SidM Health
Social Infrastructure Demand Modelling

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Automate housing trajectory processes to feed into government population projections model.

Financial contributions plugin: predict CIL for individual developments.

Scenario Planning: rapidly test multiple sites for change in provision.

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Link to 15 year housing supply. Provide demand projections for GPs and focus on neighbourhood.

Link to health data to provide overview of play provision.

Identify areas of deficiency linked to density of population and barriers to access.

SidM - education
Link to 15 year housing supply. Provide demand distribution for individual schools.

SidM - housing

SidM - health

SidM - play

SidM Systems
GP Statistics

- Dashboards for individual GPs combining NHS England, CCG and local data
- Inner practice areas for individual GPs
- Areas of registered patients at LSOA level
- Practice list size, age profile staff capacity and spatial capacity under one platform linked to latest NHS data
Patient Registration Trends
London wide study

- Inner Practice Areas
- Areas of registered patients
- Patient registration trends at LSOA level
GP Demand Projections

- Disaggregate boundary based population and housing trajectories to provide demand projections at the level of individual GPs.
- Demand projections linked to patient registration trends and accessibility.
- Projections tested against actual increase in patient registration numbers from 2014 till date.
- Ability to aggregate projections for multiple GPs.

Robust evidence base towards:
- Needs assessment
- Infrastructure delivery plans
- Budget allocations at CCG level
Projections tested against actual increase in patient registration numbers

Demand Projections

- Inner Practice Areas
- Areas of registered patients
- Patient registration trends at LSOA level
- Accessibility
TFL : PTAL Rating : Public Transport Accessibility Level

PTAL: a measure which rates locations by distance from frequent public transport services.

Map key - PTAL

0 (Worst) 1a
1b 2
3 4
5 6a
6b (Best)

Map layers

PTAL (cell size: 100m)

You can click anywhere on the map to change the selected location.
Scenario Planning: GPCAL – General Practice Capacity & Accessibility Level

- PTAL equivalent for General Practices.
- Dynamic spatial map highlighting levels of provision based on multiple parameters
- Map evolves based on change in population and is linked to population trajectory

Robust evidence base towards
  • Infrastructure delivery plans
  • Strategic asset management
  • Identify areas of deficiencies and spare capacity linked to change in population
Scenario Planning

- Rapidly test the amalgamation, closure, co-location or provision of new GPs
- Test multiple factors such as change in accessibility, staff capacity, consulting rooms
- Test impact on surrounding GPs with indication of change in practice list sizes

Robust evidence base towards
- Feasibility studies
- Strategic asset management
- Identify areas of deficiencies and spare capacity linked to change in population
1.4 Population growth

Population growth estimates are based on factors including previous growth, trends in births, deaths and migration, and planned housing availability. The estimated growth rate in the North West 1 neighbourhood over the next 10 years is the highest in the area.

Figure 11: Modelled future GP registered population growth by Neighbourhood over next 10 years - map, and with age and 5 year breakdown - graph (Source: Co-plug 2018)
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