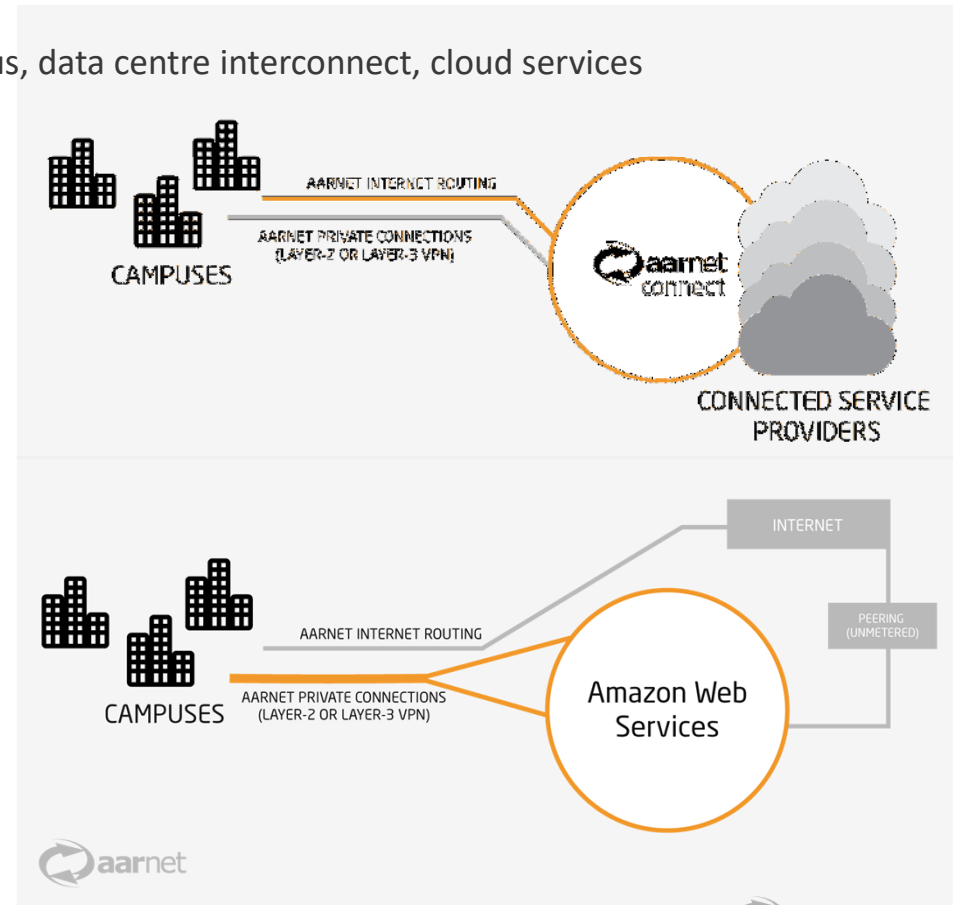
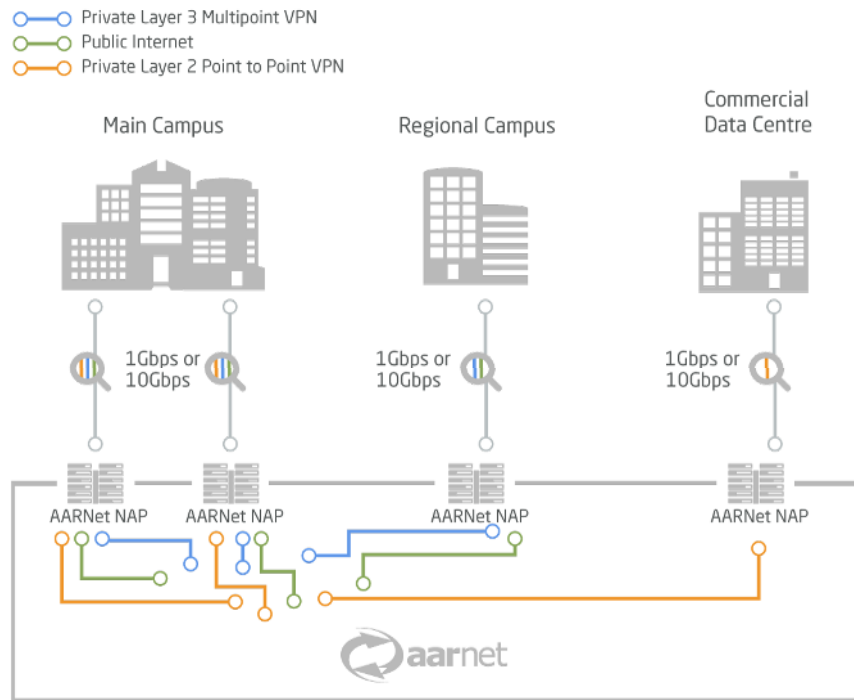
BACKGROUND

