

THE
**NORTH-SOUTH
CORRIDOR**



DELIVERING OUR TRANSPORT FUTURE NOW
NORTH-SOUTH CORRIDOR
City of Unley

Council Briefing
5 July 2021

Malcolm Short, Director Engineering T2D PDO



Strategic project objectives

Efficiency | Productivity | Safety
Community connectivity | Urban amenity

City access

North to the City via Port Road
South to the City via Anzac Highway

Freight access to Port Adelaide

From the north and south
From the Southern Expressway

Adelaide International Airport access

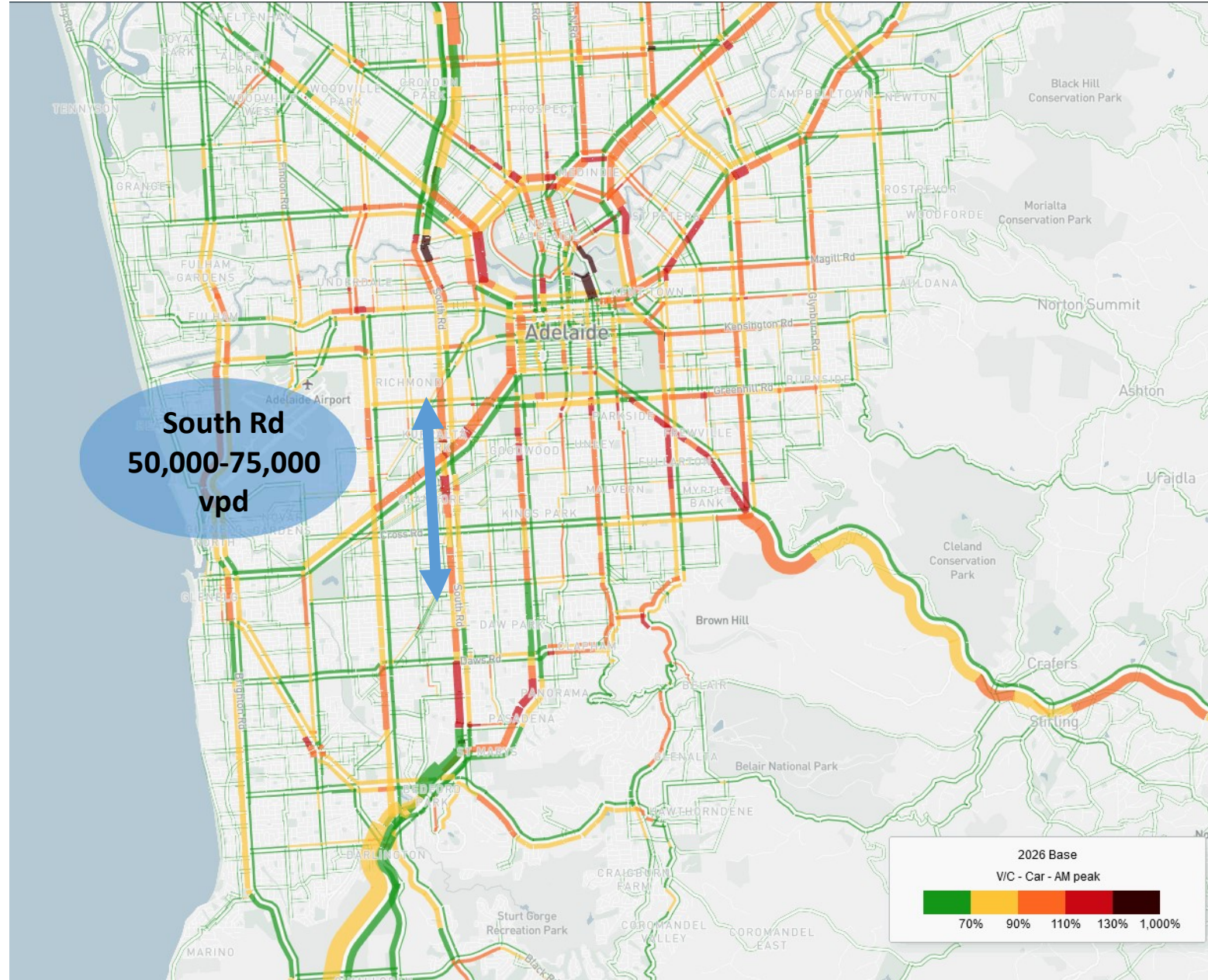
Via Sir Donald Bradman Drive
Via Richmond Road (freight)

