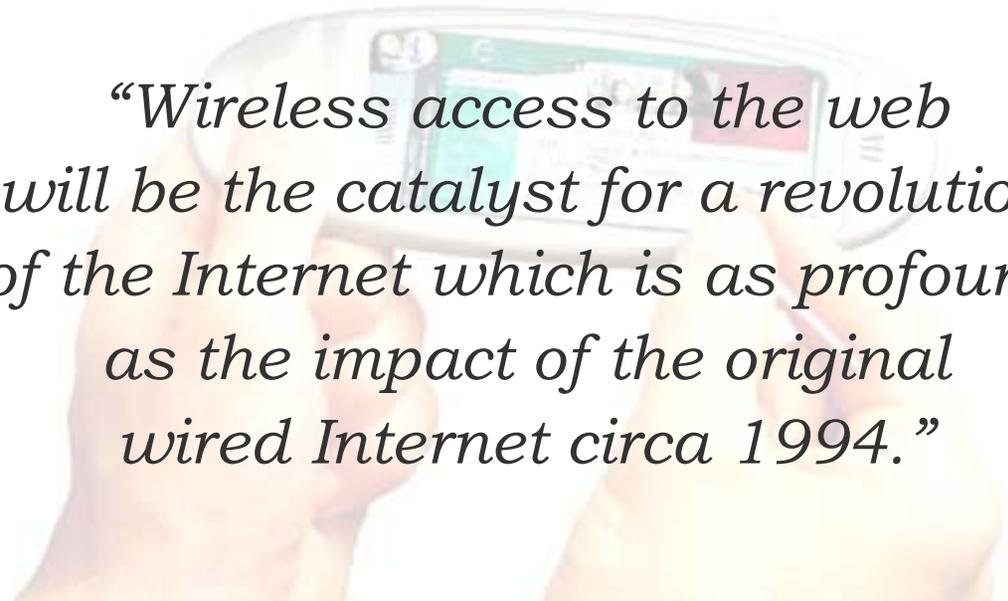# The *mNet Australia* Project

*"Wireless access to the web
will be the catalyst for a revolution
of the Internet which is as profound
as the impact of the original
wired Internet circa 1994."*

www.gartner.com

Mobility is the future of the Internet

mNET

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Australian Government
$40m Advanced Networks Program

- program aimed at creating leading edge telecommunications networks for economic benefit.

- mNet Australia project - one of three proposals funded;

- mNet to work with GrangeNet and CeNTIE to:
  - Promote advanced networks
  - Collaborate on research
  - Influence standards
  - Establish model for Interconnect into regional areas
  - Provide complementary services to industry

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Snapshot - the mNet project

$9.23 million in funding from the Australian
Government to:

- Establish wireless communication networks

- Undertake advanced wireless research

- Support development of applications

The network is part of a $30 million project to make Australian
companies key players in the next wave of the Internet.

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Snapshot - the mNet network

Core network

- 3G cellular mobile radio base stations along North Terrace in Adelaide

- Base stations linked by optical fibre

- Wireless LANs covering selected buildings and spaces
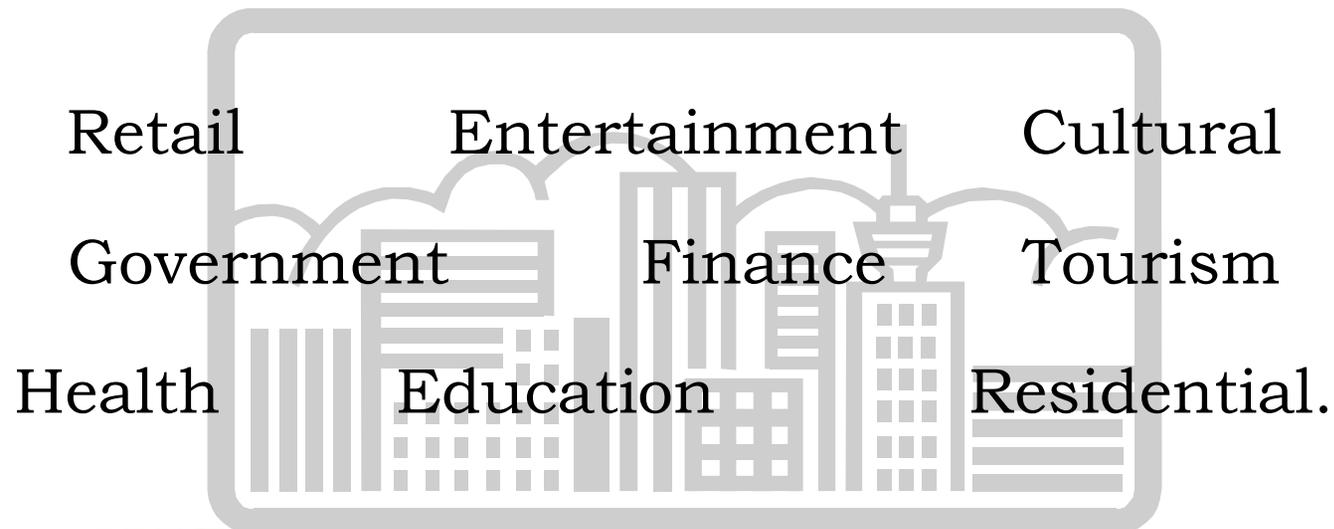
Regional node

