



The RentalCal Project: Speeding energy efficiency investment in the rented housing sector of eight EU Member States

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Energy efficiency investment needs

- 1. Landlords' perspective
- Profitability of EE investment => www.rentalcal.tool
- Increased transparency of national investment conditions to reduce investor related, rental and taxation barriers
- 4. Governance: investors' impact on EE investments
- Awareness raising: impact of green/ sustainable investment within the housing sector





Landlords' perspective: preparing the EE investment

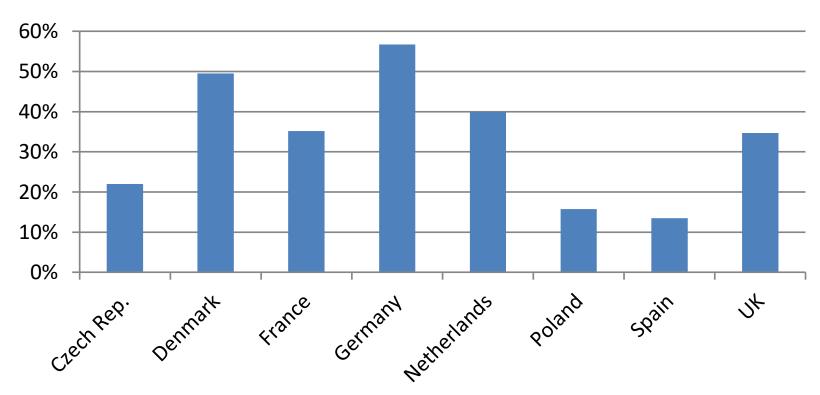
- Size, age and energy performance of rental housing stocks vary widely across the RentalCal countries
- Analysis based on TABULA <u>www.tabula.eu</u> and
- Definition of the rental housing stock per country (according to building type and building age)
- TABULA is used to estimate energy saving potentials and investment costs







Share of rental dwelling units (of total housing stock)







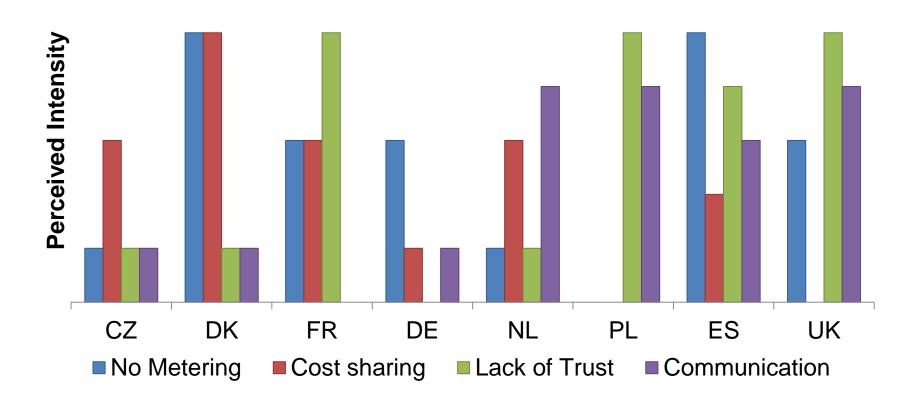


- Landlord's investment needs long pay back period for recovery
- Green value shows some effects in rent and sales price
- Tenants pay: maintenance costs ,heat & hot water
- No full compensation of rent increase by decrease of heating costs
- EE modernization investment refinanced via rent increases in all countries





