BROADBANDING CF: PATIENT, CARER, CLINICAL AND RESEARCH OPPORTUNITIES TO IMPROVE CF LIFE AND CARE USING INTERNET

ENABLED DEVICES

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Introduction

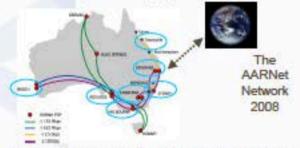
Internet-based communications have already revolutionised research communication and collaborations across the world.

The wide deployment of optic fibre along academic networks (AARNet) together with the \$43 billion fibre-to-the-home Australian broadband network proposal ("RuddNet"), & improved 3G mobile technology provide a unique opportunity for online collaborative environments to support CF clinical care, research, patient, and carer video-collaborations.

Networks: current & emerging

AARNet

- Extensive optic fibre network
- ·Local and international internet / networks
- .Bandwidth, reliability, speed.



National Broadband Network "RuddNet"

- Optic fibre direct to homes
- Transparent matching to AARNet
- Academic, clinical, patient, carer linkages?



FTTH: (Optical)
Fibre To The Home

Video collaborations now available for development

Collaborative environment

- Persistent storage
- Multiple real-time video streams
- Whiteboards / drawing screens
- Remote sensing
- Remote desktop viewing
- Jitter-free remote control
- ·Secure

Standard Equipment

- ·Laptop, desktop, video-walls
- Specific conference rooms

Free Software

AccessGrid, EVO (both like Skype, but improved options, flexibility), etc







EVO running on a desktop PC

AccessGrid between conference rooms, desktop computers, basic laptops, smartphones, etc.



AccessGrid and EVO allow multiple simultaneous video and audio streams from multiple locations

What uses?

- ·Multi-centre video conferencing
- Conferences: National, International
- Remote CF physician consults
- Limiting CF cross-infection
- ·Multi-centre studies, meetings
- CF parent groups
- Nursing interactions, HITH
- ·Multi-centre clinical trial monitoring
- Joint QC meetings
- ·Real-time physiological monitoring
- Participation in International trials
- Seminars, webinars
- Social sessions
- ·What's yours? ...

More information

Software

www.accessgrid.org/ evo.caltech.edu



http://www.aarnet.edu.au



http://www.arcs.org.au/



An Australian Government Initiative

National Collaborative Research Infrastructure Strategy