WEALTHSCAPES: The spatial polarization of housing markets and divided access to housing wealth

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- My research focus
- Wealthscapes project
- Research on Netherlands & Spain
- Conclusions



My research focus

Housing inequalities

- Housing as reflecting and amplifying other inequalities
 - Wealth inequalities
 - Inter and intra-generational inequalities
 - Labour market inequalities
 - Spatial inequalities
- Drivers of growing housing inequalities
 - Financialization / commodification
 - Welfare regimes and welfare restructuring



My research foci

Article

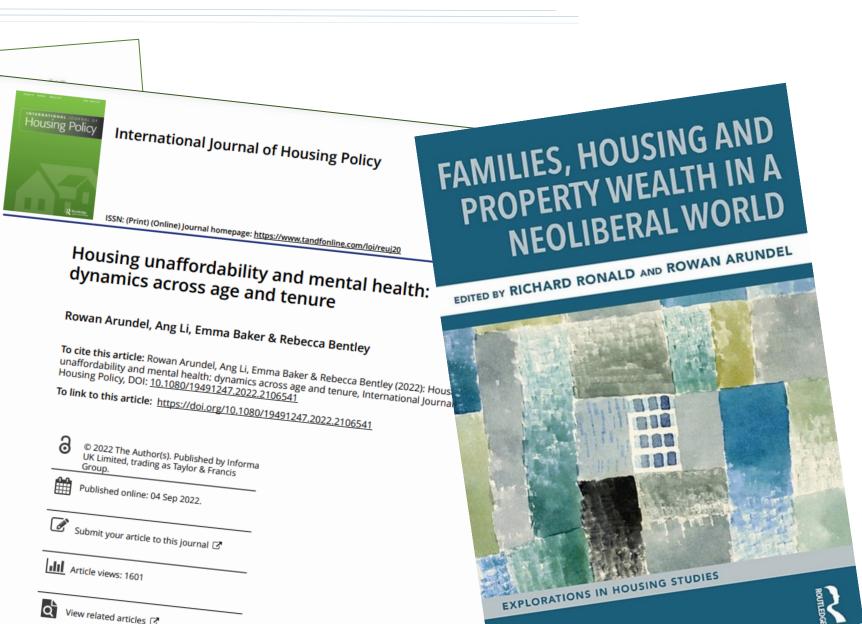
The false promise of homeownership: Homeowner societies in an era of declining access and rising inequality

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Abstract In the late 20th century, homeownership became entrench sought to transform the economy and increase social inclu gaged owner-occupation as a means not only to acquire a st economic security via asset accumulation. The underlying that homeownership would be widespread, equalising and s ket conditions, such narratives have continued to undersce ketisation. This article directly confronts this promise. investigating their currency across three classic 'home Australia. Our empirical findings reveal declining access to in concentrations of housing wealth and intensifying hou rity. The article contends that the imperative of homeov since the 1970s may be increasingly considered a 'false rary housing market dynamics that instead appear to e

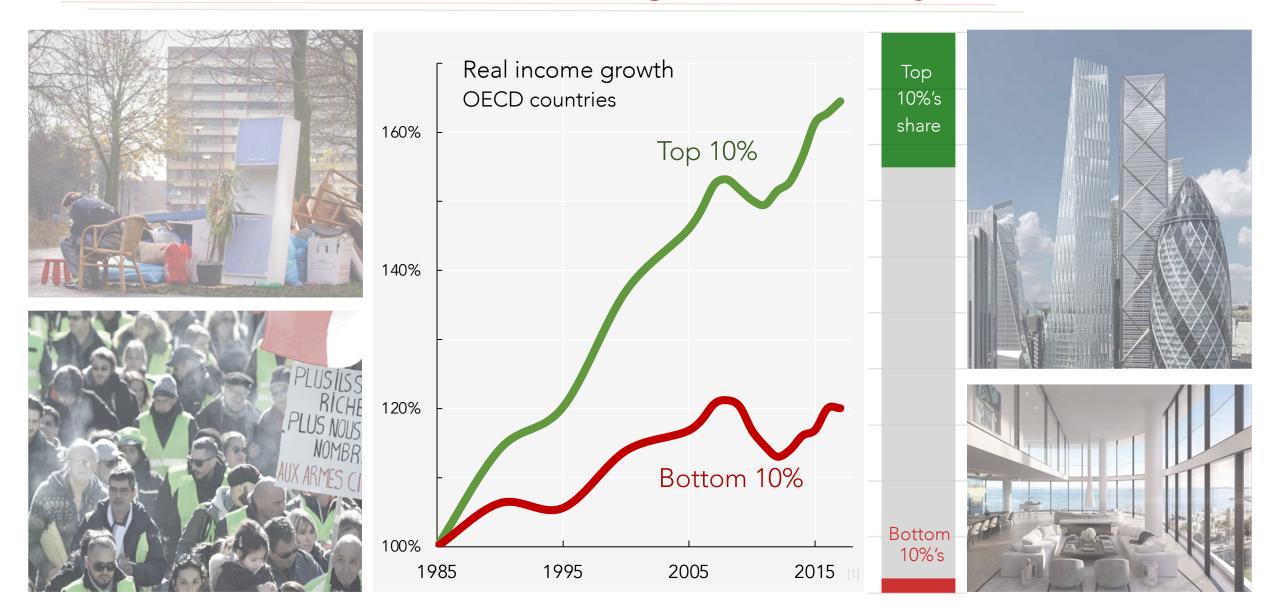
Keywords homeowner societies, homeownership, housing mar



