SURFACE Inclusive Design Research Centre
Centre for Rehabilitation and Human Performance Research

I’DGO TOO

Inclusive Design for Getting Outdoors 2

I'DGO

What are the implications of the design, siting, laying and use of tactile paving for older people

- To examine how blister and corduroy tactile paving is designed, sited and laid

- To identify older people's perceptions and approach to using tactile paving

- To quantify the relationship between tactile paving design parameters and the biomechanics of ambulation and risk of falling

The research is divided into

- Gather and analyse data from the real world
- Carry out similar study in a controlled environment - laboratory
- Combined site specific studies – “Controlled real world”

Following environments are being investigated

- Pedestrian crossings
- External stairs

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PEDESTRIANS

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Ever Used?

Real world studies completed

Completed

- **Literature Review**
- **Cognitive Model: Transport Research Laboratory behavioural Study**
- **Pilot study**
- **54 Short case studies: All selected but still in progress**
- **19 Longitudinal case: All selected; data collection due to start in July 2008**
- **Publications: Conference details**

54 Short case studies

All sites measured and documented

- Pedestrian traversal times completed at 80%
- TRL Human Behaviour Study of Puffin and Pelican Crossings - further issues from the cognitive model that could be pursued
- Incorporated into new questionnaire to be circulated at all to replace interview sheets
- New video capturing techniques to be trialled to streamline data collection
- Hand out questionnaires and gather additional data on tactile paving, crossing preferences and level of fitness/ personal characteristics

54 Short case studies

Cameras 1 & 2

Cover outside chevrons as well

Cameras 3 & 4

Cover outside the chevrons as well

19 Longitudinal Case Studies

Next stages (some are in progress)

- **Longitudinal case studies (19 sites to be studied for two years)**
- **Liaise with Traffic Engineers in Local Authorities**
- **Questionnaire Survey & Interviews**
- **Coordinate controlled and longitudinal studies**
- **Publication and Dissemination**

19 Longitudinal Case Studies

A few more details:

- 2 sites have been added from NZ – segregate dropped kerbs and tactile paving – LTNZ 2004
- Authorities have been contacted still to arrange Delphi Group to comment on adjacent area design and check site design standards
- Questionnaire Survey which now includes TRL issues from Puffin and Pelican Study as well as pedestrian preference for each type of crossing
- Questionnaire – additional tactile paving reaction / co-ordinated with video captured data
- Journal articles envisaged for end of 2008 - stairs(1) and crossing(1)
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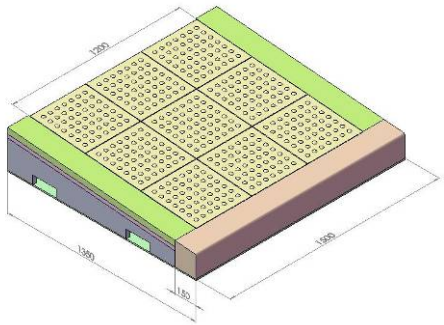
Laboratory Studies

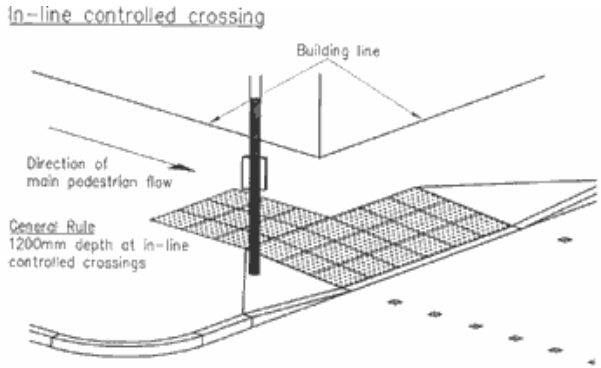
Walkway Design

Design nearly complete
Completion expected by end of June

Safety Harness System Installation

Design of installation method
expected to complete fixing by mid June





Data collection & software programming

- Preliminary camera set up has been tested & data has been collected
- Software design: Several algorithms have been completed

Next stages: (6 months)

- Finalize software development
- Complete test protocol
- Complete testing of young people
- Subjects & start testing older people