



Community forum

16 March 2011

Grafton Community Centre

Afternoon: 1pm to 3pm

Evening: 6pm to 8pm

- Welcome and housekeeping
- Introducing the project team
 - Bob Higgins – RTA Project Director
 - Chris Clark – RTA Project Manager
 - Denise Wilson – Facilitator
 - Reece Humphreys – Transportation Consultant
- Q&A Process –aimed at ensuring everyone gets a chance to be heard.

Introductions and Welcome - Denise Wilson

Heavy Vehicle Study introduction - Reece Humphreys

Heavy Vehicle Study results - Reece Humphreys

Project Objectives - Chris Clark

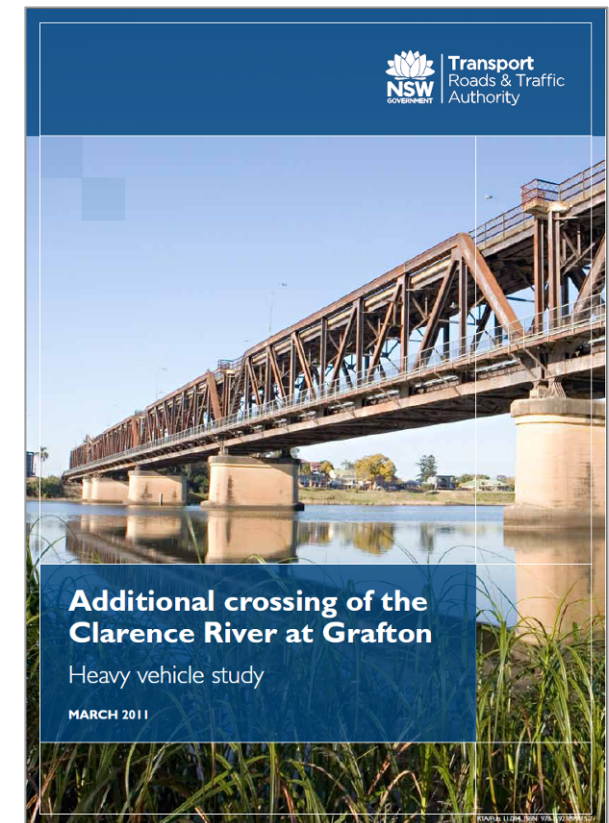
Short-listing of community suggestions - Chris Clark

Feedback from 3 March Forum - Chris Clark

Close - Refreshments and general discussions with project team

Heavy Vehicle Study and Traffic

- Background studies and traffic data
- How will this information be used in this project?
- Heavy Vehicle Study is available on the project website
- Executive summary on seats



Heavy Vehicle Study and Traffic

- GTA Consultants have been commissioned to undertake the traffic studies for the project
- GTA Consultants have been completing studies for both RTA and Clarence Valley Council for the last 5 years
- Reece Humphreys from GTA Consultants is here tonight to discuss the Heavy Vehicle Study

How will this information be used in the project?



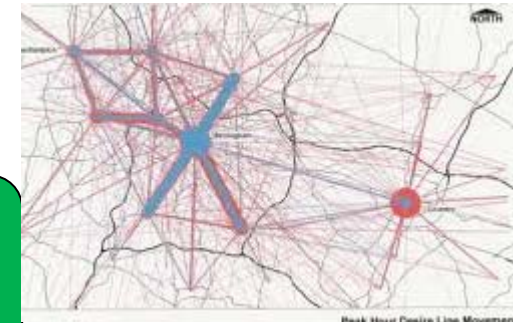
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Background Review of
existing data

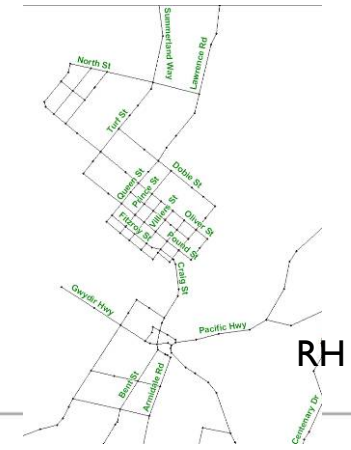
Undertake Additional
Surveys (i.e. HV Study) to
supplement previous data



Identify Travel
Patterns



Input into Strategic
Modelling



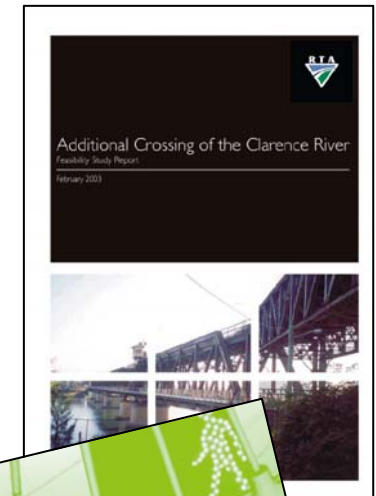
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Traffic Data Summary

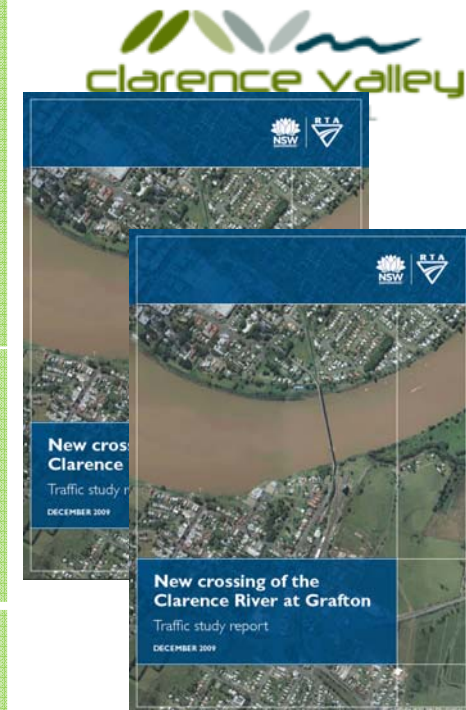


Survey Date	Source	Data Collected
2000/2001	Additional Crossing of the Clarence River, Feasibility Study Report, February 2003, RTANSW	Turning Movement Count Data at key intersections surrounding the bridge.
2007 / 2008	Surveys as part of the South Grafton Traffic Study	Turning Movement Data



