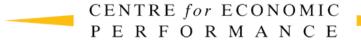


UK Housing and Planning Policies: Evidence from Economic Research

Christian Hilber London School of Economics

June 2016







Overview

- 1. The key policy issue some stylized facts
- 2. Features of the British system of land use planning and testable implications
- 3. Empirical evidence: Impact of planning constraints on house prices
- 4. Assessment of housing policies in light of existing institutional setting
- 5. Conclusions

Overview

- 1. The key policy issue some stylized facts
- 2. Features of the British system of land use planning and testable implications
- 3. Empirical evidence: Impact of planning constraints on house prices
- 4. Assessment of housing policies in light of existing institutional setting
- 5. Conclusions

Stylized fact 1

House values in England – particularly in London and SE
 – are amongst highest in world

Mean price of single detached house (all transactions in 2008 – in-midst of Great Recession):

► Kensington: 4.3M £

Richmond: 1.2M £ (greenish London suburb)

► Hackney: 770k £ (rather distressed London borough)

Cotswold: 470k £ (rural West of England)

 Buying price per square metre second highest in the world (topped only by Monaco)

Sources: Land Registry; Globalpropertyguide.com (last accessed 6/2016)

Stylized fact 2

- House prices in UK (and particularly England) are also extremely volatile
 - ► UK as a whole substantially more volatile than single most volatile market in US
 - ► 1980s/90s cycle: boom/bust in real terms

UK: +83% / -38%

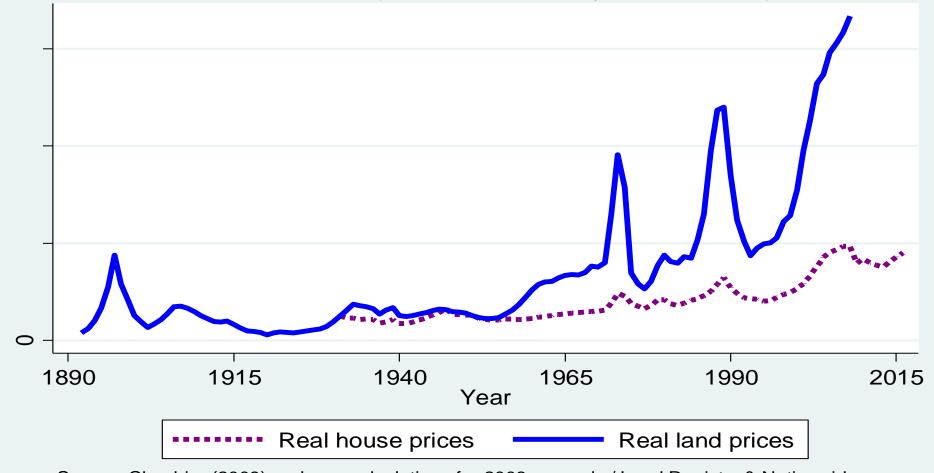
■ Los Angeles: +67% / -33%

Sources: Nationwide; Glaeser et al. (2008)

Volatility has increased in recent decades...

Real land and house price indices (1931=100)

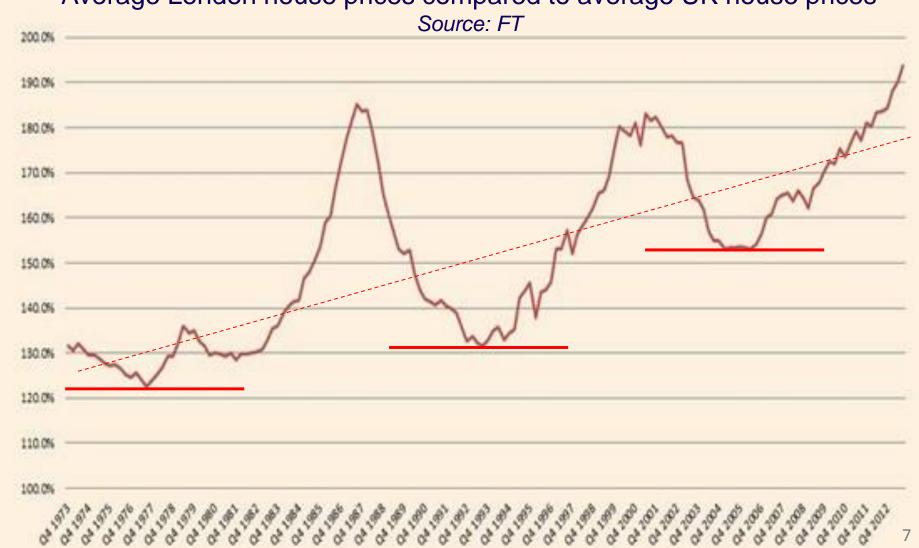
Note: House and land price data for war years are interpolated



Source: Cheshire (2009) and own calculations for 2008 onwards / Land Registry & Nationwide

Volatility has increased in London relative to rest of UK...