East-west connections

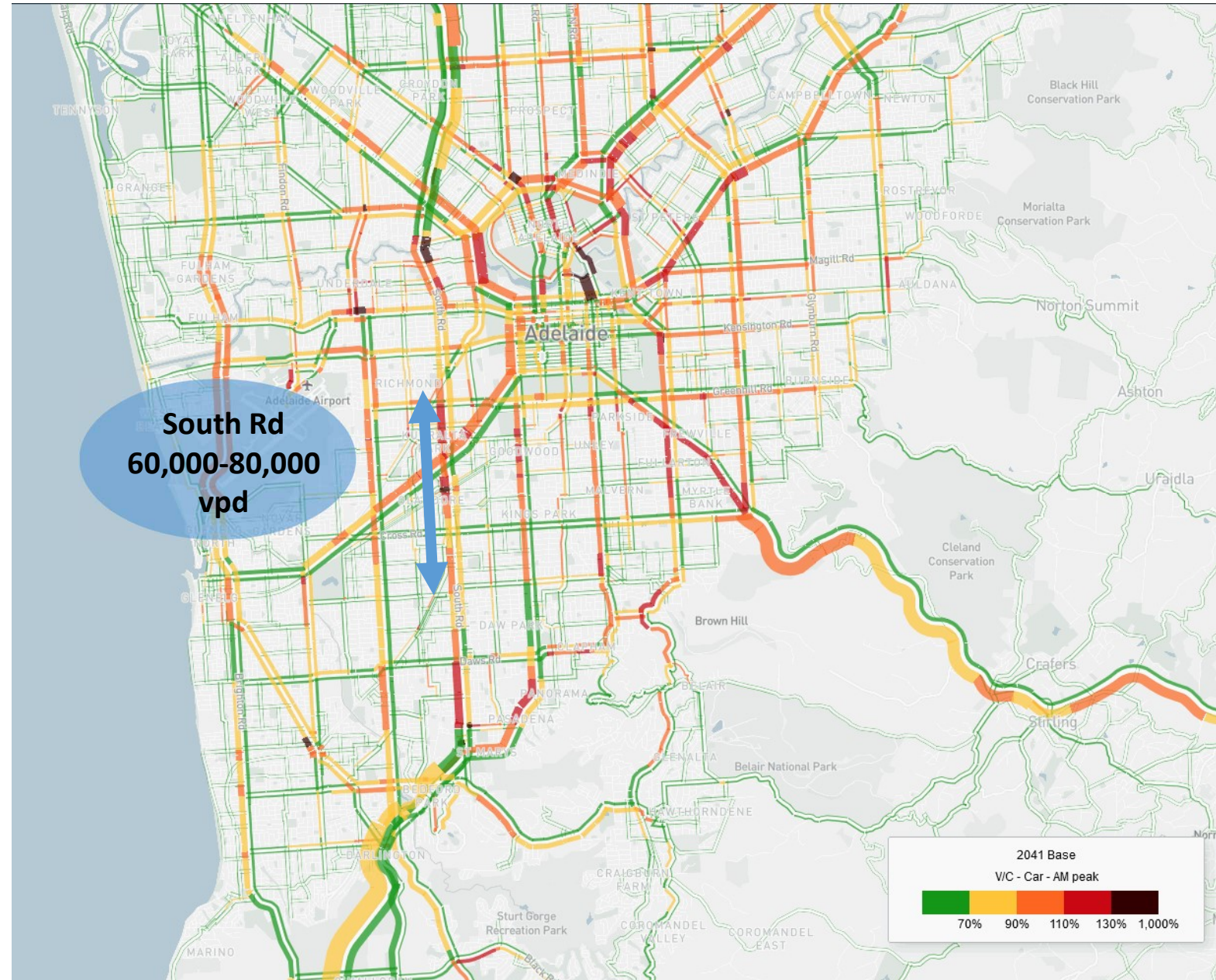
Sir Donald Bradman Drive, Henley Beach Road, Anzac Highway, Richmond Road, Cross Road, Daws Road, Ashwin Parade



