## Westconnex

Ecotransit Sydney
Mathew Hounsell
Co-convenor

Table 3 Level of Service Criteria – Midblock Sections				
Level of service (LOS)	AustRoads Description	Road Section (vehicles per lane per hour)		
LOS F	Forced flow. The amount of traffic approaching a point exceeds that which can pass it. Flow break-down occur, and queuing and delays occur.	900-1700		
LOS E	Traffic volumes are close to capacity and there is virtually no freedom to select desired speed and to manoeuvre within the traffic stream. Flow is unstable and minor disturbances within the traffic stream will cause break-downs in operation.	720-1360		
LOS D	Approaching unstable flow where all drivers are severely restricted in their freedom to select desired speed and to manoeuvre within the traffic stream. The general level of comfort and convenience is poor and small increases in traffic flow will cause operational problems.	585-1105		
LOS C	Stable flow but most drivers are restricted to some extent in their freedom to select their desired speed and to manoeuvre within the traffic stream. The general level of comfort and convenience has declined noticeably.	450-850		
LOS B	Stable flow where drivers still have reasonable freedom to select their desired speed and to manoeuvre within the traffic stream. The general level of comfort and convenience is less than LOS A.	Not Applicable		
LOS A	Free flow in which drivers are virtually unaffected by the presence of others in the traffic stream. Freedom to select desired speeds and to manoeuvre within the traffic steam is extremely high and the general level of comfort and convenience is excellent.			







