Energy Strategy 2050 and Sustainable Real Estate

Christian Bächinger







Introduction to Energy Efficiency in the Building Sector

Relevance of Buildings in Switzerland

- Buildings use approx. 46% of total energy
- Strict buliding codes («MuKEn» / «MoPEC») for
 - New buildings
 - Comprehensive retrofits
- Rate of comprehensive retrofits: approx. 1% anually

Main Agents

- Private owners (88% of buildings)¹
- Barriers: lack of interest, lack of financing, building codes, low return, etc. ²



Profitability of energy efficient retrofits

Properties held for own use:

Profit = energy savings - costs

energy price as important driver

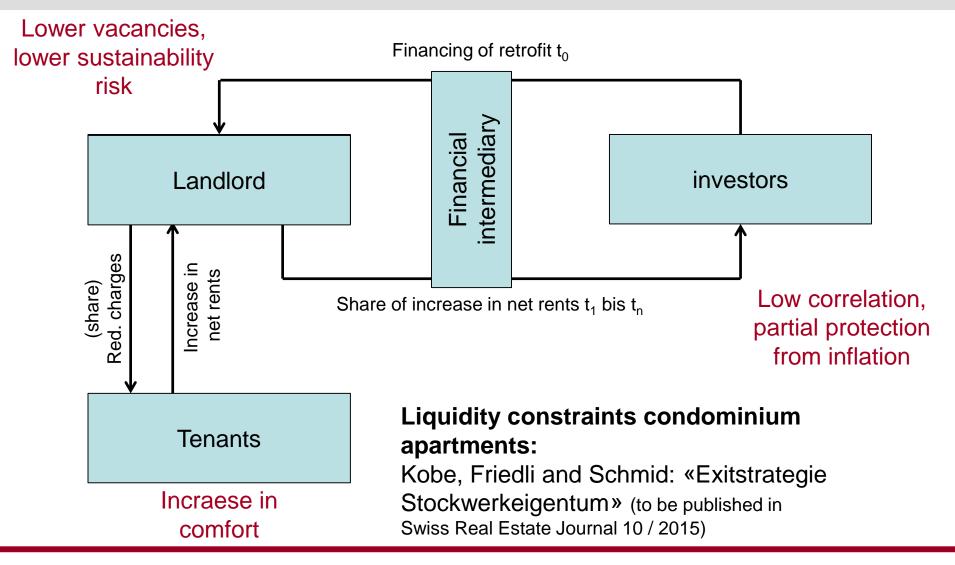
Properties held for investment:

Profit = rent increase - costs

rental law and market as main drivers

- Difference between current rents and market rents
- Level of market rent

Liquidity constraint for private investors: investment fund scheme



Energy Strategy 2050

Changes in the real estate sector

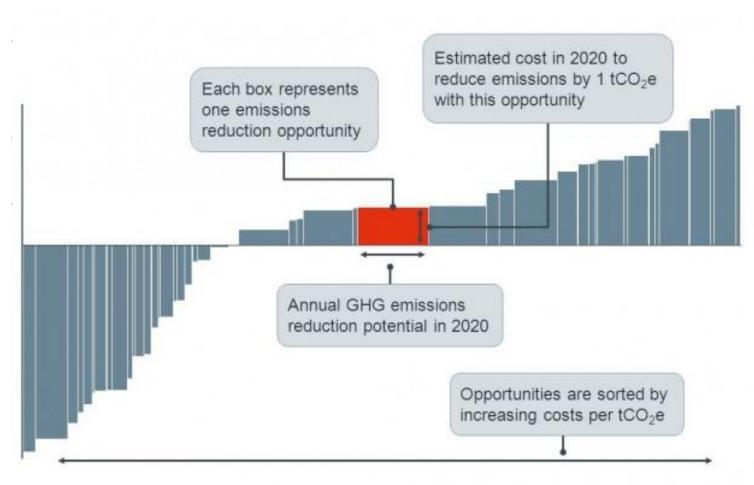
- Increase of CO₂-tax for fossil fuels
- Increase of subsidies for energy efficient retrofits

Expected impacts on investment behaviour

- Properties held for own use:
 - rise of energy prices and subsidies will increase ROI
 - Higher demand for financing
 - other barriers remain in place
 - Properties held for investment:
 - CO₂-tax: minor effect on Cash Flows
 - Subsidies: impact on locations with low demand?



Alternative: ETS for buildings?



Example of marginal abatement cost curve (www.climateworksaustralia.org)