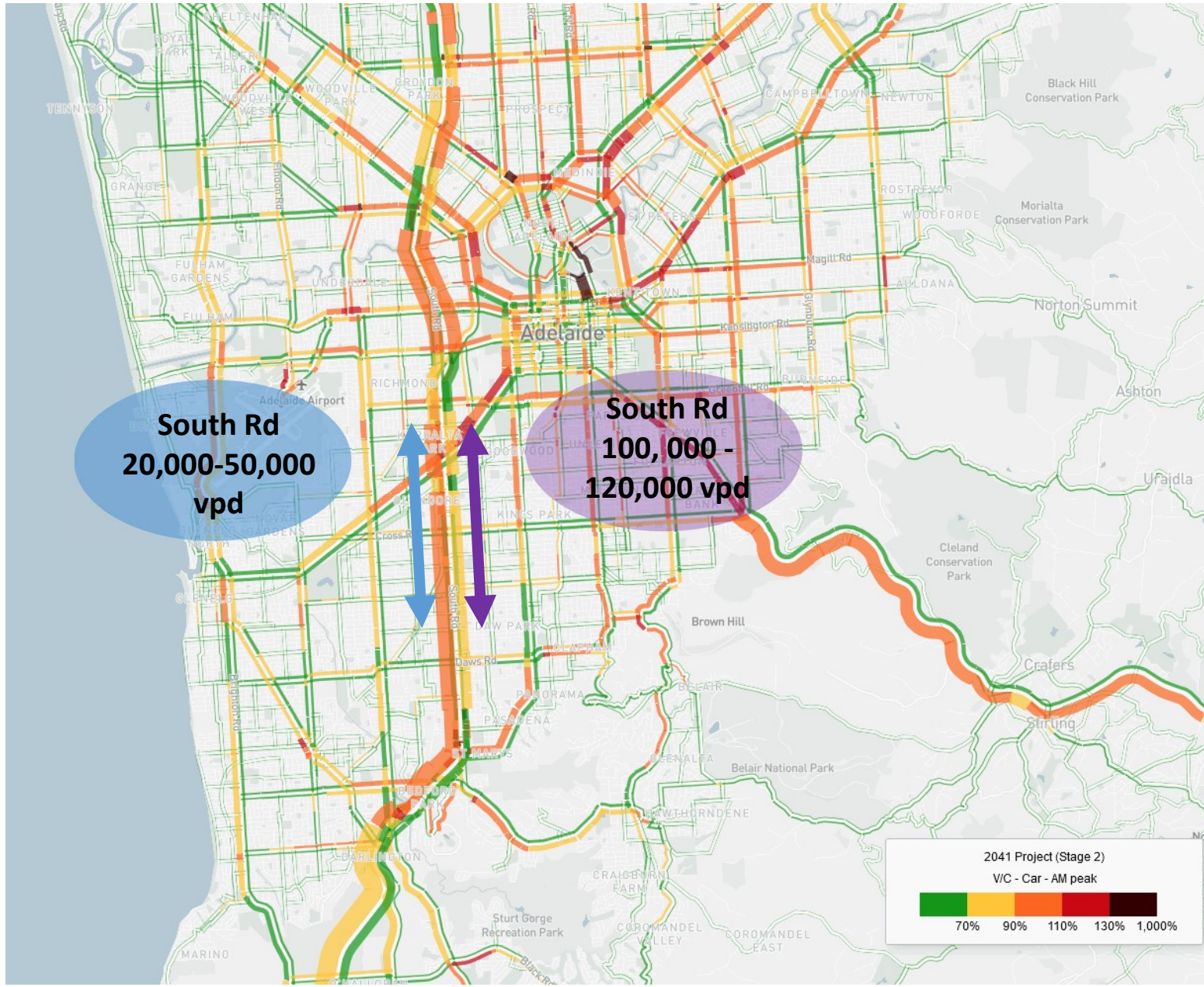
How congested will Adelaide's roads be in 2026?



