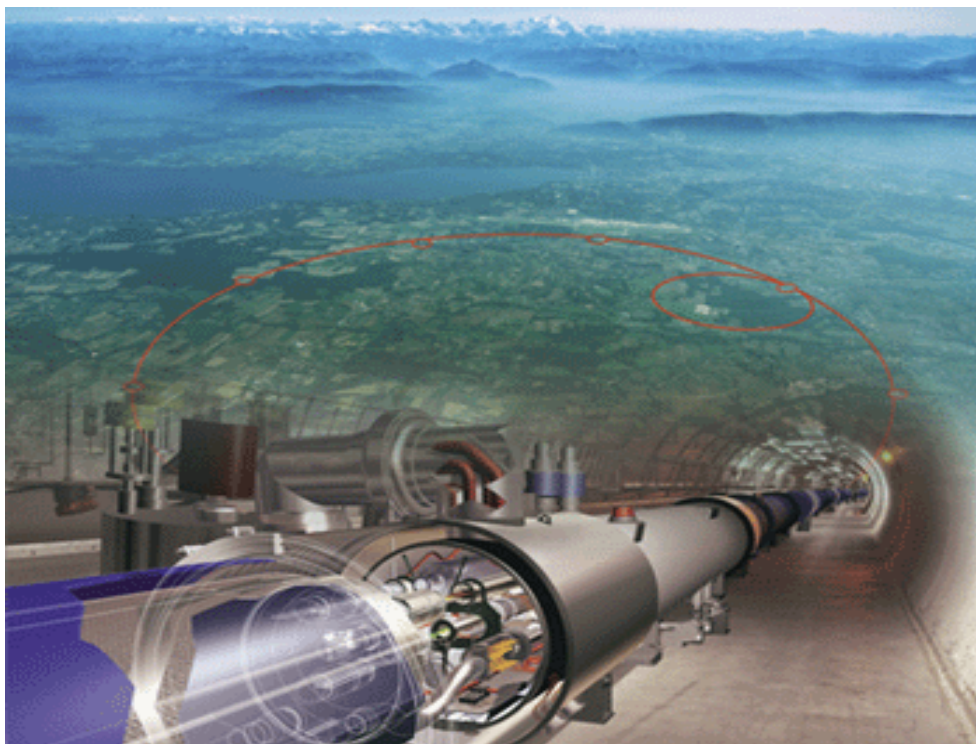


New Zealand site status report



**Orlon Petterson for the
NZCMS collaboration**

University of Auckland, University of Canterbury, Massey University

Orlon Petterson, University of
Canterbury

NZCMS - People

- **University of Auckland** – David Krofcheck (Analysis, Heavy Ions)
- **University of Canterbury** – Jenny Williams (Analysis, Workbook), Alan Bell (Hardware BSC), Orlon Petterson (Computing), Phil Butler
- **Massey University** – Tony Signal (Chairman of NZCMS)

Goals and roles

- B Physics analysis.
- Software support – CMS workbook, the online software manual.
- Build part of CMS – Beam Scintillation Counters.
- Heavy Ion analysis.
- Computing – Develop NZ grid infrastructure, source CMS data (Asia/USA?), conduct analysis, generate Monte Carlo simulations.

Grid services to be offered

- CMS Tier 2 site? CE, SE, (other services to be determined at this workshop)
- Current status - Scientific Linux 3.07, gLite middleware, Prototype grid (3 cpu's, limited storage) currently in development with assistance from M. La Rosa in Australia.

