COMPETITIVE EDGE OF NREN AND FINANCIAL SUSTAINABILITY

Accelerating knowledge creation and innovation to benefit future generations of Australians

aarnet Connect. Collaborate. Innovate.

Competitive Edge

Invest & Innovate

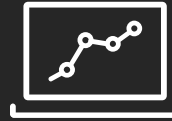Financial Sustainability

The Next Five Years

COMPETITIVE EDGE

COMPETITIVE EDGE OF AN NREN – AARNET'S VISION

Develop Value Added Services

AARNet is creating sector specific over-the-top services that add significant value to the network - i.e. video, cloud services, professional services, etc.

Invest & Innovate

As a trusted-advisor in the sector AARNet is investing in infrastructure & developing innovative services helping customers to simplify the way they teach, research and learn.

Global Services

AARNet is leading global collaboration with other NRENs to develop global services supporting data-intensive research.
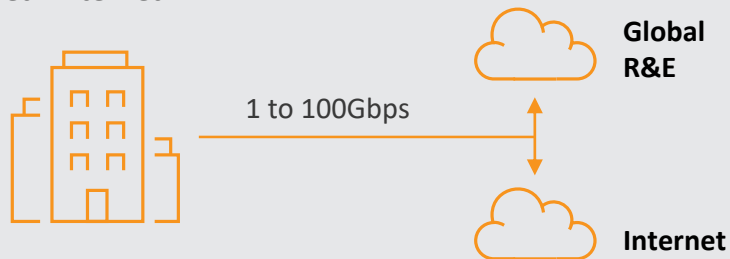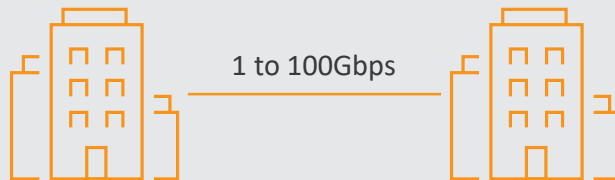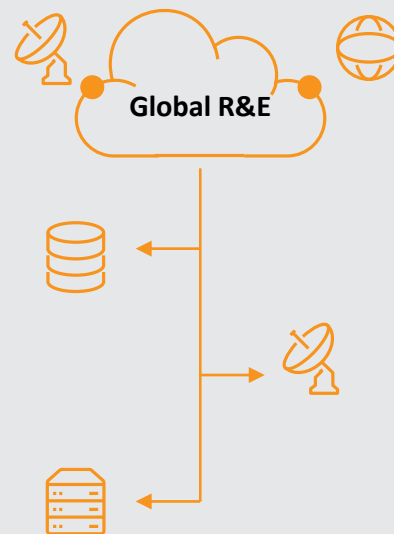
INVEST

MOVING DATA FASTER

Three 100gbps services

AARNet4 Internet

1 to 100Gbps

Global R&E

Internet

Private circuit

1 to 100Gbps

100Gbps for data-intensive research

Global R&E

INDIGO PROJECT

AARNet, Google, Indosat, Singtel, SubPartners and Telstra	Subsea fibre system: **9,000 km**
Sydney to Singapore via Perth	**First subsea project** with an NREN partner
Open, Spectrum Sharing Solution	Expected lifespan: **25+ Years**

JGA SOUTH PROJECT

RTI, AARNet and Google	Subsea fibre system: **9,500 km**
Sydney – Guam Boosts capacity from Australia to Asia	**Second subsea project** with an NREN partner
36TB Cable system	Expected lifespan: **25+ Years**

Minami-Boso
Japan

JGA North

Piti Guam

JGA South

Sydney

CAE-1 SINGAPORE TO LONDON

NREN Consortium
Nordunet SurfNet GEANT
Singaren TEIN∗CC AARNet

Led by AARNet
Contracted to TTI on new
cable SMWE5

Shared 100Gbps
Singapore to Marseilles +
redundant path
Marseilles to London

Long term IRU
15-20 years

Offestting timezones
Optimum use of financial
and technical resources

Continues Indigo
100Gbps Sydney to
London

London

Marseilles

Singapore

aarnet

INNOVATE

AARNET'S CLOUD SERVICE PORTFOLIO TODAY:

Peer

Connect

Partner

Build

Google

aws

zoom

cloudstor

Akamai

Azure

Panopto™

eduroam

11

ZOOM AND CLOUDSTOR 2018

zoom

Users (2018)	Meetings (2018)	Participants (2018)	Minutes (2018)	Cloud Recordings (2018)
106,683	495,973	2,036,826	91,045,385	403%
Tk% growth on 2017	104% growth on 2017	90% growth on 2017	94% growth on 2017	growth on 2017 storage used

cloudstor

Users (2018)	Primary data (2018)	Group Drives (2018)	File/Folders Shares (2018)
51,588	627 TB	668	158,481
38% growth on 2017	276% growth on 2017	292% growth on 2017	40 % growth on 2017

CONNECTED IN 2018
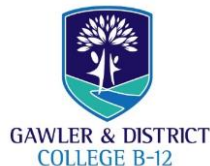
SECURITY PRODUCTS AND SERVICES

EWS

Early Warning System to detect issues caused by denial of service.

Allows teams to respond more quickly to incidents.