How congested will Adelaide's roads be in 2041?

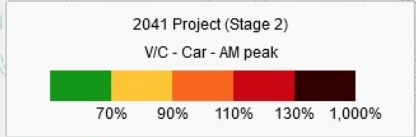


How will congestion change with the T2D project?

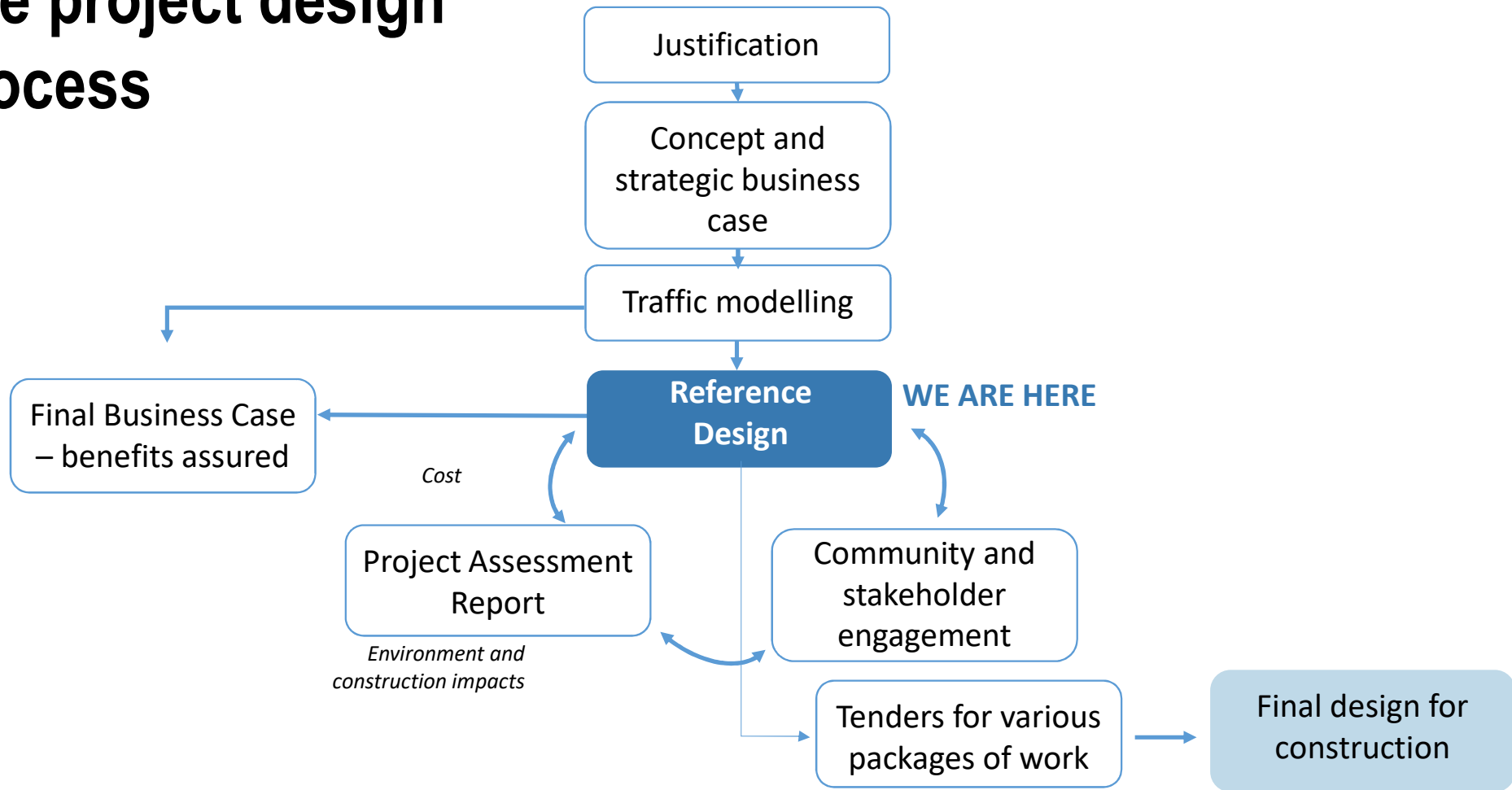


Based on an early concept of the T2D Project, the new tunnels will help to alleviate congestion on parallel north-south routes.

- Free-flowing conditions
- Moderate stop-start flows
- Heavy congestion
- Extended delays



The project design process



What is a Reference Design used for?

Developing the Reference Design is an important part of Project Development. It is used to:

- Establish an indicative road layout, connections to the wider road network and on and off ramps to the motorway, the extent of tunnels and other structures
- Identify the overall project footprint
- Ensure motorway performance in accordance with traffic modelling
- Assist the community to understand the proposed design
- Identify how the project could be built and staged, and locations for construction zones
- Assess environmental and construction impacts and how they might be mitigated
- Enable more accurate estimation of construction costs
- Form part of contract documentation so construction companies can quote for the works



Stakeholder engagement – June and July 2021

- Community Reference Groups (Southern and Northern tunnels)
- Business Reference Groups (Southern and Northern tunnels)
- Council Working Group
- Key stakeholder engagement (community groups, peak industry bodies)
- Business engagement
- Door knocking (all businesses and residences on South Road)
- Roadshows over three weeks (Brickworks, Marion and Castle Plaza shopping centres)
- Pop ups at a number of community centres, community focal points and centres)
