

Long-term Area-based Population Projections

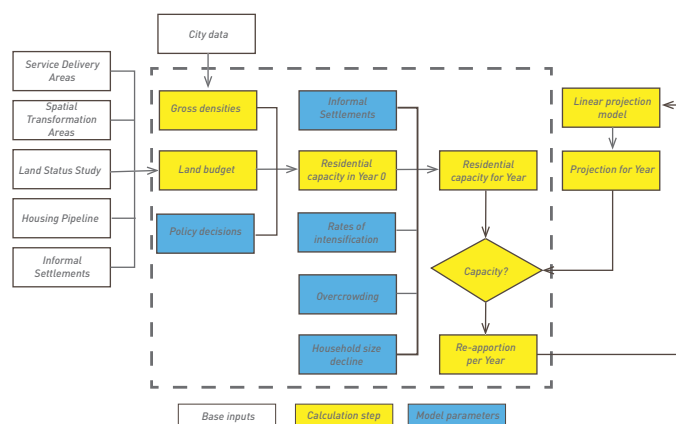


The use of credible evidence forms the bedrock of metropolitan city governments' strategic planning and policy making processes. Long-term population projections form a common platform upon which line departments can scale and time their investment programmes so as to ensure alignment with the needs of a rapidly changing and growing city.

PDG, in partnership with PWC, was commissioned to develop a model of Cape Town and its four area-based service delivery areas, which projects the population for the year 2017 to 2040 split by five year age groups and gender. A base population was set and projected by considering the demographic impact of mortality and fertility rates, migration and the epidemiological effects of disease.

However, PDG noted in its bid response that projections for sub-metropolitan regions face methodological challenges not commonly encountered at city level. Demographic processes at sub-system scale are not only influenced by historical trends and household characteristics, but also spatial dynamics such as path dependencies (e.g. housing pipeline), land capacities and interdependencies such as land markets and boundary effects. Thus, one key area of innovation was the introduction of a spatial adjustment module to complement the linear population projection. The model re-apportioned projected citywide growth to sub-metropolitan areas based on annual residential growth capacities. These capacities were estimated by applying various scenarios representing combinations of assumptions and policy actions.

In addition to the high-level findings contained in the report, the project represents a key area of innovation combining



Spatial adjustment module

traditional demographic projects with a spatial adjustment module which evaluates the impact of spatial policy on the ability of the city to accommodate residential growth, and the magnitude of displaced demand where capacities are reached.

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CPOP PROJECT:

Project Profile: Long-term Area-based Population Projections

Client: City of Cape Town

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