



Developing a sustainable e-Research framework in New Zealand

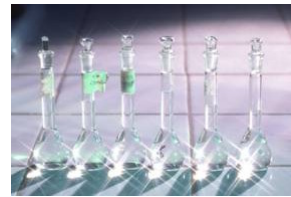
eResearch Australasia
September 2008

Introduction

- The landscape in New Zealand
- Tackling barriers to eResearch uptake
- Securing the Future of eResearch in New Zealand

Who is involved in research in New Zealand?

- Ministries – MoRST, Ministry of Education
- Delivery agencies – FRST, HRC, RSNZ, TEC
- Eight universities
- Nine Crown Research Institutes
- Private research organisations
- Firms



Broader ePolicy in New Zealand

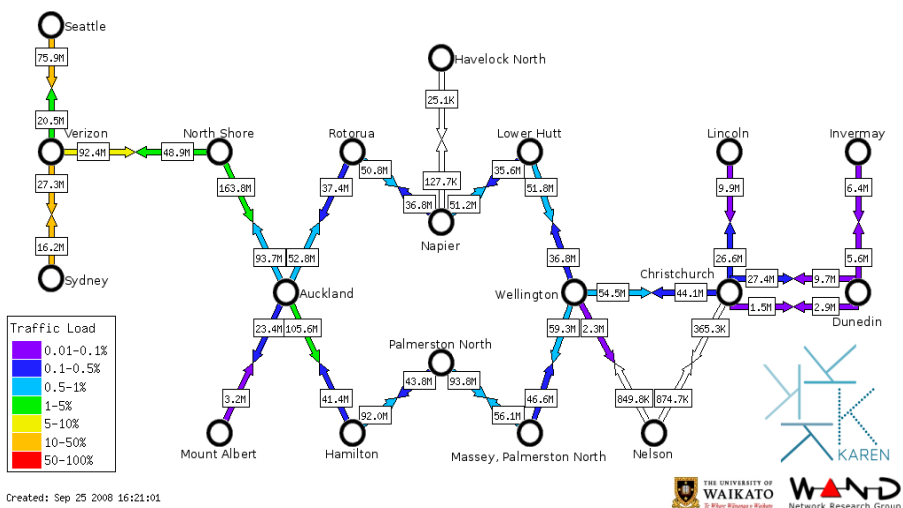
- Digital Strategy 2.0
- eGovernment and Government Networks
- Digital Content Strategy
- Digital Continuity Strategy
- ICT Framework for Education
- REANNZ

History

- 90s, early internet => telcos
- Agitation by visionaries, late '90s early '00s
- Rita Caldwell stimulus, '03
- Steering group develops policy and business case, '03-04
- Cabinet provides \$43m late '04
- REANNZ incorporated '05
- Signing network contracts, March '06
- Launch, August '06
- Live, November '06



KAREN

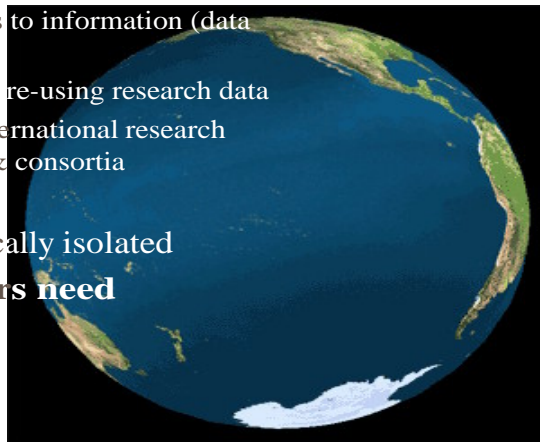


eResearch landscape in NZ

- < 2 years old
- eResearch is not widely recognised in NZ
- NZ researchers in 'early adopter' phase
- Lack of awareness (esp senior personnel)
- Funding for infrastructure limited
- *But* (international) NZ research collaborations increasing

Why is eResearch important in NZ?