- Online engagement

JUNE 2021



MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
31	01	02	03	04	05	06
07	08 Brickworks City of Unley & Goodwood Library Black Forest Primary	09 Brickworks City of Unley & Goodwood Library Black Forest Primary	10 Brickworks City of Unley & Goodwood Library Black Forest Primary	11 Brickworks Thebarton Community Centre 8:00am - 10:00am City of Unley & Goodwood Library Black Forest Primary	12 Brickworks	13 Brickworks
14 Queen's Birthday	15 Westfield Marion Glandore Community Centre 10:00am - 12:00pm City of Charles Sturt St Bernadette's	16 Westfield Marion Thebarton Community Centre 8:30am - 10:00am City of Charles Sturt St Bernadette's	17 Westfield Marion Arndale (near Big W) 9:00am - 11:00am City of Charles Sturt St Bernadette's	18 Westfield Marion La Crema 8:30am - 10:00am Patio Coffee 11:00am - 12:30pm City of Charles Sturt St Bernadette's	19 Westfield Marion	20 Westfield Marion
21 Castle Plaza Edwardstown Primary Hamra Centre Library Richmond Primary	22 Castle Plaza Edwardstown Primary Hamra Centre Library Richmond Primary	23 Castle Plaza Edwardstown Primary Hamra Centre Library Richmond Primary	24 Castle Plaza Edwardstown Primary Hamra Centre Library Richmond Primary	25 Castle Plaza Edwardstown Primary Hamra Centre Library Richmond Primary	26 Castle Plaza Kurraila Park 9:00am - 11:00am	27 Castle Plaza
28 La Patio Coffee 8:30am - 10:00am La Crema 11:00am - 12:30pm City of Marion St Anthony's City of Mitcham	29 City of Marion St Anthony's City of Mitcham	30 Glandore Community Centre 10:00am - 12:00pm City of Marion St Anthony's City of Mitcham	01 City of Marion St Anthony's City of Mitcham	02 City of Marion St Anthony's City of Mitcham	ROADSHOW POP-UP STATIC DISPLAY	