DDoS

Denial of Service detection and mitigation system based on Flowmon.

Go-live in Q2 2019.

SOC

AARNet Security Operations Centre

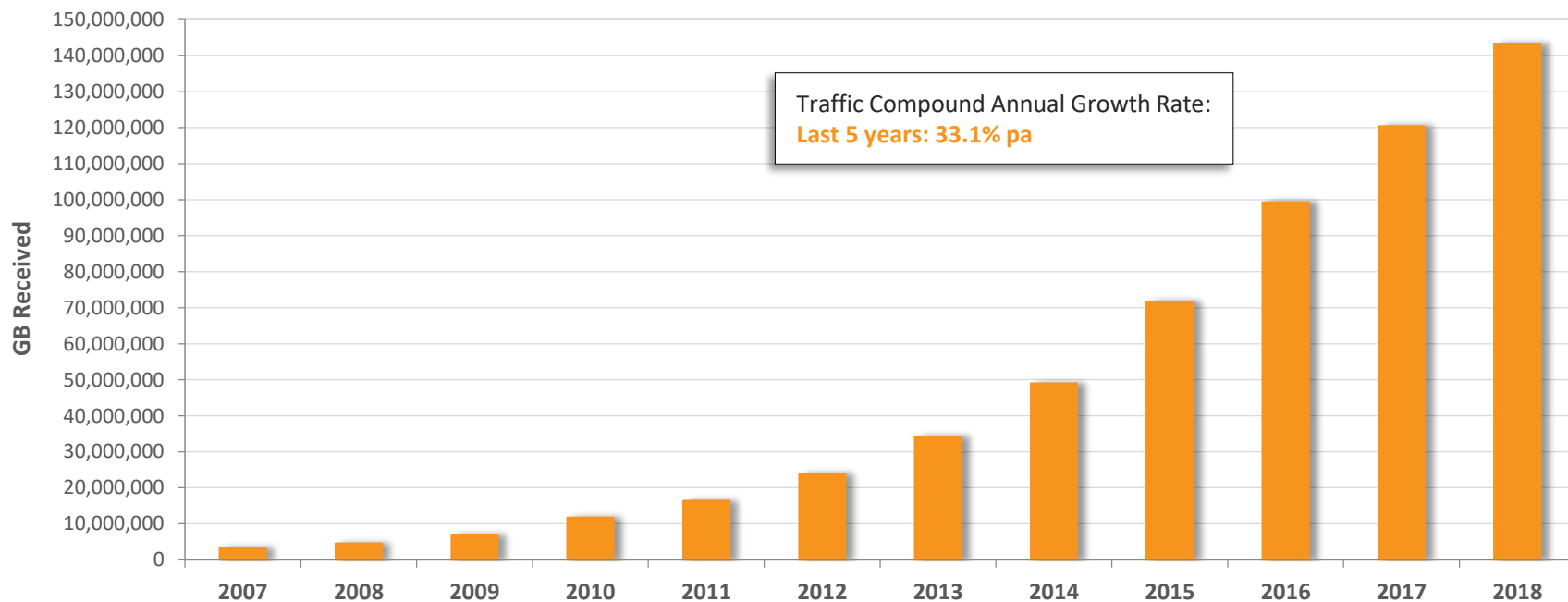Helping to safeguard the reputation of the sector.

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FINANCIAL SUSTAINABILITY

MEMBER TRAFFIC

Traffic Compound Annual Growth Rate:
Last 5 years: 33.1% pa

ADDING MORE VALUE TO CUSTOMER'S SUBSCRIPTIONS

VALUE ADDED

Increased clarity of the value proposition for customers.

Works against the commoditisation of our network services - Avoids a "race to the bottom" on price.

NETWORK COUPLED

Value-Added Services which rely on the network and increase utilization.

MISSION CRITICAL

For both AARNet and Customers
e.g. DDoS Mitigation reduces business risk for both AARNet *AND* Customers.

MUTUAL BENEFITS

Are benefits evening spread across all members?   (e.g. eduroam)
AARNet must continue to listen to its customers.

THE NEXT FIVE YEARS

STRATEGIC PLATFORM

Operate and advance Australia's Research and Education Network

Engage and grow the Research, Education and Innovation communities

Develop services to meet the needs of our customers

Ensure financial sustainability

Evolve and optimise our organisation

OPERATIONAL PLAN

STRATEGIC PRIORITIES - NEXT 5 YEARS

Network Infrastructure	Health & Medical Research Infrastructure	National Collaborative Research Storage Platform	Cyber Security Capability, Services and Infrastructure	Regional Digital Infrastructure	Customer Value
JGA Indigo Triversity	Scoping & Assessment MRI Engagement Australian Bioinformatics Commons	ARDC CloudStor	Security Services Security Operations Centre DDoS Early Warning System Content Filtering	Triversity	Digital Transformation Data Analytics

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THANK YOU

ENTERPRISE SERVICES

Managed Services

Vendor specific option, ITSM and network management platform dependency

Campus Network Management	Customer On Premise "Edge" Management	AARNet hosted "Edge" Management

Professional Services

Vendor agnostic, independent

Engineer Assist	Network Assist	Security Assist	Tender Assist	Project Assist