



## London Housing - Beyond the Price Tag

### Affordable Housing and Social Inequality in London



## Problem

What are the **economic and social issues** that have shaped the **London housing market** over the past three decades, from the Tony Blair era to the Ukraine war?

As a think tank, our aim is to:

- **uncover** the **real stories** behind the Real Estate Price tag &
- help **policy makers prioritize** their efforts?







Target audience:

Policy makers  
such as Local councils



Metric:

Housing Average Price



Features:

Earnings  
Demographics  
Interest rate  
Inflation  
Employment rate  
etc.

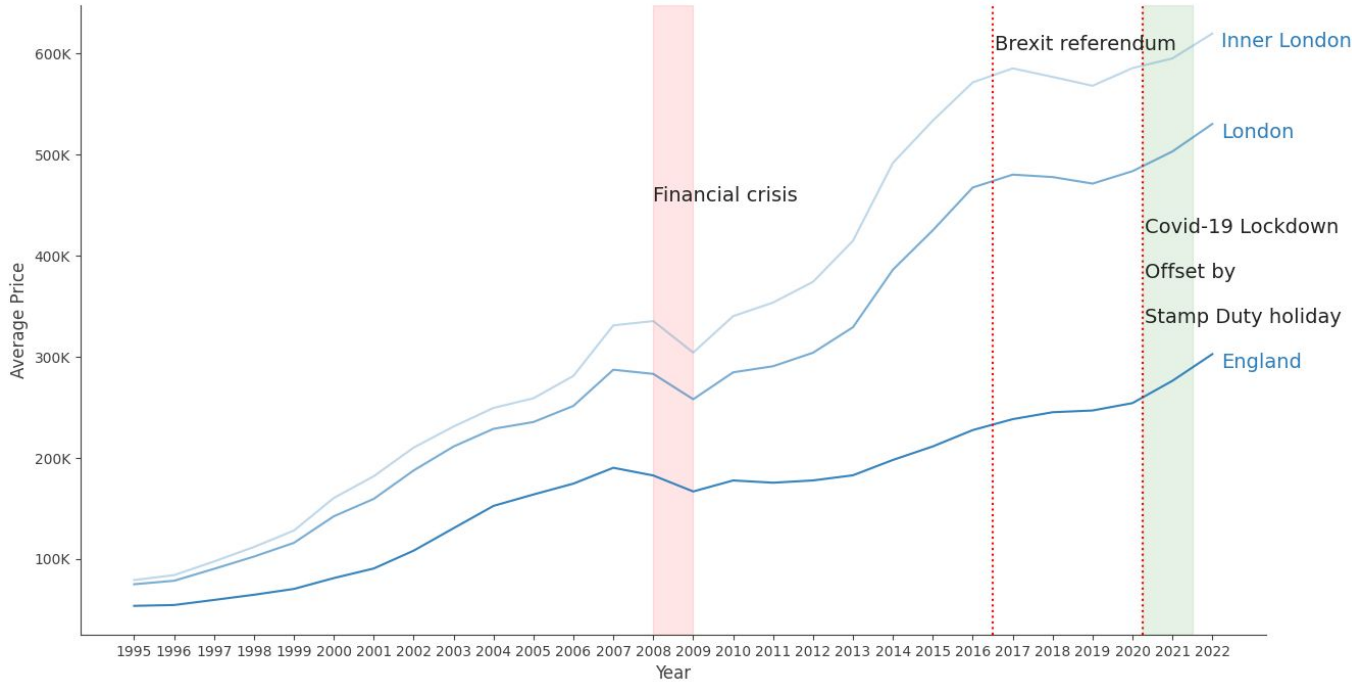