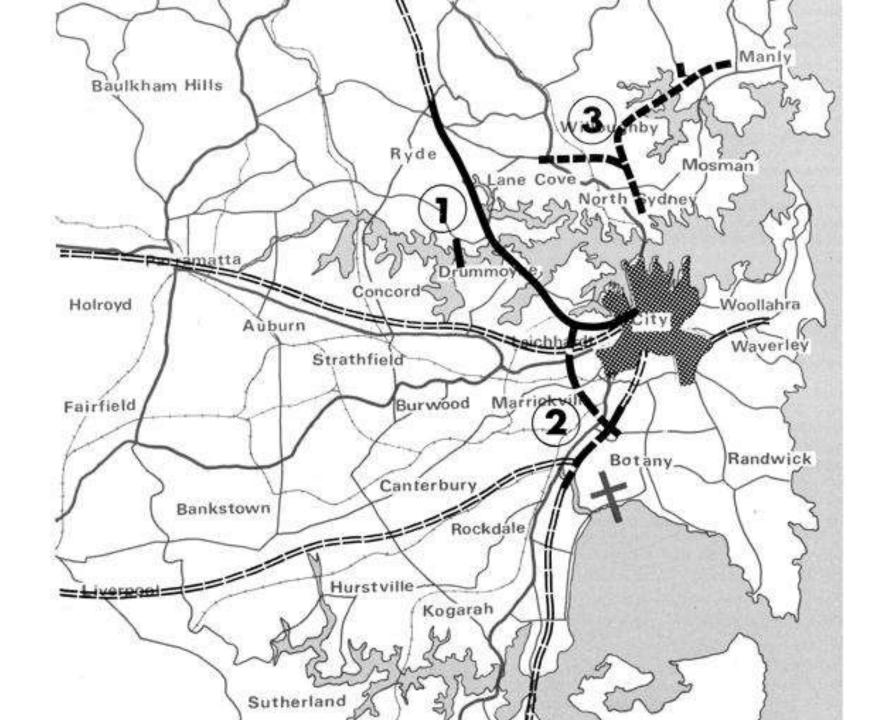


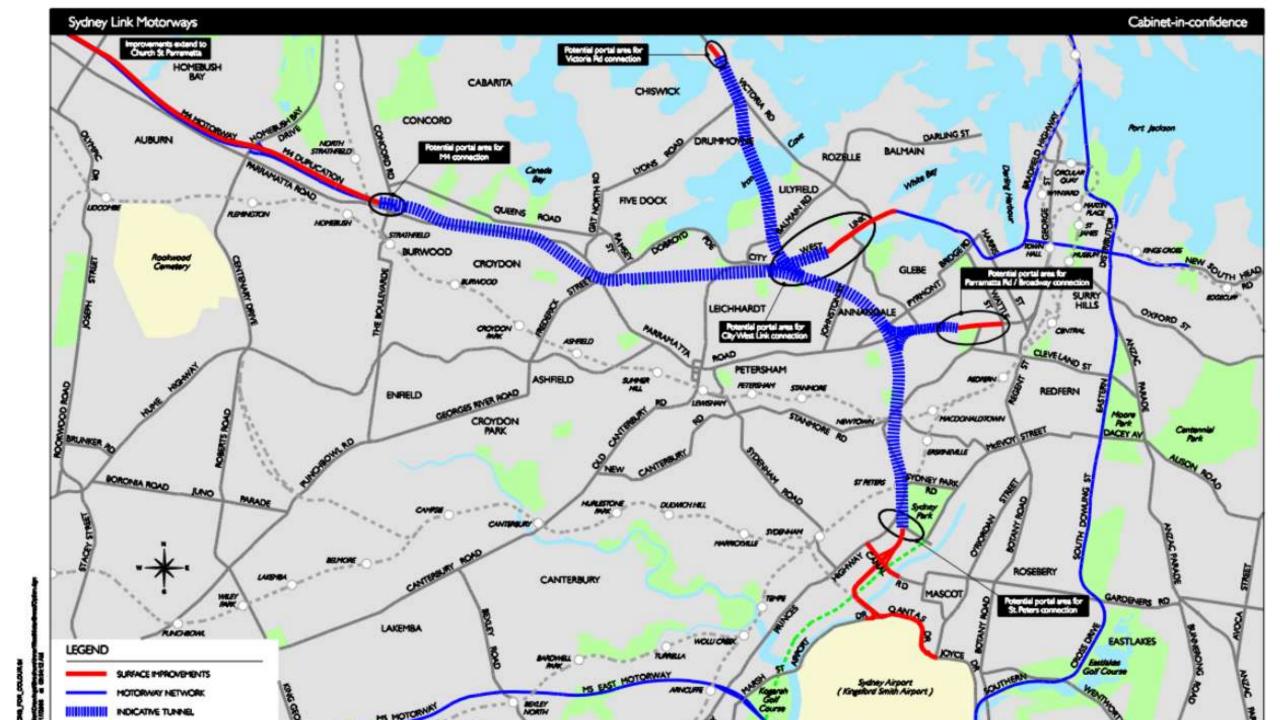


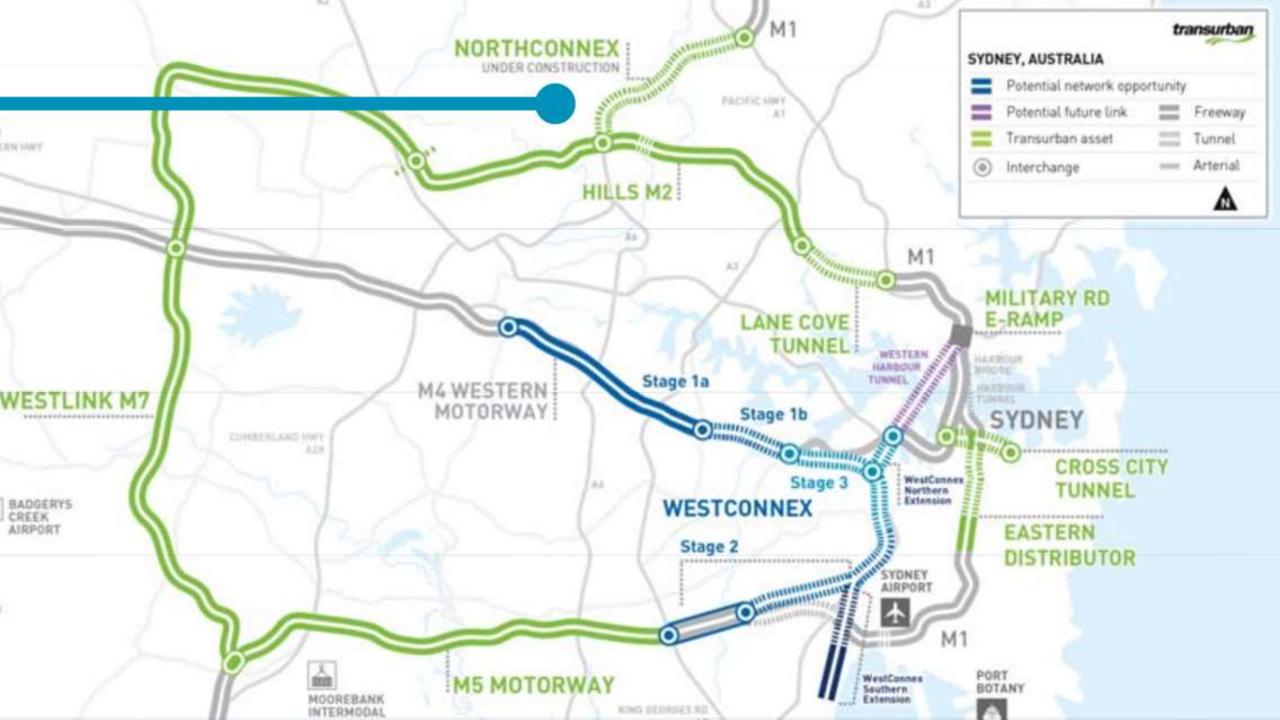














### SYDNEY NETWORK

#### NORTHCONNEX

- Construction proceeding on time and budget
- Land acquired and works underway at all tunnelling sites
- Total project cost is approximately \$3.0 billion, including Government's contribution
- M7 truck toll currently

   1.89 times car toll and will reach 3 times car toll by 1
   January 2017
- Expected project completion late 2019



## OPERATIONAL ENHANCEMENT

 Increase in recoveries following implementation of GLIDe on LCT, M7 and Roam in July 2015, in addition to ongoing process improvements

