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Factsheet
August 2019

Crowding and congestion

Australian Infrastructure Audit

Greater Adelaide in 2016

Adelaide has grown and so has its transport task

- Our modelling indicates the annualised cost of road congestion for Greater Adelaide was approximately **$1.4 billion** in 2016.
- In 2016, Adelaideans travelled 66 million kilometres further on the city's road network than in 2006.
- Adelaide's most congested roads are those that accommodate north-south travel.
- More severe levels of congestion are experienced closer to the CBD. These roads provide access to Adelaide's central employment cluster.
- Buses perform the majority of Adelaide's public transport task and carry the greatest number of passenger kilometres, passenger hours and boardings.
- The north-eastern and south-western lines on the rail network reach their seated capacity in the AM peak. However, on average are still under maximum or crush capacity.
- Adelaide's current single tram corridor has been subject to low average crowding even in peak periods.

Adelaide GCCSA population 2016: 1.3 million

Drivers can expect to spend around

60%

Of their travel time in congested traffic

Cost of public transport crowding in 2016:

$1 million

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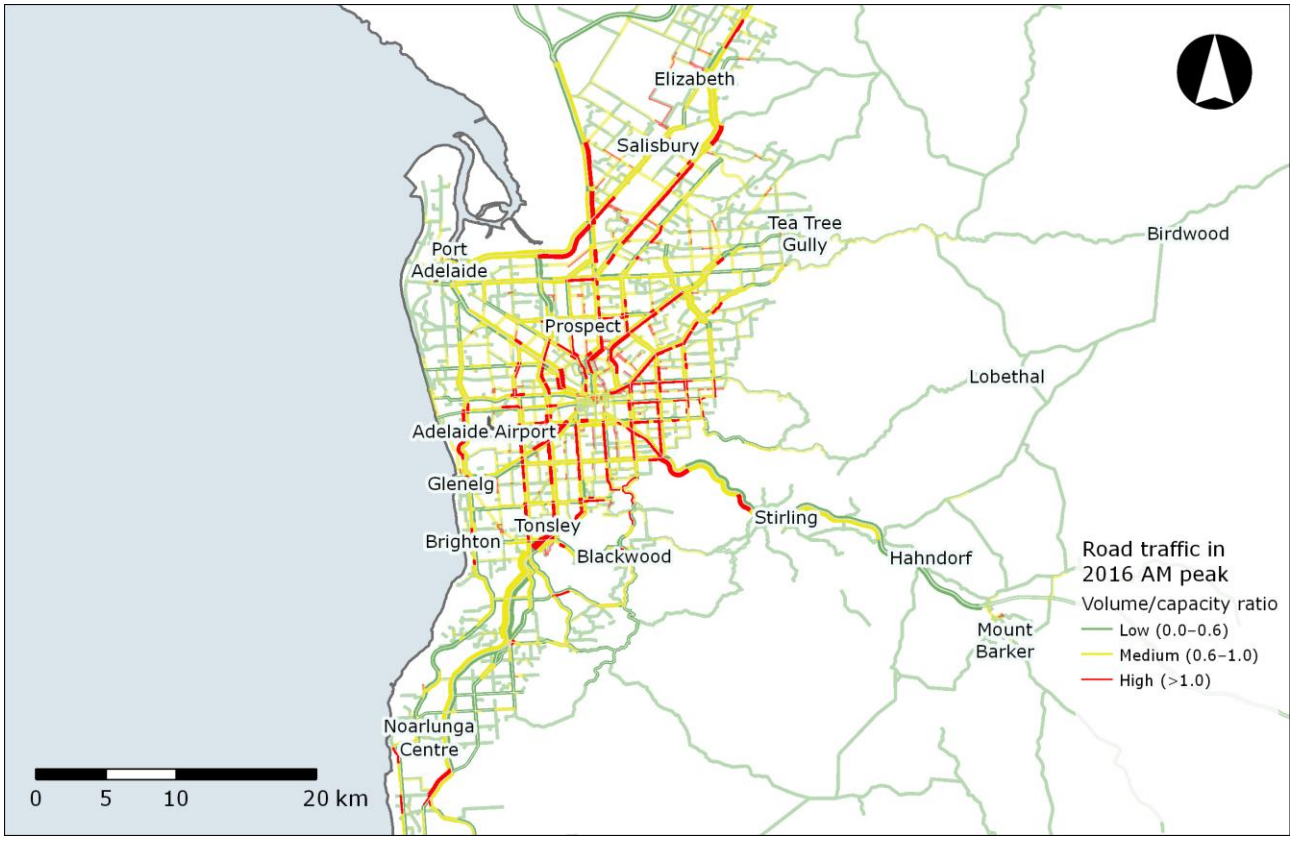
Adelaide's road network congestion 2016, AM peak