Traffic Data Summary

Survey Date	Source	Data Collected
2006-2009	Traffic Volume data supplied by Clarence Valley Council	Two-way daily traffic volume data (numerous sites)
2009	Surveys as part of the Grafton Bridge Traffic Study	Turning movement counts Origin and destination counts in Grafton and South Grafton
2010	Grafton Heavy Vehicle Study	Origin and Destination counts, classified tube count data and questionnaire survey



Heavy Vehicle Study Objectives

To obtain an understanding of the existing:

- heavy vehicle demands across the Clarence River
- points of origin and destination both internal and external to Grafton and South Grafton
- travel patterns over a daily and weekly period
- traffic volumes and classification
- industrial business districts generating heavy vehicles
- Bus movements and utilisation



Heavy Vehicle Study Methodology

Origin and
Destination
Surveys



Vehicle
travel
data



Classified
tube counts

Questionnaire
of Heavy
Vehicle
companies



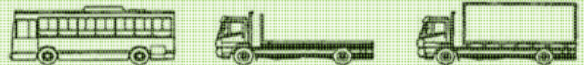









Vehicle Classification

Light Vehicles



Heavy Vehicles

Vehicle Description	Class	Typical Configuration
Light Vehicles		
Short	1	
Short - Towing	2	
Heavy Vehicles		
Two Axle Truck or Bus	3	
Three Axle Truck or Bus	4	
Four Axle Truck	5	
Three Axle Articulated	6	
Four Axle Articulated	7	
Five Axle Articulated	8	
Six Axle Articulated	9	
B Double	10	



ORIGIN AND DESTINATION SURVEYS

Origin and Destination Surveys

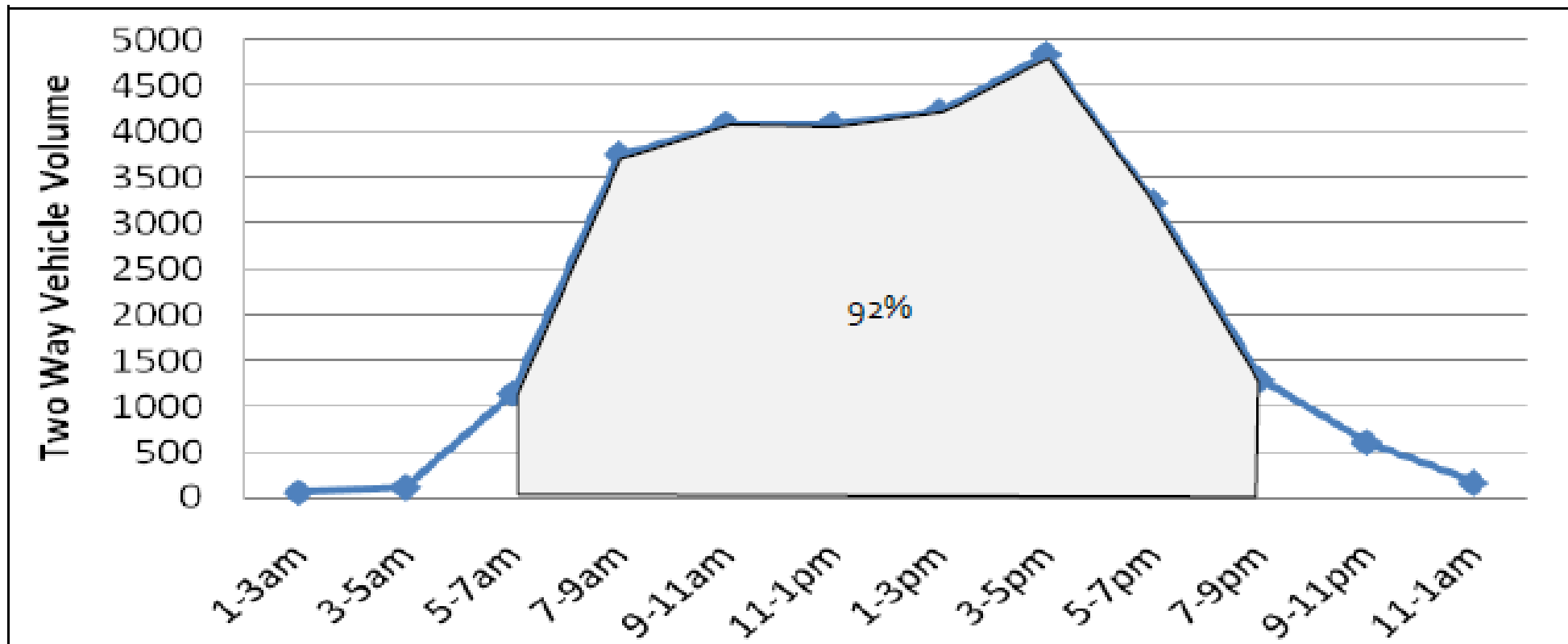


- Surveys completed using video cameras on Thursday 19th August, 2010 between 5am - 7pm
- Number plates of each vehicle passing each camera were recorded
- Vehicles were classified by type
 - light vehicles and
 - heavy vehicles
- Vehicles matched against other stations to determine their origins and destinations



Origin and Destination Surveys

Surveys represented 92% of the total traffic crossing the Grafton Bridge on the day of the survey.

