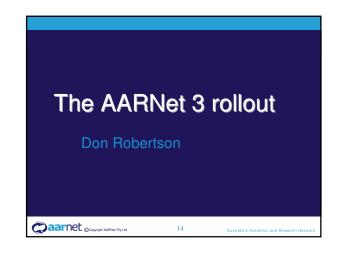
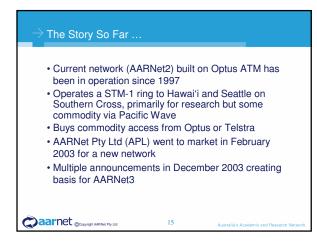
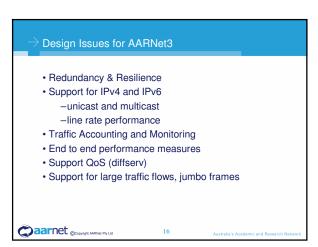


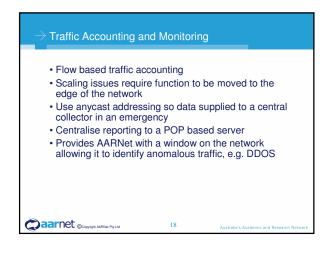
Where to from here? Building Australia's next generation of advanced networks Developing a future network road map for network connectivity Developing new services for our members Reaching more of the research and education sector Partnering to secure new initiatives Australia's Academic and Research Network

