SYKE





New approaches to govern lowcarbon transitions

- Promoting low-carbon transitions requires innovative policy development
- Novel approaches to governance include reflexive regulation and strategic experiments
- Need to better understand reflexive regulation and experiments on their **own terms**, in relation to one another and as **parts of wider societal transitions**.





Strategic experiments

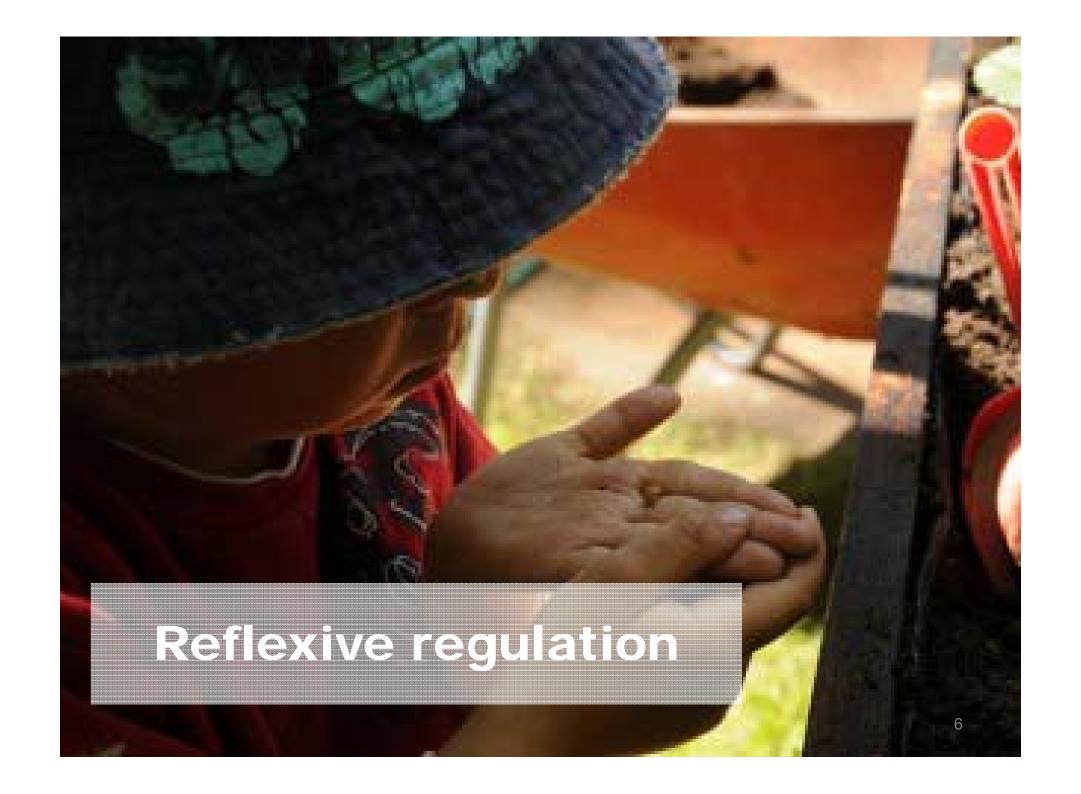
- Local experiments on low-carbon solutions widely applied
- Definition: 1) making something new and concrete that is 2) restricted in terms of time, space, scope and/or actors but that 3) has the potential of having wider societal relevance through various up-scaling mechanisms
- Some experimentalist localities have managed to make impressive cuts of CO2 emissions
- Need for their in-depth analysis
 - Capacity to contribute to systemic change?



Strategic experiments can refer to...

- Governance experimentation
- Socio-technical experimentation as part of sustainability transitions
- Living laboratories taking place at local level
- -> Our focus will be on experimenting as a broader **societal/governance phenomenon** and on the ways how strategic experiments **materialize and challenge** existing regimes and landscapes.