## Overview

- Housing Price over time
- Macroeconomic indicators



## Average house price over time



1995-2005 : steady increase

2005-2008 : greater increase

2008-2009 : downturn due to the financial crisis

2009-2016 : substantial recovery

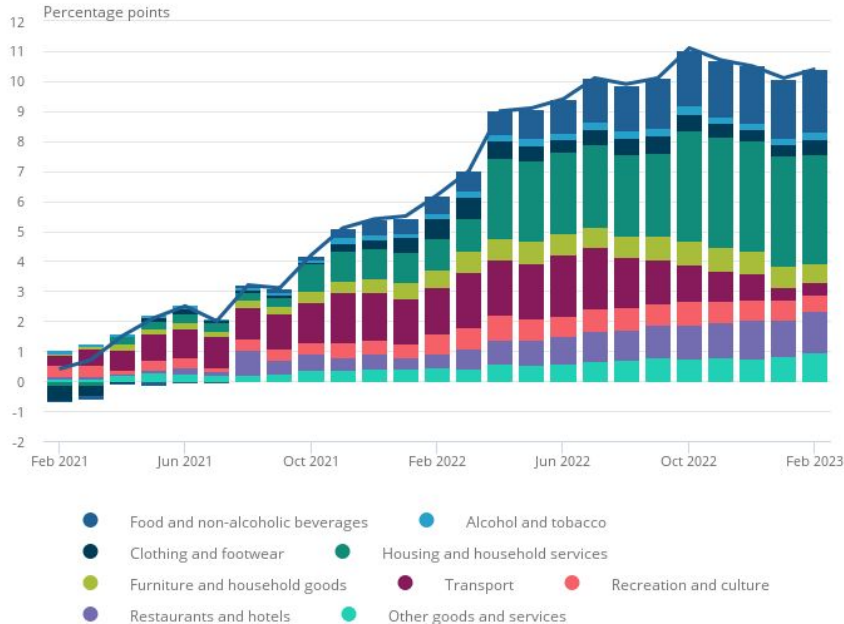
2016-2019 : slight dip following Brexit referendum result

2019-2022 : upward trend in spite of Covid-19 pandemic

## Interest rate vs Inflation

Figure 12: Largest contributions to CPI inflation rate from housing and household services, and food and non-alcoholic beverages

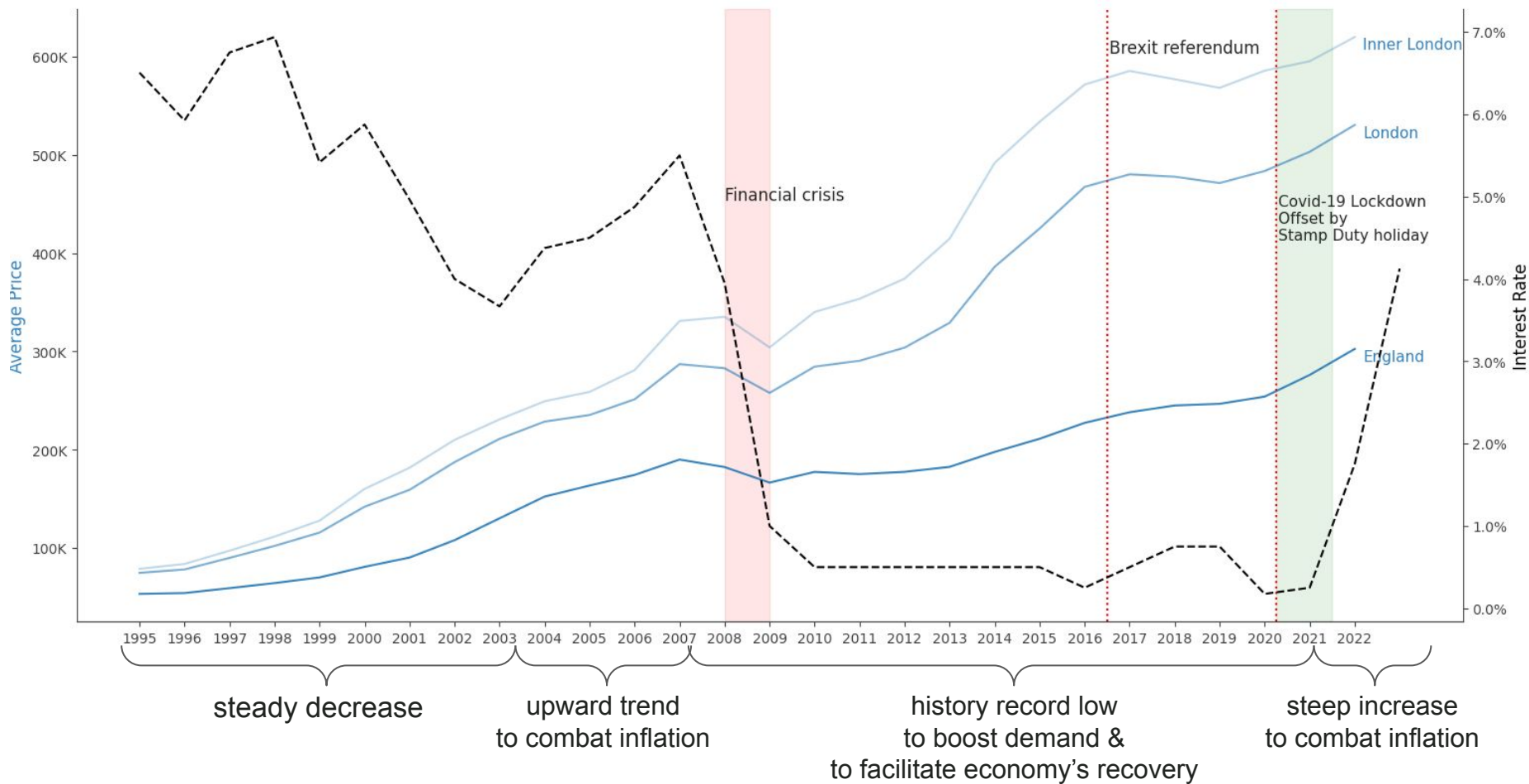
Contributions to the annual CPI inflation rate, UK, February 2021 to February 2023