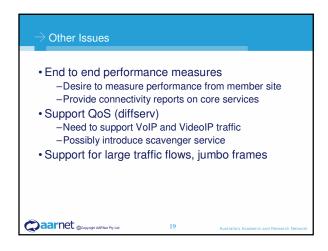


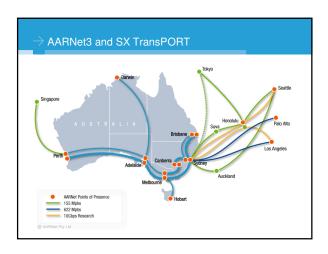


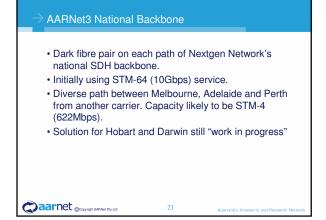


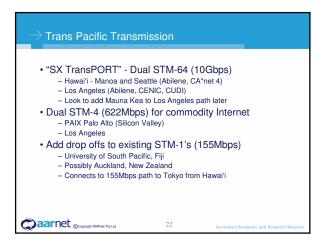


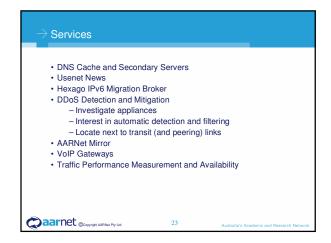


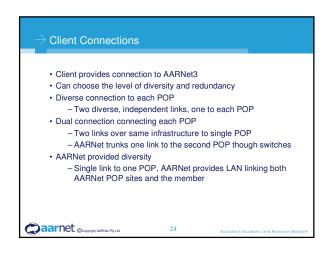


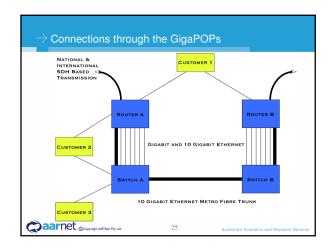


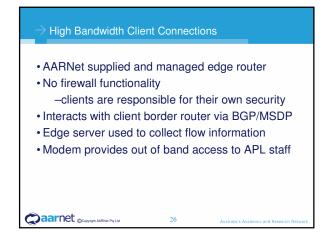


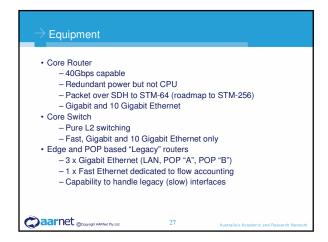


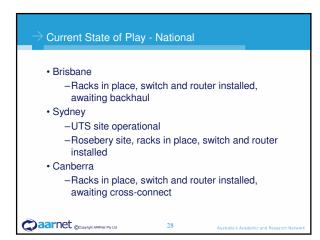


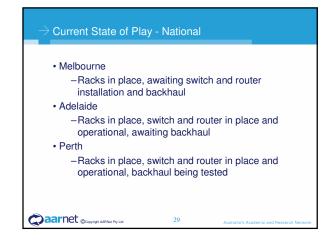


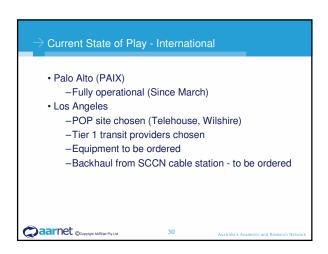


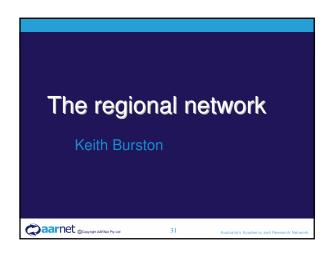


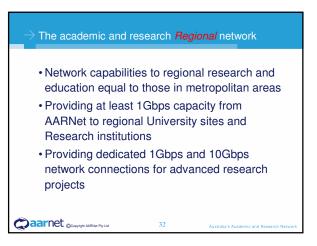


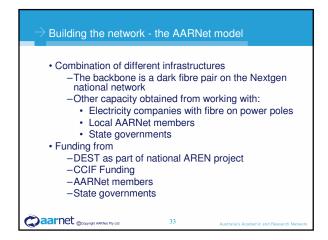


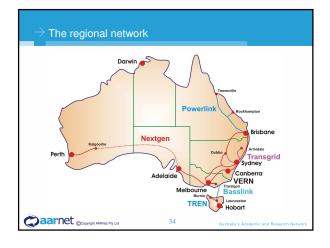


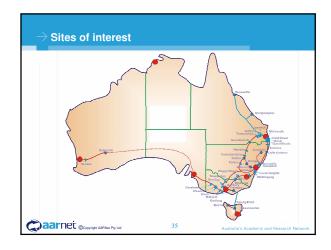


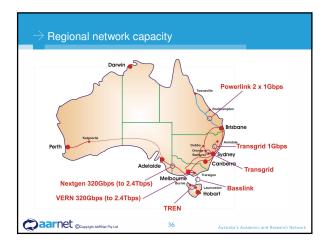


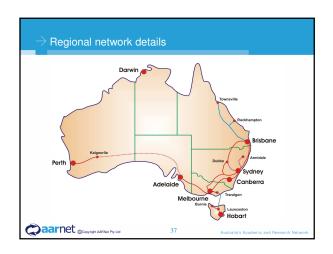


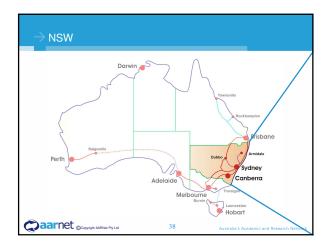


