



Asia-Pacific Advanced Network

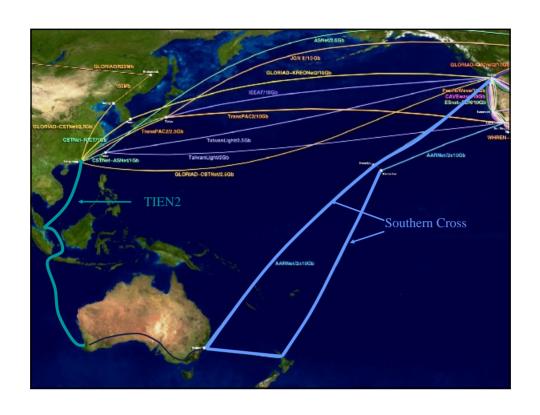
Medical WG formally approved at APAN-Taipei in Aug 2005.



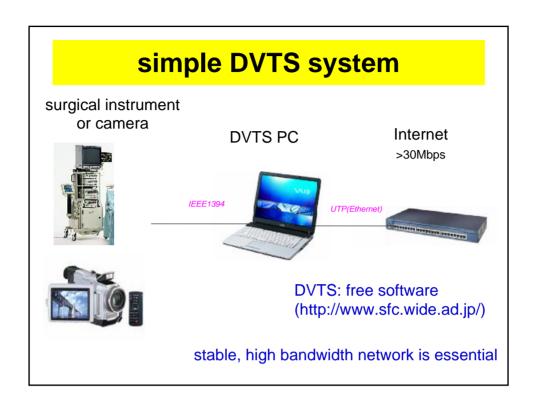
Goals of APAN Medical WG

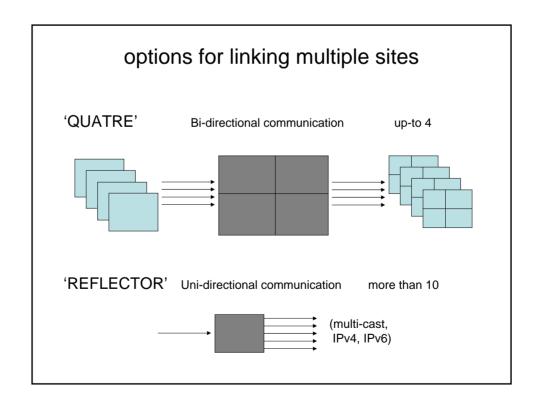
- 1. Use high-quality broadband telecommunication for exchange of medical knowledge and techniques.
- 2. Develop combined medical and engineering teams, to achieve 1.
- 3. Expand advanced medical networks in Asia-Pacific regions.
- 4. Improve the networks through developing technologies.

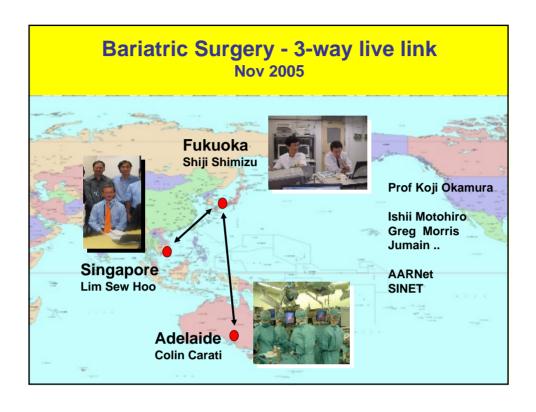
Provide better healthcare through information sharing.