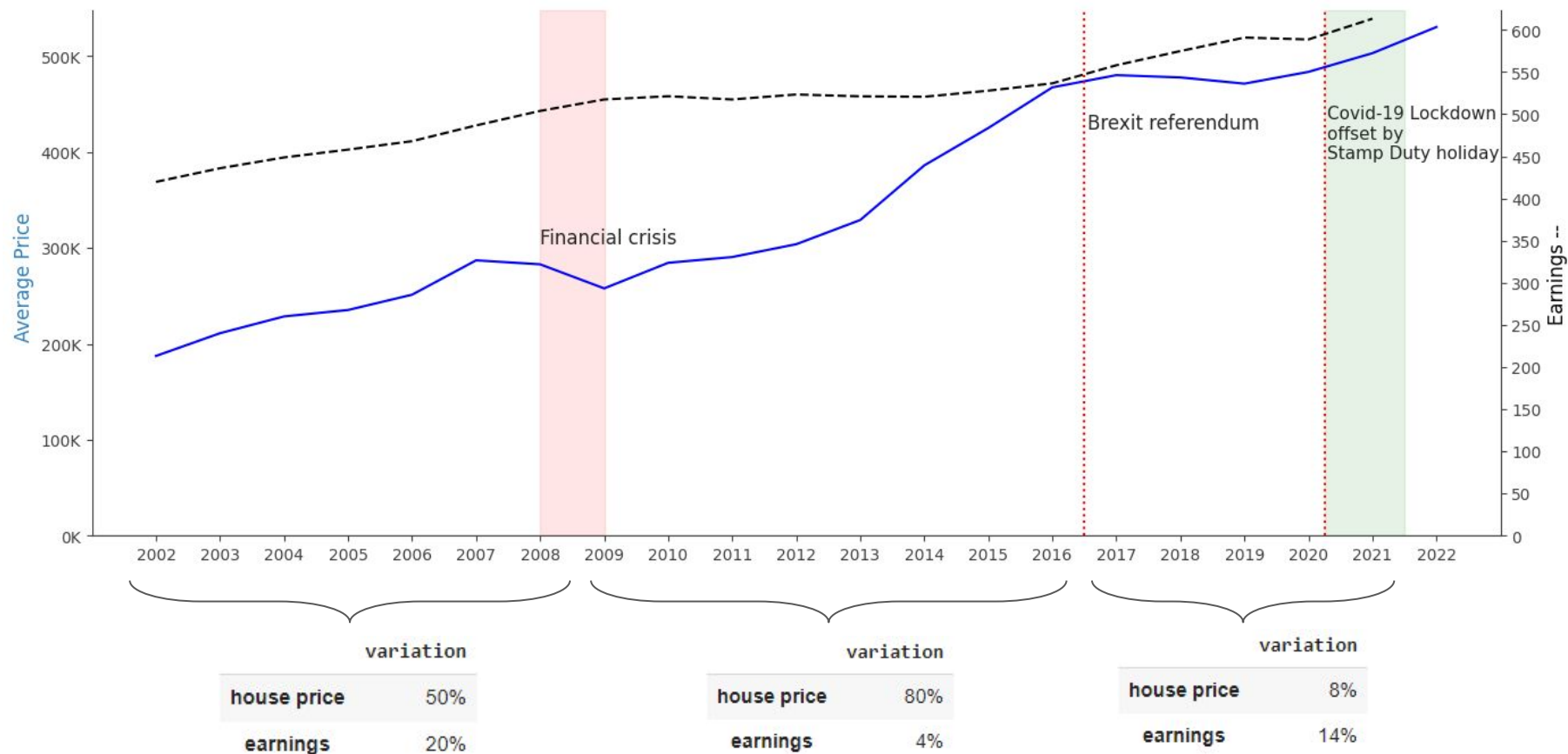
Source: Consumer price inflation from the Office for National Statistics



