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FUTURE WORK



HEW future

Past

- Pilot project
- Participatory mapping
- Quantitative system dynamics
- Interactive learning environment
- Module (10 lectures)

Future

- Continuously piloting new approaches
- Scenarios of uncertainty
- Policy work
- Organisational decision-making in housing (values, identity, attention)
- Master's course
- Transdisciplinary research
- ...



PhD Research Proposal by Kaveh Dianati
Supervisors: Nici Zimmermann, Mike Davies

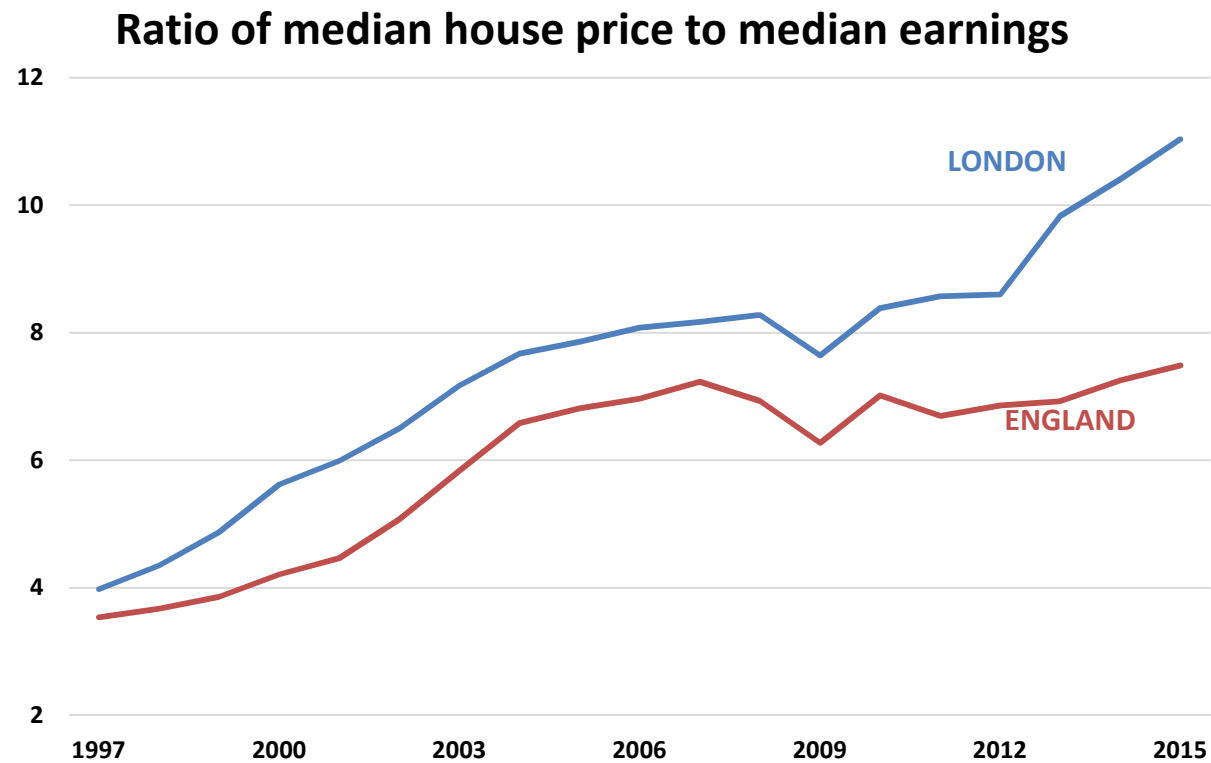
THE HOUSING CRISIS IN LONDON A SYSTEM DYNAMICS MODEL



Research motivation



Housing affordability

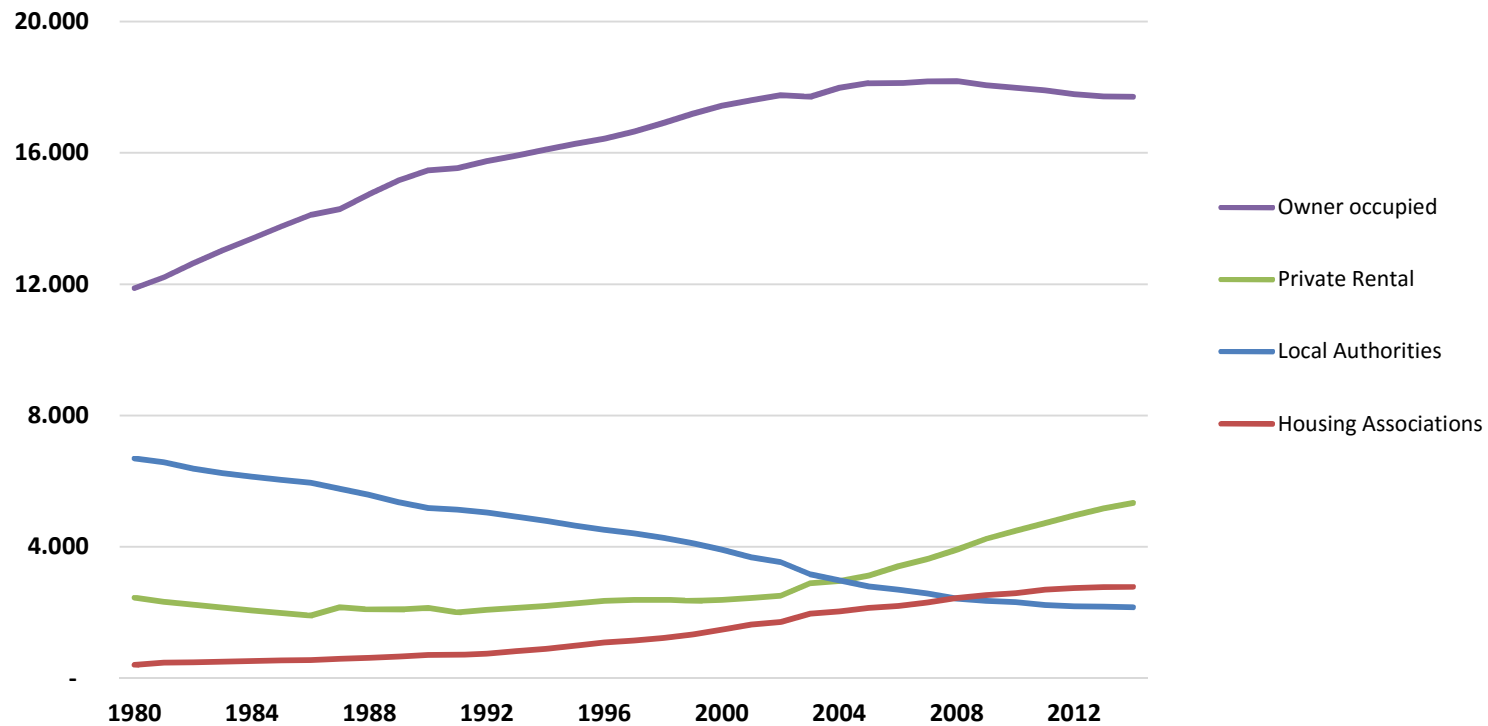


Source: DCLG table 577



Tenure patterns

Dwelling stock by tenure (in thousands, 1980-2014)



Source: DCLG table 101



Research objective and method



Research objective and method

❖ Objective:

- To describe the underlying socio-economic structure responsible for the housing crisis in London

❖ Method:

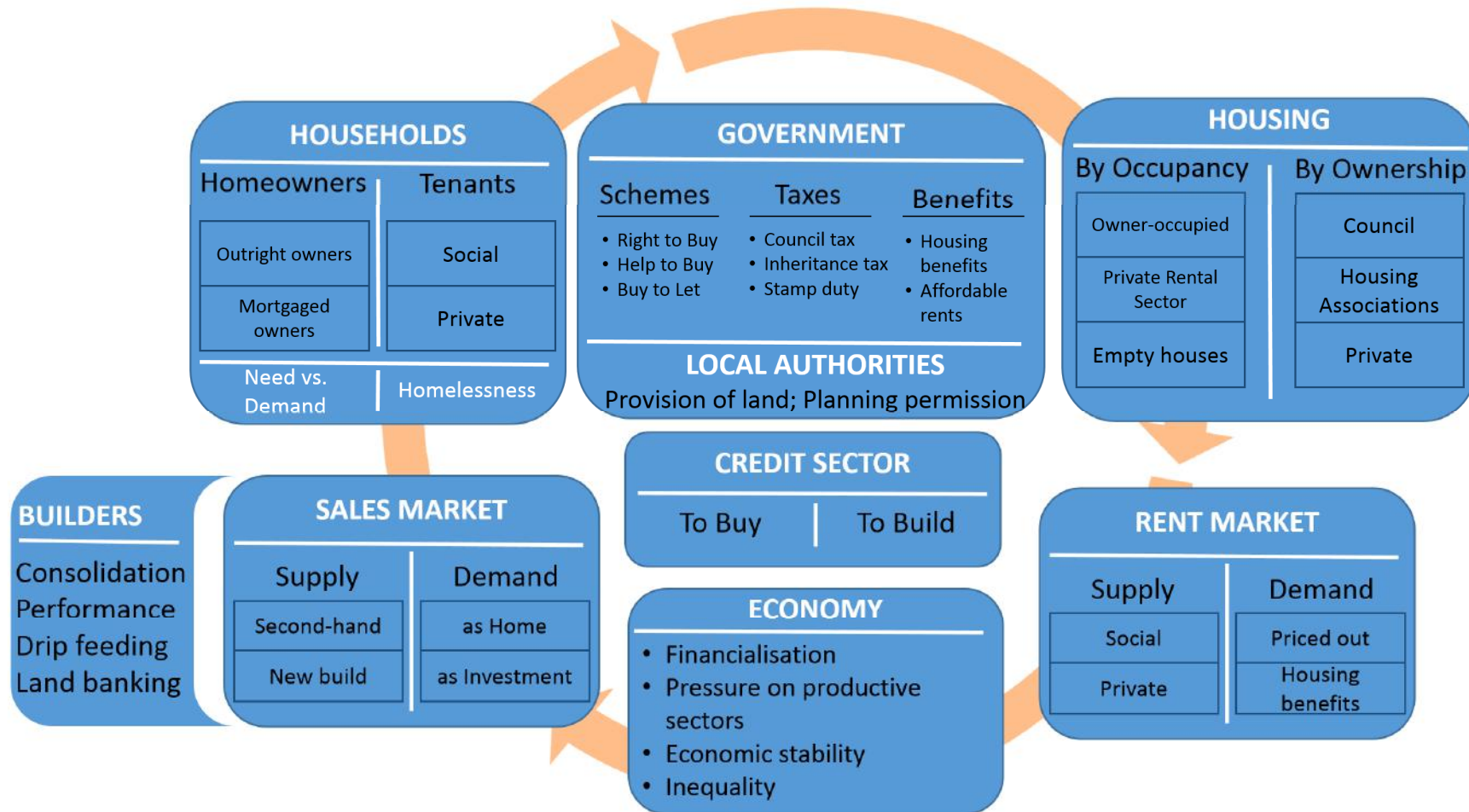
- Create a System Dynamics model that can endogenously reproduce past trends
- Use the model to explain the current situation
- Simulate into the future to speculate how the situation may unfold under BAU
- Use the model to test various sets of policies