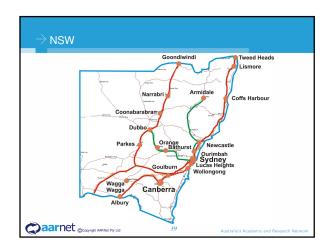


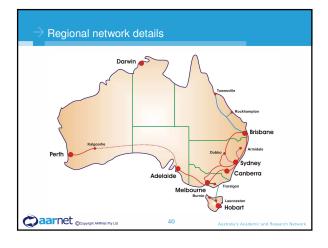


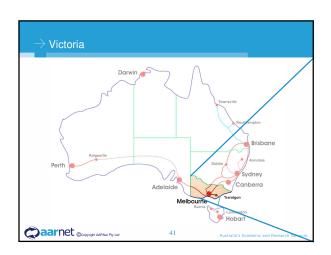




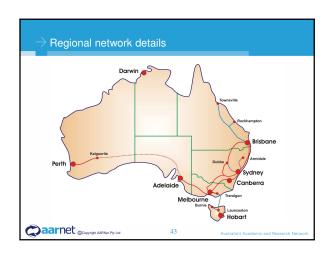


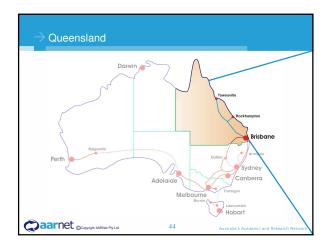


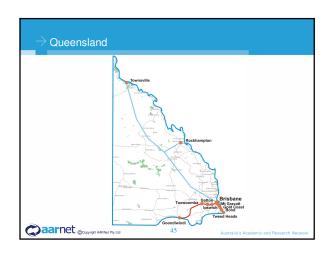


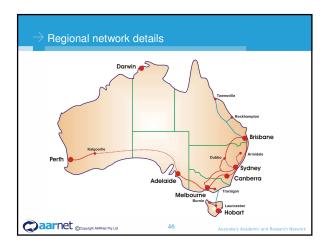


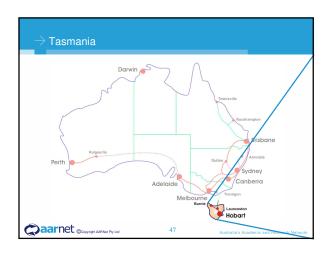


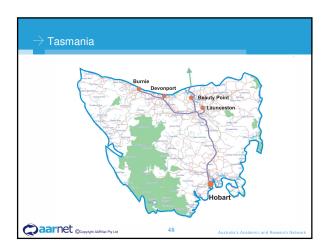




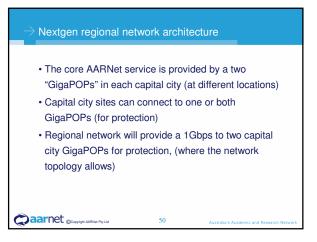


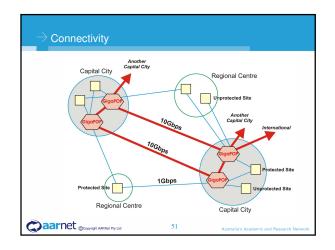


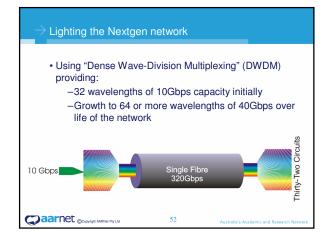


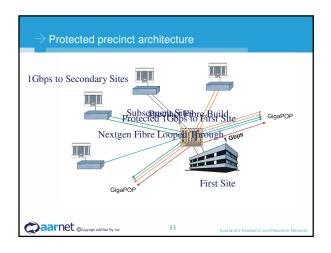


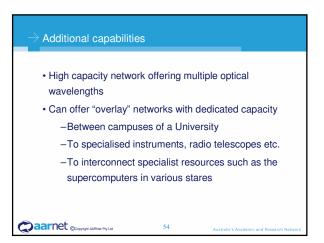
Network	Status	Target
Nextgen	Choosing equipment	4 th Qtr 2004
Powerlink	Newly constructed	3 rd Qtr 2004
Transgrid – Armidale	Operational	3rd Qtr 200
Transgrid – Dubbo	In development	4th Qtr 200
VERN	In development	4 th Qtr 200
Basslink	In development	4 th Qtr 200
TREN	In development	1st Qtr 2005

