



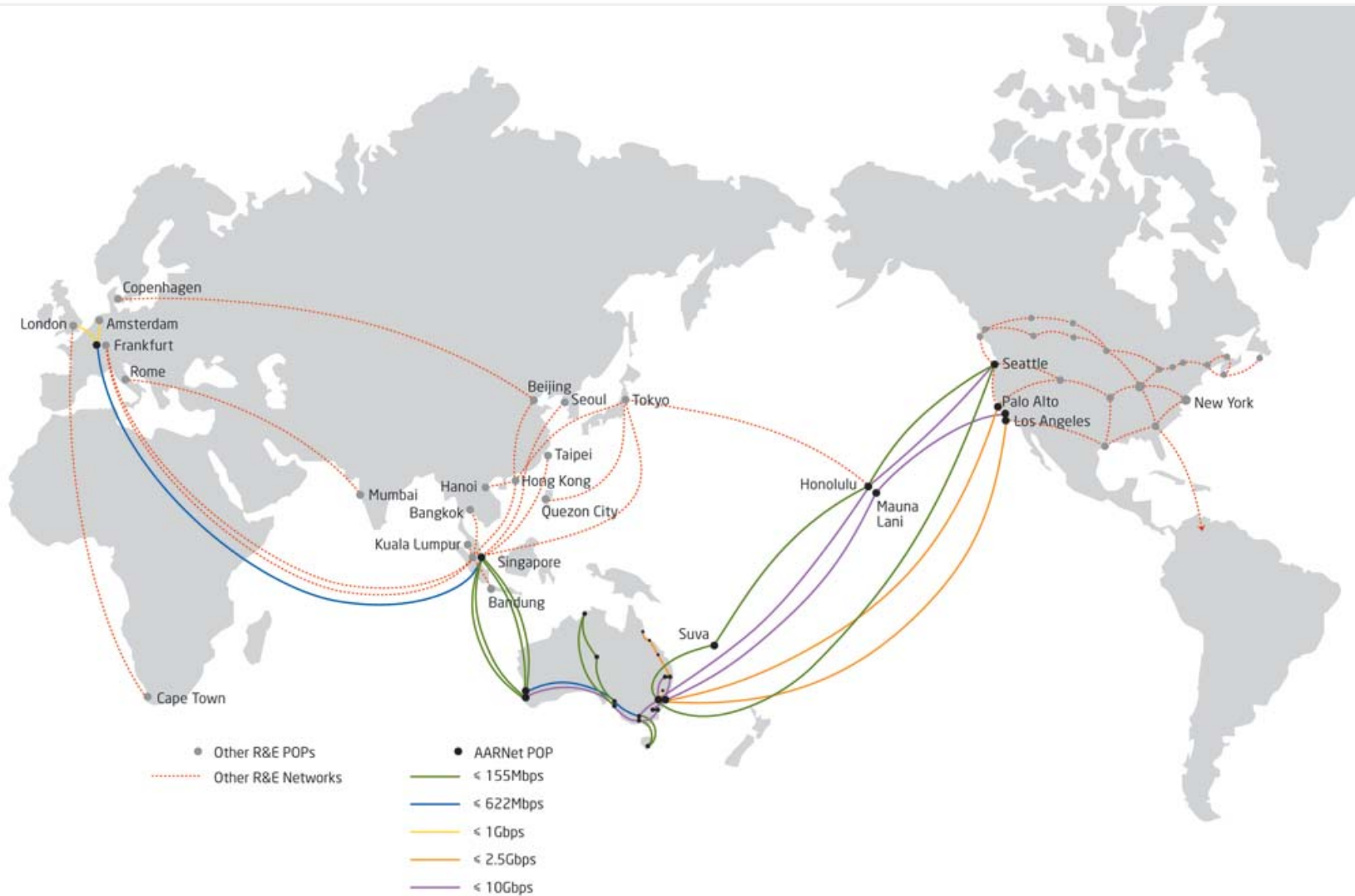
8th Annual Global LambdaGrid Workshop  
Seattle, 1-2<sup>nd</sup> October 2008

AARNet GOLE Update

Ivan Philips

[Ivan.philips@aarnet.edu.au](mailto:Ivan.philips@aarnet.edu.au)

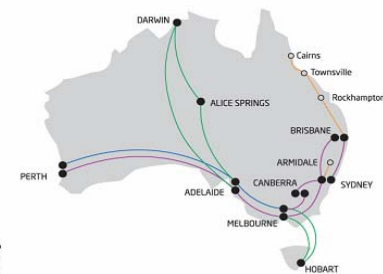
# AARNet – Australia's NREN



# Domestic Footprint



AARNet National Network 2006



- AARNet POP
- < 155 Mbps
- < 622 Mbps
- < 2.5 Gbps
- < 10 Gbps

# Optical Network

- Cisco ONS 15454 MSTP
  - 32 DWDM Channel System
  - 3 channels lit today
    - 1 x 10G IP National IP network
    - 2 x STM-64 National TDM (SDH) Network
- Cisco ONS 15454 MSPP
  - GFP 1G LP
  - CE-1000-4 Line Cards
  - Over 60 point to point circuits
- SCCN STM-64 to Hawaii/CENIC