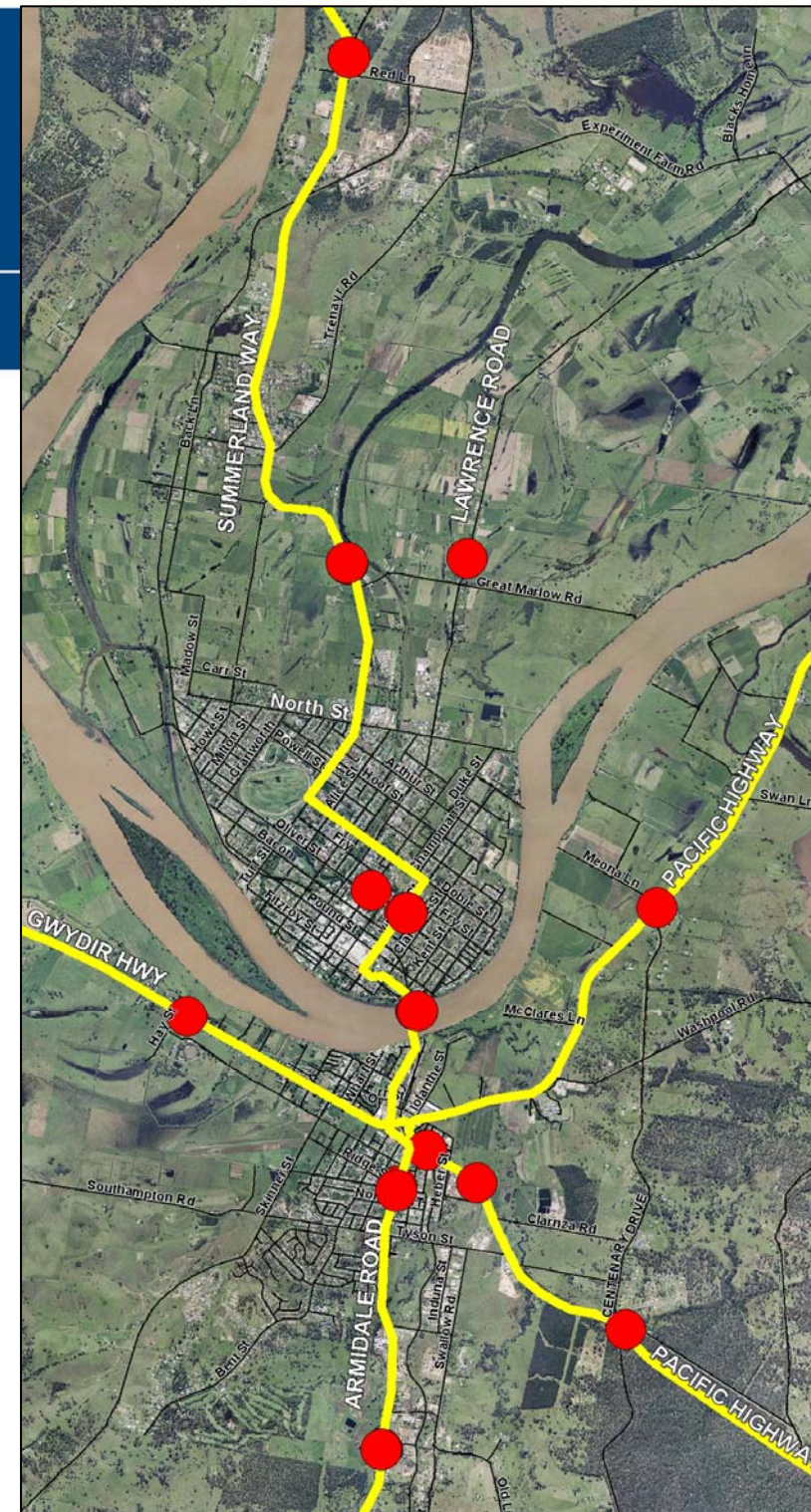


Origin and Destination Surveys

13 Survey Locations

Locations were chosen to separate the local and regional network including heavy vehicle generating precincts such as industrial and commercial land uses.

Weather on the survey day was fine.