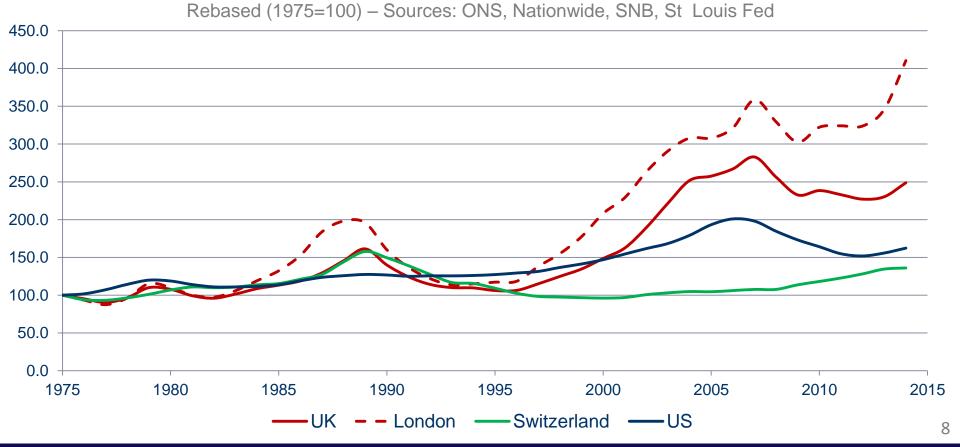
Average London house prices compared to average UK house prices



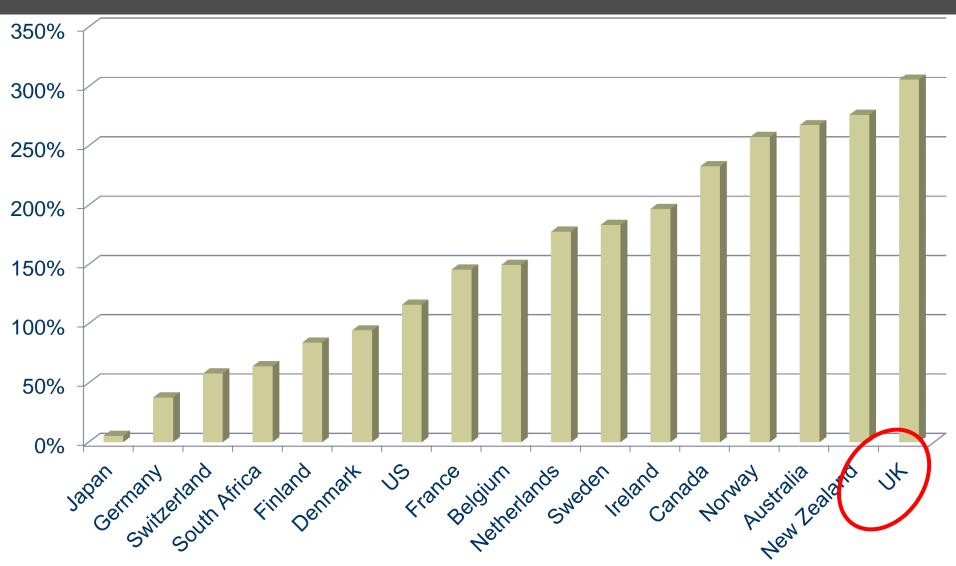
Stylized fact 3

 Real HP growth in UK over last 40 years has been extraordinarily high by international standards...

Real house price growth in UK vs. US & Switzerland

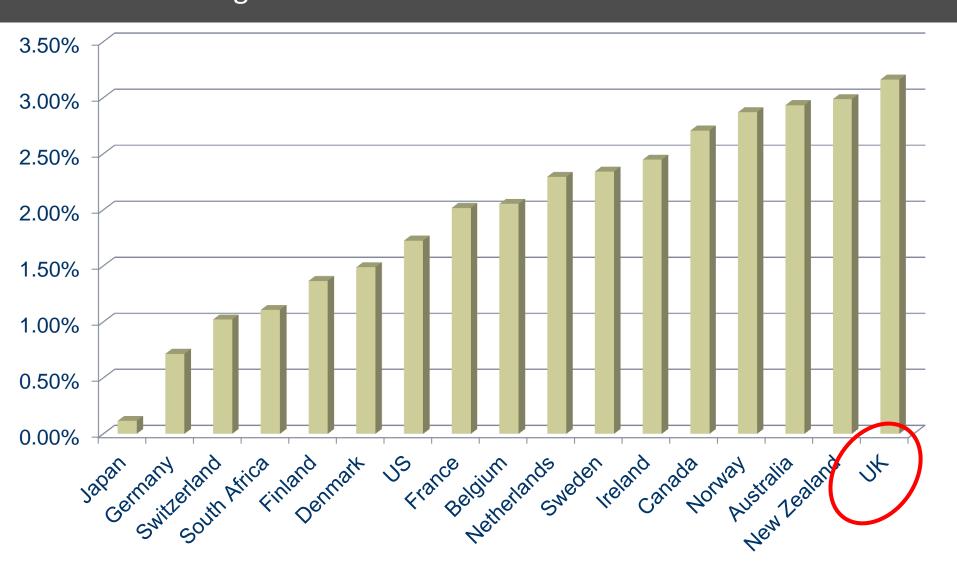


Accumulated real house price growth in % 1970 – 2015 for selected OECD countries



Sources: Bank for International Settlements (BIS), World Bank, Bank of England

Real house price growth p.a. in % Average 1970 – 2015 for selected OECD countries