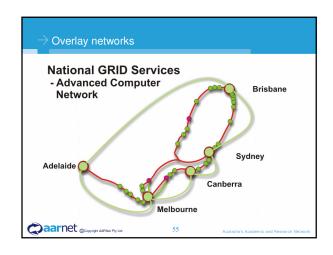


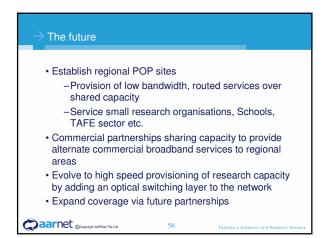


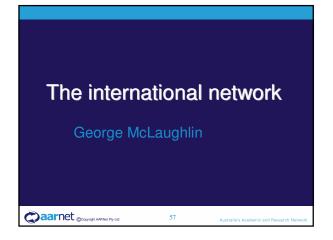


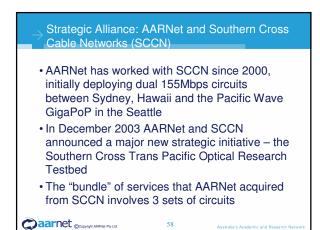


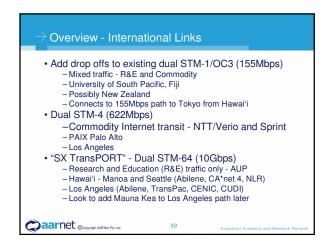


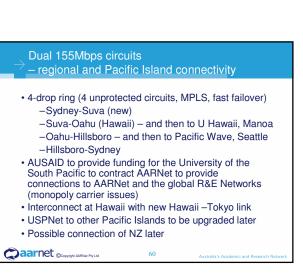


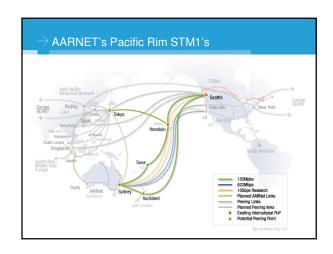


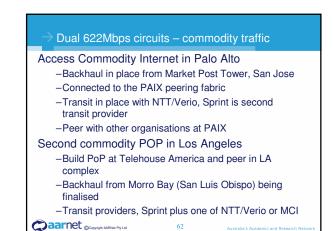


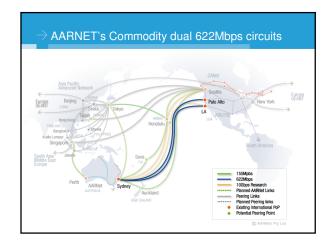






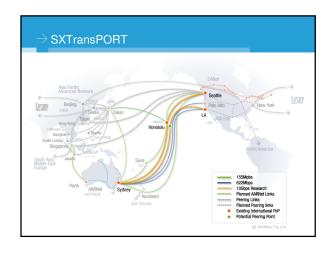


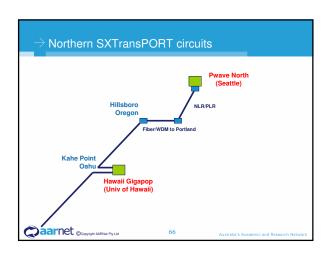




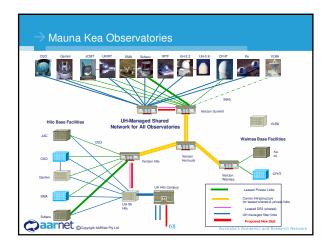
Dual 10Gbps circuits – SXTransPORT Trans Pacific Optical Research Testbed • Major new partnership announced between AARNet and Southern Cross Cable Network (SX) on 11 December 2003 • Support from Australian Government • Dual 10Gbps circuits between Australia and US West Coast • Activation Q3/2004, Initial term 5 years, option for 5-year term • AUP applies similar to Abilene • Advisory Board to be set up with reps expected from SX, AARNet, global research interests • Will provide affordable high throughput access allowing Australia to effectively participate in global e-science initiatives • Will strengthen case for locating unique research facilities in Australia, eg Square Kilometre Array

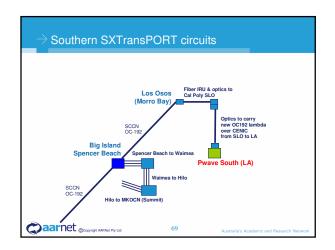
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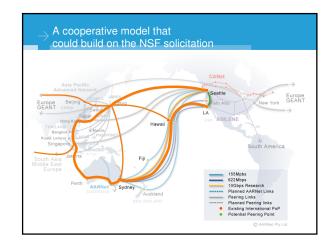