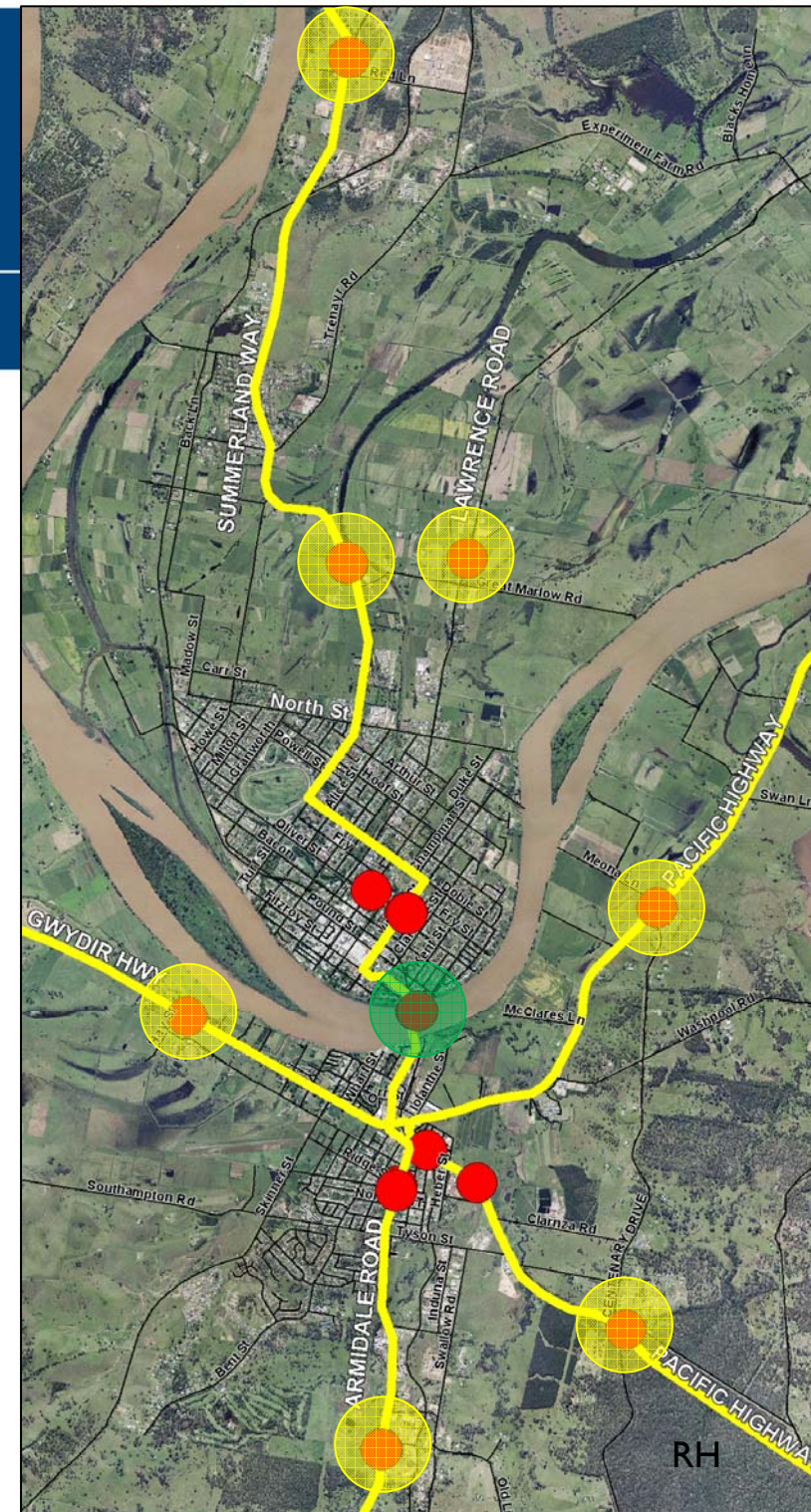


Origin and Destination Surveys

External to External Trips

External to External trips are trips that travel:

- From an External station (Yellow)
- Across the Grafton Bridge (Green)
- To another External station (Yellow)



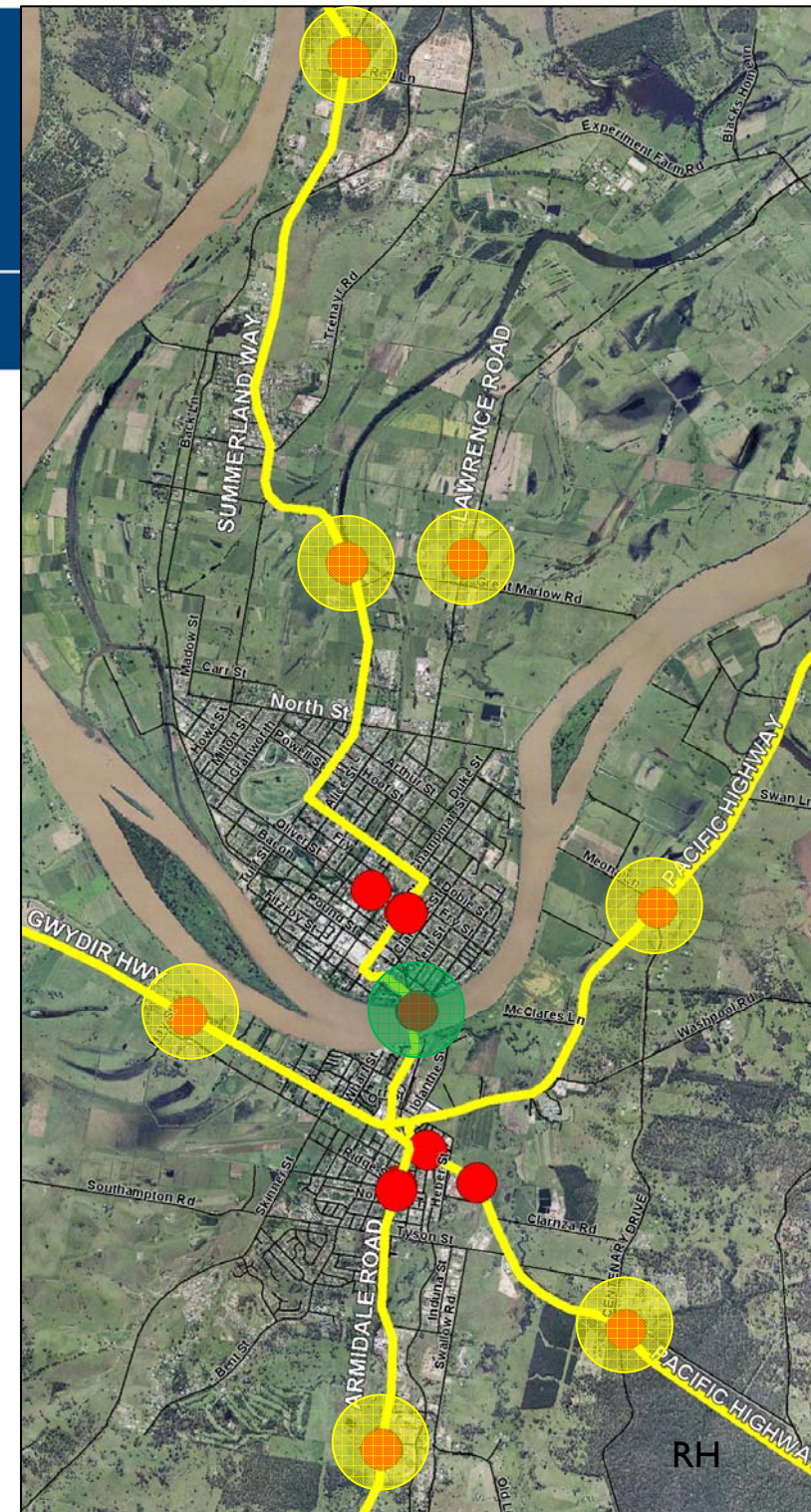
Origin and Destination Surveys

External to Internal Trips

External to internal trips are trips that travel:

- From an external station (Yellow)
- Across the Grafton Bridge (Green)
- That are NOT matched
- At another external station (Yellow)

Internal to External trips are the reverse of the above



Origin and Destination Surveys

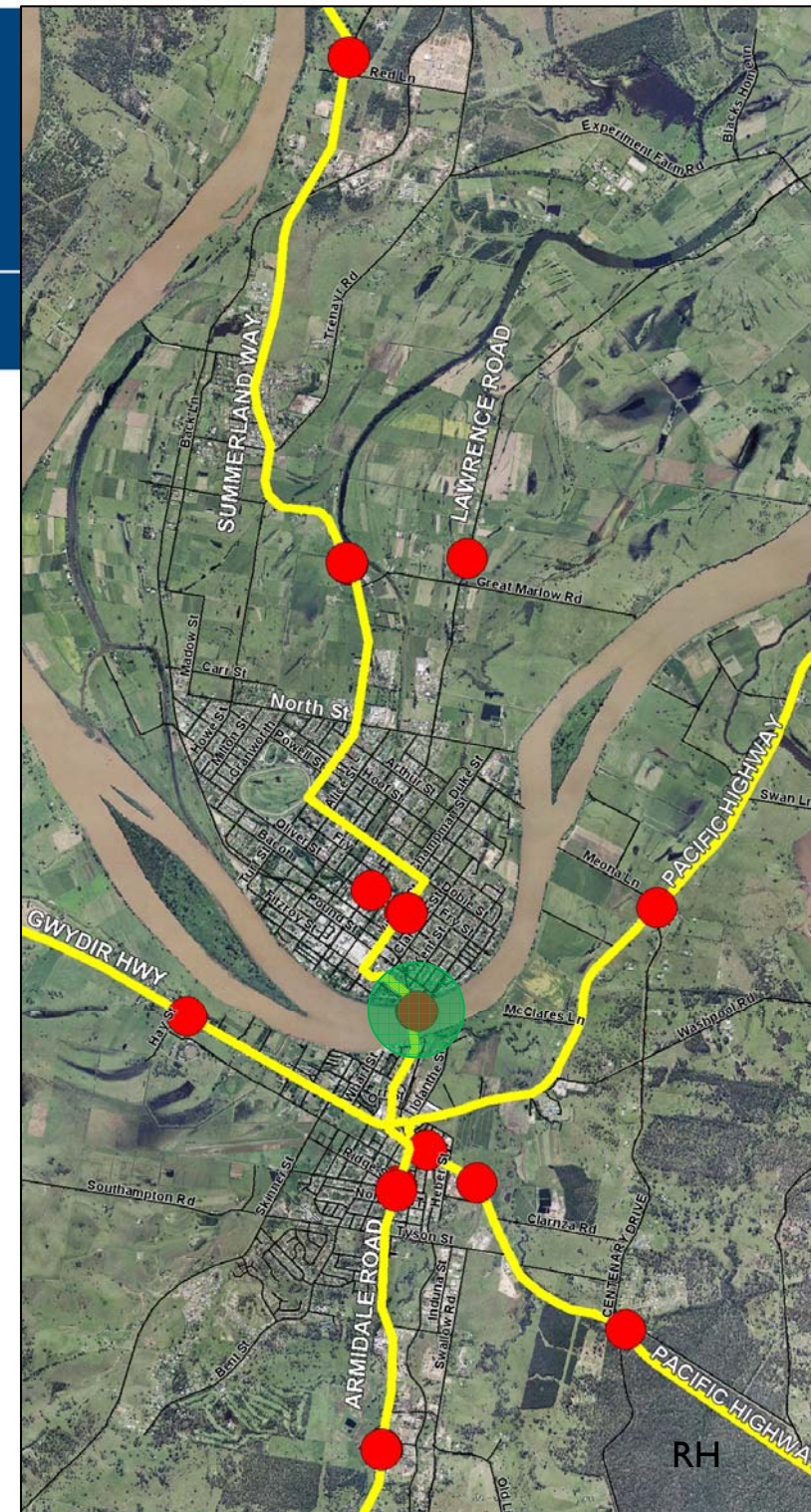
Internal to Internal Trips

Internal to internal trips are calculated as:

- Total Trips Crossing Grafton Bridge (Green)