## POTENTIAL FUTURE DEVELOPMENT

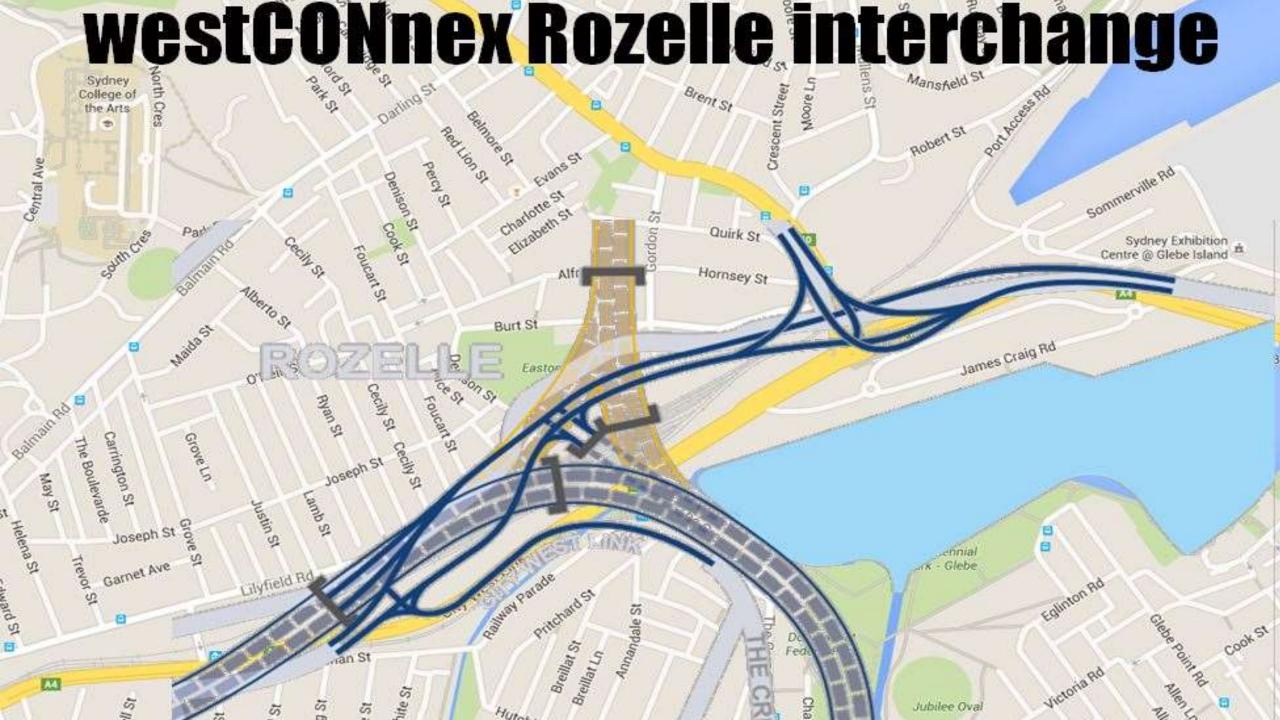
- Prepared to assist the Government in delivery of road agenda
- Potential for significant network expansion over medium term

Figure 5-3 Volume to capacity ratios on the network with WestConnex. 2031 morning peak