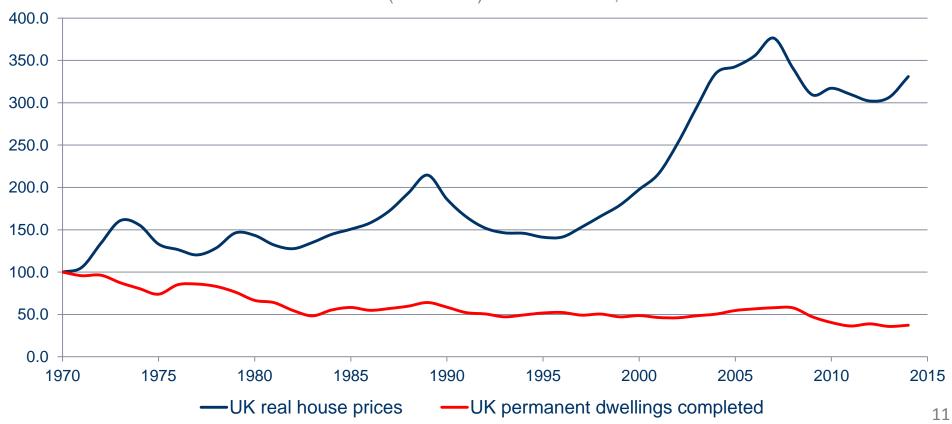


Source: Bank for International Settlements (BIS), World Bank, Bank of England

Stylized fact 4

 Despite extraordinary price growth since 1970, construction has been in continuous decline...

UK real house prices vs. UK permanent dwellings completed Rebased (1970=100) – Source: ONS, DCLG



Stylized fact 5

- There are not only fewer new-build homes but these are also extremely small by international standards (Statistics Sweden 2005)
 - A new-build house in UK is 38% smaller than in densely populated Germany and...
 - ► 40% smaller than in the even more densely populated Netherlands
- ...and houses are built in the wrong places: very little construction in the prosperous South
 - Very little new housing in e.g. Oxford & Cambridge (compared to say Doncaster or Barnsley)

Derived research questions

- What factors constrain housing supply (and thereby cause the corresponding high level and volatility of prices)?
 - ▶ Might the British system of land use planning be a – or the main – culprit?

Overview

- 1. The key policy issue some stylized facts
- 2. Features of the British system of land use planning and testable implications
- 3. Empirical evidence: Impact of planning constraints on house prices
- 4. Assessment of housing policies in light of existing institutional setting
- 5. Conclusions

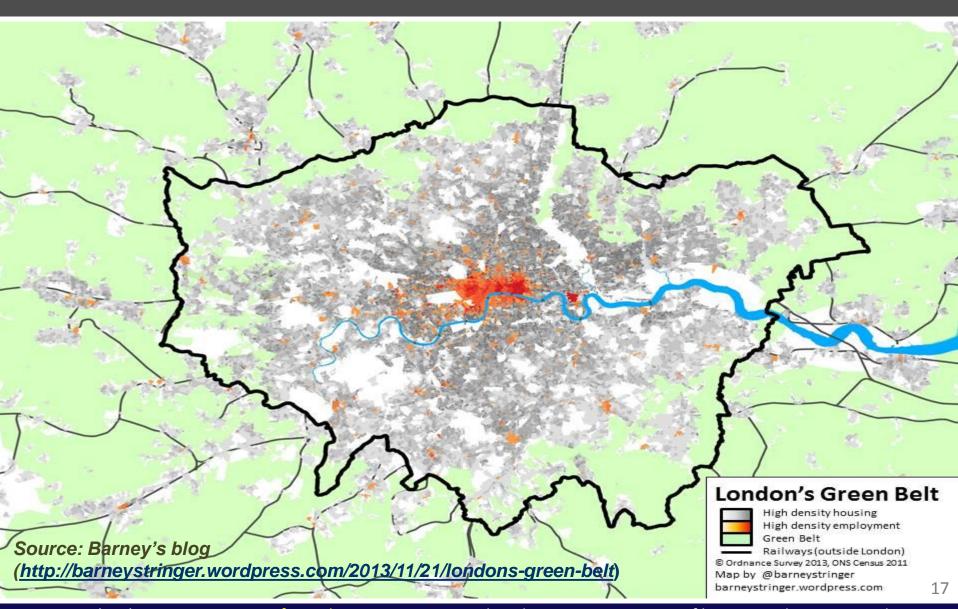
Some background: The British system of land use planning

- Today's planning system established in 1947 through Town and Country Planning Act
- Key features
 - Expropriated development rights of land owners
 - Designated 'use' classes, whereas any change of 'use' requires development control permission (granted at local level)
 - Aim is 'development control' or 'containment'

