Mobile Crowdsourcing Older Peoples Opinions To Enhance Liveability in Regional City Centres

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Need for Research

- It is predicted (UN ESA 2002) that people over 60 will make 21% of the population compared with a year 2000 figure of 10%
- Increase in the older people demographic is particularly significant in regional cities like Tweed Heads, Dubbo and Wollongong
Predicted 2031 65+ Demographic
Need For Data

- Lack of mobility leads to isolation which is a precursor for depression
- How can the built environment support continued community living for the aged?
- Difficulty in getting around due to factors that are not obvious
  - Inability to speak - can’t ask for directions
  - Sciatica - Restricted movement means can’t step over curb or up stairs
  - Blindness
- Using mobile devices we can gather data to gain a different perspective
Four types of objects with subtypes

- **Space**
  - Park
  - Town Hall
  - Plaza

- **Link**
  - Road
  - Footpath
  - Bridge

- **Service**
  - Automatic Teller Machine
  - Public Toilets
  - Bike Rack

- **Access Point**
  - Revolving Door
  - Gateway
  - Turnstyle
1. iPad captures text, audio, and photos of environmental “good, bad or ugly” in Audit

2. Audit (including audio and photos) sent to server by http

3. Server script takes data and Inserts it to database

4. Data is mined and visualized
- You can create an audit by adding an image, score, note or audio message to further describe the object you selected.

- To take a photo tap the 📷 button.

- To use a photo or image that's already stored on your device tap the 📦 button.

- To record an audio message tap the circular Recording button, then tap the square Stop button to finish recording. You can listen to what you just recorded by clicking back through the audit.

Note: Yellow indication good. Indicates change in level ![colour right ramp](Ramps lead straight onto the road, no pedestrian access. Ramp chipped. ![Group 2](direction, no pedestrian crossing, ![kerb ramp, crack]) Rounded, two ramps. May not comply? ![with Katy](photo/image_link.jpg) ![round, kerb ramp, no comply]
Website Interface
- See major causes of concern
- Identify urban design that facilitates and is appreciated
- Fuel new ideas for urban development
- Assess the success of development projects
Conclusion

- Encourage active participation to age in place
- Enhance social sustainability
- Plan a better environment for ageing residents
- Prioritise expenses