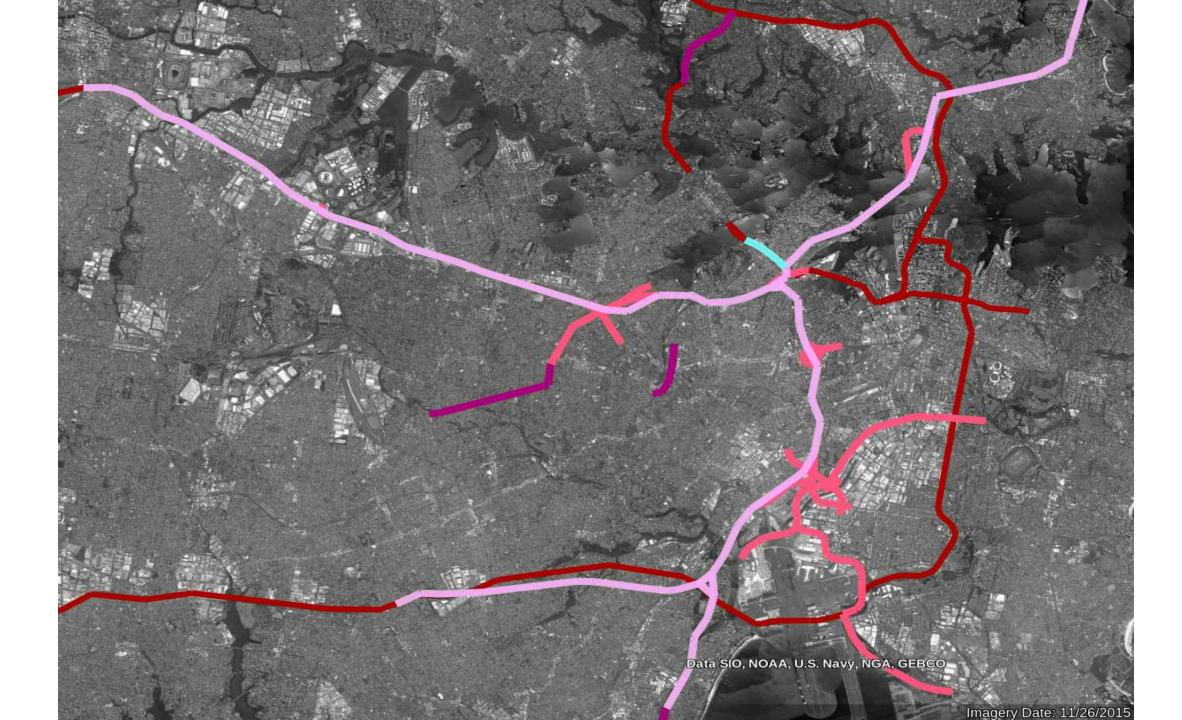


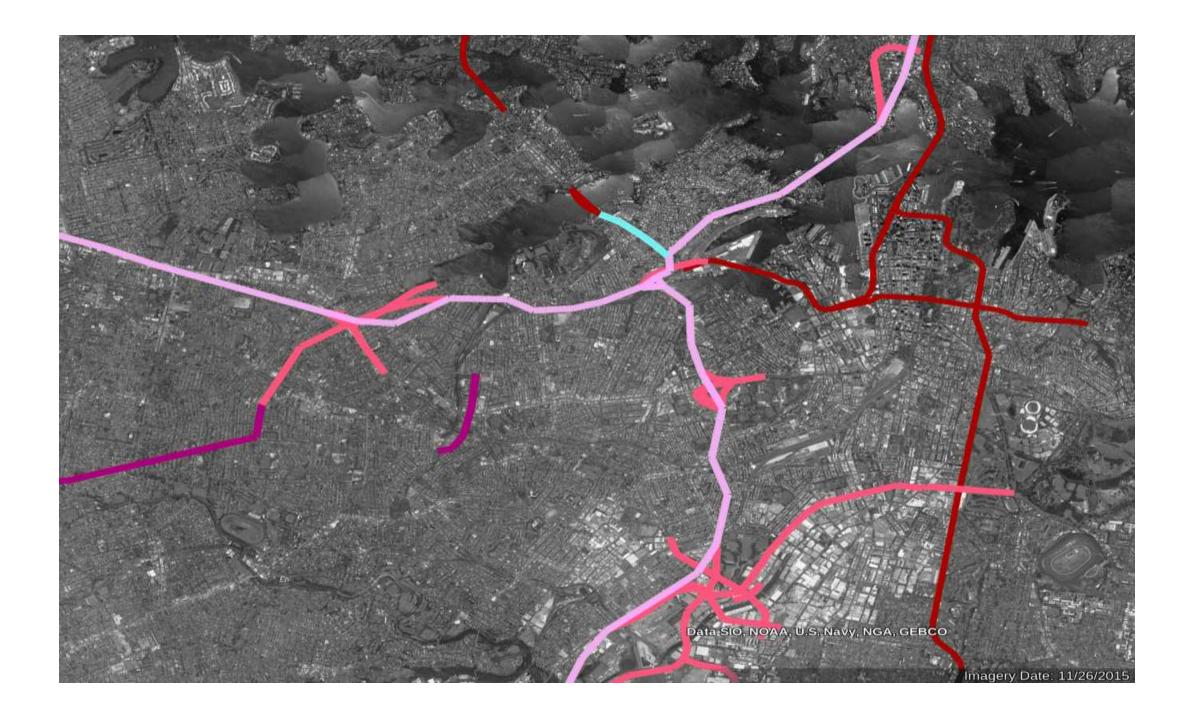
Figure 7-1 Link volume to capacity ratio on the network following WestConnex and Western Harbour Tunnel, 2031 morning peak







