

Dr Gordon Howell Mr Chandana Silva

QUESTnet Conference 2008

Outline of this presentation

- PNG Context
- History and Problem
- Member institutions
- Technology
- Project status
- Collaboration with AARNet



PNG is one of the most diverse countries on Earth Approximately 6 Million people over 850 indigenous languages





PNG Context

87% of the country's population is living in rural areas .

Only 3% of roads are paved and many villages can only be reached on foot.

Most travel between provinces is by air.

The capital, Port Moresby, is not linked by road with the rest of the country.

Overall the national geography makes the delivery of Education services very challenging



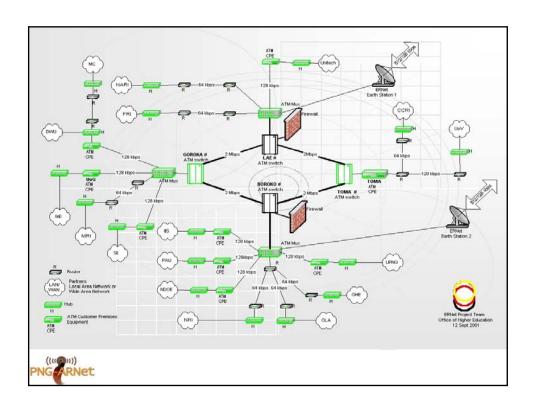


PNG Education and Research Network History

May 2001 CEO of AARNet, Mr George McLaughlin met with PNG Universities to discuss an Education and Research network for PNG

ERNet Proposal





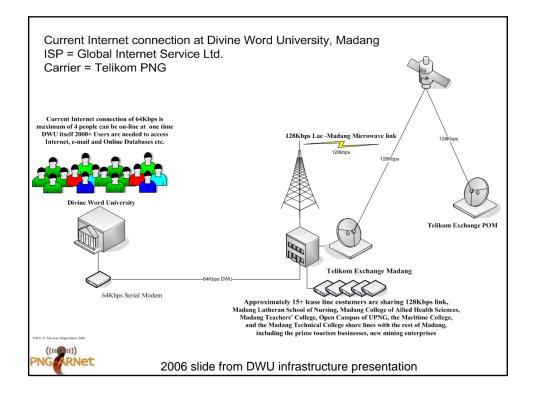
PNG Education and Research Network

2001 ERNet Proposal

2001 to June 2008

Each institution has links comprising 64K links





PNG-ARNet Pilot Project

May 2006 Prime Minister of Papua New Guinea (Sir Michael Somare) launched pilot project at DWU based on satellite technology

2.4m Ku Band receiver

Download 1024Kbps Upload 256Kbps







Using satellite technology since April 2006

Campus wide network since 2000 4km Fibre Structured cabling 900+ computers

Leading in PNG-ARNet

Track record in delivering on aid projects



DWU Friendship Library



Satellite dishes



DWU e-research centre



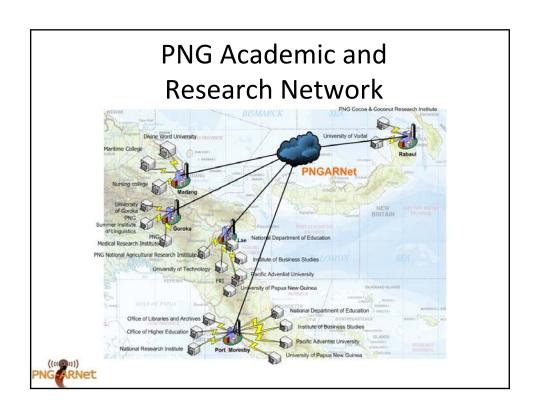
PNG Academic and Research Network 2008 and onwards

3.7m C band Antenna at DWU

Download 5Mbps Upload 1Mbps







PNG-ARNet Services

Email for all users
Internet access for all users including access to full text databases.
E-Learning courseware (e.g. Moodle) availability 24/7
Shared data stores and collaborations with other universities
Real-time videoconferencing
Real-time online research capacity
Access to the international education and research networks