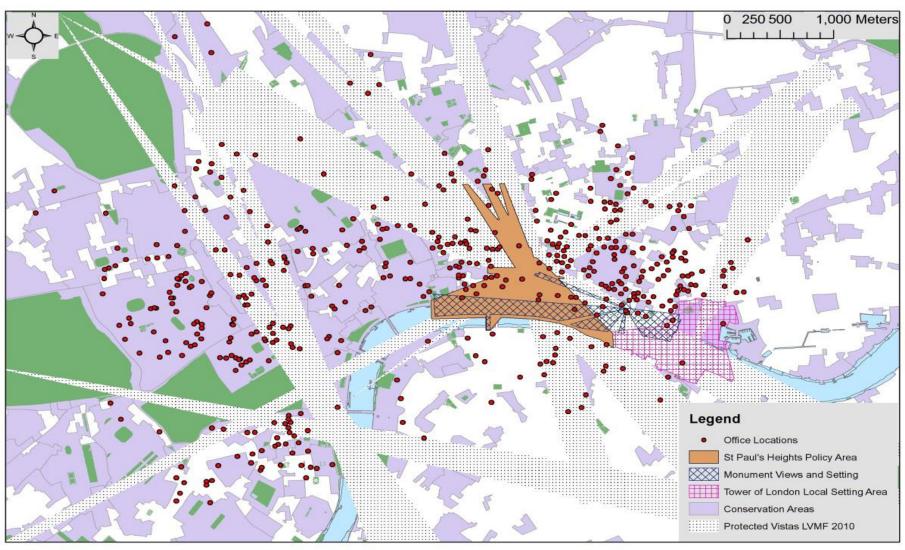
What green belt containment looks like...



And in London...

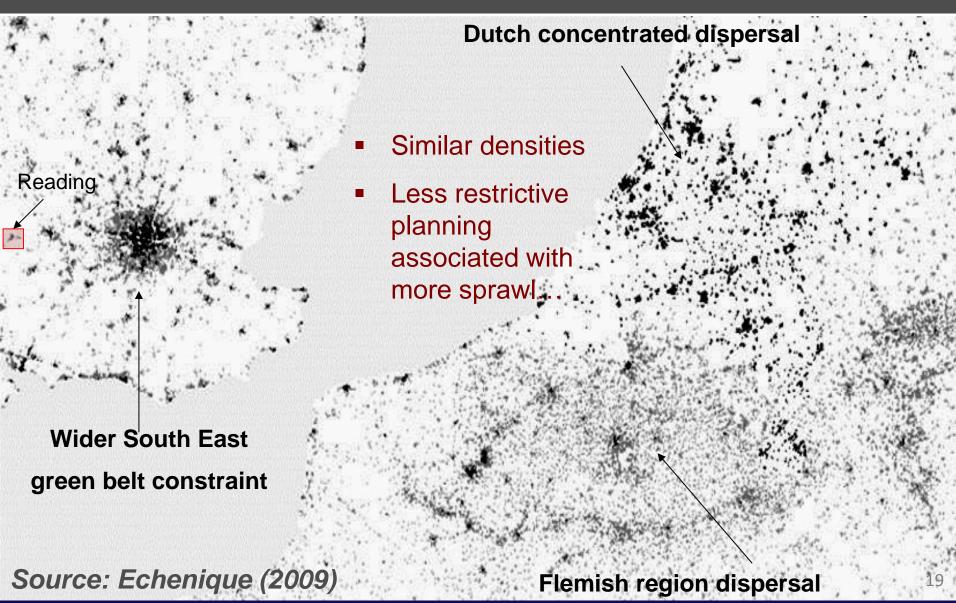


But not just green belt containment – many other planning constraints...



Source: Cheshire & Dericks (2014)

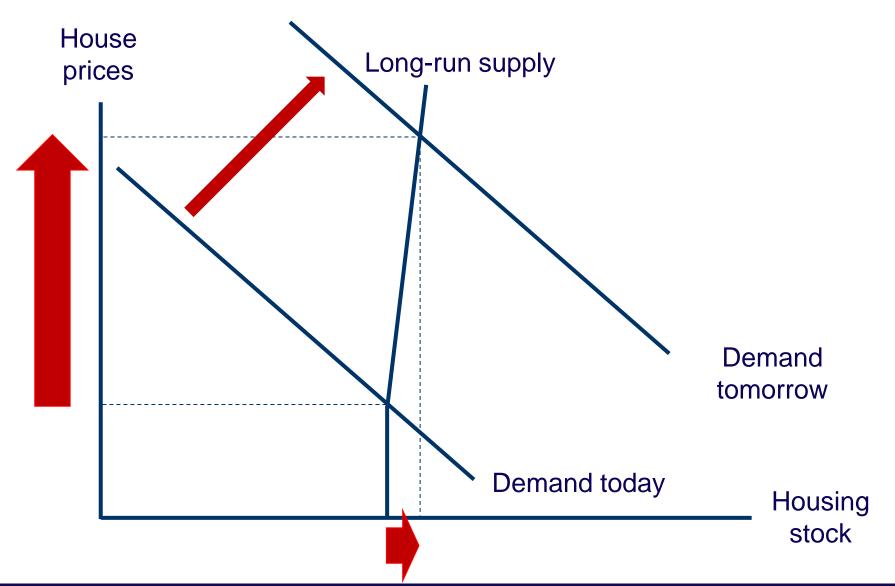
The planning system does affect urban form...