Outlook - Production grid (starting 6+ processors) SE with 1 Terabyte storage

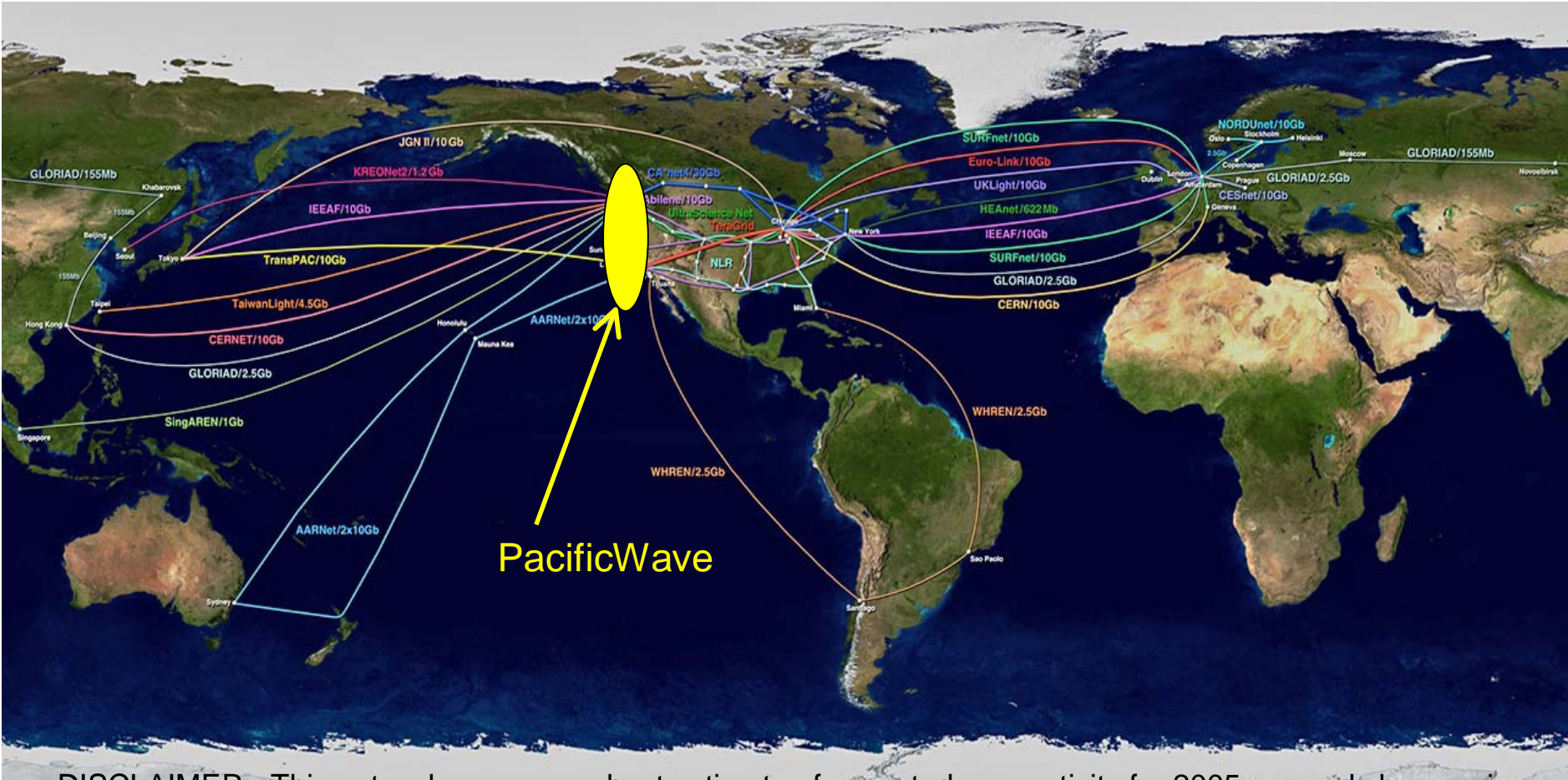
- Support and operations staff – Limited, but numerous grid projects currently underway.
- Issues & concerns:
 - Funding limitations present challenge to development.
 - Staff time available currently limited.
 - Network issues, access, latency

Network situation - KAREN

- KAREN: Kiwi Advanced Research and Education Network (our NREN)
- Live 27 Nov 2006
- 10Gb/s NZ Backbone (“Squished” Ring)
- NZ\$40million, Government Funding
- NZ\$5million Capability Build Programme
- Linking all 8 New Zealand Universities and all 9 public-funded National Research Institutes
- 2Gb/s University of Canterbury campus backbone to Dept. Physics & Astronomy
- ~622Mb/s link to US
- ~133Mb/s link to Australia

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KAREN - Global Research and Education Network Routes



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Timeline – Grid computing

- October 2006 – AUSHEP Conference – Grid, CERN, CMS.
- November 2006 – Prototype grid started at Canterbury University.
- December 2006 – Access to KAREN (NZ advanced network) available
- January 2007 – Prototype grid up and running.
- March 2007 – Start on production Grid
- June 2007 – Expanded production Grid to become available, install CMS software
- November 2007 – Production of Monte Carlo simulations commences

Thank you

Questions?

Orlon Petterson, University of
Canterbury