# Average house price vs Interest Rate



## Average house price vs Earnings - London







## Social Disparity behind the Price tag

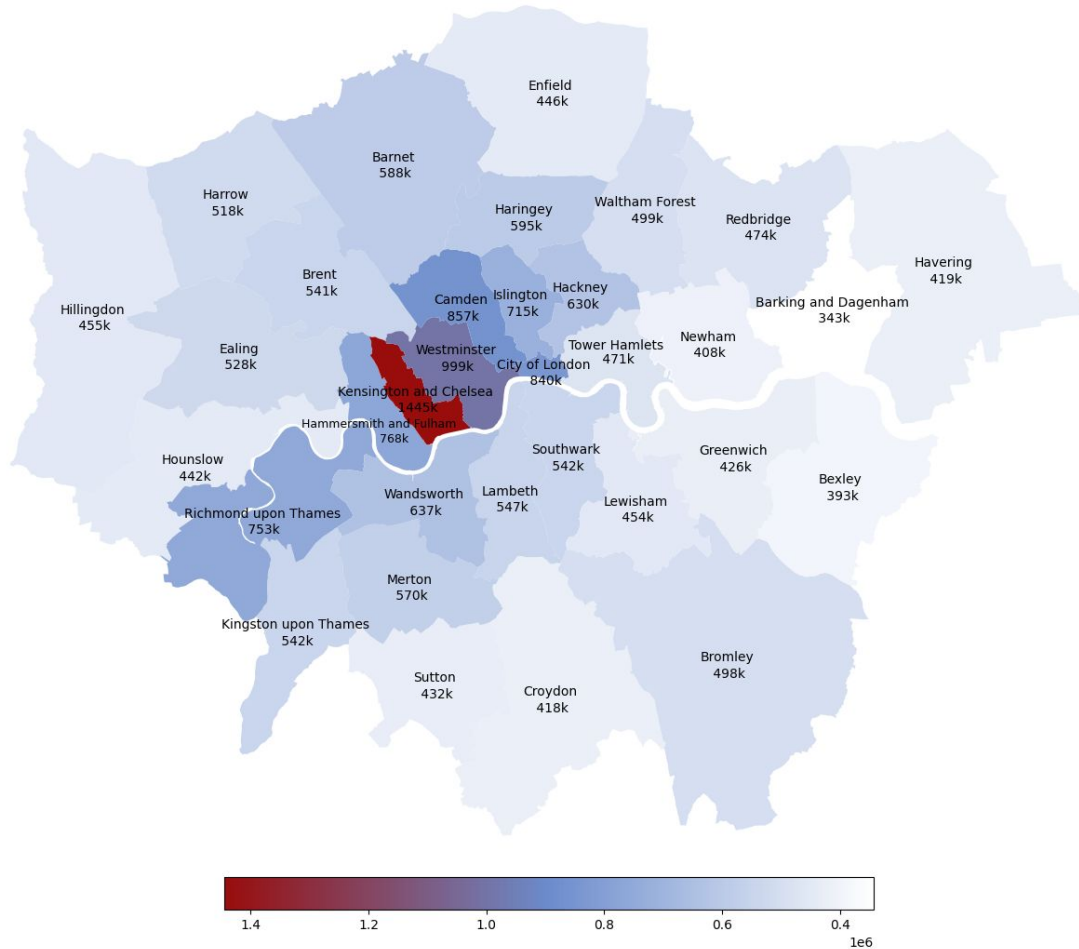
What are the social inequalities **across various London boroughs**? Who is **thriving** and who is **facing challenges**?

Let's examine:

- Top 3 **most and least expensive** boroughs
- Housing **Supply** vs **Need**

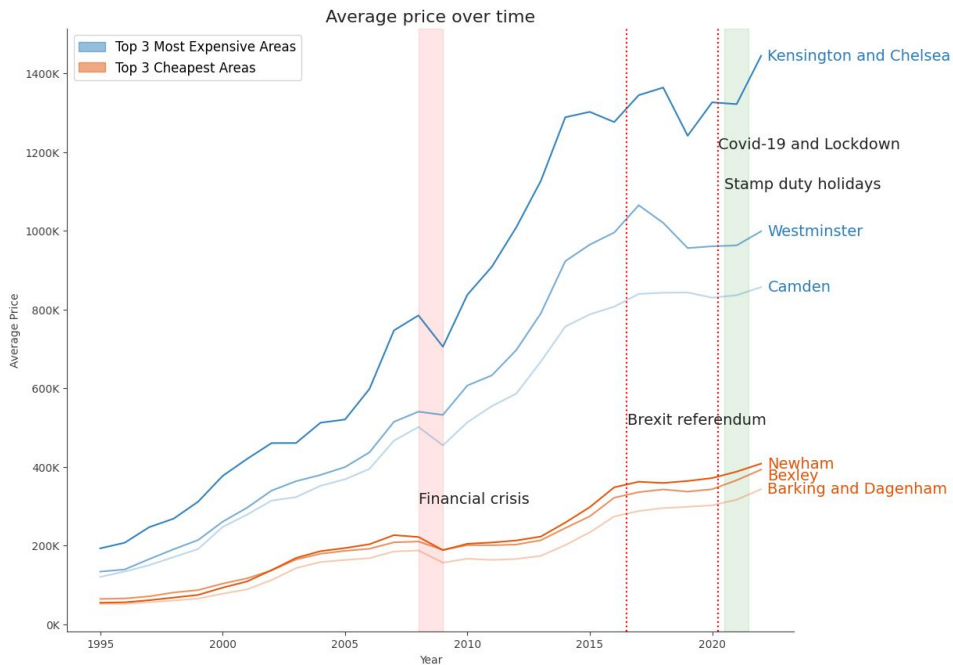


# Average house price by London Boroughs

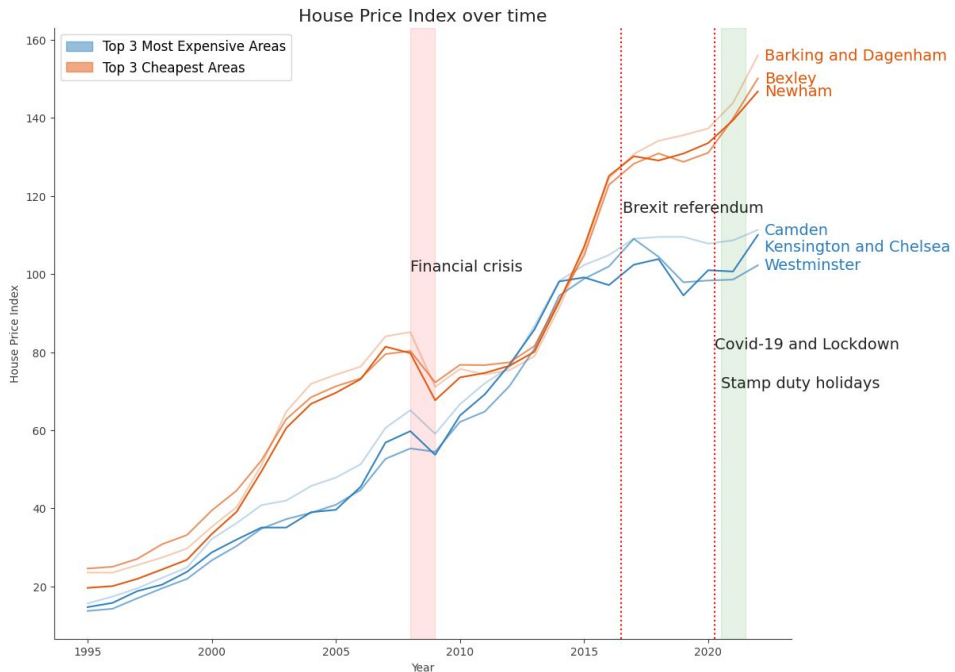


- Kensington and Chelsea's most expensive borough is **4.2x pricier** than Barking and Dagenham's cheapest neighborhood
- **West London** along the Thames, from Richmond to Camden, hosts the **priciest areas**, while Inner London isn't always more expensive than Outer London
- Attempting to **level up London** has been an ambitious and challenging priority since the era of Margaret Thatcher until today

# Top 3 most vs least expensive boroughs



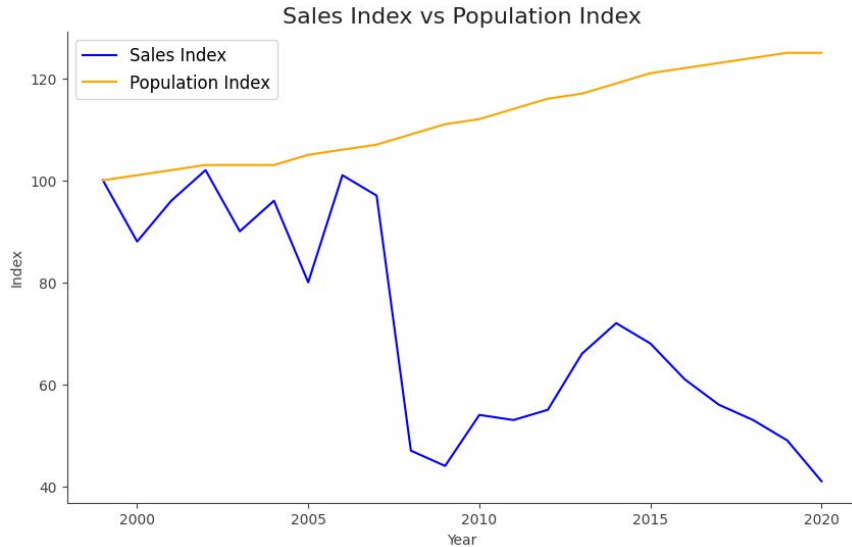
- Clear distinction between 2 groups
- Most vs least expensive : from 3.7 to 4.2 times
- Significant increase in disparity over the past 3 decades