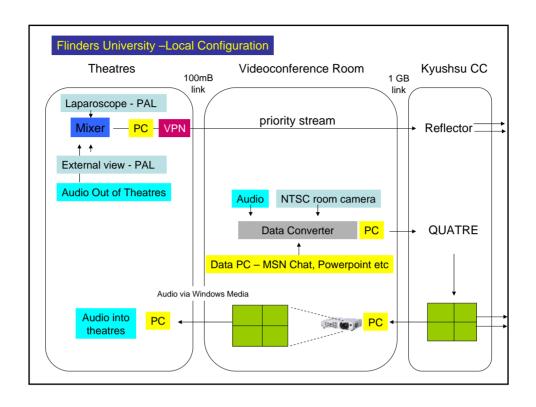


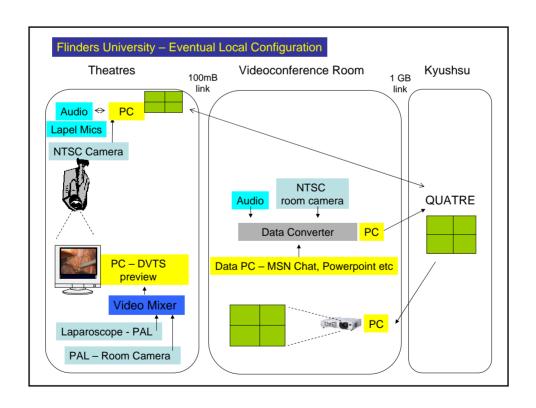


















APAN Tokyo – HDTVS with 4 participant sites



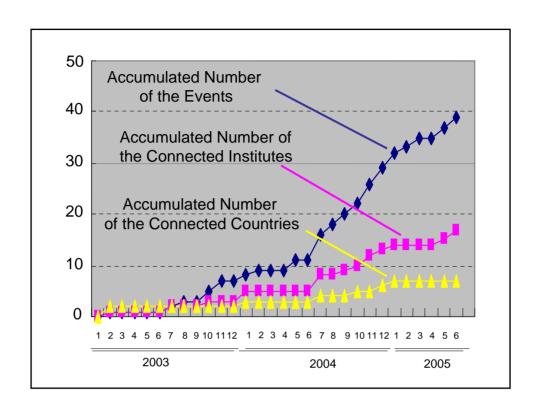


what works well

- 1. flexibility and reliability of DVTS system
- 2. good video and sound quality
- 3. acceptable time delay to Asia-Pacific region (down to 170 msec with TIEN2)
- 4. effectiveness of the interactions
- 5. excellent co-operativity and organisation

problems and solutions

- 1. network
 - reliability, available bandwidth
 - time delay
 - firewalls
 - audio quality / echo /standardising audio volumes
- 2. security / patient confidentiality
- 3. PAL versus NTSC

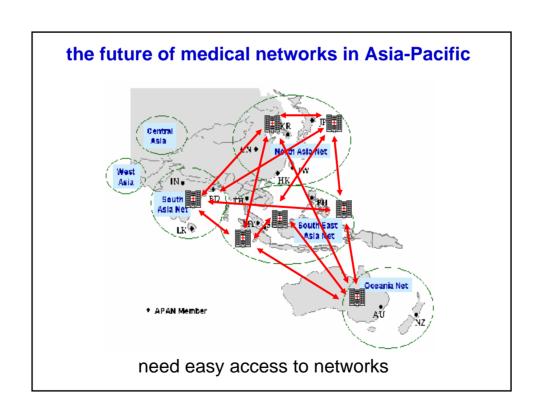


what next? immediate goals

- more links, better and easier connections,
- how can we add value to the interactions
 - more structured sessions
 - additional data / images / powerpoint
- stop testing and start using 'mainstream' the technology

what next? medium term

- linked curricula for education and research
- live collaborative projects
- disaster / pandemic management
 Jan 2006 "Pandemic Influenza Prepardeness and Response Virtual Symposium"
- linked databases, more integrated IT
- public / population health
- use of the technology across all sectors of medicine, including in developing countries







Medicine Meets Virtual Reality 14

Accelerating Change in Healthcare: Next Medical Toolkit

January 24 – 27, 2006 Hyatt Regency Long Beach Long Beach, California

Sessions on ...

"Surgical Simulation-Didactics, Metrics, Assessment Haptics; Visualization Interoperability Standards for MM&S * Advanced Technologies & Behavioral Healthcare Surgical Simulation-Validation, Future Serious Games for Medicine Virtual Patient Biodefense"

http://www.nextmed.com/mmvr_program.html



conclusions

- high definition networking is a useful technology for medical education and practice
- need to develop 'expert' teams to facilitate wider use and mainstream the technology
- need to develop better professional networks to take advantage of the physical ones