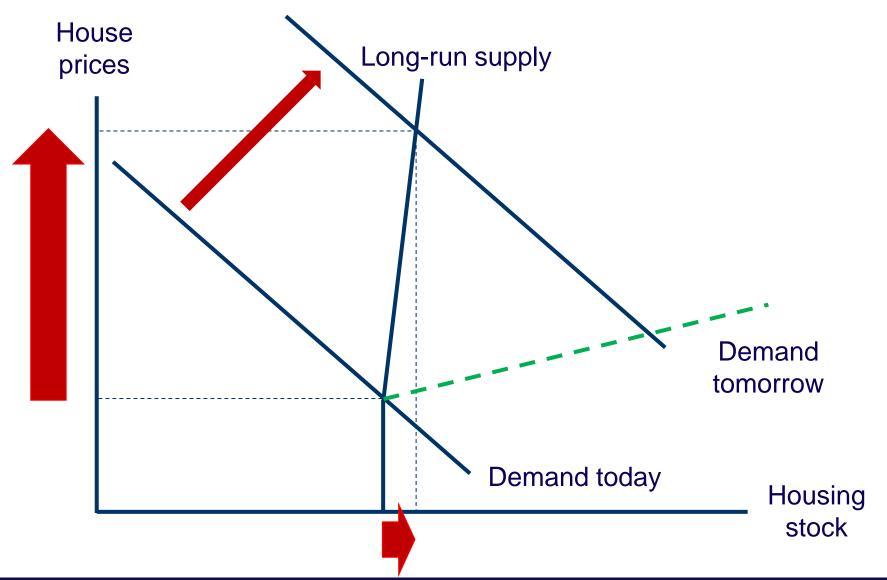
Who decides in UK?

- Local Planning Authorities (LPAs) grant or reject planning applications
 - Problem: Since 1947 virtually no fiscal incentives at local level to permit development (costs far exceed benefits)
- Underlying causes?
 - UK = highly centralized country, virtually no fiscal power at local level
 - Political power tilted towards homeowners (NIMBYs)
- ⇒ Local long-run supply curve nearly vertical...

Theoretical prediction...



Theoretical prediction...



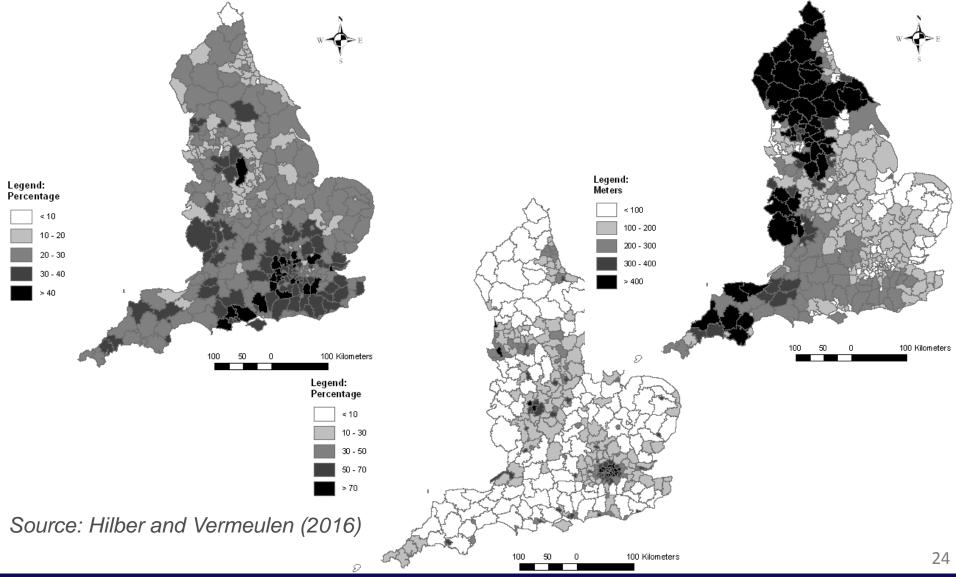
How to test?

- Hilber and Vermeulen (2016)
 - Exploit spatial variation in three different types of supply constraints: regulatory, scarcity of developable land and topography
 - Interact supply constraints with demand shifters (local earnings; labour demand shock)
 - Use instrumental variable technique to identify causal effect of local supply constraints measures on local house prices

Average refusal rate (major residential projects) 1979-2008

Share developable land developed, 1990

Elevation range



Main findings

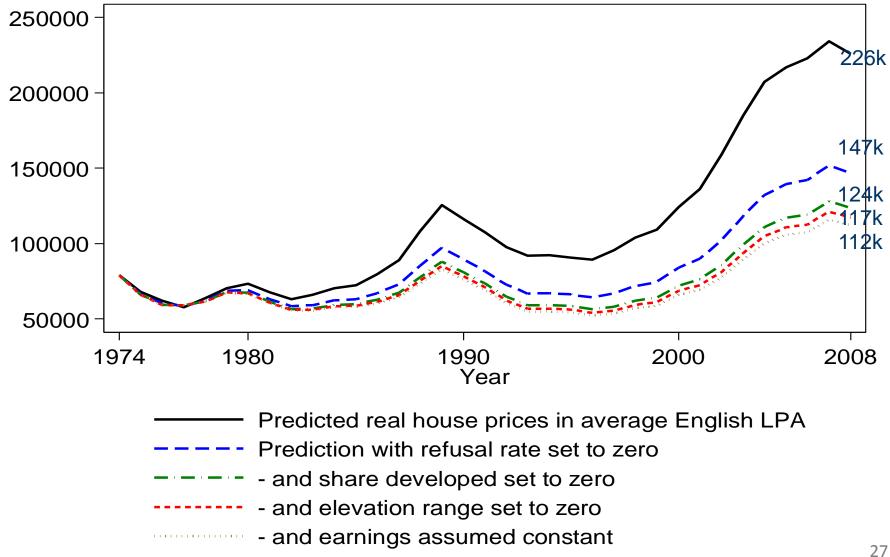
- Tight local planning constraints in parts of England (in conjunction with strong demand) are to a large extent responsible for extraordinarily high house prices
- Local scarcity of developable land matters but very non-linearly (only in most developed locations)
- Topography matters in statistical sense but very little in economic (quantitative) sense...