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



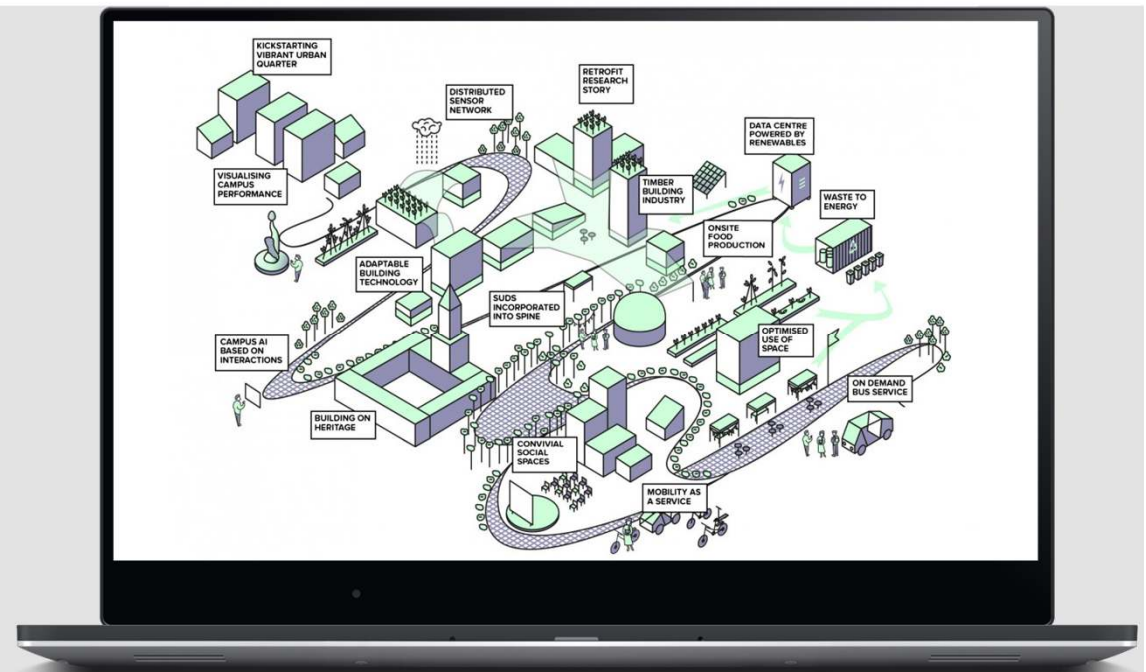
WIDE AREA NETWORK CONNECTIVITY OPTIONS

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/>

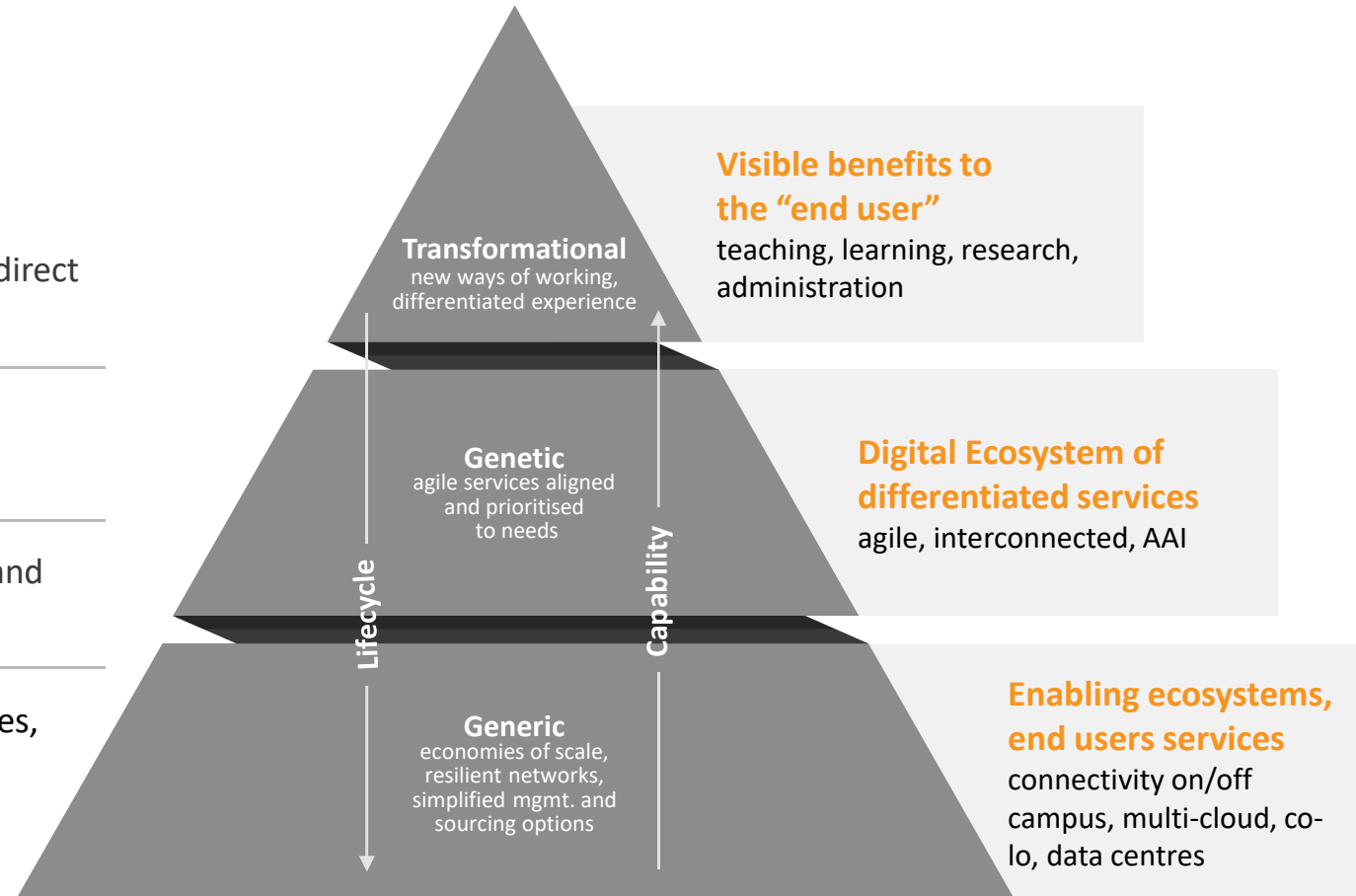
TRENDS

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



