Projecting the Population During the Pandemic

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Contents

- Context: population projections at the GLA
- Challenges:
 - Does the standard way of doing things still hold up?
 - The timeliness of data & the need for supporting evidence
 - What assumptions should we make about the future?

Context: What we do

- Annually we produce 2 sets of projections:
 - Trend projection (cohort component model)
 - Housing-led projections (reconcile forecast housing delivery with trends)
- Our focus is London and the London boroughs but our trend model does produce outputs for all LAs in E&W as well as national outputs for Scotland & Northern Ireland

Standard approach (trend projections)

- Mid-year estimates & domestic migration flow data are released in June each year for the period ending the previous June (1year lag)
- Data from NPP, SNPP, Household models updated every 2 years
- Migration variants where migration assumptions are applied uniformly across the projection period

New challenges

- The strong growth seen in the past seem unlikely to be sustained into the future
- The level of uncertainty is high
 - What are the short-term impacts of covid/Brexit
 - How long will short-term impacts be felt
 - To what extent will past trends re-establish
 - How quickly will past trends re-establish
- Short-term mortality assumptions

Our Approach

- Variants & Scenarios
- Short-term covid/Brexit affected assumptions
- Long-term assumptions
 - 3 International migration scenarios
 - 3 domestic migration scenarios
- A 'central range' rather than a single central projection

Expert panel

- Ann Berrington (Southampton)
- Tony Champion (Newcastle)
- Ian Gordon (LSE)
- Jason Hilton (Southampton)
- John Hollis (ret. GLA)
- Madeleine Sumption (Compas, Oxford)

Circumstantial Evidence

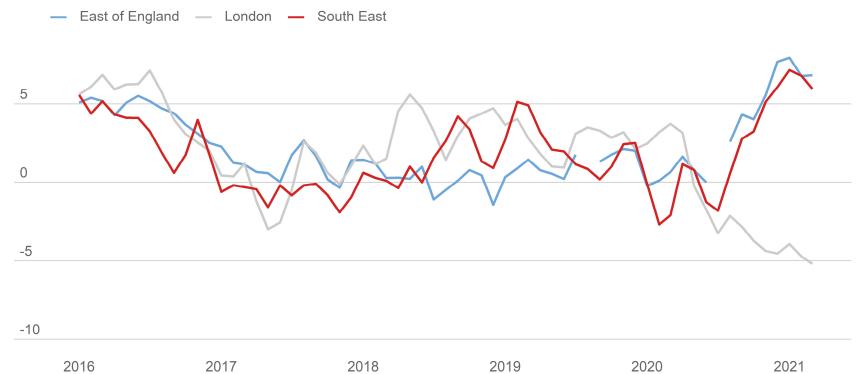
- GP registrations
- Home Office visa data
- Jobs and employment (PAYE)
- Rental values
- Transport for London data on network use

Rental values

Source: Homelet. Chart: GLA demography.

Annual change in rents for new tenancies, Wider South East

Annual change (%)

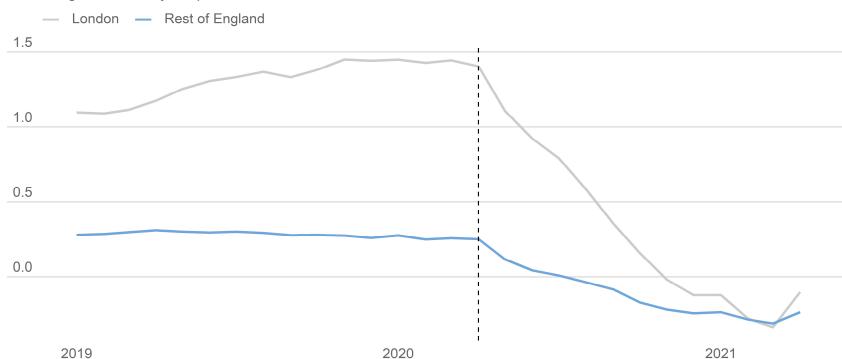


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GP Registrations

Annual change in GP register count

% change from one year previous



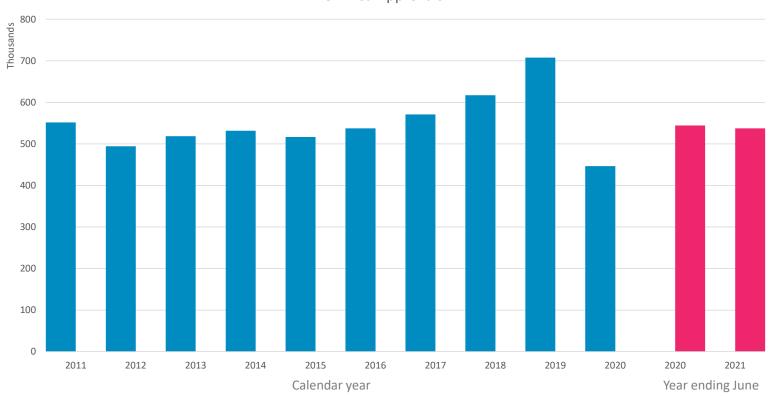
Source: NHS Digital. Chart: GLA demography.

Note: Dotted line at 1 April 2020. England data excludes London.

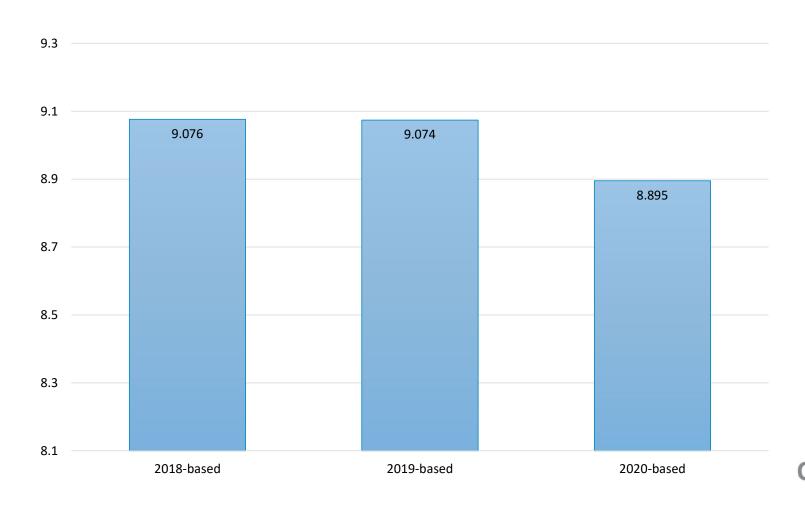


Home Office visas





Evolving Assumptions: The 2021 population





Challenges of this new approach

- Presenting uncertainty to policy makers and the public
- Producing projections which focus on
 - the very short-term
 - sections of the population which have not previously been under such scrutiny
- Defending a conservative approach when wild claims about shifts in population are made

Thank you

Links

- London's population: https://data.london.gov.uk/dataset/londons-population
- GLA Projections: https://data.london.gov.uk/demography/population-and-household-projections/
- Population change in the Pandemic: https://data.london.gov.uk/dataset/population-change-in-london-during-the-pandemic

Variants

Covid period assumptions

Transition period

Central International Central International Central International High International High International High International Low International Low International Low International

Central Central Range Upper bound **Domestic** High Central Range Lower bound **Domestic** Low **Domestic** Central High population **Domestic** High **Domestic** Low Domestic Central Low population **Domestic** High **Domestic** Low Domestic

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