- Cellular network extended to Whyalla - to explore the delivery of health and education services to regional areas

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mNet location of core network

North Terrace, Adelaide.

- A well defined microcosm of business, cultural and recreational activity.

Retail   Entertainment   Cultural

Government   Finance   Tourism

Health   Education   Residential.

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mNet Corporation Ltd

The mNet consortium has established an unlisted public company - *mNet Corporation Ltd*

<u>Board Membership</u>

- Prof Mike Miller (Chair)   University of SA
- Mr Gary Ballantyne   Alcatel Australia
- Dr Chris Beare   Consultant
- Mr Tony Bundrock   Telstra Corporation
- Prof Reg Coutts   Adelaide University
- Mr Peter Karidis   Airnet Commercial

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mNet Stakeholders

3 universities:

University of South Australia

Adelaide University

Flinders University

3 Carriers:

Telstra, Agile & Airnet

Multinational ICT Companies:

Alcatel, Cisco, Compaq, CSC & Motorola

Australian Developers:

Aspect Computing

BetterHealth Global

Chimo

DSpace

Imagination Entertainment

Knowledge South

Medical Communications Associates

Also: SA Govt, Playford Centre & The City of Adelaide

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mNet Research Programs

To develop core intellectual property:

Examples:
- Wireless LAN deployment in wide area networks
- Connection handover 3G/wLAN
- Third generation network architectures
- Research to support 3G application development
- Voice over Internet protocol (VoIP)

mNet Corporation will commission research into the practical issues that emerge in the deployment of advanced networks.

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mNet Industry Programs

To support application development in 6 areas:

- Conventions & Tourism (eg WCIT 2002)
- Tele-health & other Health Informatics
- City E-business / mobile commerce
- Education
- New media & entertainment
- Intelligent Transport

The mNet network will enable Australian commercial developers to profit from an investment in developing new mobile Internet applications and services

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Conventions and Tourism

First Deliverable:

World Congress on Information Technology 2002

- Wireless LAN (802.11b) supporting Compaq iPaqs for delegates
- Coverage extends to selected hotels
- Congress specific wireless services and applications
- Planned demonstration of 3G networks

The mNet network will enable Australian commercial developers to profit from an investment in developing new mobile Internet applications and services

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Health Informatics Program

Support for the development of wireless health applications:

Examples:

- Remote access to electronic health records
- Decision support systems with greater mobility
- Tele-medicine - anywhere to anywhere
- Rural and regional delivery of health services
  (SA Centre for Remote and Rural Health in Whyalla)

The mNet network will enable Australian commercial developers to profit from an investment in developing new mobile Internet applications and services

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A focus on Commercialisation

- mNet will support the creation of new products and services.

- mNet will provide strategic services to help commercialise these developments.

- mNet Corporation - a flexible structure to facilitate joint ventures for commercialising technology and applications.

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Opportunity for Developers

- Australian companies will be able to join the mNet developer community

- For further information, register your interest at the mNet website:

  www.mNetCorporation.com

Positioning Australia to profit from leadership in the application
of next generation telecommunications technology

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Conclusion

- The *mNet Corporation* network will deliver:

- An advanced Mobile Internet research environment

- A sophisticated test bed - development of applications and services for the new economy

- Support for the commercialisation of Australian mobile Internet technologies and applications

Positioning Australia to profit from leadership in the application
of next generation telecommunications technology

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The *mNet Australia* Project

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