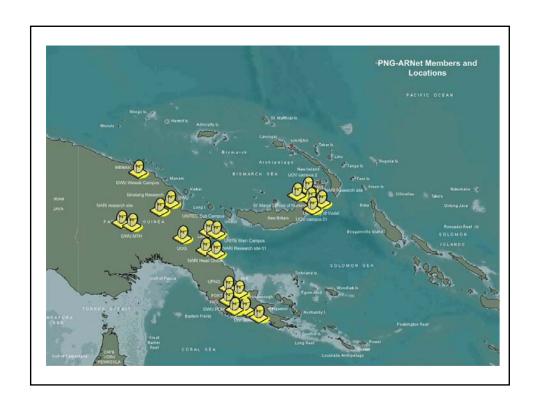


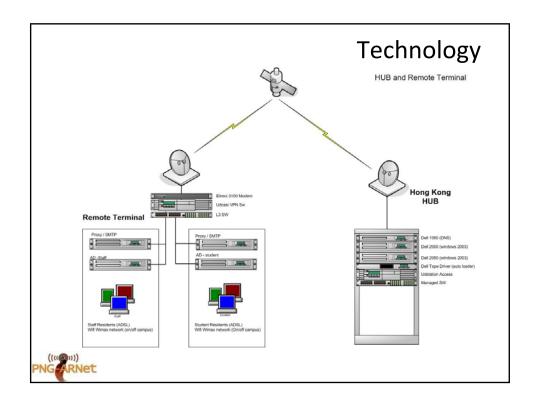


PNG Universities and Research institutes

- Institute of National Affairs (INA)
- National Department of Education (NDOE)
- Commission for Higher Education (CHE)
- Office of Higher Education (OHE)
- Office of Libraries and Archives (OLA)
- Pacific Adventist University (PAU),
- PNG Forestry Research Institute (PNGFRI)
- PNG Medical Research Institute (PNGMRI)
- PNG National Agricultural Research Institute (NARI)
- PNG National Research Institute (NRI)
- PNG University of Technology (Unitech)
- PNG Summer Institute of Linguistics (SIL)
- University of Goroka (UOG)
- University of Papua New Guinea (UPNG)
- University of Vudal (UOV)
- Divine Word University (DWU)











Technology Implementation





Is real Challenge







Hong Kong Data centre

DNS and Web Servers Open Source (FreeBSD) e-Learning Server (Moodle)





Project Status

May- June 2008 dishes installed at 21 sties including

DWU 7 Unitec 2 UPNG 1 PAU 1 UOG 1 UOV 2

NARI 6 NRI 1

In progress IMR





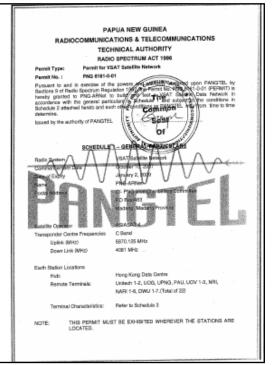


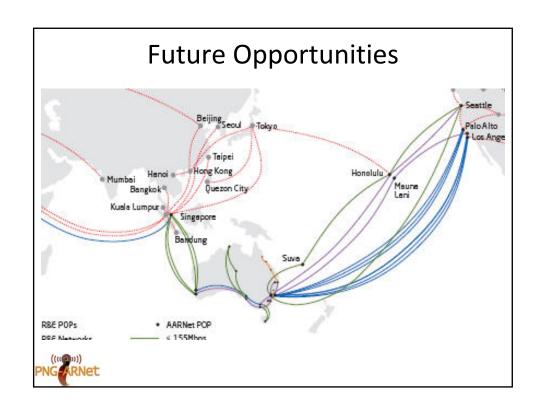
Project Status

2 July 2008

Permit approved by PANGTEL System goes live







Future Opportunities

Signed MoU with AARNET 1 July 2008 in Port Moresby by Mr Chris Hancock (CEO AARNET) Hon Michael Ogio,CMG, CBE, MP (PNG Minister for Higher Education) Fr Jan Czuba (Chairman PNG-ARNet)









Questions



The University of Goroka











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Dr Gordon Howell is currently Manager Learning Environments Support at Queensland University of Technology. In this role he is responsible for the support and enhancement of the technology in the university's 200 lecture theatres, lecture rooms, tute rooms, and video conference facilities and the deployment and operation of QUT's 3000 (Approx) public access computers. Dr Howell is also Technology Advisor to Divine Word University (PNG), and has provided strategic advice on the introduction of PNG-ARNet.

He has had in excess of 20 years experience within education and technology management; having worked as a Research Fellow at the University of Queensland; Manager Client Support Services (IT) at Australian Catholic University where he was responsible for the management of the IT and technology support for Australian Catholic University's 1000 staff and 10 000 students encompassing 6 campuses in 4 states with 200 learning spaces; and as Acting Director IT where he oversaw the introduction of the first end to end VoIP network in the Asia Pacific.

Dr Howell has provided consulting services both within Australia and PNG for high quality, sustainable IT solutions. His particular area of interest is appropriate technology deployment supporting the learning paradigm of social constructivism.



Mr Chandana Silver Email: csilva@dwu.ac.pg

Chandana Silva has been the IT manager at Divine Word University since 2003. During this time DWU has deployed a campus network based on fibre backbone, structured cabling, with both satellite and terrestrial internet links. Chandana's involvement has enabled DWU to become the leading institution in the planning and implementation of PNG-ARNet. Chandana is currently the operations manager for PNG-ARNet.