Adelaide's most congested roads (user experience) 2016

City rank	Corridor including origin / destination connected (direction)	Length (km)	Share of journey time due to congestion	Delay per vehicle (mins)	Cost of congestion for a car	Cost of congestion for a heavy commercial vehicle
AM peak						
1.	Fullarton Road corridor (N/B)	8	60%	13	$3.59	$15.47
2.	Goodwood Road corridor (N/B)	9	59%	15	$4.14	$17.85
3.	Magill Road corridor (W/B)	5	55%	8	$2.21	$9.52
4.	Lower North East Road / Payneham Road corridor (W/B)	14	55%	20	$5.52	$23.79
5.	Glynburn Road corridor (S/B)	5	55%	8	$2.21	$9.52
6.	Belair Road / Unley Road corridor (N/B)	11	54%	17	$4.69	$20.22
7.	North East Road corridor (S/B)	16	50%	19	$5.25	$22.60
8.	Anzac Highway corridor (E/B)	9	49%	11	$3.04	$13.09
9.	Port Wakefield Road / Main North Road corridor (S/B)	39	48%	28	$7.73	$33.31
10.	Kensington Road corridor (W/B)	5	47%	6	$1.66	$7.14
PM peak						
1.	Fullarton Road corridor (S/B)	8	57%	12	$3.31	$14.28
2.	Goodwood Road corridor (S/B)	9	56%	14	$3.87	$16.66
3.	Payneham Road / Lower North East Road corridor (E/B)	14	52%	18	$4.97	$21.41
4.	Unley Road / Belair Road corridor (S/B)	11	51%	15	$4.14	$17.85
5.	Glynburn Road corridor (N/B)	5	51%	7	$1.93	$8.33
6.	Magill Road corridor (E/B)	5	50%	6	$1.66	$7.14
7.	North East Road corridor (N/B)	16	48%	18	$4.97	$21.41
8.	Marion Road corridor (S/B)	23	47%	22	$6.08	$26.17
9.	Anzac Highway corridor (W/B)	9	46%	10	$2.76	$11.90
10.	Main North Road / Port Wakefield Road corridor (N/B)	39	45%	26	$7.18	$30.93

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Greater Adelaide in 2031

Even with committed investment, Greater Adelaide's transport networks are forecast to become more congested

- Our modelling indicates the annualised cost of road congestion for Greater Adelaide will increase to **$2.6 billion** in 2031.
- Drivers on Adelaide's most used roads can expect to spend between 55% and 70% of their trip in congestion at the AM peak.
- Despite road upgrades to Adelaide's north-south corridor, this will remain one of the city's most congested routes.
- Many of Adelaide's roads will be operating over their design capacity, causing delays to bus passengers, motorists and freight operators.
- Many of the worst-performing corridors in 2031 are marked as National Key Freight Routes by the Australian Government.
- There will be increased rail network demand, particularly on lines linking the outer suburbs to the north and south with the city centre.
- The bus network will become incrementally more crowded, with growth areas expected to become busier.
- The Glenelg tram will continue to experience light crowding providing opportunity for passenger growth and integration with active travel networks.

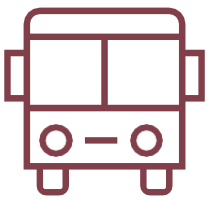
Adelaide GCCSA population 2031: 1.6 million

24%

increase in car usage

Cost of public transport crowding in 2031:

$4 million



31%

Increase in public transport trips

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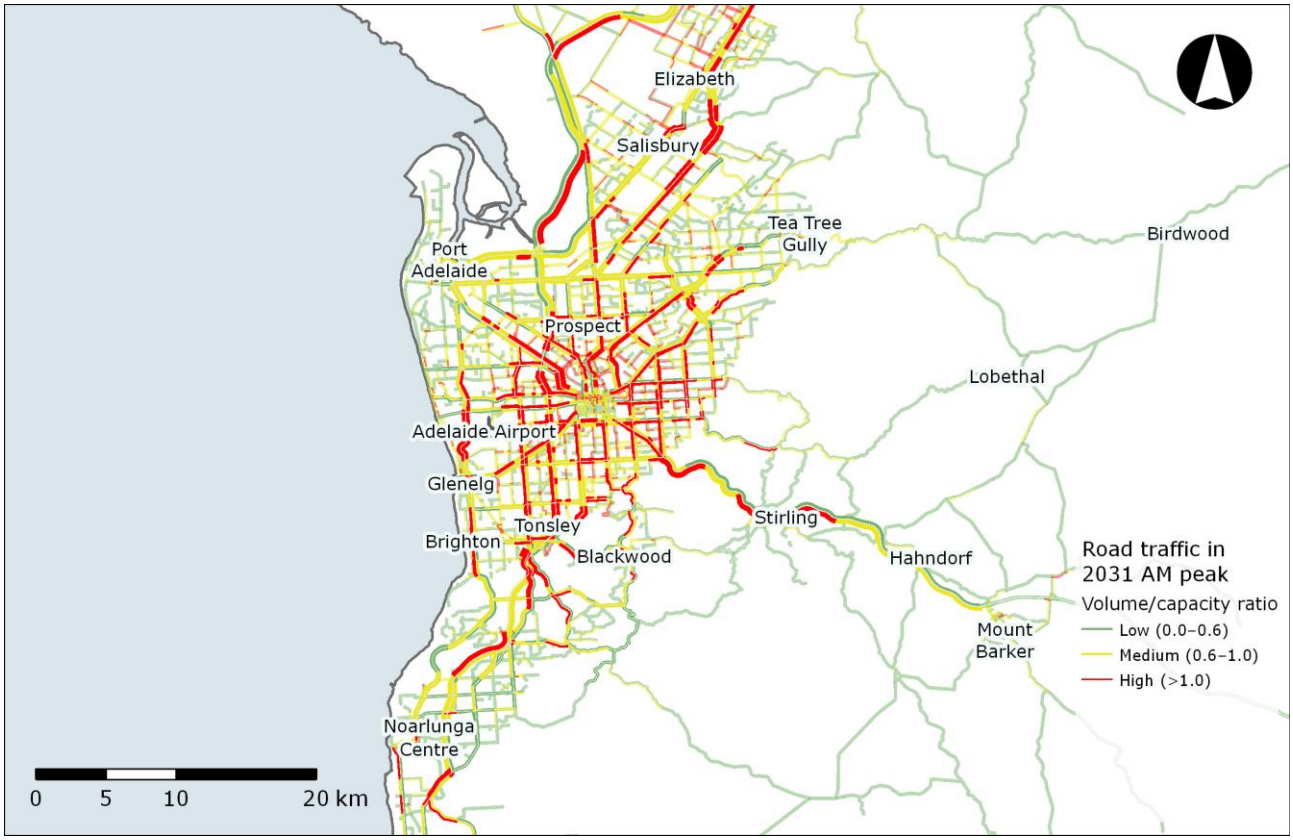
Adelaide's road network congestion 2031, AM peak



Adelaide's most congested roads (user experience) 2031

City rank	Corridor including origin / destination connected (direction)	Length (km)	Share of journey time due to congestion	Delay per vehicle (mins)	Cost of congestion for a car	Cost of congestion for a heavy commercial vehicle
AM peak						
1.	Fullarton Road corridor (N/B)	8	67%	18	$4.97	$21.41
2.	Goodwood Road corridor (N/B)	9	66%	20	$5.52	$23.79
3.	Glynburn Road corridor (S/B)	5	66%	12	$3.31	$14.28
4.	Magill Road corridor (W/B)	5	66%	12	$3.31	$14.28
5.	Lower North East Road / Payneham Road corridor (W/B)	14	64%	30	$8.29	$35.69
6.	Belair Road / Unley Road corridor (N/B)	11	63%	24	$6.63	$28.55
7.	North East Road corridor (S/B)	16	60%	29	$8.01	$34.50
8.	Torrens Road corridor (E/B)	11	59%	20	$5.52	$23.79
9.	Kensington Road corridor (W/B)	5	59%	9	$2.49	$10.71
10.	Port Road corridor (E/B)	11	57%	19	$5.25	$22.60
PM peak						
1.	Fullarton Road corridor (S/B)	8	65%	17	$4.69	$20.22
2.	Goodwood Road corridor (S/B)	9	65%	20	$5.52	$23.79
3.	Glynburn Road corridor (N/B)	5	63%	11	$3.04	$13.09
4.	Payneham Road / Lower North East Road corridor (E/B)	14	62%	27	$7.46	$32.12
5.	Unley Road / Belair Road corridor (S/B)	11	61%	22	$6.08	$26.17
6.	Magill Road corridor (E/B)	5	60%	10	$2.76	$11.90
7.	North East Road corridor (N/B)	16	58%	26	$7.18	$30.93
8.	Marion Road corridor (S/B)	23	57%	33	$9.11	$39.26
9.	Torrens Road corridor (W/B)	11	56%	18	$4.97	$21.41
10.	Port Road corridor (W/B)	11	56%	17	$4.69	$20.22