

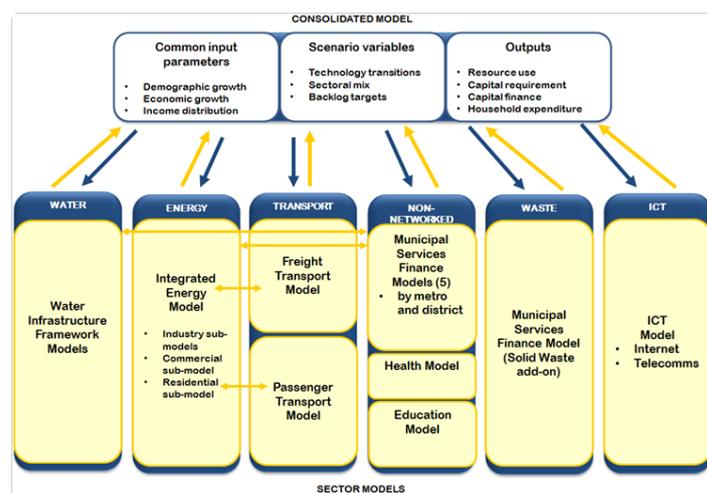
Gauteng Infrastructure Investment Master Plan



Gauteng is positioned in government policy as the 'engine' of growth and development in South Africa. Yet there are a number of constraints to this growth, including natural resources and bulk infrastructure. On the strength of the Infrastructure Framework successfully prepared for the Western Cape Government, the Gauteng Planning Commission commissioned a team led by Aurecon to map the infrastructure needs and implications of the province's chosen development trajectory in the form of Phase 1 of the Gauteng Infrastructure Investment Master Plan. PDG's role in the team was to provide conceptual input into the design of the framework, stakeholder facilitation, and modelling of infrastructure needs and cost implications.

The first step in the process was a comprehensive assessment of the infrastructure status quo, including a deficit analysis. This was then compared with the political vision for the country and the province to define what infrastructure provision was necessary. Appropriate technology was identified in each sector to accomplish the province's 'modernisation' agenda. An important consideration was aligning infrastructure provision with strategic spatial priorities, and through this process the team challenged the notion of 'infrastructure led' development, but rather introduced the idea of a virtuous cycle of infrastructure provision, development and growth.

To quantify the infrastructure needs, PDG developed a suite of 16 inter-related infrastructure models covering energy, transport (freight and passenger), water services, solid waste, roads, stormwater, health, education, ICT and housing. This modelling exercise used the same demographic and economic growth assumptions to quantify infrastructure needs and costs and was able to illustrate the



relative needs between sectors and between addressing backlogs, renewing existing assets and providing for new growth. Four future scenarios were modelled – business as usual, an economic focus, an environmental focus and a sustainability focus. A number of stakeholder workshops were convened to discuss the implications of each, before a preferred future scenario was chosen and the implications unpacked. These implications included huge investments required in transport, energy and water infrastructure.

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GIF PROJECT:

Project Profile: Gauteng Infrastructure Investment Master Plan

Client: Gauteng Planning Commission, Office of the Premier (Led by Aurecon)

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