LESS

- Internal to external trips
and
- External to external trips

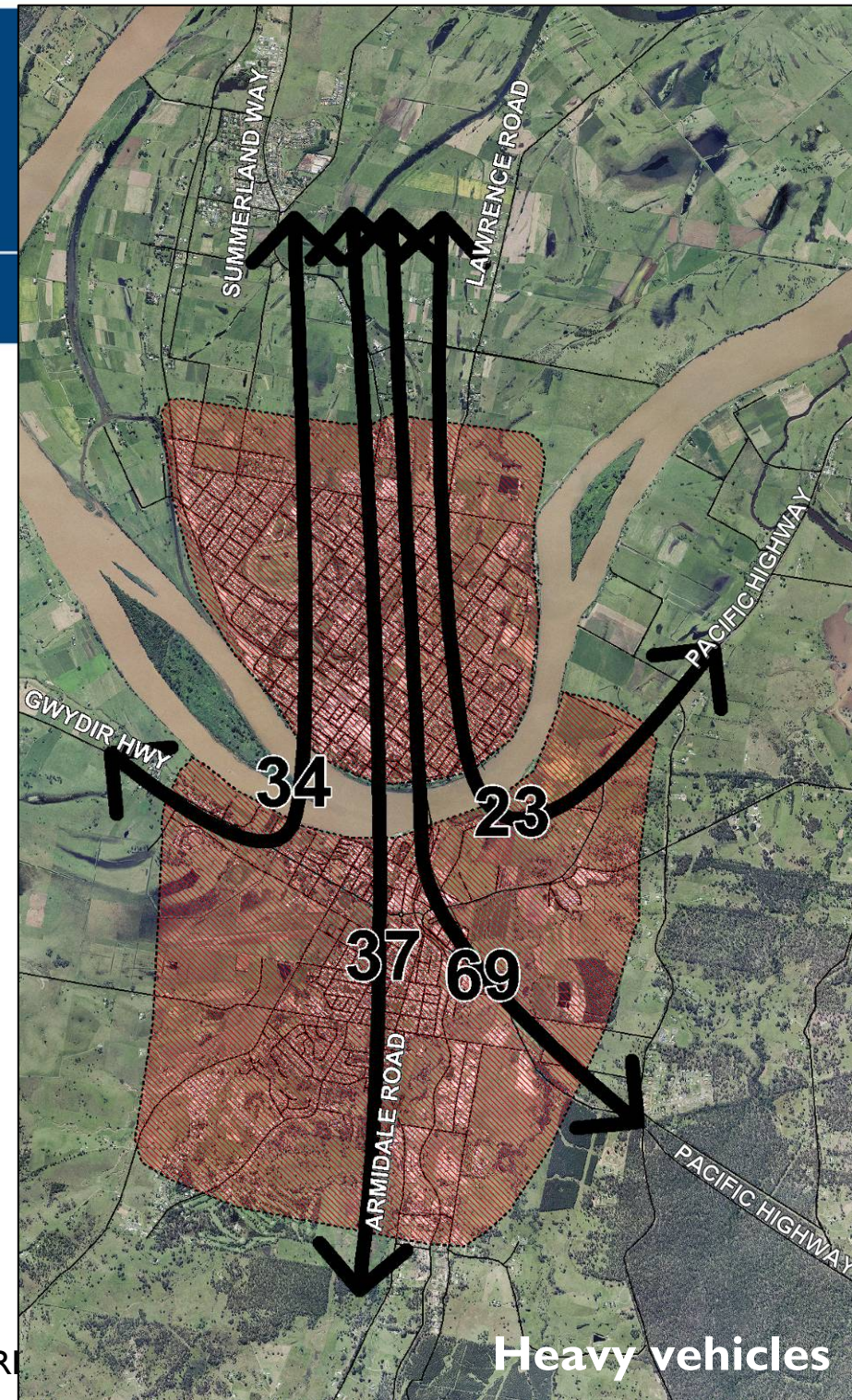


Origin and Destination Surveys

External to External Trips

Number of Heavy vehicle trips on the 19th August 2010 (5am-7pm) crossing the Grafton Bridge that do not have an origin and/or destination in Grafton or South Grafton