# IP Network

- 10G IP Backbone
- Juniper M320 IP Core
- Cisco 7600 Aggregation
- Cisco 7304 for 1G Access Cisco 7604 for 10G Access
- Peering
  - 533 Peering Adjacencies
  - SeattleIX, PAIX, LAIX, Any2, AMS-IX, DE-CIX and LINX

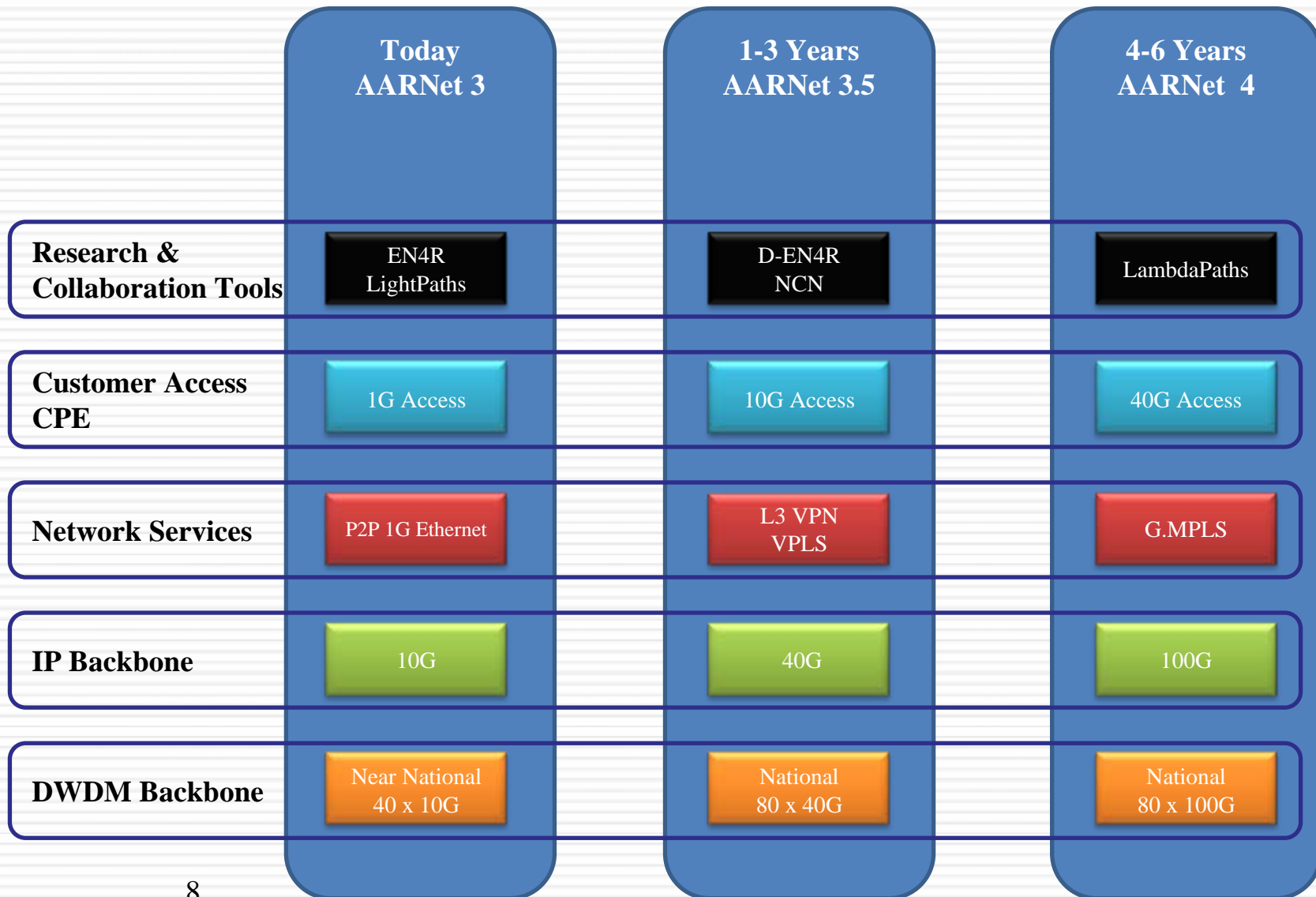
# Past LightPath Activities

- October 2007
- eVLBI - ATNF to JIVE under EXPReS
- 3 x 1G – (CENIC, CANARIE, SURFNet, PacificWave, StarLight, NetherLight)
- August 2007
- China & Australia to JIVE
- 1G LP from AU to Jive
- January 2008
- OptiPuter –Uni Melbourne to USCD (CENIC, PacificWave)
- 1 x 1G light path and IP network
- June 2008
- eVLBI – China, Japan and Australia
- China – 1 x 622M (CENIC, CSTNET, PacificWave, HKOEP)
- Japan – 1 x 622M (CENIC, JGN2, PacificWave)
- Narrabri, AU – 1 x 1G to Parkes
- MOPRA, AU - 1 x 1G to Parkes

# Going Forward

- Fibre build business is booming!
  - Over 120 construction projects
  - Metro, urban, regional
  - 100's of meters to 100's of kilometres
  - CSIRO/ATNF & ASKAP (SKA Pathfinder) - ~450Km fibre build
- Building a new DWDM regional spur (Parkes to Sydney) ~350Km
- Looking to deploy DCN/DRAGON
- Deploying 10G IP access and national VPLS network
- As always we need to find more domestic users and international users of LightPaths

# AARNet Network Roadmap





# The End