Quantitative effects (based on IV with *all* instruments)

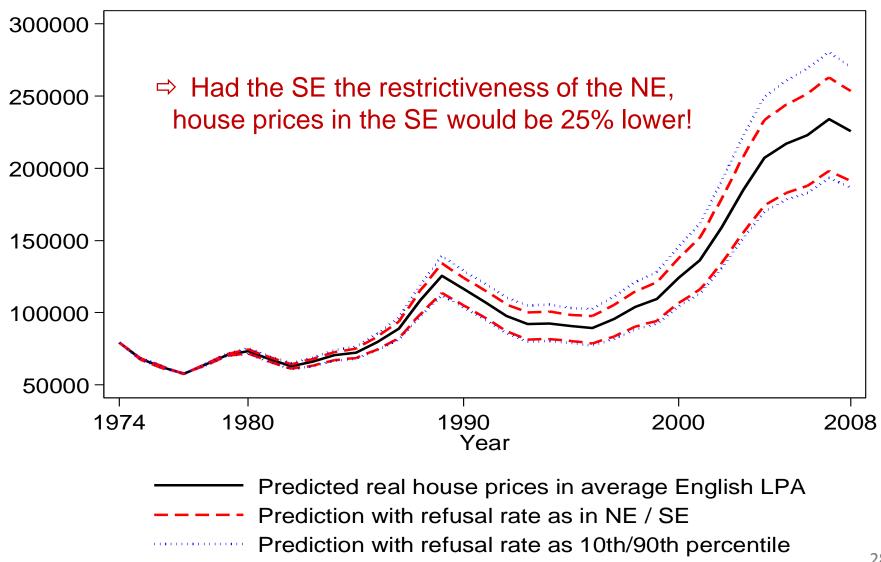
- If planning were completely relaxed in average LPA:
 - ► House prices in average LPA: -35%
- and developable land were abundant:
 - ► House prices in average LPA: -45% (Δ = -10%)
- and LPA were completely flat:
 - ► House prices in average LPA: -48% ($\Delta = -3\%$)

<u>Note</u>: These are likely lower bound estimates for a number of reasons (see Hilber and Vermeulen, 2016, for details)

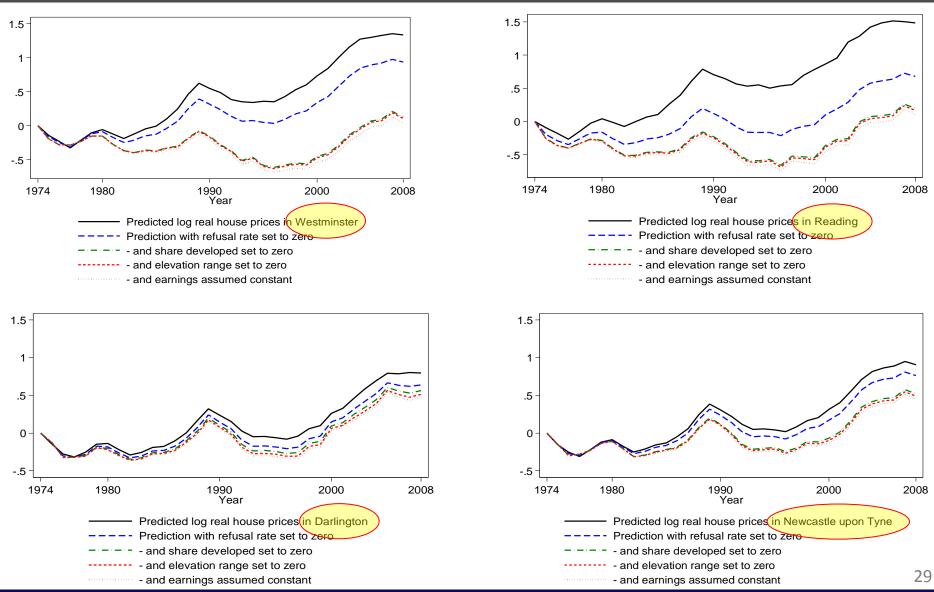
What would house prices in average English LPA be if...



North East *vs.* South East & 90th *vs.* 10th percentile



But large variation across locations...



Preliminary conclusions: There are two fundamental issues...

- 1. Planning system effectively assigns development rights to local policy makers, planners & NIMBYs
 - In contrast: In most other countries, development is rule based – if land is zoned as residential, presumption is in favour of development
- 2. Lack of fiscal incentives to develop at local level
 - Discourages local authorities to permit development (most costs – little benefits!) – NIMBYism reinforces
 - Creates incentives to impose horizontal restrictions (Green Belt) and vertical ones (height restrictions)
- ⇒ 1. + 2. jointly cause affordability crisis!

