

# Case Study



## Australia

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NTW Track 4

# Phase 1



- The Enthusiasts
- 1984 - 1989
- uucp-styled mail connectivity
- university computer science project
- modems and X.25 trunks

# 1989 - Initiative

89 90 91 92 93 94 95 96 97 98 99

↑  
AARNet

Initiative to create a national university network  
Australian Vice-Chancellors' Committee program  
Multi-protocol design  
Seed funding from Australian Research Council  
56Kbps link Melbourne - Hawaii

# 1990 - Implementation

89 90 91 92 93 94 95 96 97 98 99



AARNet

Initial Network Roll-out

48Kbps national network using star topology

TCP/IP and DECnet protocol support

2Mbps Melbourne - Canberra - Sydney

38 sites - universities

academic and research funding base

128Kbps link - Melbourne - Hawaii

email, usenet, ftp

# 1991 - Academic Network

89 90 91 92 93 94 95 96 97 98 99




↑  
AARNet +

Resale to academic and research partners  
2Mbps links to Brisbane, Adelaide  
TCP/IP Internet network  
academic and research funding base  
256Kbps link - Melbourne - US West Coast  
email, usenet, ftp, gopher, wais  
library uptake in information resource activities

# 1992/93- Expansion

89      90      91      92      93      94      95      96      97      98      99



AARNet +

Commercial resellers of Internet dial access  
Research Data Network funding initiative  
768Kbps link - Melbourne - US West Coast  
email, usenet, ftp, gopher, wais  
multicast audio/video conferencing experiments

# 1994 - Commercial Internets



89      90      91      92      93      94      95      96      97      98      99



Multiple Australian Internet Service Providers

Multiple Australia - US links

2Mbps total capacity

The World Wide Web takes over the net!

# 1995 - The National Internet

89 90 91 92 93 94 95 96 97 98 99



Telstra purchases AARNet

Australia - US capacity expanded to 10Mbps

Dial Access providers expand:

Ozemail, Access One, connect.com.au, On Australia,.....

Netscape dominates the Web market

Internet Commerce viability

150 Internet Service Providers in the market



# 1997

89 90 91 92 93 94 95 96 97 98 99

A horizontal timeline bar is shown below the years. It is a solid brown line. An arrow points upwards from the text below to the year 1997 on the timeline.

Australia - US capacity expanded to 130 Mbps

550 Internet Service Providers

Access market opens to include:

- cable modem access

- dial - isdn

Large scale industry investment in Internet markets



89 90 91 92 93 94 95 96 97 98 99

Australia - US capacity expanded to >600 Mbps  
650 Internet Service Providers  
Regulatory Involvement now visible

Futures ...

ADSL technologies for access

QoS

VPNs