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Context: a crisis of rising inequality

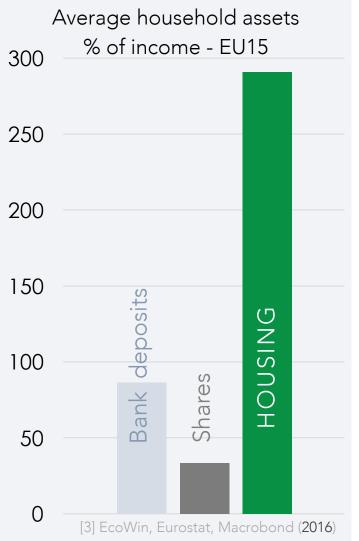


From income to wealth divides



Premise 1: Housing central to wealth & inequality

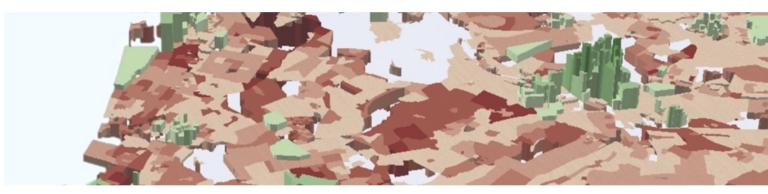




Premise 2: Housing markets inherently spatial

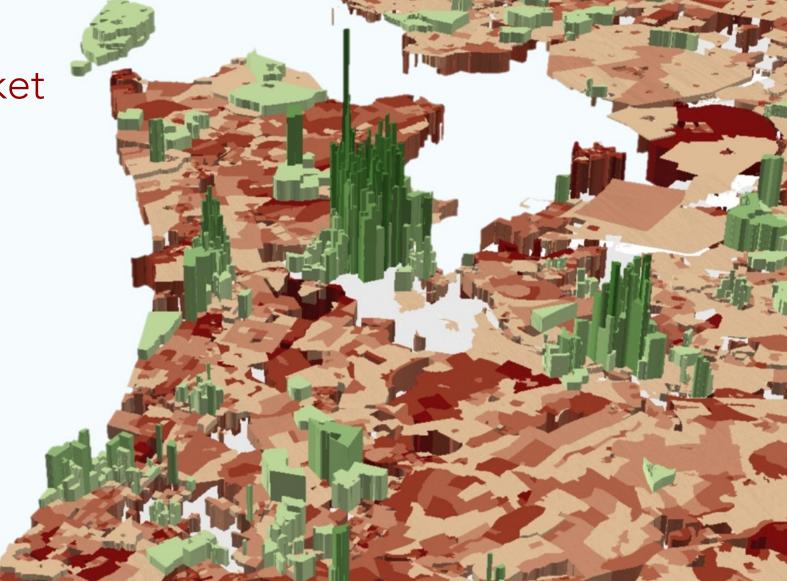
Space Matters

- Not singular market but multitude of *spatially*-distinct submarkets
- Where one enters housing market key for wealth accumulation



Premise 2: Housing markets inherently spatial

Growing housing market spatial polarization?



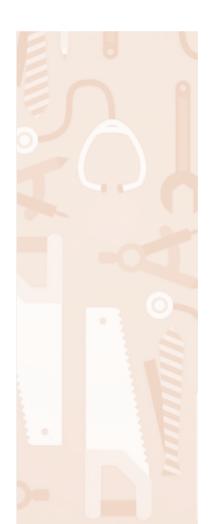
Premise 2: Housing markets inherently spatial

Growing housing market spatial polarization?

- Financialization/commodification
 - Increased flows of capital into housing
 - But, also increasingly uneven
- Uneven development
 - Prioritizing booming centres
- Segregation/gentrification (in cities)

Premise 3: Divided access to housing markets

- Rising labour market inequality
- Rising Inter & Intra-generational inequalities
 - Labour market position & parental wealth increasingly central to structuring access to housing market

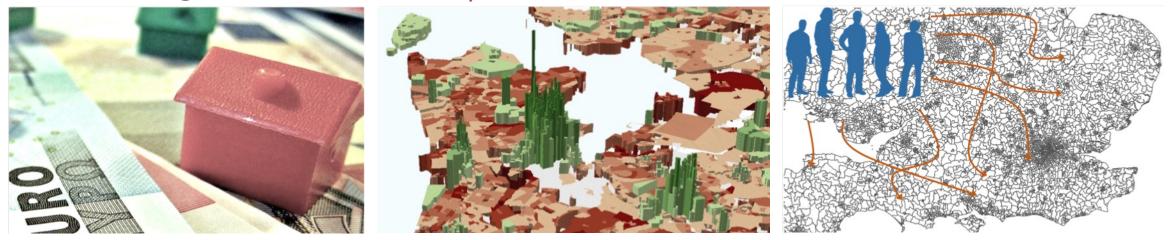


WEALTHSCAPES PROJECT

Housing wealth

Spatial Polarization

Divided Access



How does the spatial polarization of housing markets interact with divided housing access in driving growing wealth inequalities?