Overview

- 1. The key policy issue some stylized facts
- 2. Features of the British system of land use planning and testable implications
- 3. Empirical evidence: Impact of planning constraints on house prices
- 4. Assessment of housing policies in light of existing institutional setting

Empirical evidence

5. Conclusions

Conclusions

Some existing and proposed policies...

- 1. Housing construction targets
- 2. Help-to-Buy and other demand subsidies
- 3. Devolving fiscal power by abolishing uniform business rate (Chancellor announcement in Oct.)
- 4. Increase in stamp duty on buy-to-let properties & second homes (Autumn Statement)
- 5. Limit on increase of rents for social tenants *(Chancellor announcement)*
- 6. Allowing local authorities to build starter homes on Green Belt (DCLG consultation document)
- 7. Expansion of Right-to-Buy (Autumn Statement)

1. Housing construction targets

- Idea: Announce housing construction targets to encourage development
- Problem: Targets alone neither tilt development rights in favour of development nor do they provide fiscal incentives

- **⇒** Expected effect: Nil!
- ⇒ **Evidence:** Construction in decline since 1970 despite ever increasing targets by all parties and consecutive governments of different colours

2. Help-to-Buy & other subsidies to homebuyers

- Idea: Subsidise demand for owner-occupied housing
- Problem: Local supply extremely price inelastic, in particular in London & South East
- ⇒ **Expected effect:** Policy raises prices but does not spur development
- **⇒** Evidence:
 - ► House prices in London rose by 25.8% b/w 2013Q2 and 2014Q4 & there was no housing boom!
 - Evidence from US: In tightly regulated cities demand subsidies are counterproductive (Hilber & Turner 2014)

3. Devolving fiscal power by abolishing uniform business rate

 Idea: Devolve fiscal power to tax businesses to local authorities (LAs)

Expected effects:

- ► If LAs can keep revenue should provide more incentive to permit commercial development on brownfield land, great but...
- ▶ **Problem**: May divert brownfield land away from housing (substitution effect) so probably even less new housing!

(If central government grants were to fully offset business rate revenue: then no effect at all)

4. Increase in stamp duty on buy-to-let properties & second homes

- Idea: Discourage buy-to-let & second homes
- ⇒ **Expected effects**: Makes buy-to-let and second homes less attractive compared to owner-occupation
 - **Buy-to-let**: Increase in stamp duty will reduce supply of private rental homes ⇒ Increase in private rents & possibly slight reduction in price of owner-occupied homes
 - ➤ **Second homes**: Might increase supply of primary homes in short-run and slightly reduce house prices (good!) but may provide even fewer incentives to add new housing (bad!)
- Overall: Likely zero sum; private rental will become less affordable and owner-occupied housing slightly more affordable

5. Limit on increase of rents for social tenants

- Idea: Make social housing more affordably by limiting social rent increase (to e.g. 1% p.a.)
- Problem: Reduces book value of social rented housing stock ⇒ reduces ability of housing associations to finance additional social housing development
- ⇒ Expected effects: Less new social housing ⇒ few lucky social tenants but even greater affordability crisis for all other young and low income households

6. Allowing local authorities to build starter homes on Green Belt

 Idea: Relax (somewhat) constraints to build starter homes at edge of green belts & on brown-field land within green belts

⇒ Expected effects:

- Tiny fraction of green belt is brownfield
- Only possible if local authority wants it!
- Problem: Local authorities still have no fiscal incentives to develop, especially not in green belt, so at best 'a drop on a hot stone'.
 - But does send signal that low-amenity-value land in green belts may no longer be sacrosanct!

7. Expansion of Right-to-Buy

Idea: Expand RTB to housing association tenants

⇒ Expected effects:

- Incentivises owner-occupation may or may not be welfare increasing
- But in any case: at huge cost to taxpayer because housing associations must be compensated for losses
- ► **IF** they are not: Policy will endanger ability of associations to finance new homes, so may reduce new construction
- Also creates more 'homevoter' NIMBYs, which in turn may further reduce new housing construction!

Conclusions

- Planning serves important purpose in principle it can improve welfare through correcting market failure such as externalities and public goods
- But British planning and tax systems have serious "design flaws":
 - 'Development control' blindly favours containment and generates great degree of uncertainty
 - Lack of local fiscal incentives reinforces problem
- Existing and proposed policies do not tackle these flaws – policies are, at best, ineffective but often counterproductive

So what ought policy makers do? Some guiding principles...

- Radical reforms needed that simultaneously address flaws of planning and tax system
- Planning system ought to...
 - 1. Focus on correcting market failures: Designate parks, areas of natural beauty, historic buildings etc. that are off hands from (re-)development and
 - 2. Change to rule based zoning system: Introduce presumption in favour of development in areas that are not protected

So what ought policy makers do? Some guiding principles...

- Tax system ought to...
 - Align fiscal incentives to develop: Local residents
 & neighbours who bear costs also ought to be able to reap benefits
 - 2. Move away from stamp duty & demand subsidies towards impact fees (reflecting marginal social costs) and genuine local property tax or LVT
 - 3. Consider permitting private compensation payments

Q & A

Thank you!