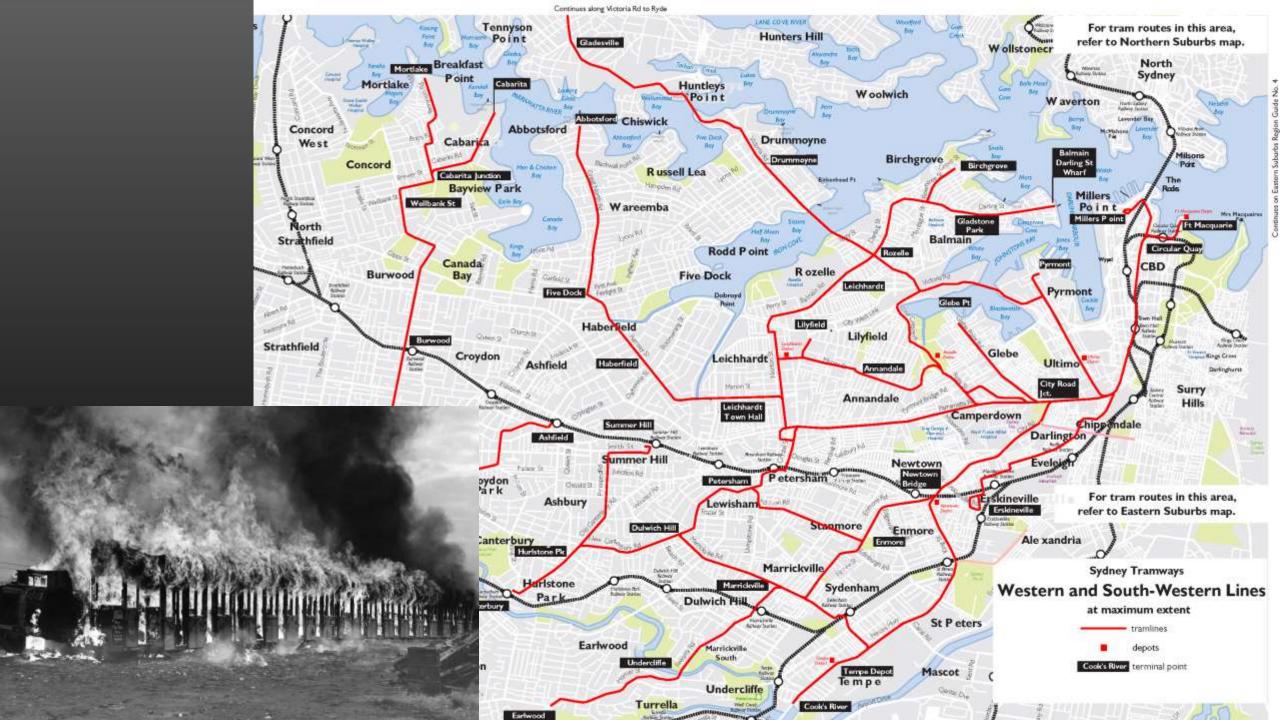






# Average Network Speed Drops from 34 km/h to 28 km/h

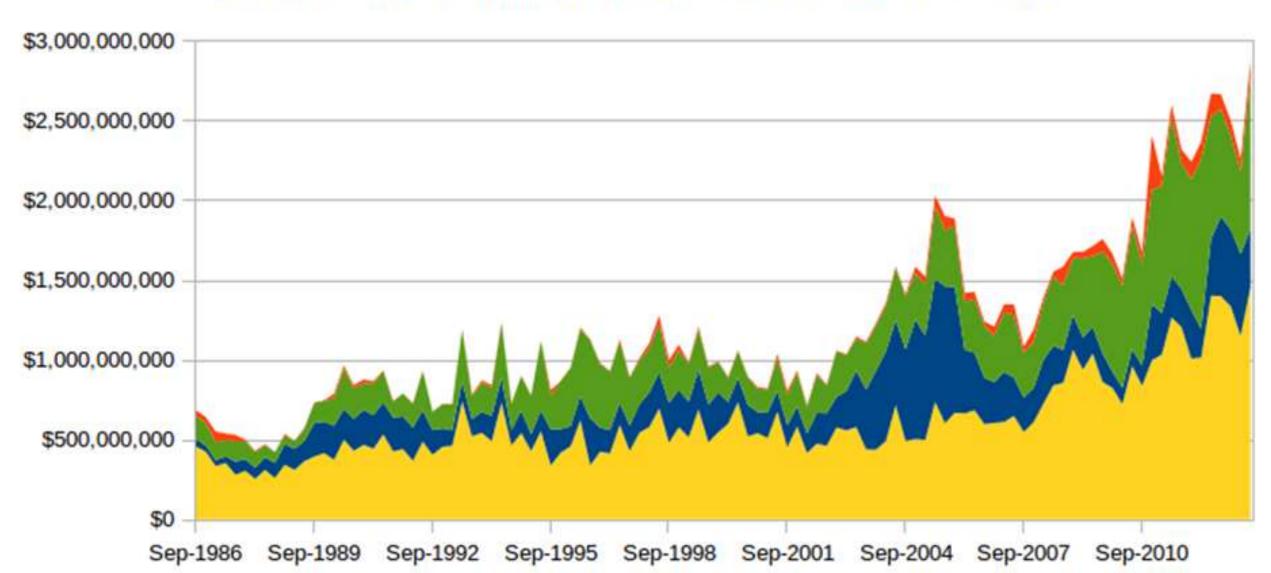
Origin	Destinatio n	2021 w/o Westconne x – Minutes	2021 w/ Westconne x – Minutes	Tranit 131500.info - Minutes
Penrith	CBD	114	92	62
Penrith	Surry Hills	117	89	58
Penrith	Airport	113	91	71
Parramatta	Strathfield	30	20	12
Parramatta	CBD	64	44	17
Parramatta	Airport	101	66	40
Strathfield	Surry Hills	45	30	14
Strathfield	Airport	66	44	28
Summer Hill	Broadway	27	24	24
Liverpool	Randwick	61	42	80
Liverpool	U Syd	61	43	65

