

# OBT

- WIDE MEDIAN TREATMENTS
- ROUNDABOUTS

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## Wide Median Treatments

Developed to prevent typical high-speed cross-road crashes and to avoid wrong-way right turns onto divided highways.



# Warrants

Wide median treatments should be limited to:

- i. T intersections where the entering side road traffic is less than 1000 v.p.d.;
- ii. Cross intersections where the sum of the volumes entering from both side roads is less than 1000 v.p.d.;



## TABLE 2 : WIDE MEDIAN TREATMENT SITES

- Casualty Accident Rates versus Side Road Entering Volume Ranges

Side Road Entering Volume Ranges	Number of sites	Average Accident Rates		Average Entering Volumes		
		Cas accs/Yr	Cas accs / 10 <sup>7</sup> entering vehs	Highway	Side Road	Total Entering
0-249	16	0.12	2.66	10369	69	1766
250-499	5	0.51	3.79	11145	330	3817
500-749	4	0.32	1.82	9975	587	4813
750-999	2	0.00	0.00	16115	916	7621
1000-1249	4	1.31	5.15	11355	1132	7166
1250 +	6	1.78	4.25	15166	1901	10614

From VicRoads 1993 report, "Volume Warrants for Wide Median Treatments"

Side Road Entering Volume Ranges	Number of Sites	Total number of crashes in range	Average Crash Rate Cas. crashes / 10 <sup>7</sup> entering vehs	Average Entering Volumes	
				Highway	Side Road
0-299	17	7	0.9	10420	105
300-649	7	23	3.3	10590	435
650-999	3	1	1.2	14360	850
1000 +	10	72	4.2	13655	1595

 Sufficient data statistically

 Insufficient data statistically

**Too high**

From Andrew O'Brien report "Safety & Warrants for Wide Median Treatments", October 2011

# Conclusion - Wide Median Treatments

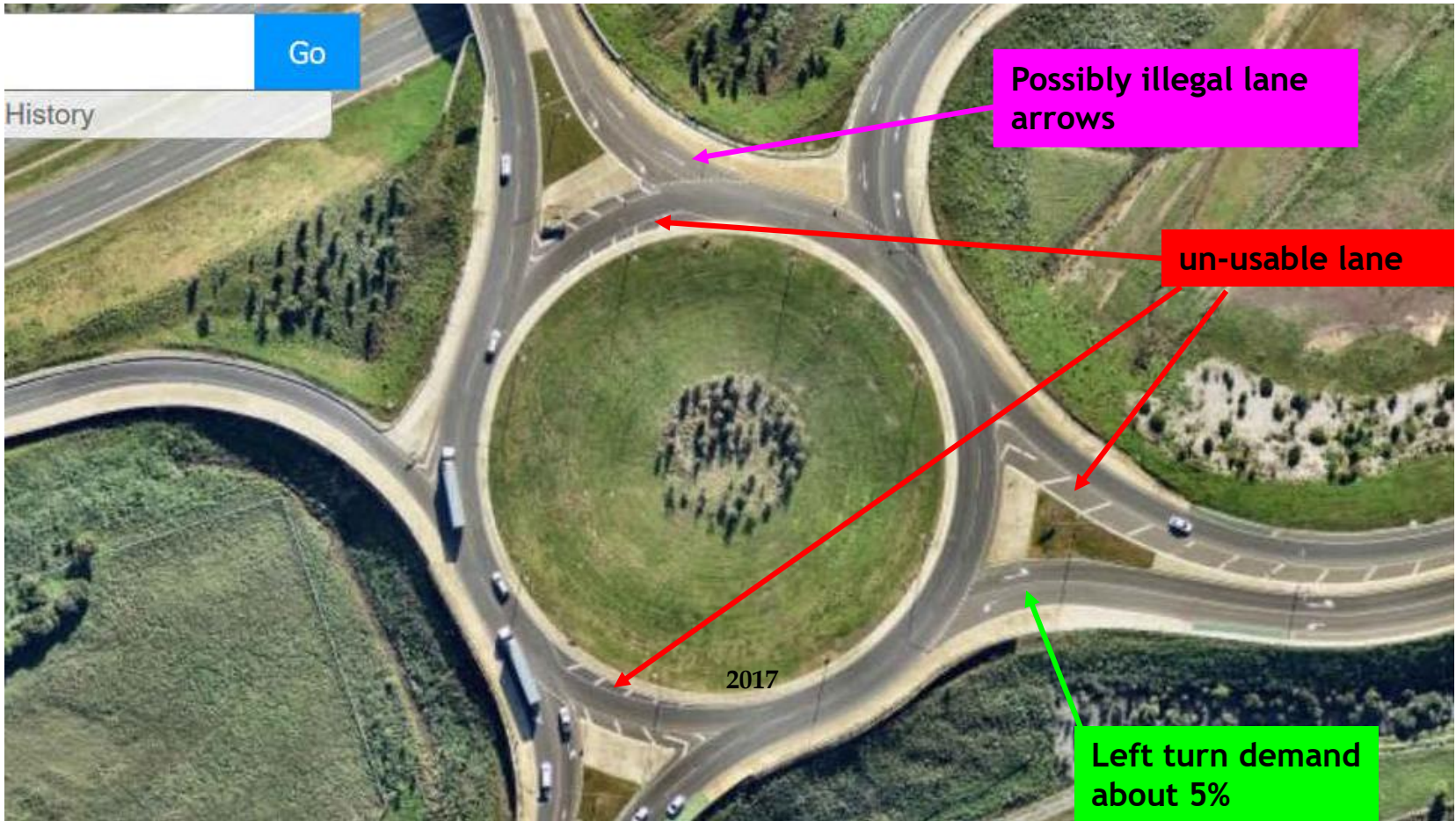
- Problems with data analysis are common
- Once a warrant is in a Guide it is difficult to change
- Based on Andrew O'Brien's 2011 work we consider a better limit for wide median treatments is 250 vehicles on the side roads (combined).



# Roundabouts - Princes Freeway / Anglesea Road



# Action Taken Within Weeks of Opening



**Roundabout design totally compromised**



# Conclusion - Roundabouts

- Do not have two-lane roundabouts with large centre islands
- Think
- Have experienced people work on projects or at least review them before construction