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

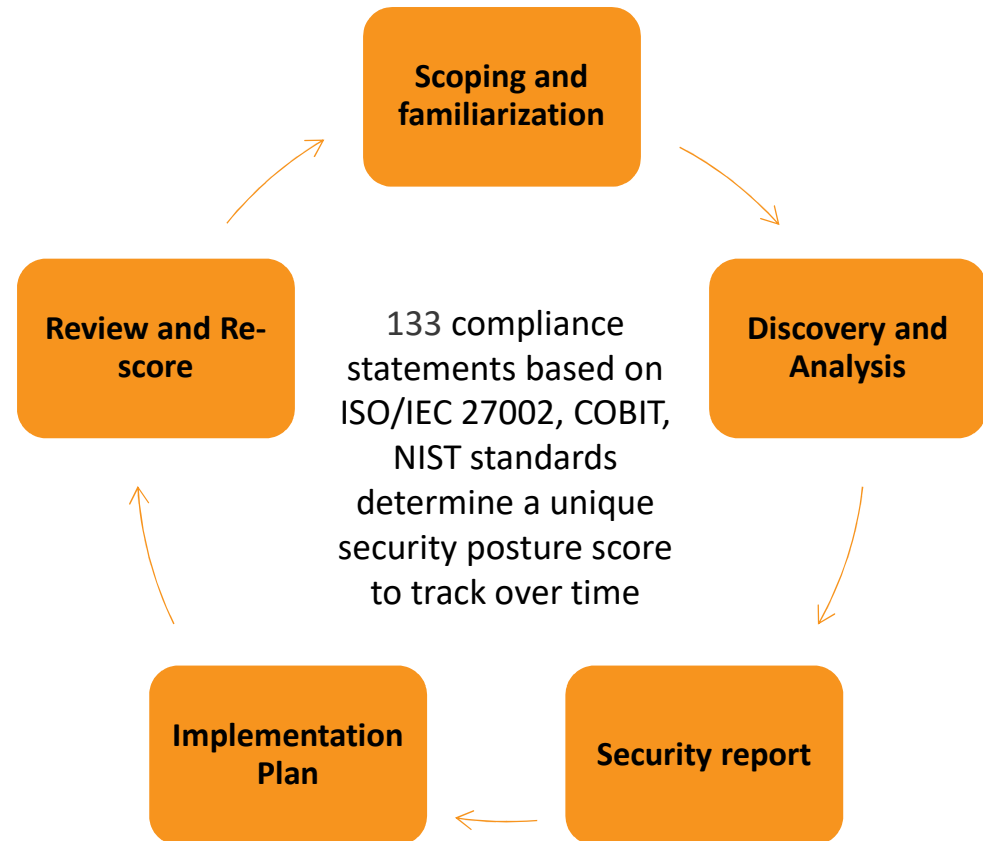
Network Resiliency & Optimisation

- 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

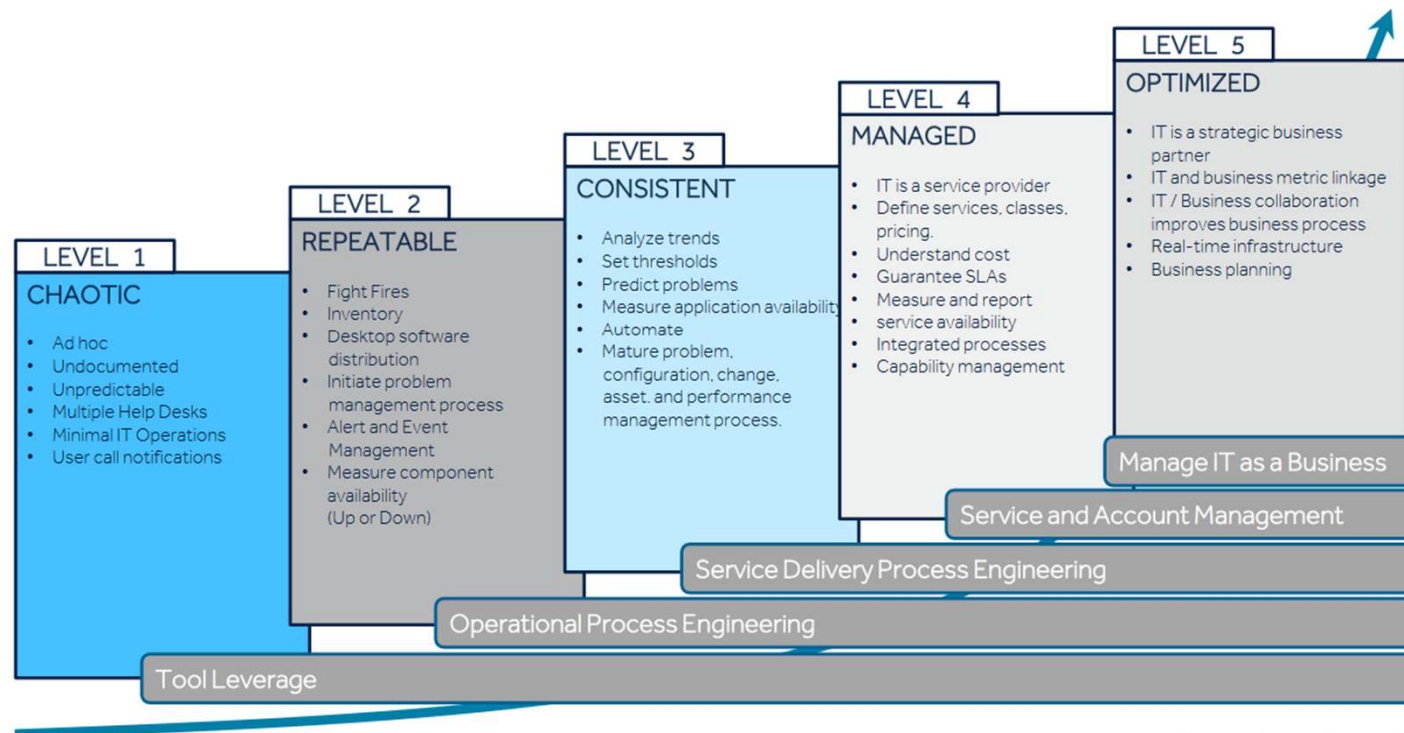
ROADMAP: NETWORK SECURITY REVIEWS

- 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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NETWORK ENGINEER
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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



THANK YOU

ANY QUESTIONS



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