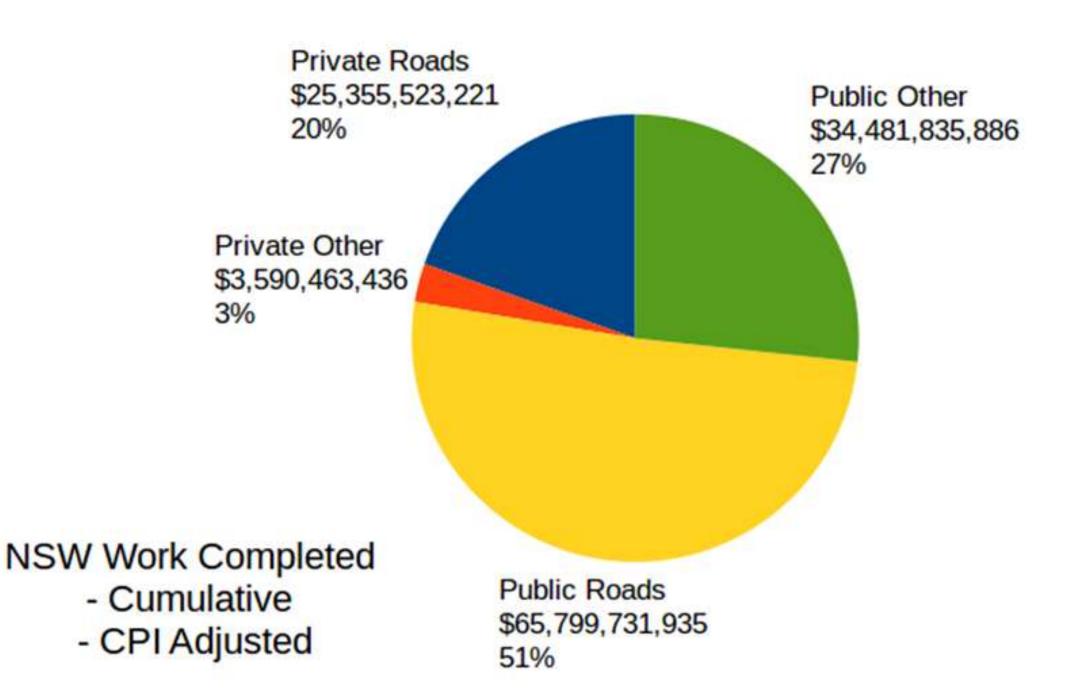


# You Get What You Pay For

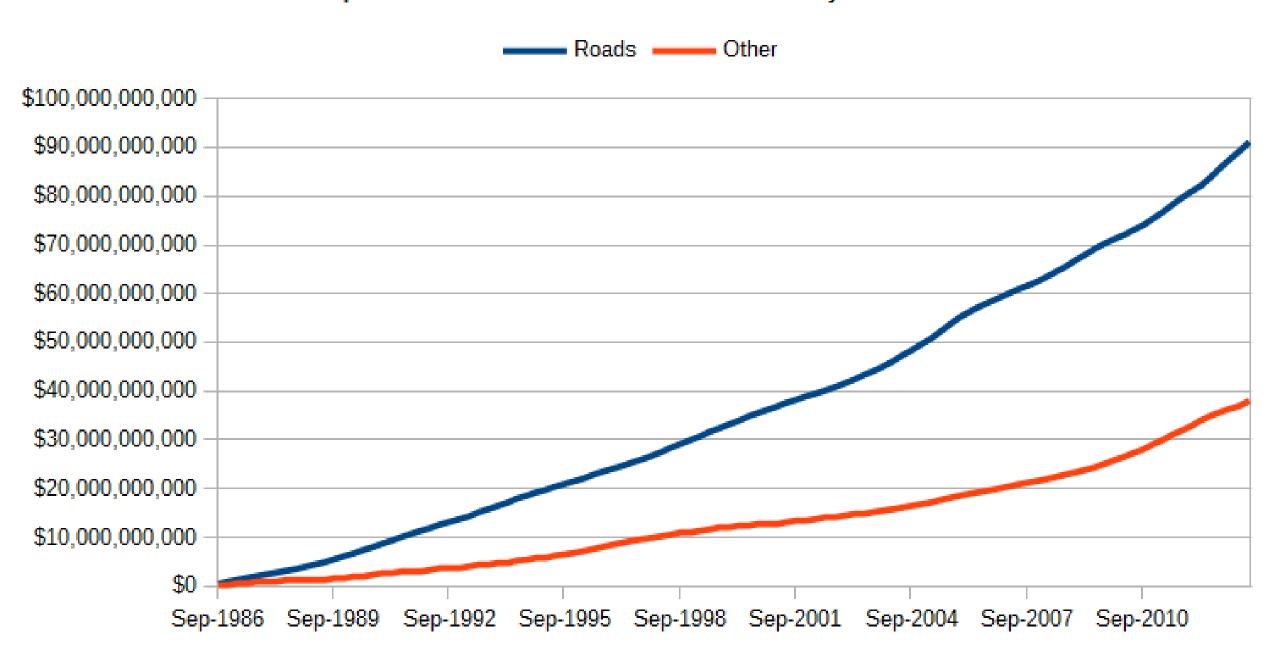
## Work Completed - CPI Adjusted

■ Public Roads ■ Private Roads ■ Public Other ■ Private Other





### NSW Work Completed - Cummulative - CPI Asjusted - Private + Public

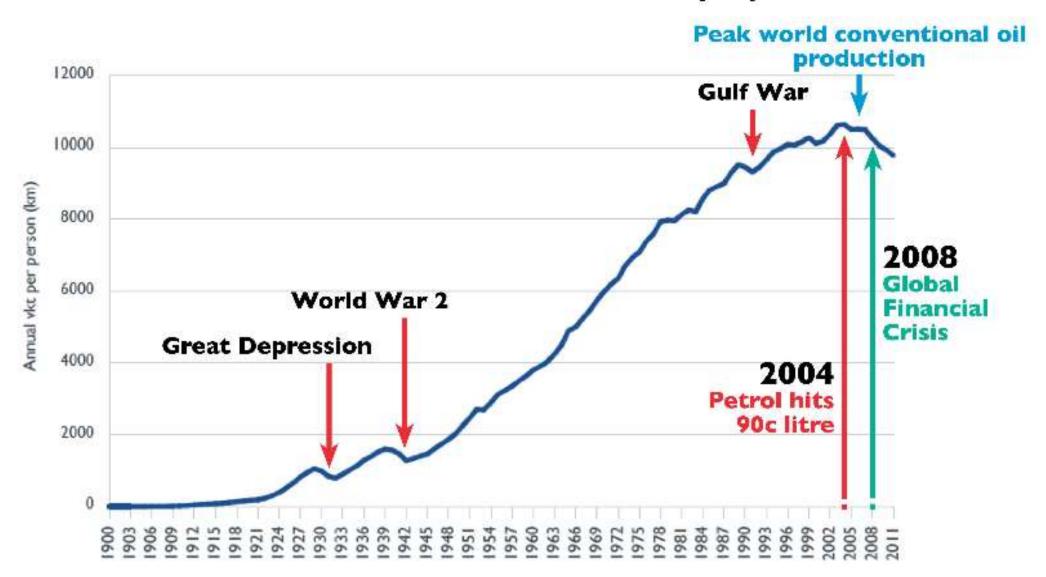