WEALTHSCAPES PROJECT

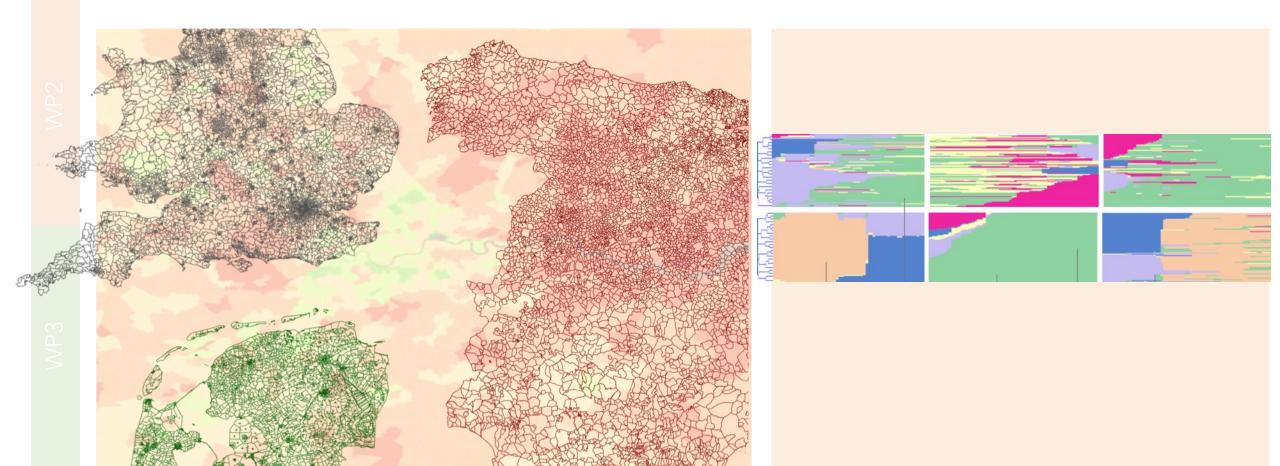
Cross-country comparative research



Measuring spatial polarization

WP1

What are the contemporary dynamics of housing market spatial polarization?



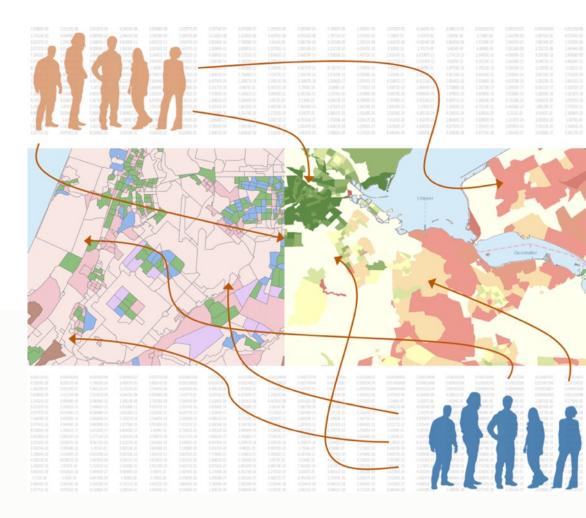
2) Explaining spatial inequality

How is housing market spatial polarization explained by macroand micro-level explanatory factors?

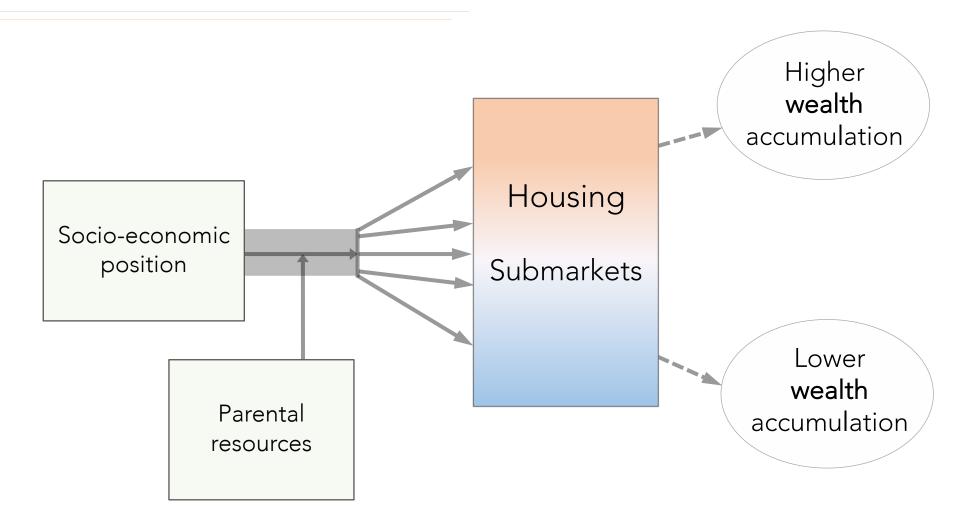


3) Modelling divided access

How is access to spatiallydifferentiated housing submarkets structured by household and parental socioeconomic position?







