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TECHNICAL & STRATEGIC



NORTH SOUTH CORRIDOR (T2D)

The South Australian Department for Infrastructure and Transport is developing a business case for the Torrens to Darlington (T2D) section of motorway, which is the final piece of South Australia's North-South Corridor. The project will complete the 10.5km gap in Adelaide's north-south freeway network and will be the state's biggest infrastructure project to date.

Project Scope: The North South Corridor will be Adelaide's most strategically significant transport corridor providing a continuous, 78-kilometre freeway-standard connection between Gawler and Old Noarlunga via central Adelaide. The project has been delivered progressively in stages since 2010 with the final section - Torrens to Darlington (T2D) - due to be completed in 2030. The T2D project involves:

- A 10.5km freeway connection between the existing sections of the North South Corridor at River Torrens and the Darlington Interchange.
- Two tunnelled sections to preserve local amenity and minimise land acquisition impacts.
- Interchanges providing connectivity at key locations along the corridor.
- Retaining South Road as a north-south arterial road connection for local connectivity.

Services: SmedTech was engaged by the Department for Infrastructure and Transport to undertake a targeted, independent review of the project's Strategic Business Case. This involved an assessment of the existing project documentation, reviewing and benchmarking of input assumptions and results, as well as identification of potential issues and recommendations for proceeding to the Final Business Case.

As part of this independent review we worked with the Department and a tier one contractor to undertake a value engineering exercise to identify a range of opportunities to rationalise the existing project scope to reduce capital cost and land acquisition requirements, whilst delivering on the project objectives. As a result of this review, the Department developed a revised design solution, which looked to significantly simplify the interaction between the new freeway asset and the at grade road network, reducing project cost and property acquisition.

Following on from the independent review, the SmedTech team continues to support the Department in an advisory capacity throughout the development of the project Final Business Case. This has included the provision of advice around the development and implementation of the:

- project options appraisal framework;
- transport demand and operational modelling appraisal frameworks;
- project capital cost estimation;
- project economic appraisal.