Integrated decision-making about housing, energy and wellbeing

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A wrong but useful set of pictures, a policy simulation tool, and some decision support
Mapping and simulating how the housing, energy and wellbeing “system” works over time

To build consensus about

• What the problems are
• What the shared goals are
• How we best achieve them
Dynamic systems thinking
Places to intervene in a system

10. Numbers and constants
9. Rates of things
8. Altering time delays
7. Strength of feedback loops
6. Flows of information
5. The rules of the system
4. The capacity to change, evolve, self-organize
3. The goals of the system
2. The mindset or paradigm
1. The ability to work above paradigms

Donella Meadows 1997
differential property prices by locality

differential desirability between localities

differential quality of infrastructure, social services, schools

+ community social mix by income and ethnicity

- attractiveness of cheaper areas to first home buyers

+ property values in cheaper areas

- social housing sell off

+ mix of tenures

- affordability of shops and housing in cheaper areas

+ gentrification of shops, schools and services in cheaper areas

+ differential property prices by locality

+ differential desirability between localities

- differential quality of infrastructure, social services, schools
tiredness

drinking coffee

+ 

B

money in the bank

interest on savings

+ 

R

money in the bank

interest on savings

+ 

R

tiredness

drinking coffee

+ 

B
example_housing_simulation_FINAL.STMX
Themes from the interviews

1. Quality of neighbourhoods
2. Ventilation and indoor air quality
3. Overcrowding
4. Land ownership, value and development patterns
5. Energy and climate change
6. Housing affordability
7. Temperature optimisation
differential property prices by locality
differential desirability between localities
differential quality of infrastructure, social services, schools
+ community social mix by income and ethnicity
- differential local heritage value
- differential distribution in area and quality of greenspace
- differential distribution in density and size of trees
- differential access to public transport
+ transport energy use
+ viability of local businesses
+ geographical community connection
- intergenerational poor education and unemployment

- travel to distant schools and services

differential property prices by locality
attractiveness of cheaper areas to first home buyers
property values in cheaper areas

- gentrification of shops, schools and services in cheaper areas
- affordability of shops and housing in cheaper areas
- number of social houses
- social housing sell off

sense of social status associated with home ownership

+ differential quality of infrastructure, social services, schools

differential local heritage value
- sense of social status associated with home ownership

community social mix by income and ethnicity

transport energy use

viability of local businesses

geographical community connection

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