Presentation with references & hyperlinks will be downloadable from:
http://personal.lse.ac.uk/hilber/

References & Further Readings

- Cheshire, P. (2009) Urban Containment, Housing Affordability and Price Stability Irreconcilable Goals. <u>SERC Policy Paper No. 4</u>, September.
- Cheshire, P. and G. Dericks (2014) 'Iconic Design' as Deadweight Loss: Rent Acquisition by Design in the Constrained London Office Market. <u>SERC Discussion Paper No. 154</u>, January.
- Cheshire, P. and C. Hilber (2008) Office Space Supply Restrictions in Britain: The Political Economy of Market Revenge. *Economic Journal* 118(529), F185-F221. (Latest discussion paper version)
- Cheshire, P., C. Hilber and I. Kaplanis (2015) Land Use Regulation and Productivity Land Matters: Evidence from a Supermarket Chain. *Journal of Economic Geography* 15(1), 43-73. (<u>Latest discussion paper version</u>)
- Cheshire, P. and S. Sheppard (2005) The Introduction of Price Signals into Land Use Planning Decision-making: A Proposal. *Urban Studies* 42(4), 647-663.
- DeFusco, A., W. Ding, F. Ferreira and J. Gyourko (2013) The Role of Contagion in the Last American Housing Cycle. Wharton School, <u>mimeo</u>, June.

References & Further Readings (cont.)

- Echenique, M. (2009) Sustainable Cities. Presentation given at the Spatial Economics Research Centre Policy Seminar, London, 15 October 2009.
- Glaeser, E.L., J. Gyourko, and A. Saiz, (2008). Housing supply and housing bubbles. *Journal of Urban Economics* 64(2), pp. 198-217.
- Globalpropertyguide.com (http://www.globalpropertyguide.com/most-expensive-cities; last accessed: 1 February 2015)
- Hilber, C. (2013) Help to Buy will likely have the effect of pushing up house prices further, making housing become less not more affordable for young would-be-owners. <u>British Politics and Policy at LSE Blog</u>, June 25.
- Hilber, C. (2015a) UK Housing and Planning Policies: The evidence from economic research. <u>CEP 2015 Election Analysis Series Paper EA033</u>.
- Hilber, C. (2015b) Help-to-Buy ISAs Will End up Feathering Nests of the Wealthy Here is How. <u>The Conversation</u>, 19 March.
- Hilber, C. (2015c) Deep-rooted vested interests are to blame for our housing crisis," <u>Disclaimer</u>, May.

References & Further Readings (cont.)

- Hilber, C. (forthcoming) The Economic Implications of House Price Capitalization: A Synthesis. Appears in *Real Estate Economics*. (<u>Latest DP version</u>)
- Hilber, C. and T. Lyytikäinen (2015) Transfer Taxes and Household Mobility: Distortion on the Housing or Labor Market? <u>SERC DP No. 187</u>, October.
- Hilber, C., T. Lyytikäinen and W. Vermeulen (2011) Capitalization of Central Government Grants into Local House Prices: Panel Data Evidence from England. *Regional Science and Urban Economics* 41(4), 394-406. (<u>Latest DP version</u>)
- Hilber, C. and C. Mayer (2009) Why Do Households Without Children Support Local Public Schools? Linking House Price Capitalization to School Spending. *Journal of Urban Economics* 65(1): 74-90. (<u>Latest DP version</u>)
- Hilber, C and F. Robert-Nicoud (2013) On the Origins of Land Use Regulations: Theory and Evidence from US Metro Areas. *Journal of Urban Economics* 75(1), 29-43. (<u>Latest DP version</u>)
- Hilber, C. and O. Schöni (2016) Housing Policies in the United Kingdom, Switzerland and the United States: Lessons Learned. <u>Asian Development Bank Institute Working Paper No. 569</u>, April.

References & Further Readings (cont.)

- Hilber, C. and O. Schöni (2016) The Housing Market Impacts of Banning Second Home Investments. Mimeo, London School of Economics, May. (Preliminary WP)
- Hilber, C. and T. Turner (2014) The Mortgage Interest Deduction and its Impact on Homeownership Decisions. *Review of Economics and Statistics*, Vol. 96, No. 4, 618-637 (<u>Latest DP version</u>)
- Hilber, C. and W. Vermeulen (2010) The Impacts of Restricting Housing Supply on House Prices and Affordability Final Report. London: Department for Communities and Local Government. (Link to report)
- Hilber, C. and W. Vermeulen (2016) The Impact of Supply Constraints on House Prices in England. *Economic Journal*, Vol. 126, No. 591, 358-405. (<u>Latest DP version</u>)
- KingSturge (2004) Global Industrial and Office Rents Survey, London: KingSturge.
- Mirrlees, J., S. Adam, T. Besley, R. Blundell, S. Bond, R. Chote, M. Gammie, P. Johnson, G. Myles and J. Poterba (2011) *Tax by Design: the Mirrlees Review.* Oxford University Press.
- Statistics Sweden (2005) <u>Housing Statistics in the European Union 2004</u>, Karlskrona: Boverket, Publikationsservice.