Vehicle Type	No. vehicles	% of vehicles crossing bridge
All	728	3
Heavy	163	12

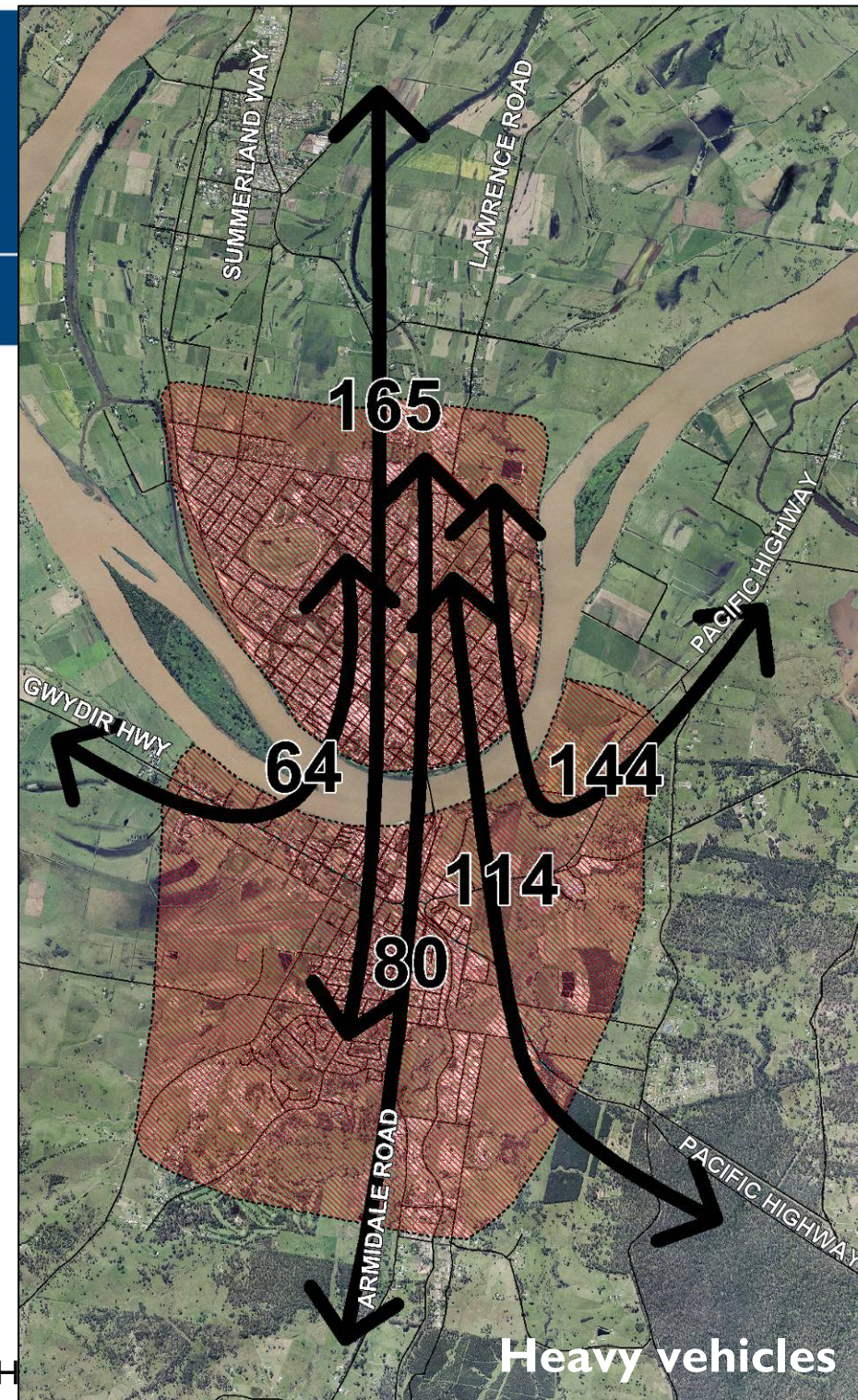


Origin and Destination Surveys

External to Internal Trips

Number of Heavy vehicle trips on the 19th August 2010 (5am-7pm) crossing the Grafton Bridge that have an origin and/or destination in Grafton or South Grafton

Vehicle Type	No. vehicles	% of vehicles crossing bridge
All	10,360	39
Heavy	567	41



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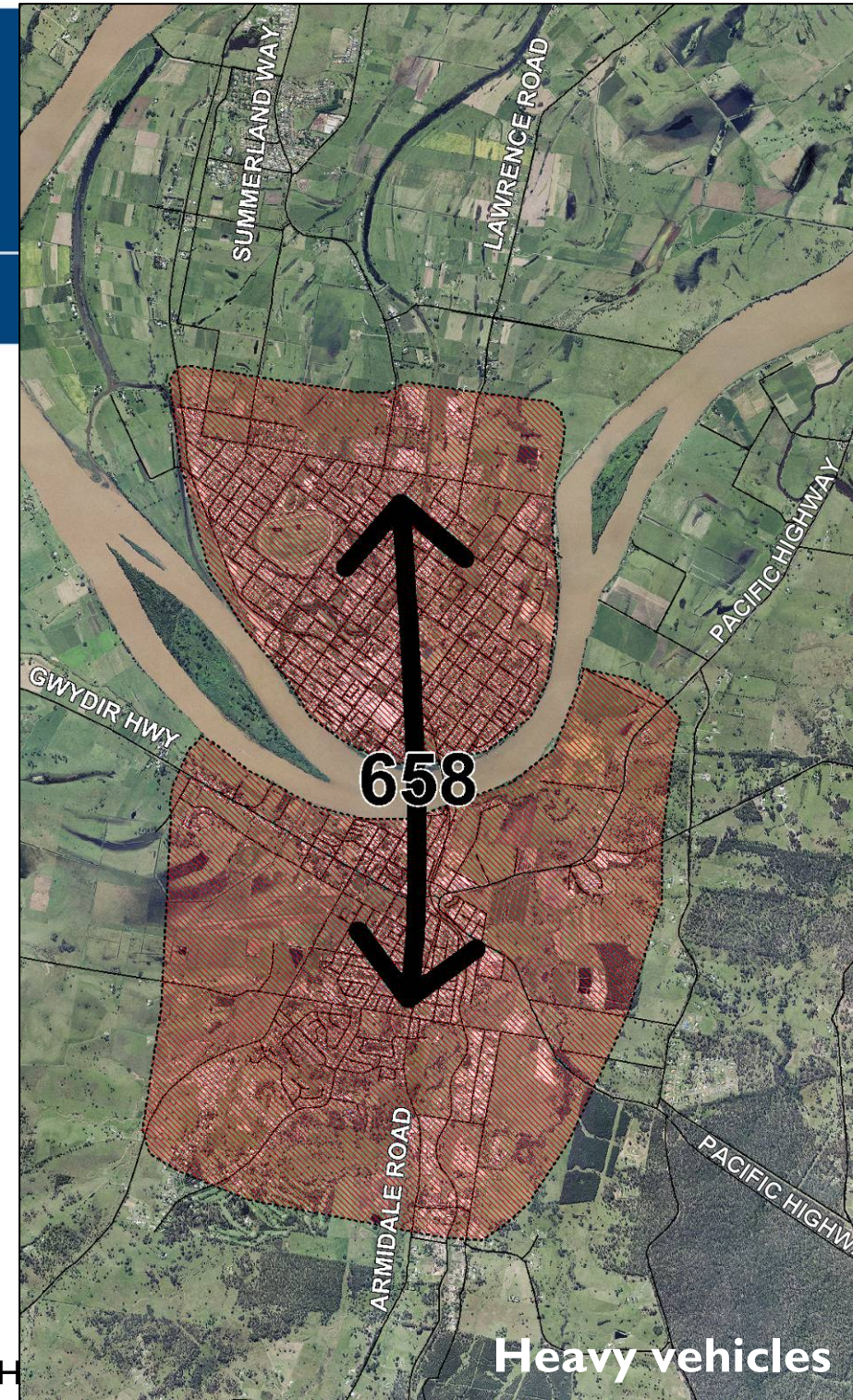
Heavy vehicles

Origin and Destination Surveys

Internal to Internal Trips

Number of Heavy vehicle trips on the 19th of August 2010 (5am-7pm) crossing the Grafton Bridge that travel between Grafton and South Grafton

Vehicle Type	No. vehicles	% of vehicles crossing bridge
All	15,466	58
Heavy	658	47



Grafton Bridge Traffic (Heavy Vehicles)



Heavy Vehicles Crossing Grafton Bridge on 19th August 2010 (5:00am-7:00pm)

Trip Type	Matched Heavy Vehicles	Percentage of Total (%)
external to external (through trips)	163	12%
external to internal (Grafton / South Grafton)	567	41%
internal – internal (Grafton to / from South Grafton)	658	47%
Total	1,388	100%