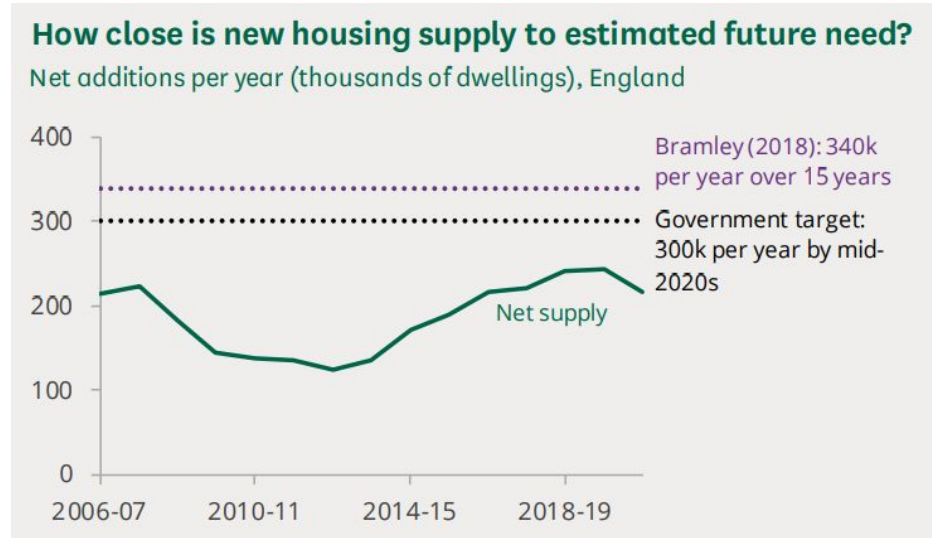
The top 3 least expensive outperforms over top 3 most expensive in terms of House Index , this is due to:

- Brexit uncertainties dissuading foreign investment
- Tax changes hindering additional properties and facilitating first time purchase

# Sales volume vs Population over time



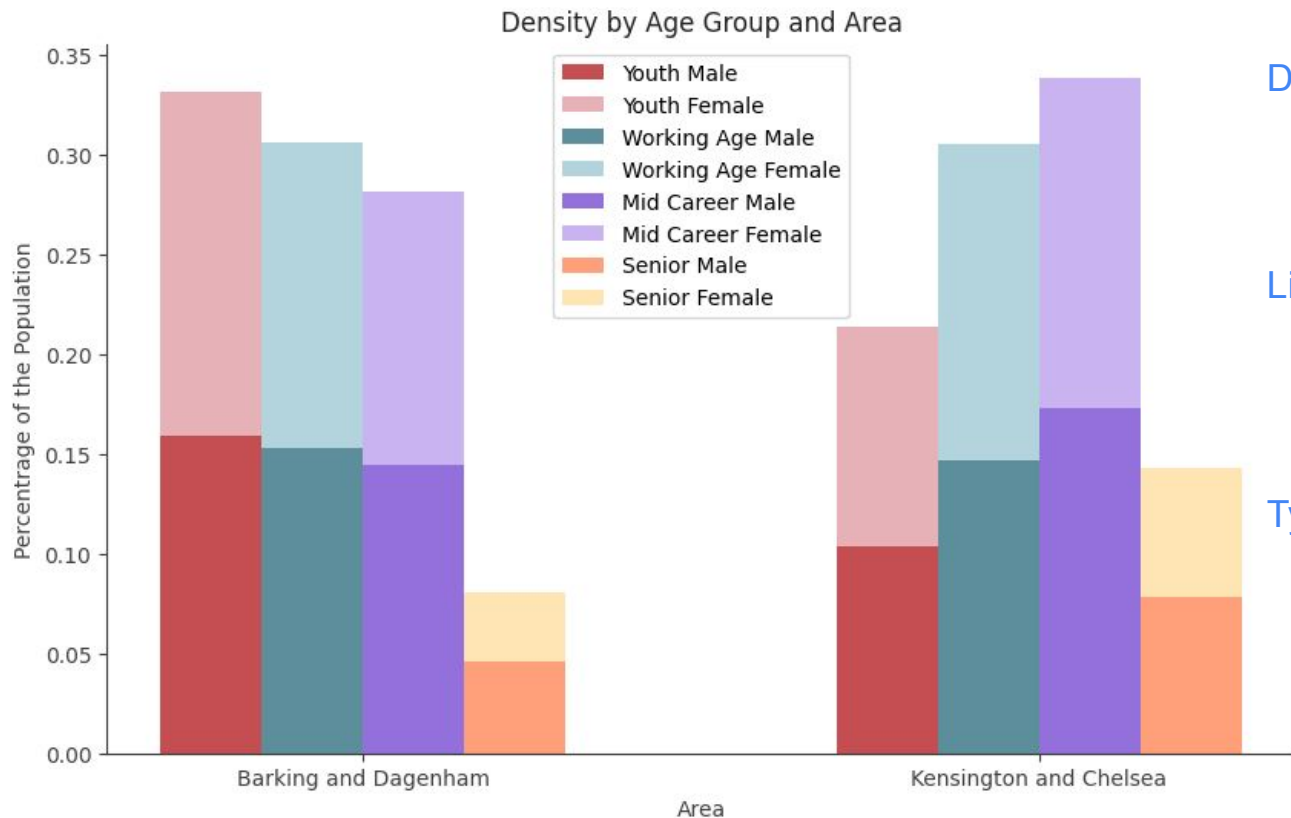
- Steady increase of the population
- Sharp decrease of sales volume
- Need to **rebalance the housing market towards more home ownership**



