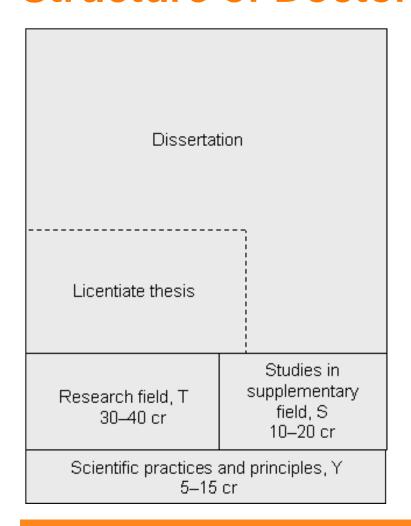


Structure of Doctoral Studies



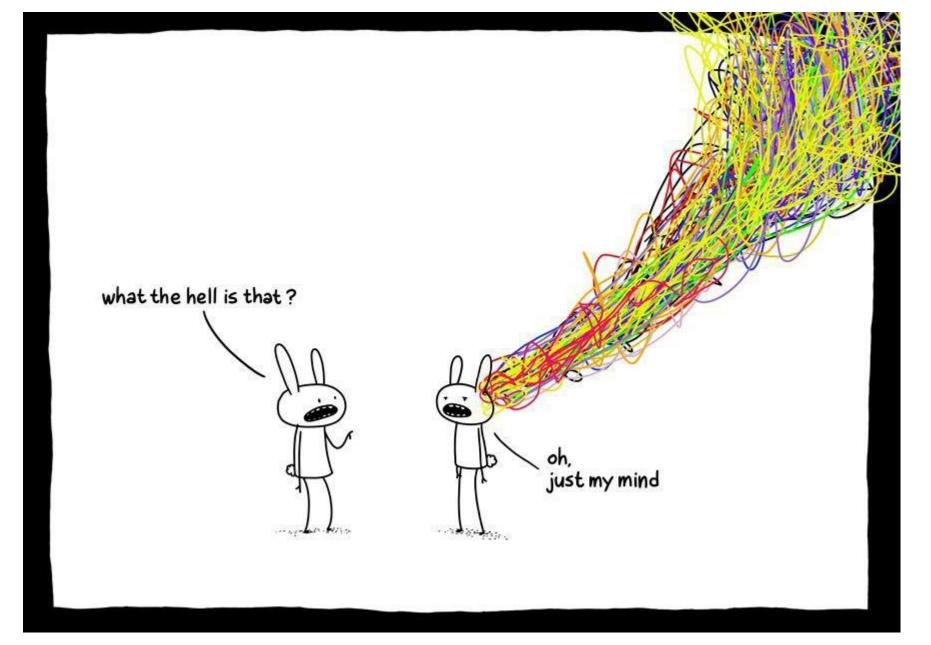
Studies
vs.
Research
vs.
Teaching
vs.
Project work



Doctoral candidate process and schedule



Start PhD research December 2009 First journal paper published July 2011 Thesis for preexamination August 2012 Preexamination statements November 2012 Defense January 2013



Paper I: Heinonen, Jukka; Kyrö, Riikka; Junnila, Seppo (2011): Dense downtown living more carbon intense due to higher consumption: a case study of Helsinki, Environmental Research Letters, 6, 034034.

Paper II: Kyrö, Riikka, Heinonen, Jukka; Säynäjoki, Antti; Junnila, Seppo (2011): Occupants have little influence on the overall energy consumption in district heated apartment buildings, Energy and Buildings, 43, 3484–3490.

Paper III: Kyrö, Riikka, Heinonen, Jukka; Junnila, Seppo (2012): Housing managers key to reducing the climate impact of housing companies? A mixed method approach, Building and Environment, 56, 203-210.

Paper IV: Kyrö, Riikka; Karhu Jessica; Kuronen, Matti, Junnila, Seppo (2012): Generating low-energy alternatives for neighborhood-scale urban residential refurbishment through occupant involvement, Proceedings of the CIBW070 Conference, January 2012, Cape Town, South Africa.

Paper V: Kyrö, Riikka; Heinonen, Jukka; Säynäjoki, Antti; Junnila, Seppo (2012): Assessing the Potential of Climate Change Mitigation Actions in Three Different City Types in Finland, Sustainability, 4(7), 1510-1524

| Journal | ISI IF* | SCOPUS SJR/SNIP** | |
|--------------------------------|------------|----------------------|--|
| Environmental Research Letters | 3.631 | 0.152/1.416 | |
| Energy and Buildings | 2.386 | 0.080/3.105 | |
| Building and Environment | 2.400 | 0.080/2.609 | |
| Sustainability | not listed | 0.026/0.107 | |



| Import: ∑ Import t/a | | | dStock: ∆ Stock | | Export: ∑ Export t/a | | |
|---|---|--|---|--|----------------------|--|-------------|
| | | | | Paper IV: Generating low-energy alternatives for | | | |
| | | NEIGHBORHOOD | neighborhood scale | | 1 | | |
| | How do d | SOUTH PROPERTY. | Paper II: Occupants have little impact on | urban residential refurbishment through occupant | Actors: Motives | | |
| | influence GHG emi | | the overall energy | involvement | acknowledged | | |
| | (RQ2) | SSIONS | consumption of district heted apartment buildings | Paper III: Housing managers key to reducing the limate | F1 | | Decision |
| | - | IVIDUAL | | impact of housing | | No | making |
| How significantly do | Paper I: Dense downtown living more carbon intense due to higher consumption: a case of Helsinki | | | companies? A mixed method approach | | single actor, no single action | communities |
| to life-cycle GHG | RQ3 | | CITY | | | | |
| How do different urban mitigation actions affect life-cycle GHG | Paper V: City level carbon mitigation strategies: what are their true impacts | Paper VI: Assessing potential climate change mitigation action in different city types | Actions: True impact not known | | | | |
| | emissions | 2500 | | | KIIOWII | | |
| | | | Dissertation_proc | ess, 2012 | | | |