Soft barriers







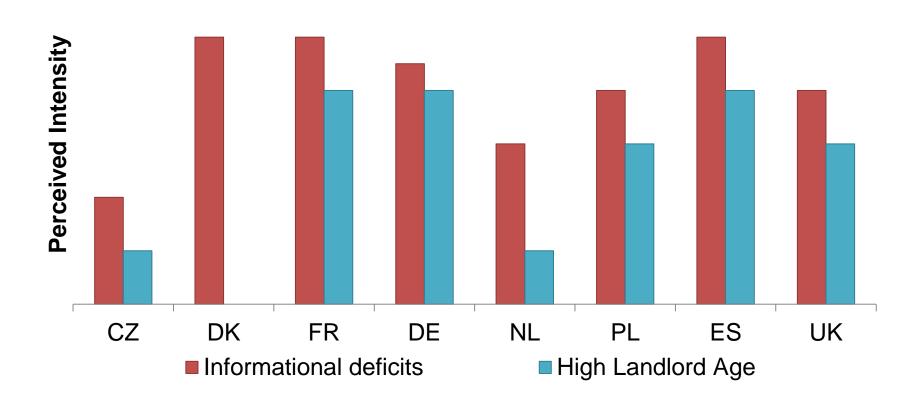
Country specific "soft" barriers

- No metering this barrier is most prominent in DK (legislation change by the end of 2016) and Spain
- Lack of trust UK, France and PL, less so in Spain
- Communication issues significant institutional barrier in NL, PL, Spain, UK
- Cost sharing of energy efficiency retrofits a significant barrier in DK, France, NL





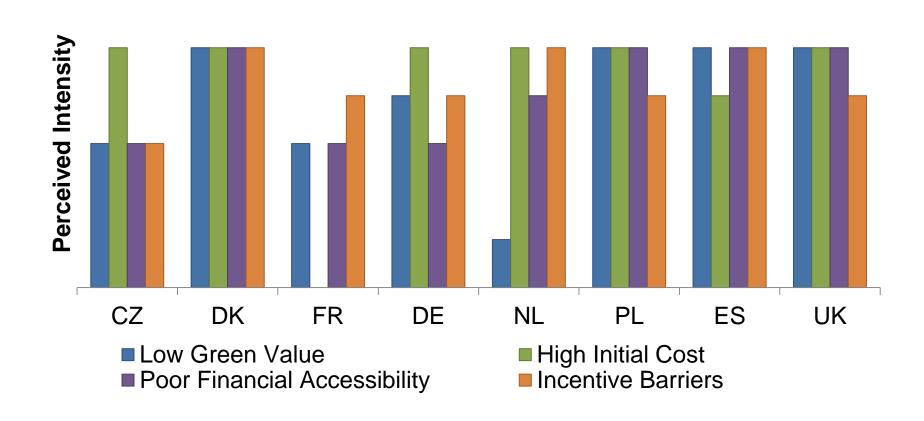
Investors' impact on EE investment







Financial impact on EE investment







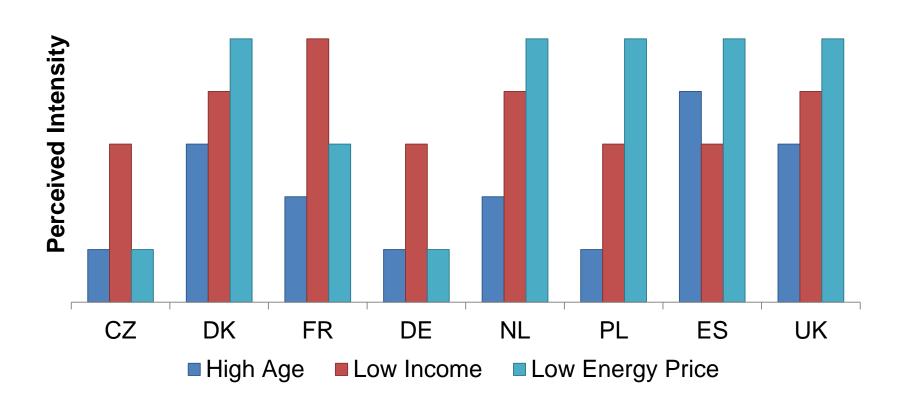


- Green value is not clearly reflected in the property value
 least noticeable in NL, followed by CZ and France
- Informational barriers in all countries, with the exception
 CZ
- Need for high initial capital is a clear barrier across the majority of countries; exception France
- Poor access to financial support detrimental to energy efficiency take-up
- Old landlords are less motivated to adapt to technological change





