

THIS EVENT IS PART OF THE AUSTRALIAN INNOVATION FESTIVAL



Industry Seminar Tuesday, 26 April 2005 Brisbane City Hall

Bringing Innovation to Facility Management









Where to?

Dennis Hogan Maryanne Diamond

26 April 2005





Project Way finding in the built environment

Phase 1 objective:

To identify alternative way-finding systems and/or technologies that may assist people with a sensory impairment to integrate with society.







Next steps

- Phase 2 Evaluation and recommendation of a preferred system to be trialed
- Phase 3 Install, trial & evaluate at the Melbourne 2006 Commonwealth Games or other selected location







Key research findings

- Way-finding systems group into three areas:
- Passive systems provide feedback
- Dynamic systems provide audio/tactile feedback
- Infrastructure based systems require installation and maintenance of built-in systems within buildings





Passive systems

Tactile ground indicators











Passive systems

Raised tactile (embossed) and Braille signage











Dynamic systems

• Infrared / Ultrasonic Obstacle Locator











Infrastructure based systems

Directional sound evacuation



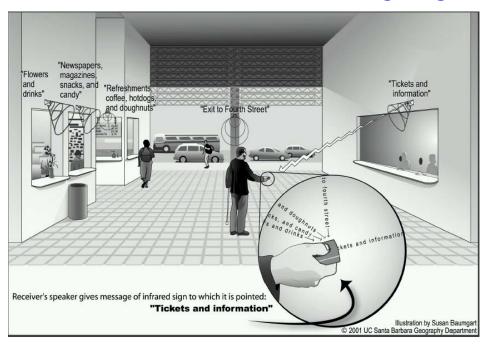






Infrastructure based systems

Remote Infrared audible signage









Research conclusions

- Immediate actions:
 - Consider Building Code requirements
 - Priority to standards & codes related to passive and active systems
 - Develop international standard or protocol
- Medium term actions:
 - Tailored information for users of in-built location specific transmitters
 - Portable devices modified for building users
- Long term:
 - 'Virtual reality' devices
 - Advanced 'smart clothing'
 - 'Robotic guides'







A user perspective

- Putting the research in a blind perspective
- Lessons from the research
- Emergency evacuation







Way-finding in the built environment



Project Partners:

Building Commission, Victoria
Australian Building Codes Board
Queensland Department of Public Works
Queensland University of Technology - Department of
Construction Property Maintenance



Reference Group:

Blind Citizens of Australia (Vic)
Office of Commonwealth Games Coordination (Vic)
Human Rights and Equal Opportunity Commission (NSW)
Disability Council of Queensland
Innovative Access Systems P/L



Building Com







Queensland Government