First study for the Netherlands

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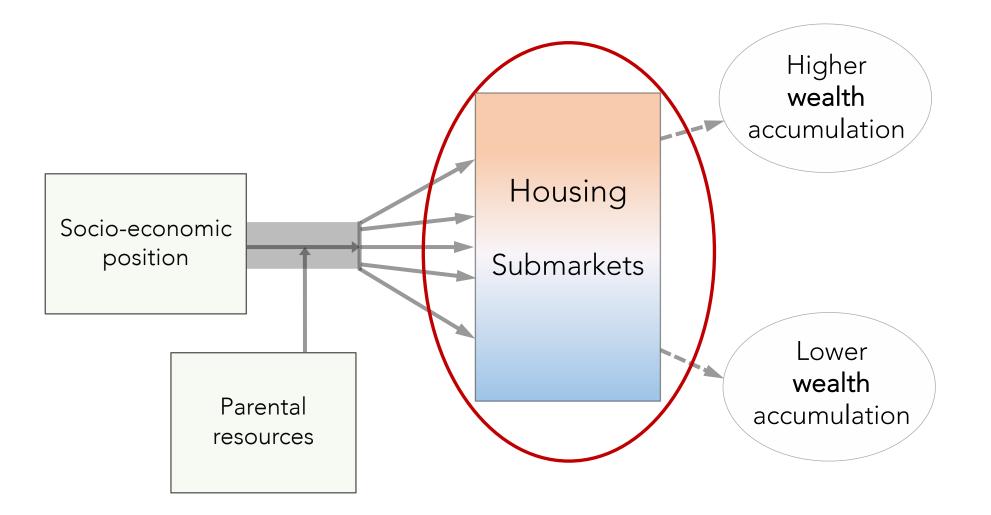
Arundel & Hochstenbach (2020) Hochstenbach & Arundel (2020)

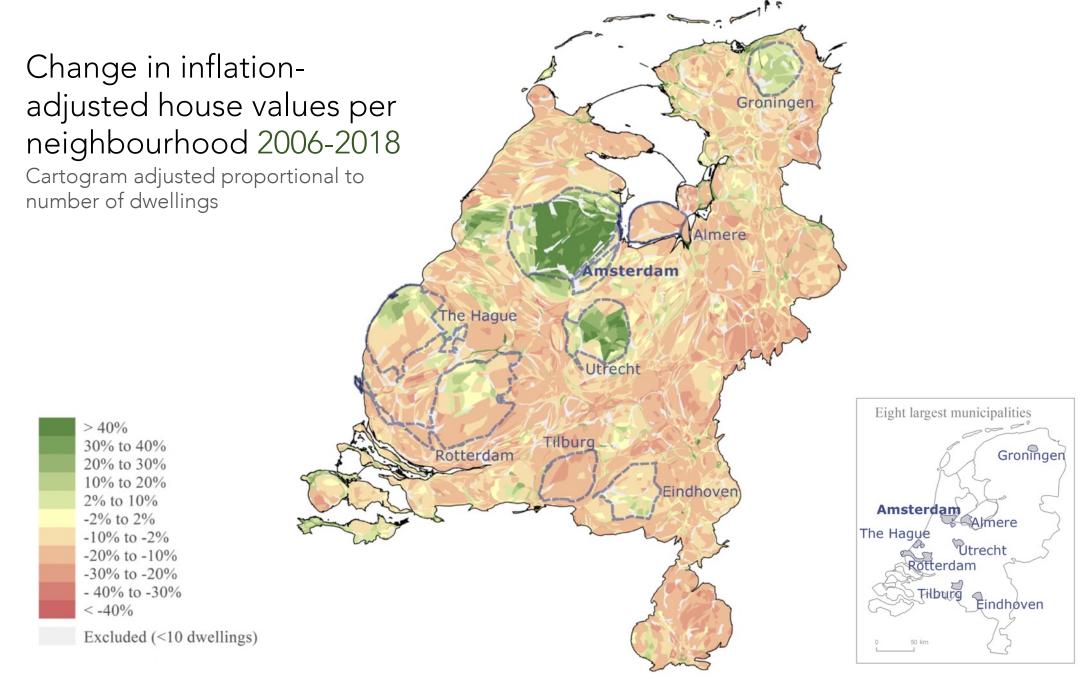
The Netherlands case

- Rising homeownership rate over recent decades
 - 1994: 47% \rightarrow 2016: 58% \rightarrow \rightarrow : +/- 60%
- Rapid growth in house prices over longer-term (excl. GFC dip)
- Highly financialized housing market
- Policies that privilege private property
- Gradual decline of social housing / alternatives to homeownership
- & providing detailed register data on housing and households

Data:

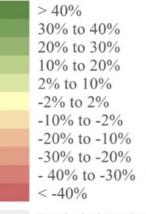
- Full-population Register data (SSD)
 - All individuals and all dwellings
 - Longitudinal
 - Geo-located at fine scale
- Inflation-adjusted rates of housing wealth accumulation per neighbourhood 2006-2018
 - Using values of <u>all stable</u> housing stock
 - N: 11,145 neighbourhoods holding 5.9 million dwellings





Source: Arundel & Hochstenbach (2020)

Change in inflationadjusted house values per neighbourhood 2015-2018 Cartogram adjusted proportional to number of dwellings



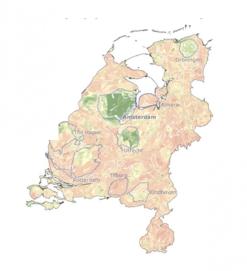
Excluded (<10 dwellings)