Tenants related barriers







Conclusion

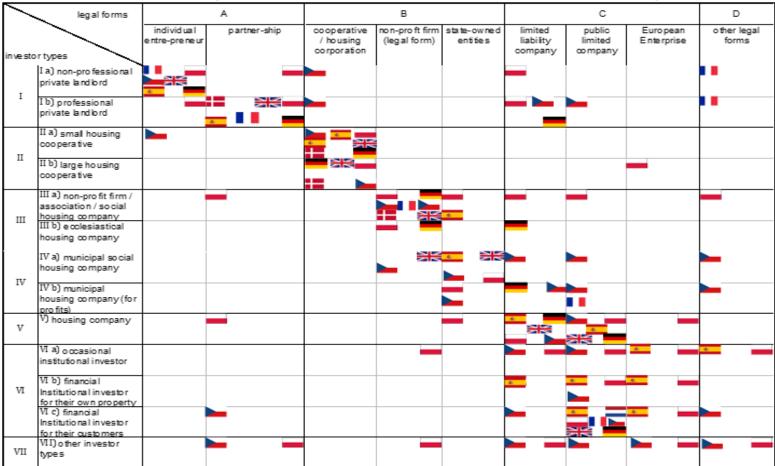
- Demographic barriers and limited spending ability of tenants- most prominent in Spain, the UK, Denmark
- Low income, as a barrier to invest in green initiatives, seems to be consistent across all of the countries
- Energy efficiency retrofits are perceived as a secondary priority by tenants in the majority of the countries, with the exception of Denmark
- Low stable energy prices with the exception of Germany, CZ





Heterogeneous investors

Investor typology (market based rental housing stock)

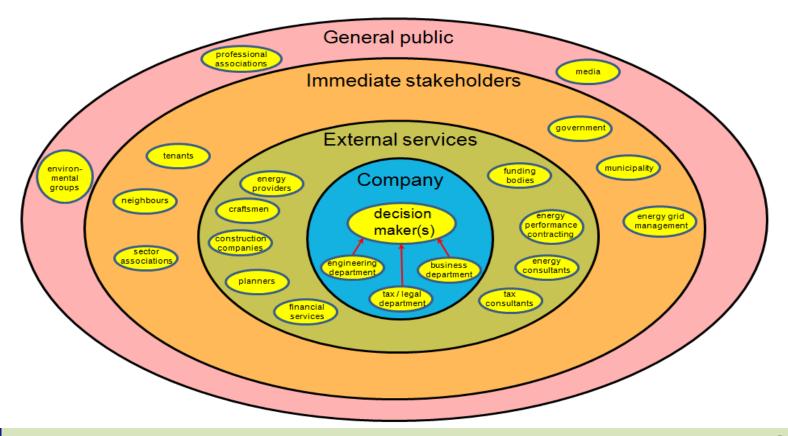






Complex constellation of decision making

Constellations for decision making - corporate decision maker







Barriers: Rent setting*

- Rent setting after EE investment based on "market" situation (contractual freedom)
- EE investment refinanced via rent increases in all countries
- Ceiling: rent increase linked to increase in energy efficiency: France and Germany
- Green premium mechanism "Rental table" allows rental surcharge for measurable energy efficiency
- Rent control happens via court supervision initiated by the tenants

^{*}seen as barriers: F, G, NL,UK, "neutral" :CZ, G, P, "facilitator" E, GB of energy efficiency investments







- Basis : personal rental income (with other earned income sources, incl. capital gains)
- Flat corporate income tax on companies profits in all countries
- Local property and transaction taxation in all countries with different taxation basis: property value, modernization as municipal add on, except Denmark, Spain: local charging of urban land value increases on the sale's occasion





Depreciation rules

- Unified depreciation rules (and their relation to balancesheet value of real estate)
- No depreciation rules for building components
- Poor harmonisation of tax related rules
- Similar practices on:
 - Maintenance expenses: tax-deductible costs
 - Investments leading to improvements: increase green/ sustainable investment balance-sheet value of the property
 - No clear distinction between those expenditures





Speed EE investment - Policy recommendations

Increase of return on equity by means of

- Zero or low interest rates (France Zero % eco loans, Germany very low interest rates for green investment)
- Grants linked to high (binding) energy efficiency standards
- Visible rent increases related to visible energy efficiency investment
- Tax exemption
- Green value representation in rent/ property value





Speed EE investment - Policy recommendations

- Easy access to funding schemes
- Transparency & increase of trust
- Mandatory retrofit packages, affordable to all national income groups
- Green value research and monitoring
- Evaluation of existing programmes to establish a framework for future policy considerations





Thank you for your attention Iris Behr









European Green Cities
Network (EGCN)















Department of Land Economy