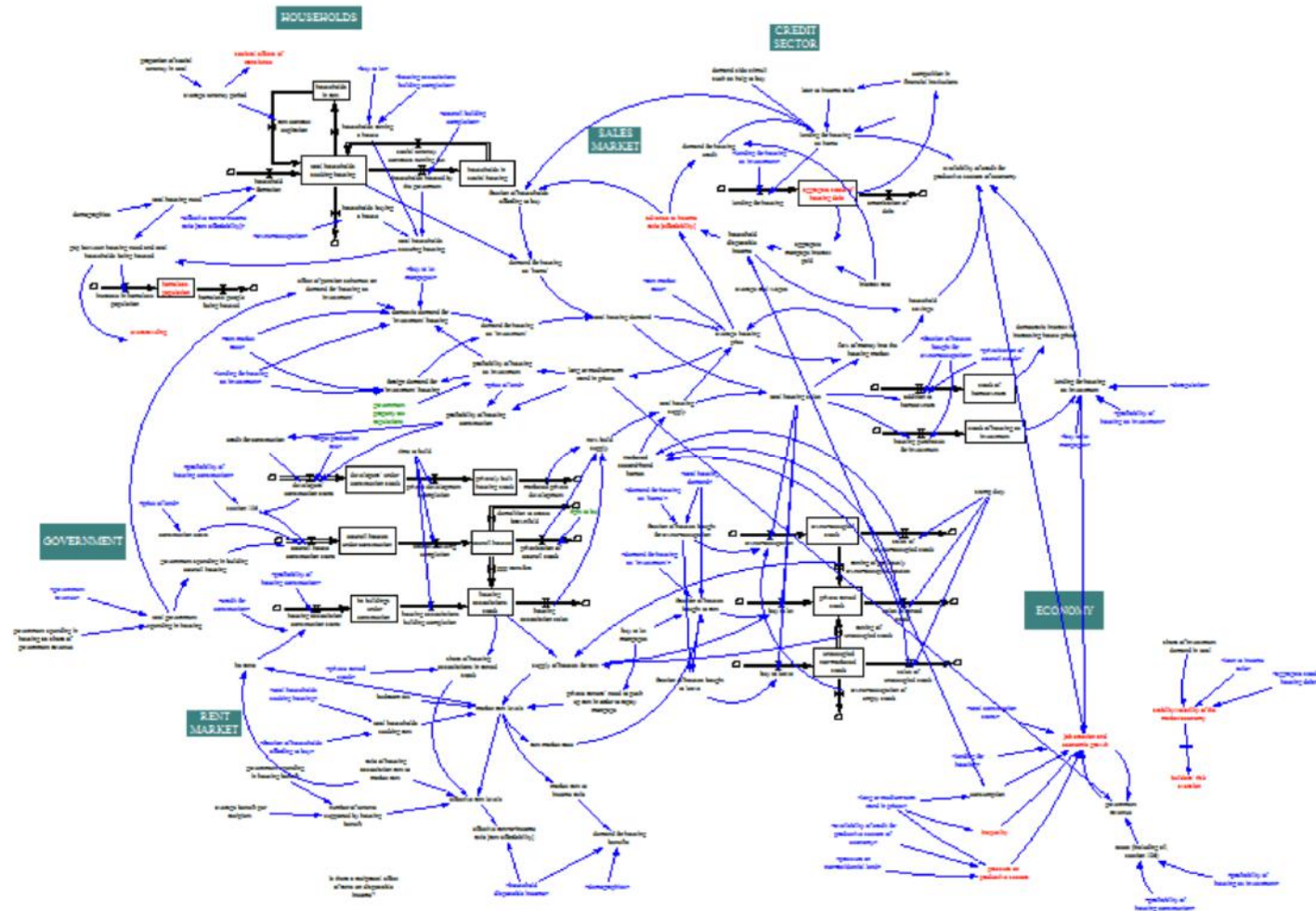
Research framework



Research framework



The model

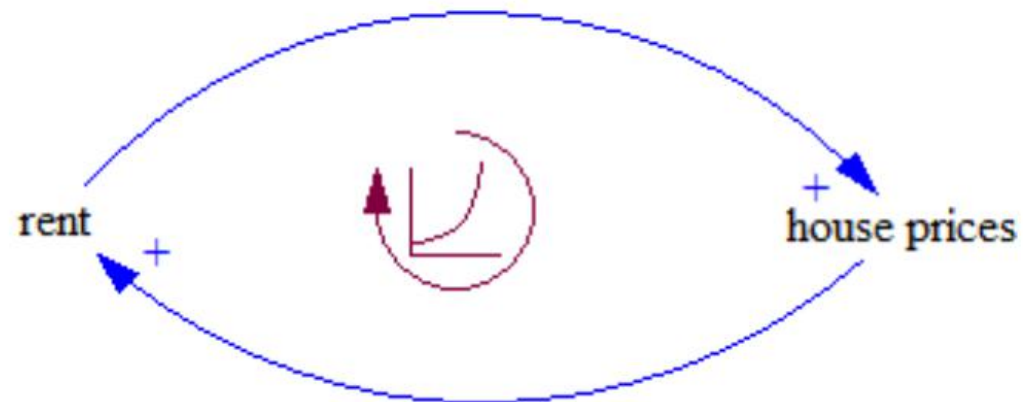


Preliminary insights



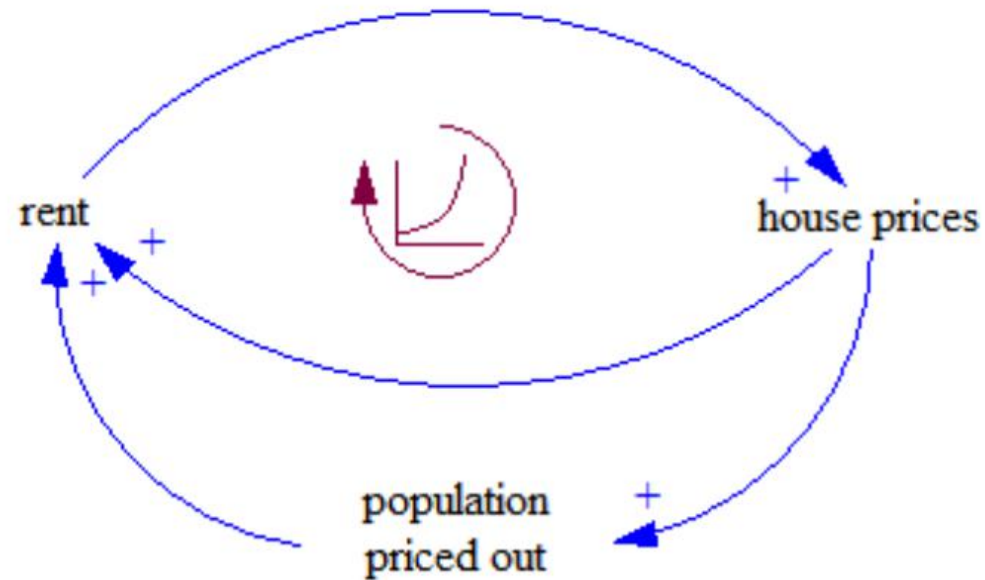
Bite-size insights

The price-rent loop



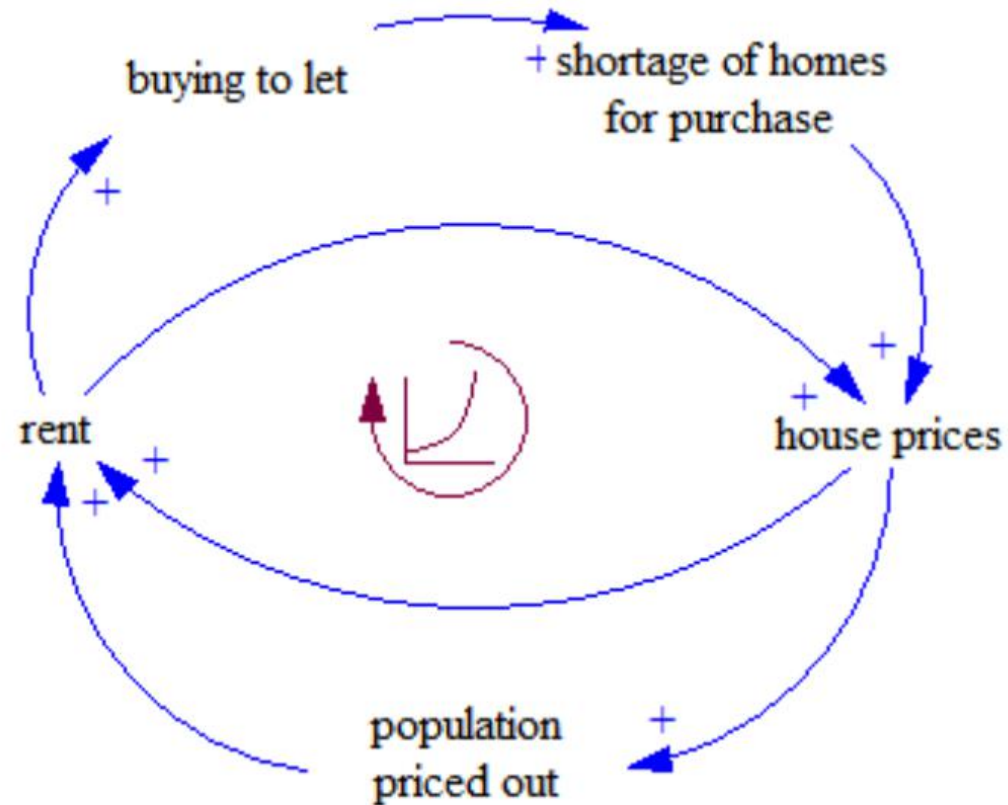
Bite-size Insights