A total of 2,935 survey responses have been received to date



Stakeholder engagement - key themes to date

From the 2,935 surveys received to date, 76% of respondents stated that they feel very positive or somewhat positive about the project

Key areas of interest:

- The provision of safe cycling and walking facilities, both north-south and east west
- East-west connectivity for access to community facilities and services, particularly where the motorway is at surface level
- Provision of safe and free-flowing access into the CBD via Anzac Highway
- Safe connection for families to access schools that have catchments on both sides of South Road
- Safe connections to public transport – bus, train and tram
- Landscape and streetscape improvements along South Road including revitalisation opportunities
- Management of interfaces with new infrastructure, particularly in relation to the management of road noise
- Local access to properties, businesses and the local road network
- Management of construction related traffic and spoil disposal

Feedback will be used to feed into the Reference Design as well as the development of an Urban Design Strategy and City Shaping program



Southern Tunnel Community Reference Group meeting June 2021



What is a motorway?

- Fast-moving and free-flowing
- The T2D section of South Road is the last remaining section of the North-South corridor that is not a motorway
- The project will connect the T2T to the Darlington parts of the North-South Motorway
- The motorway will be separate to South Road, which will still provide access to the local community
- Once complete, the North-South Motorway will be the major route for north and south bound traffic between Gawler and Old Noarlunga, a distance of 78 kilometres



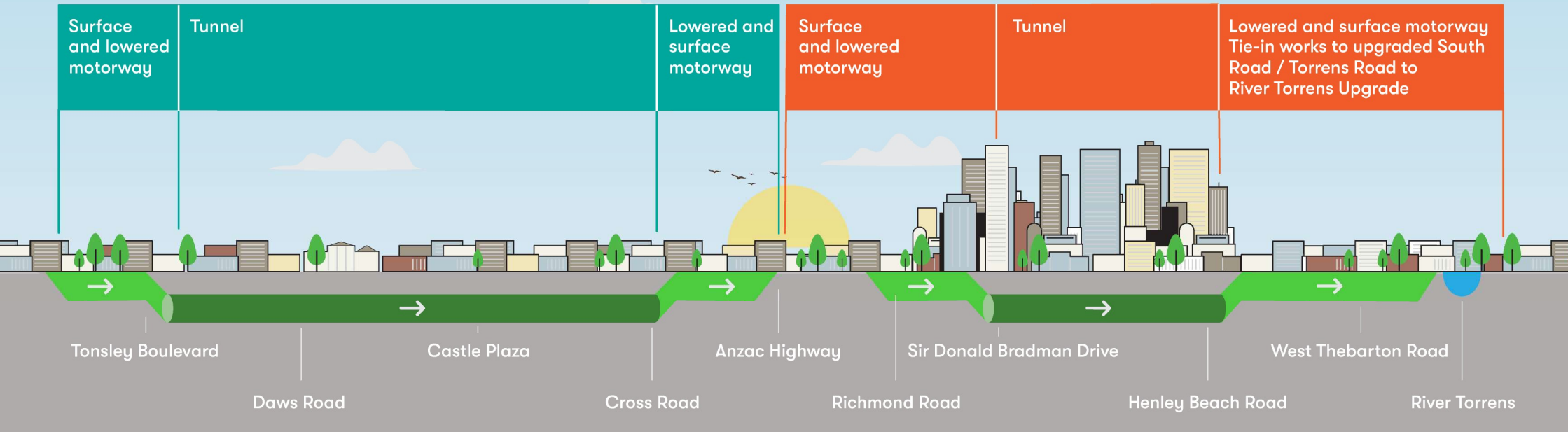
The concept – released November 2020

Stage 1 - Southern Tunnel

Construction expected to commence late 2023

Stage 2 - Airport Link and Northern Tunnel

Construction expected to commence late 2026



Why two tunnels – why not a single tunnel?