- NZ Researchers need:
 - real-time access to infrastructure
 - real-time access to information (data repositories)
 - to add value by re-using research data
 - to be part of international research collaborations & consortia
- NZ is geographically isolated
- **NZ Researchers need eResearch**



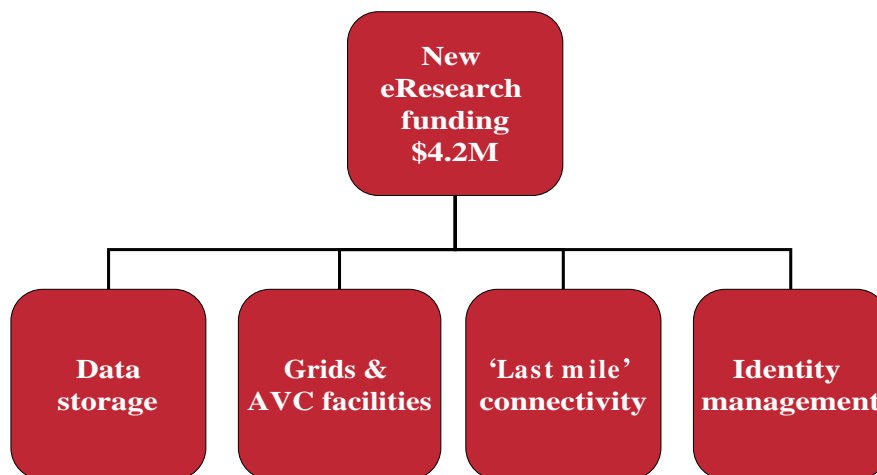
MoRST role in eResearch?

- eResearch complements NZ Govt prior investments (e.g. Synchrotron, KAREN etc)
- eResearch involvement in new infrastructure investments (RIAG)
- eResearch enhances various NZ Govt policy (DS 2.0, ICT Framework for Education)
- eResearch underpins all new research investment globally

Approach to support New Zealand eResearch development

- Mainstreaming eResearch
 - Assessment and evaluation of existing facilities globally and in NZ
 - Investment case developed & new funding obtained to fill gaps
 - Investment distribution process underway
- Supporting eResearch Policy development underway (e.g. identity management)

New eResearch funding for 2008/09



eResearch funding – storage

- OECD guidelines & principals encourage 'open access to research data'
- Digital Strategy 2.0 directive
- Need to create 'places' to store data
- Policy development overlaps with:
 - MoRST work streams
 - NLNZ work streams
- Funding for storage (repositories) obtained

eResearch funding – Grids & AVC

- Distributed computing will create improved facilities for researchers
- Need to create/develop specialist tools to help some researchers to use facilities
- Need more support for researchers to use grids & AVC frequently for collaborations
- Funding for new tools and additional support obtained

eResearch funding – ‘Last mile’

- Researchers need to connect to KAREN to make most use of facilities
- Fibre provision in NZ is low
- ‘Last mile’ cost is high (esp for research centres)
- Funding for ‘last mile’ to get researchers connected obtained

eResearch funding – Identity & Access Management

- Researchers need to be confident about security of data transit
- Funding IAM will support safe transit measures for research data
- Funding for IAM to develop confidence & encourage sharing obtained

eResearch funding – filling the ‘gaps’

- Researchers need additional facilities to develop eResearch capability in NZ
- Researchers need services to develop eResearch capability in NZ
- Funding should increase eResearch capability
- eResearch capability will increase Network usage

eResearch – some key challenges cont

- Lack of awareness
- Lack of priority for organisations
- Change of behaviour needed
- Limited additional funding for research
- Network costs for KAREN users
- Ad-hoc projects non sustainable long term

eResearch – Future work/directions

- Grant awards of funding during 2008-2009
- Secure network future
- Integrate with research funding
- Evaluation of eResearch investment (2009 onwards)
- Additional funding sought if necessary

Summary

- eResearch is fundamental to investment in research in New Zealand
- KAREN is the key eResearch infrastructure in New Zealand
- Approach is to 'mainstream' eResearch
- New eResearch funding will fill 'gaps' to allow broad adoption

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eResearch funding in New Zealand