## In the last decade... **GROWTH IN** bus & train travel surpasses 23% car 16% 6%

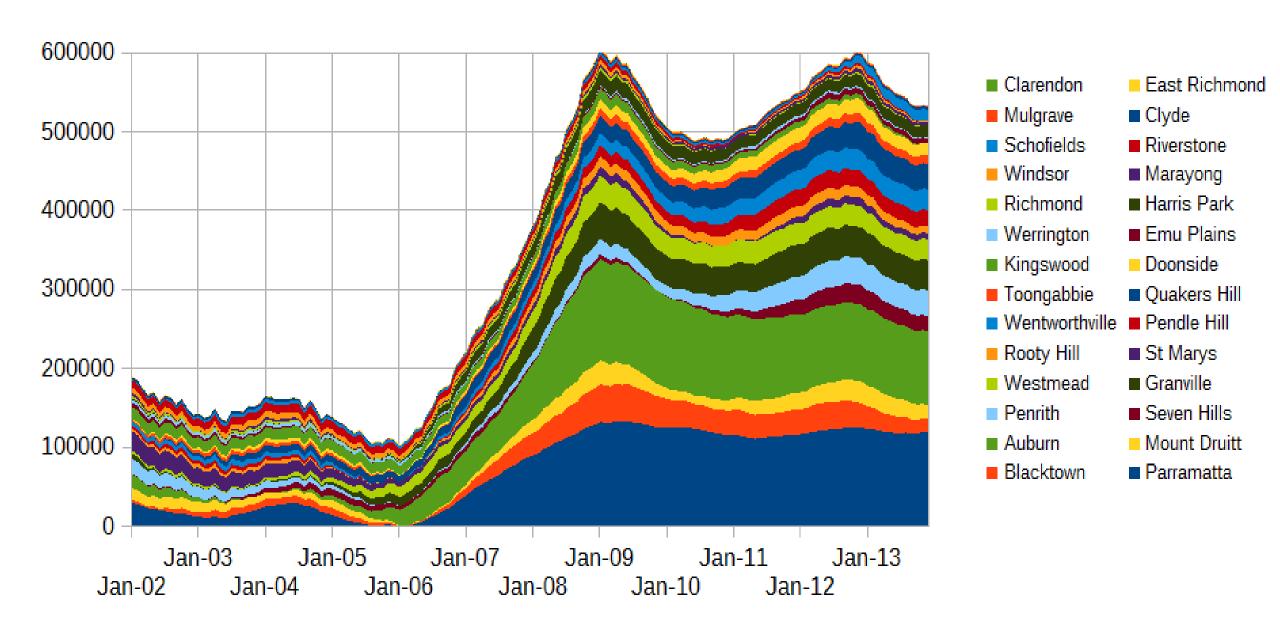
#### Key changes over the last decade Growth by mode **13%** £ 24% Population Train trips **↑**7% 19% Weekday trips Bus trips **10%** £ 5% Weekend trips Vehicle trips Total public 23% £ 21% Vehicles transport