- Housing need <> Housing demand
- Social and Economic impact of lack of housing supply



## Demographics of the most vs least expensive borough



### Dominant age group:

- Youth for Barking
- Mid Career for Kensington

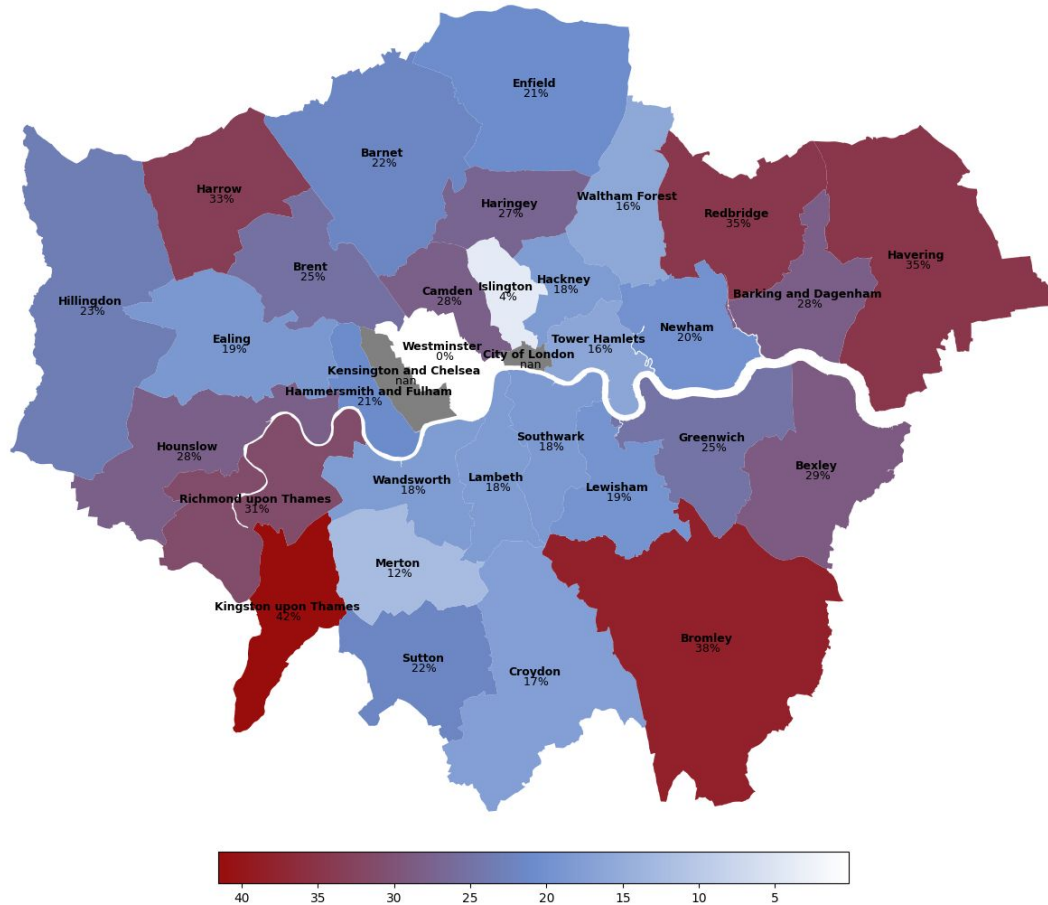
### Life expectancy:

- Higher in Kensington
- Senior age group twice as big

### Typical household:

- Young family with more children in Barking
- More couple at working and mid career age groups

## Pay Gap across London boroughs



As discussed in the [Average price per borough map](#):

- Most expensive price in West London borough surrounding the Thames river
- Price decreasing in proportion to the distance to that area

[Pay gap](#) per borough map:

- Unrelated to wealth gap
- Omnipresent issue
- Need further research to find appropriate solutions



## Drivers of Property Prices

What factors contribute to housing prices? And how significant is the impact of each factor?