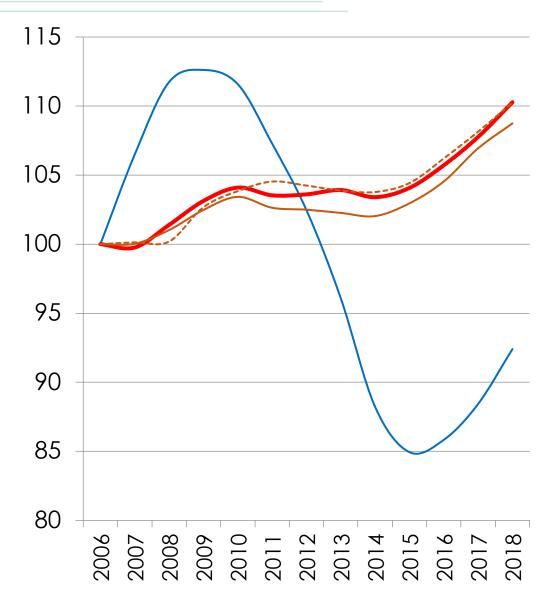


Source: Arundel & Hochstenbach (2020)

Neighbourhood-level Housing market inequality NL (2006=100)

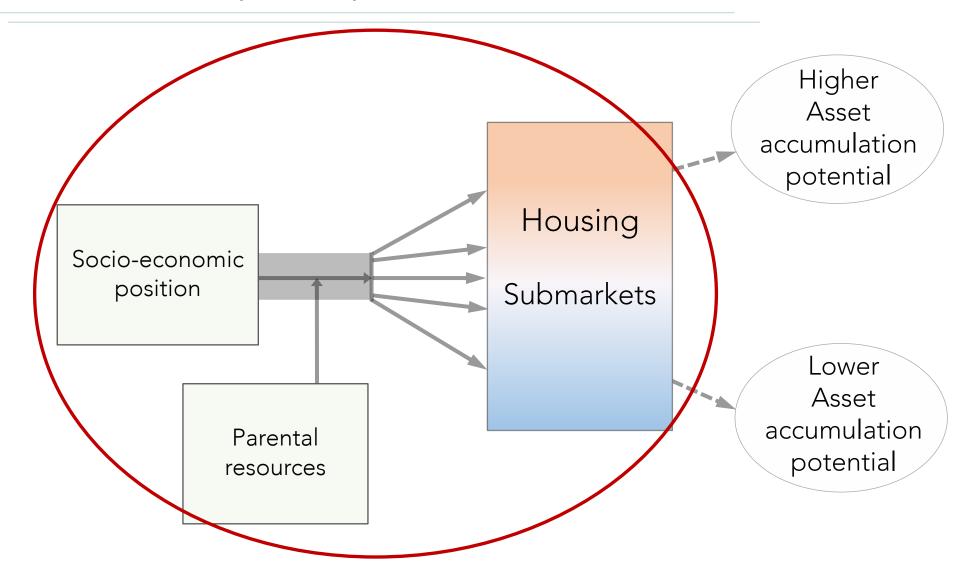
- House values
- -Gini of housing values
- 90:10 ratio
- -----95:5 ratio





Source: Arundel & Hochstenbach, 2020; Hochstenbach & Arundel (2020)

Divided access to different housing submarkets



ML regression of where young starters' enter housing market

 \rightarrow Outcome: subsequent local rate of house value change

- Household economic resources
 - income, employment contract type (temporary/fulltime)
- Parental wealth
 - housing, non-housing
- Controls
 - education, ethnicity, marital status, children, number of siblings, etc...



Dependent variable: percentage change in house values 2014-

2018 of the destination neighbourhood.

	Model 1		Model 2		Model 3	
	Coef.	р	Coef.	р	Coef.	р
Gross household income (1000's euros)	0.015 ***	0.000	0.014 ***	0.000	0.014 ***	0.000
Source of income (main earner)						
Employment - permanent contract	(ref)		(ref)		(ref)	
Employment - temporary contract	0.875 ***	0.000	0.831 ***	0.000	0.708 ***	0.000
Employment - unknown/not applicable contract	1.650 ***	0.000	1.381 ***	0.000	2.060 ***	0.000
Self employment Benefits	0.814 *** 0.430	0.000 0.142	0.728 *** 0.346	0.000 0.237	0.642 *** 0.296	0.001 0.335
Student bursary	3.681 ***	0.000	3.469 ***	0.237	2.966 ***	0.000
Age (oldest member)	0.118 ***	0.000	0.105 ***	0.000	0.103 ***	0.000
Iousehold type						
Single person	(ref)		(ref)		(ref)	
Couple without children	-1.887 ***	0.000	-1.827 ***	0.000	-1.826 ***	0.000
Couple with children	-2.696 ***	0.000	-2.595 ***	0.000	-2.590 ***	0.000
Single parent	-2.024 ***	0.000	-1.945 ***	0.000	-1.950 ***	0.000
Other	1.926 ***	0.000	2.150 ***	0.000	2.061 ***	0.000
Ethnicity (main earner)						
Native Dutch	(ref)		(ref)		(ref)	
Non-western non-native	1.675 ***	0.000	1.933 ***	0.000	1.975 ***	0.000
Western non-native	2.196 ***	0.000	2.112 ***	0.000	2.121 ***	0.000
Gender (main earner)						
Female	(ref)		(ref)		(ref)	
Male	-1.048 ***	0.000	-1.012 ***	0.000	-1.009 ***	0.000
lighest followed education level (main earner)						
Unknown	-0.417 *	0.011	-0.408 *	0.012	-0.420 *	0.026
Low	0.007	0.978	0.013	0.960	0.000	1.000
Mid	(ref)	0.000	(ref)	0.000	(ref)	0.000
High	3.444 ***	0.000	3.337 ***	0.000	3.322 ***	0.000
Parental housing wealth (10000's euros)			0.015 ***	0.000	0.015 ***	0.000
Parental other wealth (10000's euros)			0.007 ***	0.000	0.004 ***	0.000
Number of siblings			-0.176 ***	0.000	-0.174 ***	0.000
arents together			-0.704 ***	0.000	-0.707 ***	0.000
verage neighborhood house value in 2014 (10000's euros)	-0.023 ***	0.000	-0.032 ***	0.000	-0.030 ***	0.000
Source of income (main earner) * Parental non-housing wealth						
Employment-permanent contract * Parental non-housing wealth					(ref)	0.001
Employment-temporary contract * Parental non-housing wealth					0.006 ***	0.001
Employment-unknown/na contract * Parental non-housing wealth Self employment * Parental non-housing wealth					0.003	0.006
Benefits * Parental non-housing wealth					0.003	0.158
Student bursary * Parental non-housing wealth					0.022 ***	0.000
Constant	-0.935	0.513	0.185	0.896	0.242	0.865
		0.515		0.090		0.005
Jumber of cases - Level 1 (individual) Jumber of groups - Level 2 (province)	53,633 12		53,633 12		53,633 12	
- · · ·						
.og likelihood	-194935		-194790		-194748	
Vald chi ²	4034.9		4347.2		4437.9	
Snijders/Bosker R ² - Level 1 (individual)	0.081		0.088		0.0895	
Snijders/Bosker R ² - Level 2 (province)	0.119		0.133		0.1341	

