



How can we know our homes are healthy?

The Healthy House Index Malcolm Cunningham, BRANZ



Collaboration

Between:

- BRANZ (Ltd)
- Housing and Health Group (Wellington School of Medicine)



What is the Healthy House Index (HHI)?

- A single number
- Summarising the healthiness and safety of a given house



Aimed at:

Local Government

- Central Government. Health, ACC, Building and Housing, Social Welfare, TPK, Statistics, SANZ, EECA, HNZC, etc.
- District Health Boards
- Large Landlords (HNZ, Iwi, Local Government)
- Designers



To provide them with a quantitative tool for:

- improving occupant health
- assessing stock condition
- policy development
- targeting of resources
- setting of targets
- designing and auditing retrofit regimes
- regulation
- advocacy
- common language for communication between agencies

Pilot Study in the Hutt Valley



Supported by:

- ACC
- Hutt DHB
- Hutt City Council





Tested a HHI questionnaire

Refined protocols and logistics



Sample of questionnaire

6. INTERNAL STAIRS

6.1 None required 6.2 Required but not provided		1/0
6.2 Split level house with internal sta	airs between levels	1/0
6.3 Vertical height gained by longest single flight		metres
6.3 Staircase structurally sound?		
Yes	1	
No	0	
6.4 Slippery		
Yes	1	
No	0	
6.5 Too steep (greater than 42 degrees)?		
Yes	1	
No	0	
6.6 Stair gates provided?		
6.6.1 At the top of the stairs?		
Yes	1	
No	0	
6.6.2 At the bottom of the stairs?		
Yes	1	
No	0	
6.6.3 Stair gate is secure/sturdy?		
Yes	1	
No	0	



Results

Found a statistically significant correlation between accident rate and the number of hazards





Taranaki study

To create data showing correlations between house condition and health of occupants



After that

Market the HHI

Train Assessors

Create central database



Outcomes

REALISTICALLY ACHIEVABLE

 Very widely used nationwide infrastructure to quantitatively assess the health and safety of homes

LEADING TO

 Healthier NZ population living in more healthy and safer homes