Let's examine:

- Earnings
- Population
- Jobs density
- Dwelling density
- etc.



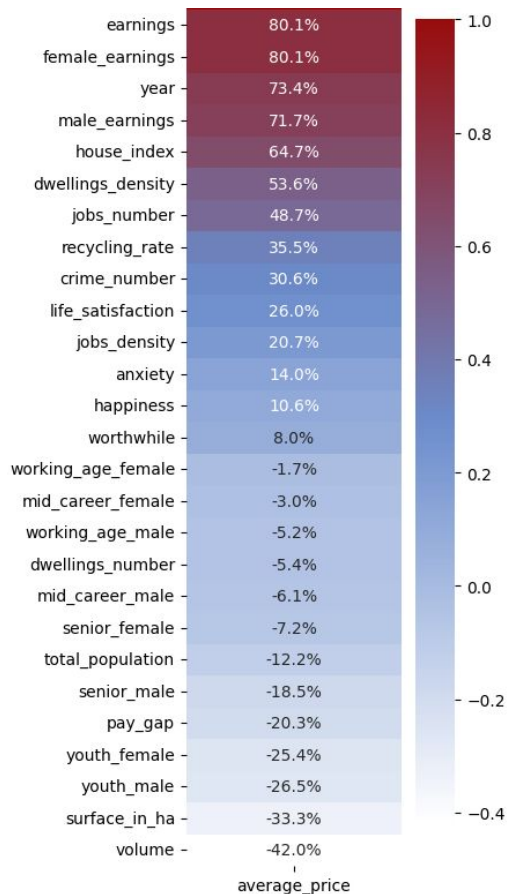
# Correlation between Average price and different Features

## Positive correlation to:

- Earnings, especially Female earnings
- Dwelling density
- Job number and density
- Recycling rate
- Crime number
- Well being

## Negative correlation to:

- Volume
- Youth population



## Aligned with results from Linear Regression and Stats model

	coef	std err	t	P> t	[0.025 0.975]
const	-0.2036	0.020	-9.959	0.000	-0.244 -0.163
volume	0.0580	0.023	2.470	0.014	0.012 0.104
earnings	0.3076	0.117	2.632	0.009	0.078 0.537
male_earnings	0.0543	0.067	0.808	0.420	-0.078 0.187
female_earnings	0.1556	0.071	2.193	0.029	0.016 0.295
recycling_rate	-0.0106	0.032	-0.335	0.738	-0.073 0.052
jobs_number	-0.7584	0.299	-2.533	0.012	-1.347 -0.170
jobs_density	0.8713	0.290	3.009	0.003	0.302 1.441
dwelling_number	-0.3011	0.109	-2.773	0.006	-0.515 -0.088
surface_in_ha	-0.0115	0.043	-0.270	0.788	-0.096 0.073
dwelling_density	0.2556	0.050	5.152	0.000	0.158 0.353
youth_male	-0.4587	0.229	-2.003	0.046	-0.909 -0.008
youth_female	0.4898	0.236	2.074	0.039	0.025 0.954
working_age_male	-0.2272	0.119	-1.903	0.058	-0.462 0.008
working_age_female	0.3074	0.106	2.899	0.004	0.099 0.516
mid_career_male	0.9942	0.223	4.448	0.000	0.555 1.434
mid_career_female	-0.6429	0.238	-2.697	0.007	-1.112 -0.174
senior_male	-0.2408	0.188	-1.278	0.202	-0.611 0.130
senior_female	0.2440	0.205	1.193	0.234	-0.158 0.646
total_population	0.0950	0.024	3.926	0.000	0.047 0.143





## Conclusion

The cost of housing is significantly influenced by social, political, and economic developments and regulations

➡ It is crucial for policy makers to strike a balance between economic advancement and social equity

Foreign investment has been favored over young people's ability to buy property, this is a high cost of the post-financial crisis recovery

➡ Making more affordable housing available is a crucial objective

Each borough has its own demographics specificities

➡ Local councils needs to address their specific challenges, not only in terms of economic development but also in terms of the well-being of their residents.