*p<0.05 **p<0.01 ***p<0.001

Source: SSD, Statistics Netherlands, own calculations

Link to related article (Arundel & Hochstenbach, 2020): https://www.tandfonline.com/doi/full/10.1080/02723638.2019.1681722



Significant correlation between

- Higher income
- Higher education level

and buying into

higher-gain neighbourhoods



Significant correlation between

- Higher income
- Higher education level
- greater parental wealth

and buying into

higher-gain neighbourhoods



Housing Market Polarization in Spain

2.



Spain: housing market spatial polarization

Spanish context

- Very high homeownership rates, slight recent decline
 - many decades +/- $80\% \rightarrow 2020$: 76%
- Family supported housing, higher down-payment
- But rapid financialization processes 1990s \rightarrow
- High housing price volatility (GFC crash, recovery, covid)
- Relatively higher income inequality (within EU)
- & access to detailed housing price dataset



Spain: housing market spatial polarization

Data:

- Idealista dataset across Spain: 2012 to 2022
 - Average value/m2 based on listing prices
- Census Tract level (secciones censales)
 - N: approx. 36,000 CTs
 - 93-97% territorial coverage
- Inflation-adjusted rates of housing wealth accumulation per CT



Spain: housing market spatial polarization

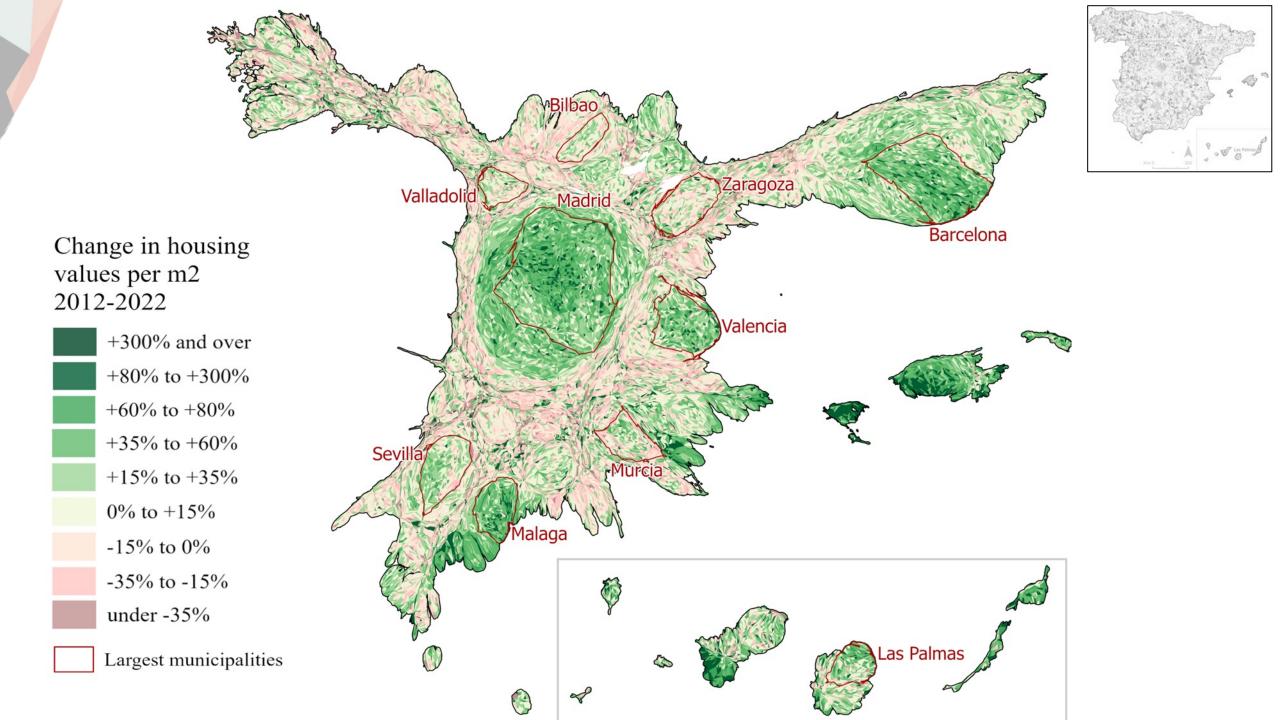
Approach:

- Measures of spatial inequality:
 - (population-weighted) GINI
 - Percentile ratios 90:10, 95:5
- Multi-scalar:

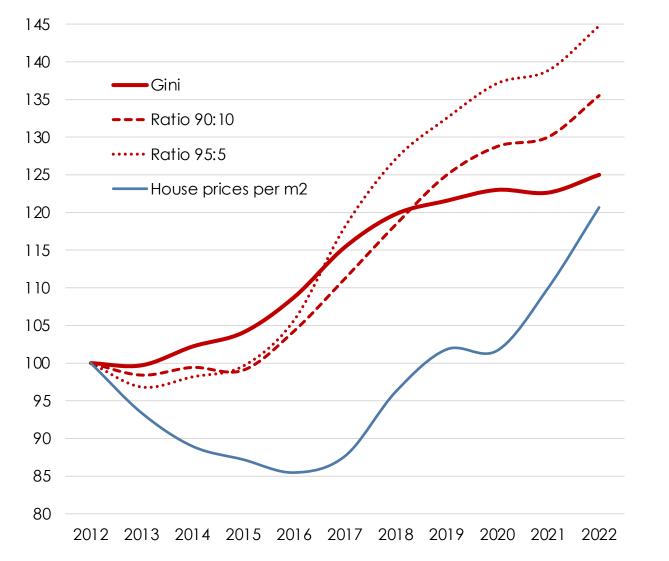
census tract + municipal level + within 'core' municipalities





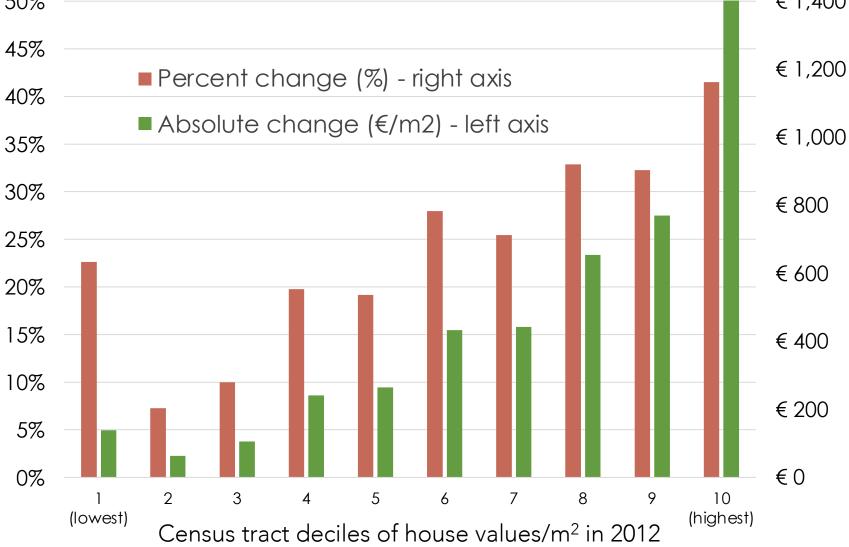


Spain: housing market spatial polarization



Data source: Idealista dataset (2012-2022). Housing values inflation-adjusted, in 2021 euro values.

Change in inflation-adjusted house values 2012-2022, by decile of house values in 2012



Data source: Idealista dataset (2012-2022). Housing values inflation-adjusted, in 2021 euro values.



Conclusions

- Housing wealth accumulation becoming *more spatially uneven*
 - Concentrating in specific areas of prime accumulation, versus stagnation
 - Trends are structural and 'crisis' resistant, robust across scales