The price-rent loop



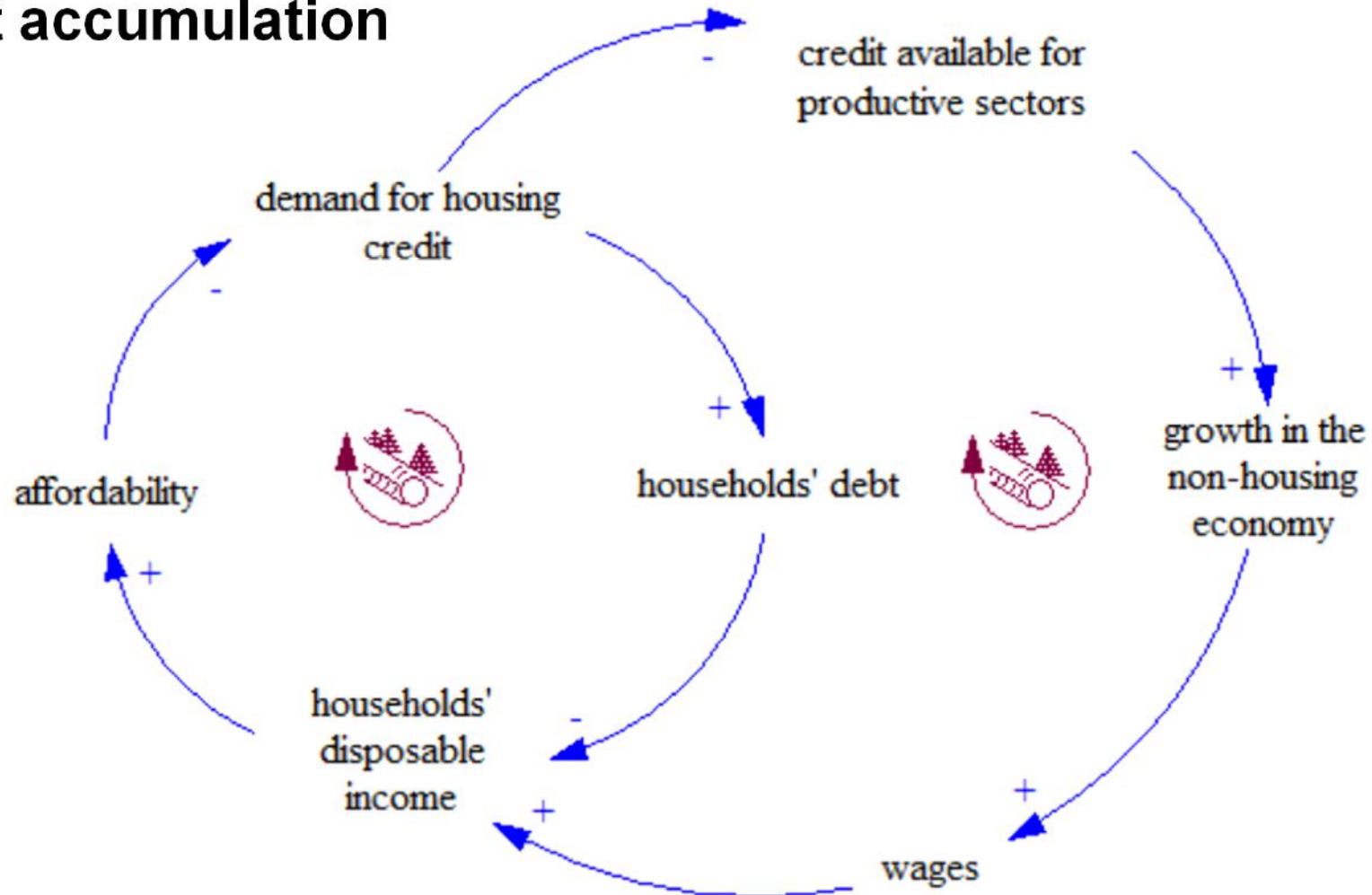
Bite-size Insights

The price-rent loop



Bite-size Insights

Debt accumulation



Platform grant plans

- Complex Built Environment Systems
 - Complexity and context
- Unintended Consequences of Decarbonising the Built Environment
 - Challenges
- Built Environment Systems Thinking
 - Integrated solutions
 - Mechanisms
 - Dynamics
 - Soft AND hard factors
 - Microworld and connector → management of interdisciplinarity
 - Content areas: moisture, healthy buildings, ...



Mike Davies

EVALUATION AND MOVING FORWARD QUESTIONNAIRE



Mike Davies

CLOSING REMARKS

