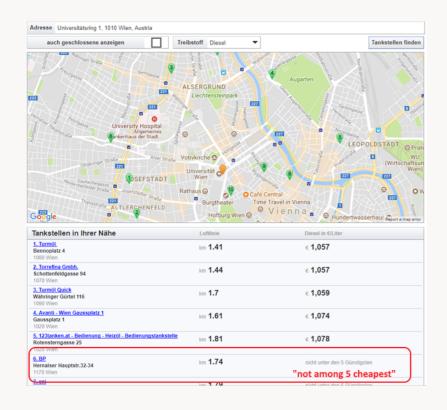
Market Transparency and Consumer Search - Evidence from the German Retail Gasoline Market

Motivation

- Market transparency: Important policy issue
- Government operated comparison websites
- Retail gasoline price comparison websites: Full transparency in Germany, but restricted transparency in Austria (by law!)



Research question

- What are the effects of transparency in markets with information frictions?
- Counter-factual policy simulation: What is the effect on prices and consumer welfare by changing the transparency regime in Germany?

Main results

Consumers can be better off with strictly less information (but not too little)

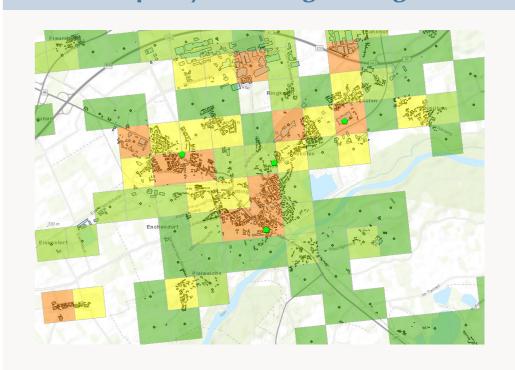
- information (but not too little)

 Restricted transparency showing only first 20% of prices
 - Consumer expenditures decrease by 1.2%
 - Partially mitigated by inefficient matching
 - Consumer welfare increases by equivalent of 3.9% of firms' current margins
 - More restrictive policies
 - Prices increase monotonically in transparency
 - Matching becomes even less efficient
 - ⇒ consumer welfare is inverse u-shaped in transparency
 - Framework that allows estimating discrete choice models with incomplete information using price data only

Approach

- Model in spirit of Varian (1980) and Thomadsen (2005)
- Estimate structural model
 - Setting with horizontal and vertical differentiation, high volatility
 - Uninformed consumers and website consumers (discrete choice)
 - Transparency affects consideration set
 - No evidence for mixed strategies (Chandra and Tappata, 2011)
 - Game of incomplete information ⇒ uncertainty in prices and rankings
- Estimation
 - Flexible two-stage approach (similar to auctions or dynamic games)
 - Proxy for demand using buildings data

Demand proxy: Buildings with grid cells



Consumer welfare vs. transparency