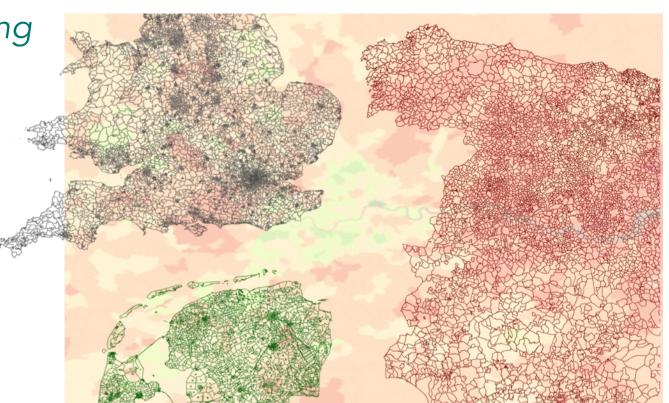
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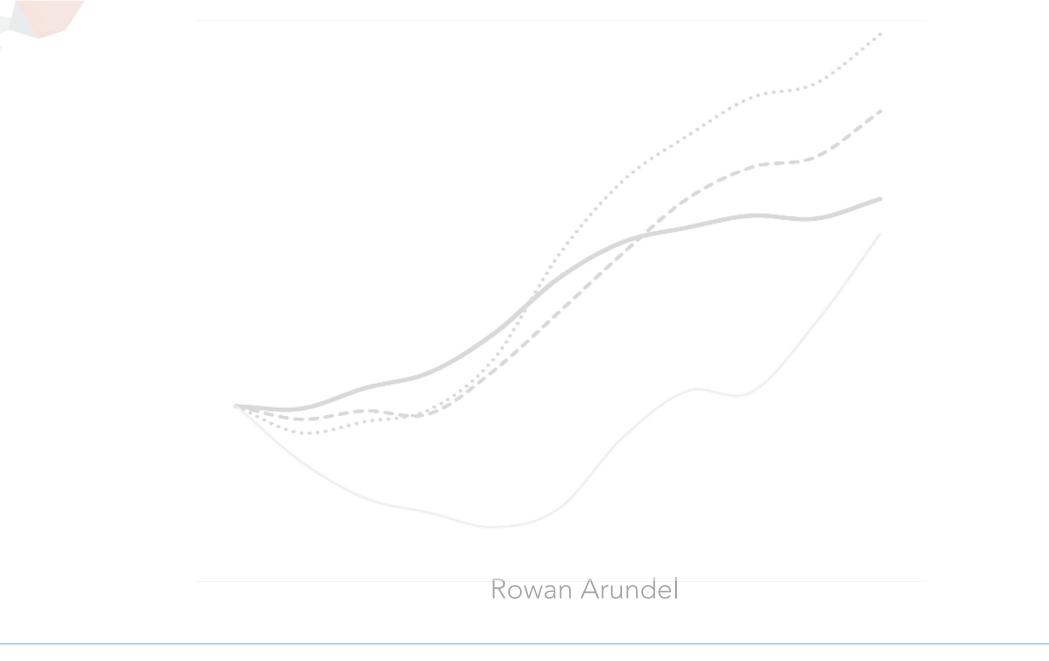
- Housing wealth accumulation becoming *more spatially uneven*
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- Space matters as an active driver of housing wealth inequality
 - Housing special asset given its *spatial fixity* and *barriers to access*
 - Spatial inequality in accumulation combine with unequal access
 - NL: clearly structured by household and parental SES
 - ES: accumulation rates higher in higher value submarkets

Conclusions

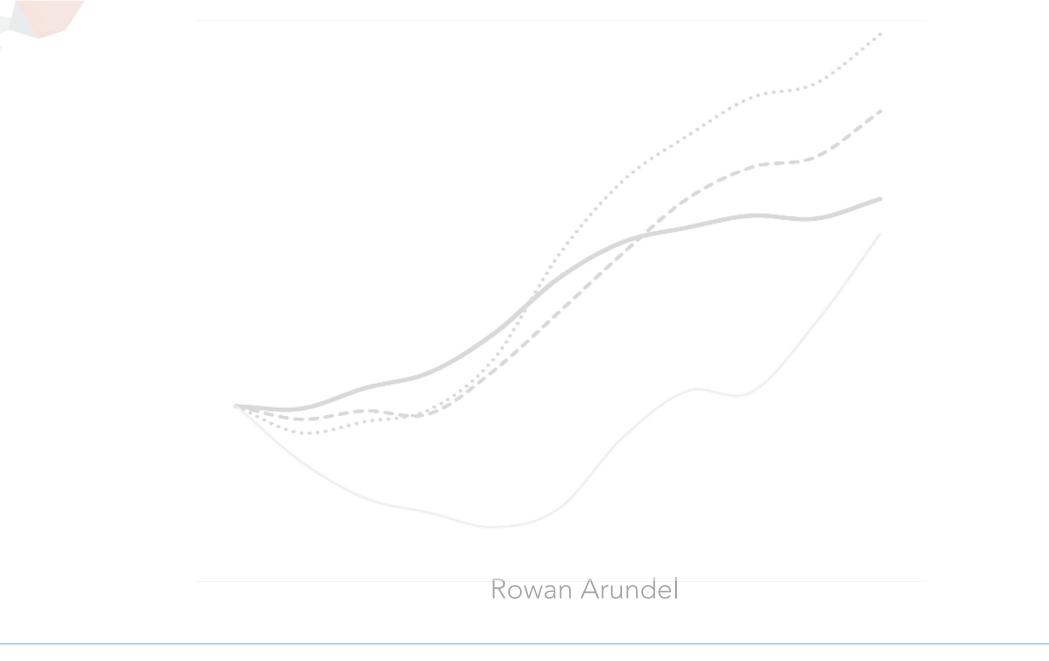
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 - Spatial inequality in accumulation combine with unequal access
 - NL: clearly structured by household and parental SES
 - ES: accumulation rates higher in higher value submarkets
- Beyond dichotomy of homeowners versus non-owners, divides among homeowners crucial to wealth inequality

Wealth inequalities are not only mapped onto space, but space itself figures prominently in reproducing and **amplifying** such inequalities.





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Ongoing Wealthscapes research



Current Veni project

- Modeling population sorting across housing market in Spain
- Explaining drivers of spatial polarization (WP2)
- Spatial polarization and divided access in UK
- Examining NL data for recent (covid) years
- Australian study for South Australia (with Emma Baker, Kira Page)

Other interests

- Larger sample of countries (data challenge)
- Longer time scale (data challenge)
- Better integrating non-homeowners into combined model