To connect to Anzac Highway for access to the City and to connect to Richmond Road/Sir Donald Bradman Drive for access to the Airport



Typical tunnel cross section

- The roadway in the tunnels will vary between 20-45m below ground
- Tunnel diameter will be about 15m, or 1m taller than Bunnings in Edwardstown or the height of a 4-5 storey building
- Two parallel tunnels – northbound and southbound
- Tunnels are connected via side tunnels at regular intervals for personnel in case of emergency
- Three lanes in each direction
- Complex systems in each tunnel to ensure safe operation and drainage
- Ventilation facilities within the tunnel, with outlets at each end





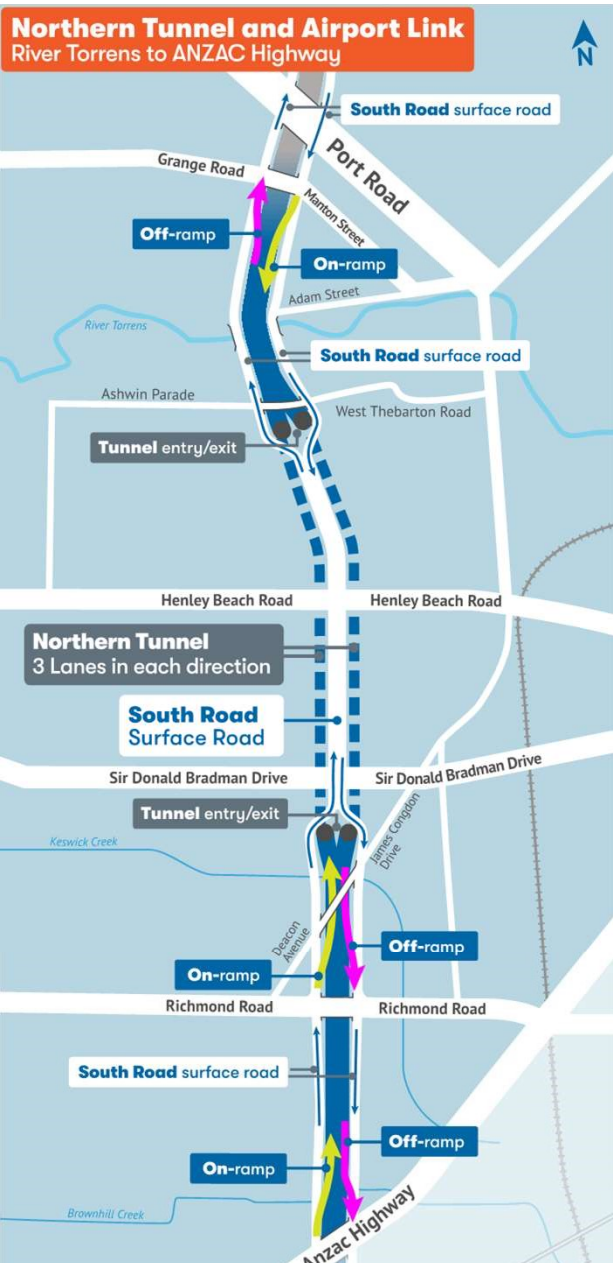
Proposed motorway layout Southern Tunnel

Strategic connections on and off the motorway:

- Tonsley Boulevard
- Cross Road
- Anzac Highway



Diagram is indicative only, not to scale and subject to detailed design and traffic modelling



Proposed motorway layout Northern Tunnel and Airport Link

Strategic connections on and off the motorway:

- Anzac Highway
- Richmond Road
- Grange Road/Port Road

Diagram is indicative only, not to scale and subject to detailed design and traffic modelling

Questions?