Reflexive regulation

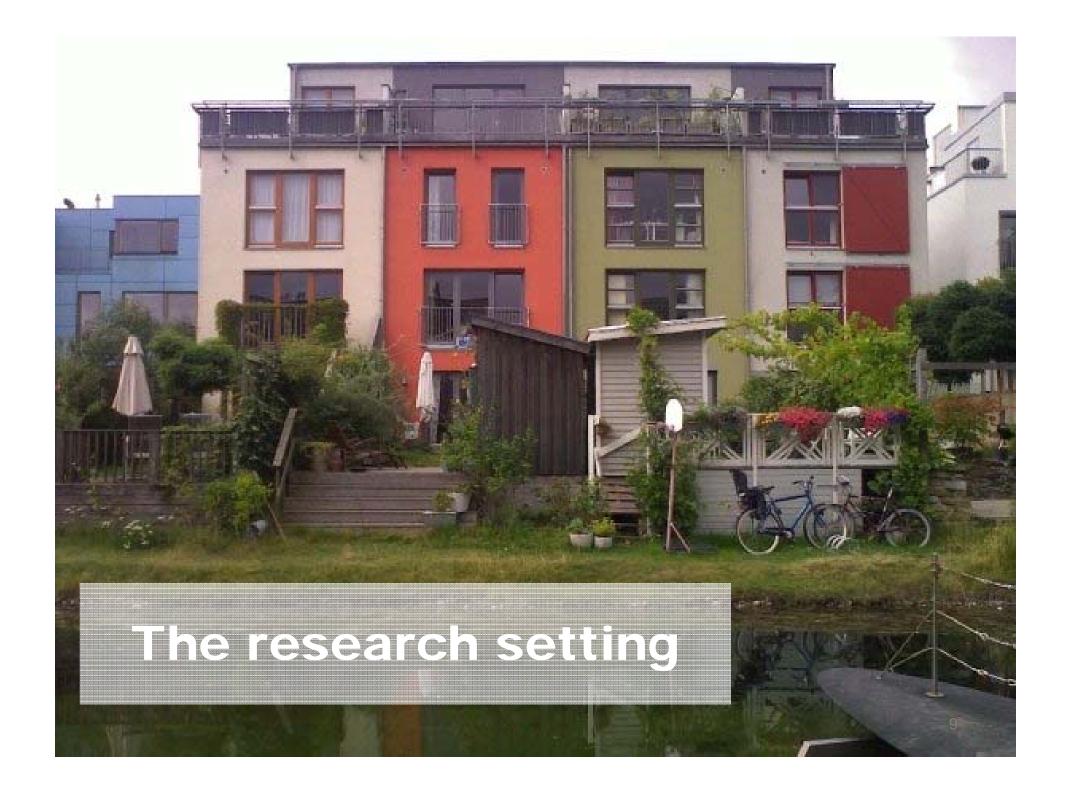
- Focus of legal regulation on the process of communication instead of substantive outcome
 - Tentative, experimental, and learning
 - Responsive, adaptive, flexible
 - How to solve the tension with other values, i.e. precision, predictability, legal security?



Reflexivity of regulation a way to deal with...

- Economic, social and political risks
- Dynamic and complex nature of socio-ecological systems
- Scientific uncertainty
- Technological development



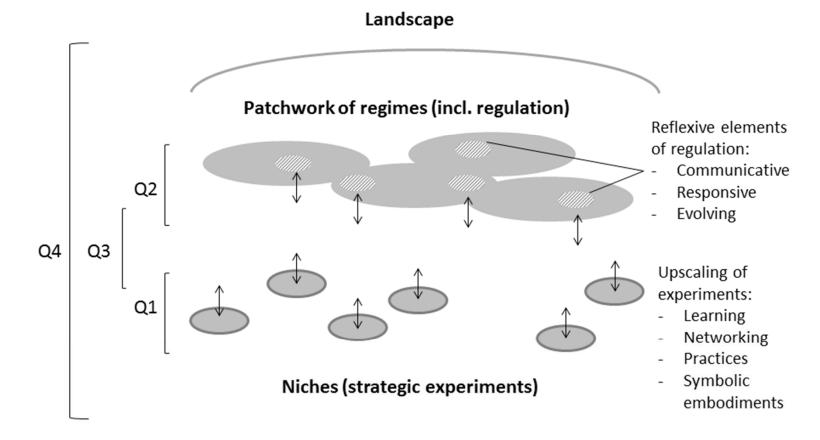


Research objectives

- Roles that strategic experimentation plays/could in transitions
- 2) Possible role of **reflexive regulation** in transitions
 - affected by legal structures, principles and processes.
- 3) Relationships between (reflexive) regulation and strategic experiments
 - governance towards a low-carbon society.
- 4) Contribute to **sustainability transitions theory**
 - structured analyses of governance



The framework of the research





Empirical material & methods

- Practical focus on energy-related regulation and experiments
- Material from Finland, California and the UK
- In practice:
 - Experiments: mapping and studying cases, expert interviews in Finland and the UK
 - Reflexive regulation: comparing regulation in Finland and California
 - Interaction: expert interviews and analysis of regulatory processes in Finland



Hypotheses & questions (1/2)

- Strategic experimentation can contribute to learning, to the birth of new networks, practices and symbolic embodiments of alternatives boosting the policy process.
 - What determines the success?
 - What kind of paths there can be to a "successful" outcome?
- A significant part of existing regulation is not –
 and cannot be reflexive.
 - How can different forms of reflexivity in suitable parts of the regulatory regime increase the capacity of regulation to enhance transitions in long-term?
 - What broader regulatory features affect the function of the instrument?





Hypotheses & questions (2/2)

- The design and implementation of regulations affect the realization and effects of climate-relevant experiments.
 - Can strategic experiments change the regulatory regime?
- The study can contribute to the analytical capacities of the transitions theory.
 - To which extent it is possible to bridge the various theoretical domains?





