



Australian
Institute of
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State Infrastructure Plan Submission

Project Team

State Infrastructure Plan

Department of Infrastructure,

Local Government and Planning

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SUBMISSION BY

Australian Institute of Architects
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INFORMATION

- This submission is made by the Qld Chapter of the Australian Institute of Architects (the Institute) to: the Project Team, State Infrastructure Plan Department of Infrastructure, Local Government and Planning.
- This submission has been prepared with the assistance of the Queensland Chapter Council.
- At the time of this submission the Executive of the Institute is: Jonathan Clements (National President), Prof Ken Maher (President-Elect), David Karotkin (Immediate Past President), Richard Kirk and Helen Lohead.
- At the time of this submission the President of the Queensland Chapter is Richard Kirk FRAIA.
- The Australian Institute of Architects (the Institute) is an independent voluntary subscription-based member organization with approximately 12,305 members, of which 6,840 are architect members. Members are bound by a Code of Conduct and Disciplinary Procedures. The Institute represents the largest group of non-engineer design professionals in Australia.
- The Australian Institute of Architects is the peak organisation acting on behalf of a significant and diverse range of Architects and Architectural practices within Australia.
- The Institute, incorporated in 1929, is one of the 96 member associations of the International Union of Architects (UIA) and is represented on the International Practice Commission.



State Infrastructure Plan Submission

On behalf of the Queensland Chapter we would like to thank the Government for the opportunity to provide comment on its Draft State Infrastructure Plan (SIP).

The Institute has been actively involved in several State Government and Council initiatives over preceding years and are keen to play a part in the SIP. We consider of most significant importance an overall solid focus on design excellence and sustainability in all aspects of built environment planning.

Part A of the SIP clearly outlines how the plan is to be used and the future growth of the State. The most prominent of all statistics is the Queensland population growth for 2036 with a projection of an additional 2,372,732 Queenslanders, the majority of this increase occurring in the Greater Brisbane.

This overview highlights how population growth will lead to significant increases in future services demand across regional Queensland and South East Queensland. Projected public transport trips will rise by more than 100%. There will be an additional 48000 flights, the need for 8550 additional classrooms and a doubling of the number of hospital beds required all by 2036.

Part B of the SIP we found to be generally lacking in detail, particularly in the 5-15 year opportunities dot points. Most of the points were relatively vague making it difficult to provide meaningful feedback. It may be more beneficial to provide some long term goals for each sector as these opportunities can be discussed openly with the private sector and the Federal Government.

We would like to draw your attention to the issue of Building Information Modelling (BIM) which is being used around the world to complement better collaboration and coordination between the supply chain participants in construction. Using technology as a facilitator to bring project teams together and design a virtual prototype of an asset is helping to enhance collaboration, test and re-test business case objectives, and plan for more efficient asset delivery.

Moving an entire industry to a new way of doing things is not an easy task. However the productivity dividend is undeniable. Thus it is imperative that governments, through their significant purchasing power and whole of industry influence, lead the way.

We highly recommend governments adopt the use of BIM on all government (Federal and State) building projects by 2020 and all infrastructure projects by 2023. This phased approach gives industry participants adequate time to adapt.

The Institute views the SIP as an important initiative and therefore see this as the beginning of an ongoing exchange of ideas about how we can contribute to the long term development of this document.