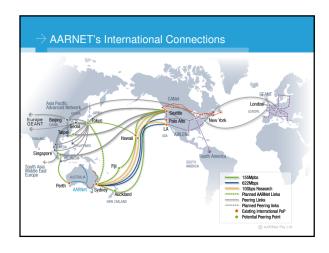


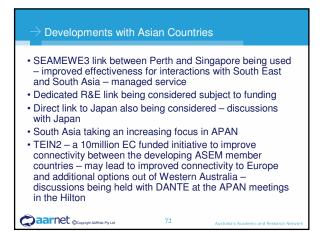


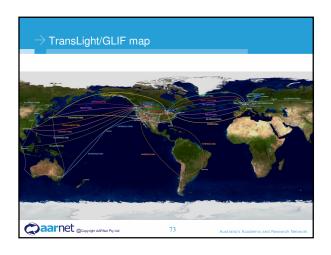


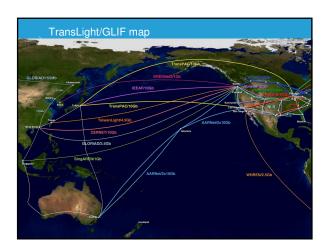


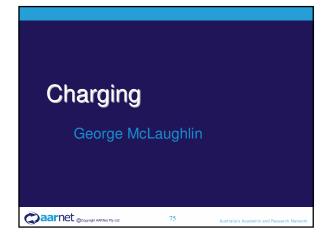


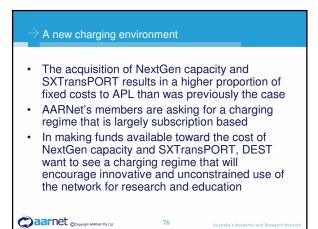


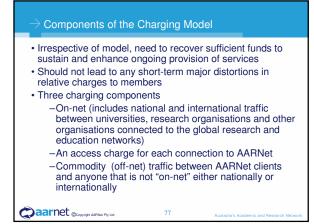


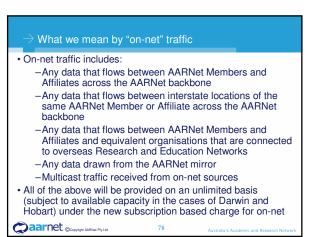














- Criteria certainty of cost, reasonably equitable, independence of formula sources, number of backbone connected locations
- Graduated subscription based on independent measures
 - -research grant funding (from AVCC/DEST Research Data)
 - -EFTSU and EFT (from DEST Student and Staff surveys)
 - -Multi-state factor (for traffic between interstate locations of the same organisation)
- Implementation 1 July 2004 (no more volume based charging for on-net)
- For 2004, no one to pay more than the projected spend under the current charging model (~130% max of 2003 spend)



(ii) On-net – components

- Research use proxy:
 - -~75% of on-net subscription is related to "Total Research Income", as per AVCC website
 - -This research subscription component equates to~0.2% of "Total Research Income"
- Teaching/Admin/Outreach proxy
 - -~25% is related to EFTSU, FTE and number of AARNet backbone-connected locations
 - -This Teaching/Admin/Outreach use equates to \$1/pa/per EFTSU and \$3/pa/per FTE, times the number of backbone connected locations



iii) Access Fee

- Set to cover APL edge equipment costs to connect and monitor
- \$1,000 for each connection per month to any AARNet PoP (\$12,000pa) - equipment cost amortised over three years
- Currently most single-state members have only one connection, expectation that many will opt for two to increase resilience when second PoPs are available



(iv) Off-net or commodity

- Criteria simplicity, equity, excess demand component
- · Largely subscription based with a low marginal cost for traffic above the amount covered by the subscription
- Total commodity cost in 2005 less than projected total 2004 commodity cost, but for 20% increase in volume
- Implementation 1 Jan 2005



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\Rightarrow (v) Basis of commodity charge

- · A subscription for 2005 is set as the actual cost incurred between I June 2003 and 31 May 2004
- The 2005 subscription will cover the same volume as that received during the period I June 2003 and 31 May 2004
- Any excess above this (estimated on average at 40%) will be charged at \$7/GB



(vi) Non-Member charges - Affiliates

Monthly Base fee (includes first connection charge)	Included volume/month (any traffic type)	Excess rate above included volume
\$1000	10GB	\$33/GB
\$2000	40GB	\$25/GB
\$4000	120GB	\$20/GB
\$6000	220GB	\$18/GB

Affiliates have no automatic access to SXTransPORT or subscription-based R&E traffic