The general research aim is to assess climate change mitigation potential in urban environments

CityPolicy maker

Neighborhood Occupant - Manager

Individual Consumer



| | Paper I | Paper II | Paper III | Paper IV | Paper V | Paper VI |
|---------|---|--|---|--|---|--|
| Title | Dense Downtown Living More Carbon Intense Due to Higher Consumption: Case Study of Helsinki | Occupants have little influence on the overall energy consumption in district heated apartment buildings | Housing managers key to reducing the climate impact of housing companies? A mixed method approach | Generating low- energy alternatives for urban residential development through occupant involvement | City level carbon mitigation strategies: What are their true impacts? | Climate change mitigation action in different city types - assessing the true effect |
| Scale | Individual | Neighborhood | Neighborhood | Neighborhood | City | City |
| Finding | Housing related emissions form the majority of an individual's carbon footprint independent of the type of urban structure. | Managers controlling the heating system may have a more crucial role in mitigating climate change than the individual occupants. | Different manager types exist and managers' attitudes and practices may have an impact on the energy use and GHG emissions. | Occupants prioritize individual preferences; housing management understands the whole, and promotes energy- efficiency. | Currently preferred mitigation actions have varying levels of reduction potential, magnitudes should be understood. | The reduction potential of currently preferred mitigation actions varies, based on e.g. the type of urban community. |
| Actors | Consumer | Occupant | Manager | Occupant Manager Policy maker | Policy maker | Policy maker |
| Actions | Urban density | Building energy- efficiency | Building energy- efficiency | Building energy- efficiency Urban density | Energy production Urban density Low-energy construction | Energy production Urban density Low-energy construction Building energy- efficiency |



Are the Right Actors Taking the Right Action? Climate Change Management in Finnish **Urban Housing**

YOUR THESIS TITLE

CONDENSING OVER HALF A DECADE OF YOUR LIFE IN ONE SENTENCE.

www.phdcomics.com JORGE CHAM @ 2006

the colon Can't decide what to title your thesis? Use a colon!

a preposition A good preposition tells your readers "hey, this is not just a futile exercise"

"Witty catchphrase"

Length-enhanced superlative verbiage with prolixity

in/of/ for

Obscure topic few people caré about.

witty catchphrase

Makes people think you're hip and culturally relevant. Only marginally related to the actual thesis? No problem.

the boring stuff

Nothing says "academic rigor" like a long string of dry scientific-sounding terminology and fancy buzzwords.

obscure topic few people care about Sad, but true.



Actors

Lot of attention is paid on the impact of occupant behavior, not enough is placed on:

- 1. housing management practices and attitudes;
- 2. consumer preferences, or;

3. ways to steer the above two into an environmentally

sound direction.





Actions

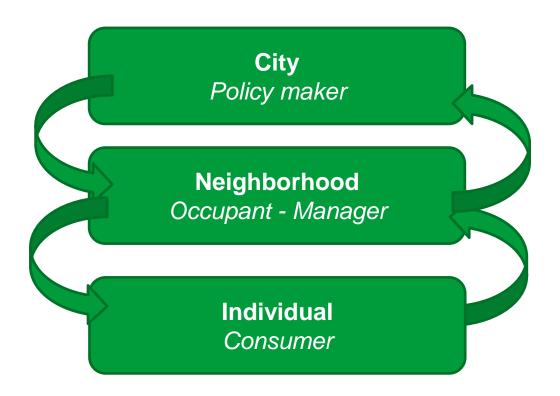
Commonly accepted urban mitigation actions are adopted without full knowledge of their actual (global consumption-based life-cycle) GHG impacts.

While urgent mitigation action is needed, impact assessment remains essential in order to avoid void action.





No single action, no single actor will suffice in mitigating the climate change impact of urban communities





The Preliminary Examination

- Advisor recommends two experts in the research field as preliminary examiners (must be active publishers)
- CV and publications lists evaluated by the Doctoral Program Committee which appoints the pre-examiners
- Pre-examiners given two months to complete the review
- Statements may suggest:

no / minor / moderate / significant / extensive revision





The Public Examinaton (The Defence)

- After revisions, permission to publish
- 11 days public display
- Defence may be scheduled
- Advisor suggests an Opponent(s)
- Opponent selects the date
- Friday is the day of public examinations at Aalto

- Supervisor acts as Custos in the defense
- Highly ceremonial and formal with a strict dress code
- Public is also welcome





The PhD Degree

After a successful defence, a degree diploma is issued at he next graduation ceremony

Provided:

- 1) all studies are complete;
- 2) no unpaid library fees