Household Travel Survey Report: Sydney 2012/13

#### Australian trend in vehicle kilometres travelled per person



### Change in Monthly Patronage (12 month Average) Western Line





High Capacity Transport

## Capcity vs Cost

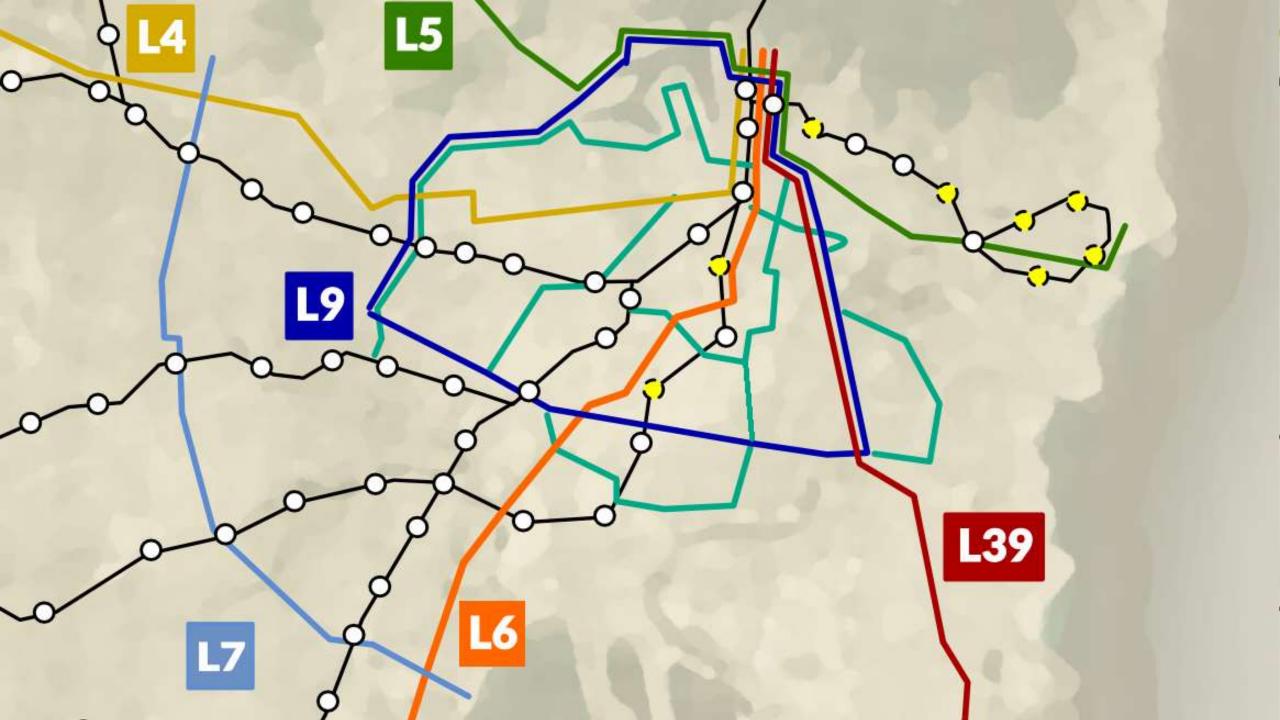
Туре	Persons	Persons/Lane/Hour
Private Car	1.2	2,400 (Actually 1,440)
Bus	50	1,500
Articulated (Bendy) Bus	100	3,000
Light Rail 45m	250	7,500
North West Rail Link Train	900	27,000
Sydney Train	1,200	36,000

Туре	Km
Light Rail Extension	\$40,000,000
Underground Railway Tunnel	\$250,000,000
Surface Toll Road	\$90,000,000
Twin 3 Lane Toll Road Tunnel	\$500,000,000

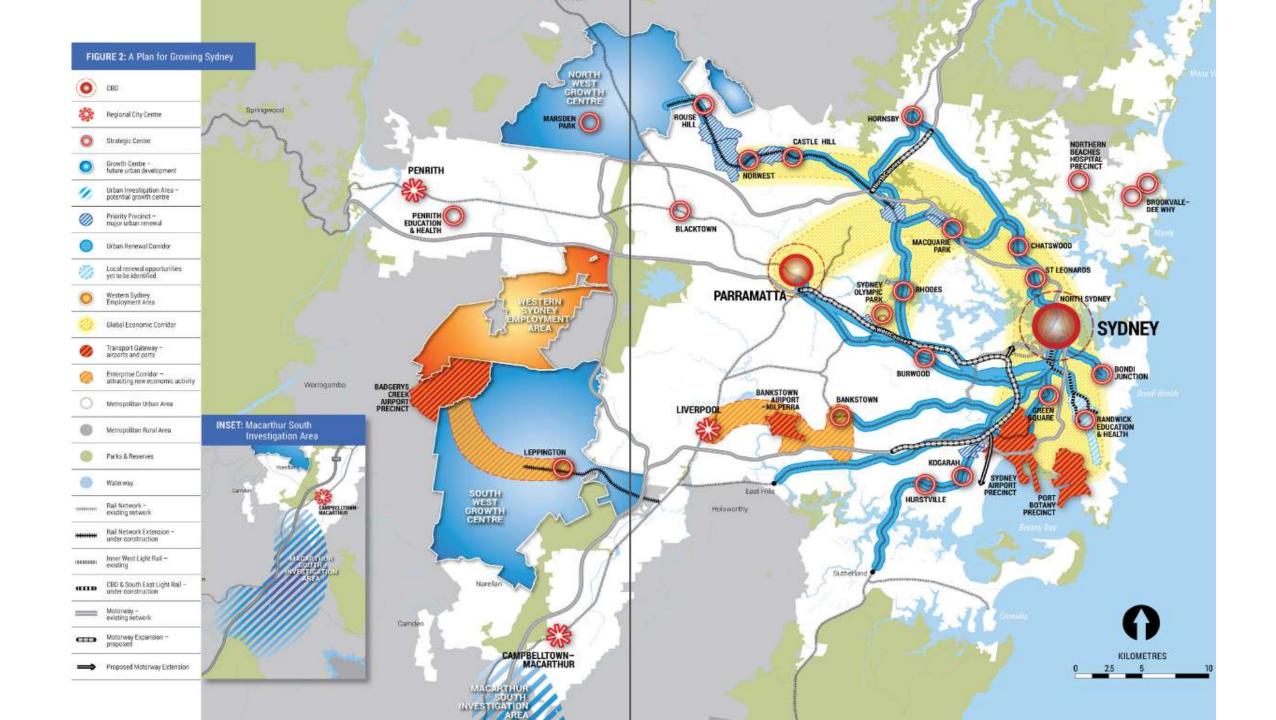














## **Expectations**

### Extra Persons per Precinct:

- Parramatta Road corridor 80,000
- ► Bays Precinct 36,000
- ► Evenleigh 50,000+
- ► Waterloo 40,000
- Green Square 50,000
- ► Mascot 20,000+
- ► Olympic Park 20,000+
- ► Parramatta 20,000+
- ► Granville ?

## Westconnex