Grafton Bridge Traffic (All Vehicles)



All Vehicles Crossing Grafton Bridge on 19th August 2010 (5:00am-7:00pm)

Trip Type	Matched Vehicles	Percentage of Total (%)
external to external (through trips)	728	3%
external to internal (Grafton / South Grafton)	10,360	39%
internal – internal (Grafton to / from South Grafton)	15,466	58%
Total	26,554	100%

Comparison between 2010 and 2009 survey data



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Trip Type	August 2010 Survey	March 2009 Survey
external to external (through trips)	3%	2%
external to internal (Grafton / South Grafton)	39%	53%
internal – internal (Grafton to / from South Grafton)	58%	45%
Total	100%	100%

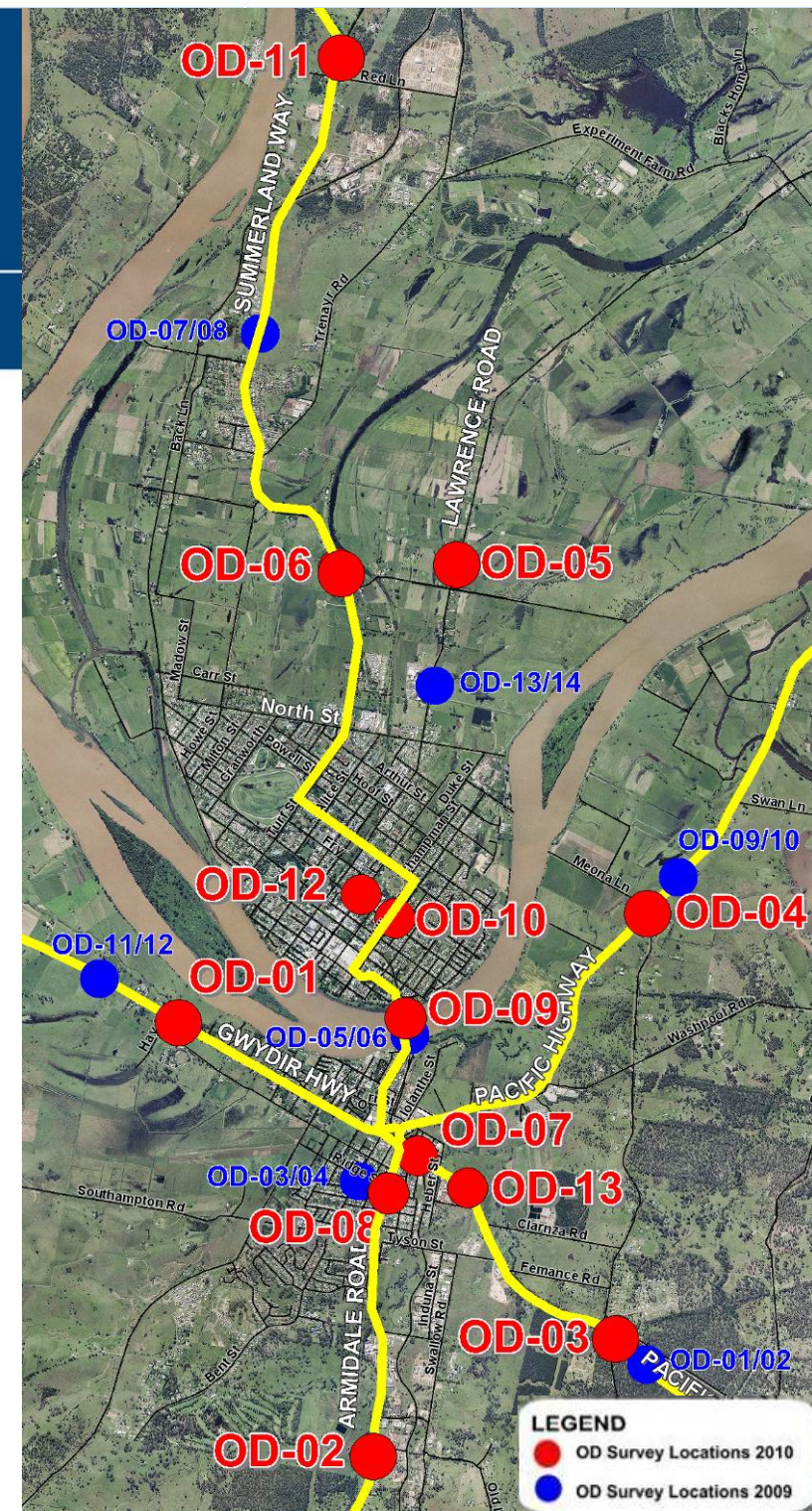
Comparison between 2010 and 2009 survey data

August 2010 Survey

- 13 locations
- 7 external stations
- 6 internal stations
- wider geographical coverage
- 14 hour survey period

March 2009 Survey

- 7 locations
- 6 external stations
- 1 internal station (Grafton Bridge)
- smaller geographical coverage
- six hour survey period



Key findings for heavy vehicles crossing the bridge include:

- 1388 heavy vehicles crossed the Grafton Bridge on the day of the survey between 5am and 7pm (two way)
- 88% of heavy vehicles crossing the Grafton Bridge have a destination or origin in Grafton or South Grafton
- 26,554 vehicles crossed the Grafton Bridge on the day of the survey between 5am and 7pm (two way)
- 97% of all vehicles crossing the Grafton Bridge have a destination or origin in Grafton or South Grafton

Questions on the Origin and Destination Surveys?



CLASSIFIED TUBE COUNT SURVEYS



- Surveys completed using tube counters at various locations between the 19th and 26th August, 2010
- Vehicles recorded by direction and vehicle type
- Vehicles were classified by type
 - light vehicles and
 - heavy vehicles

Classified Tube Counts

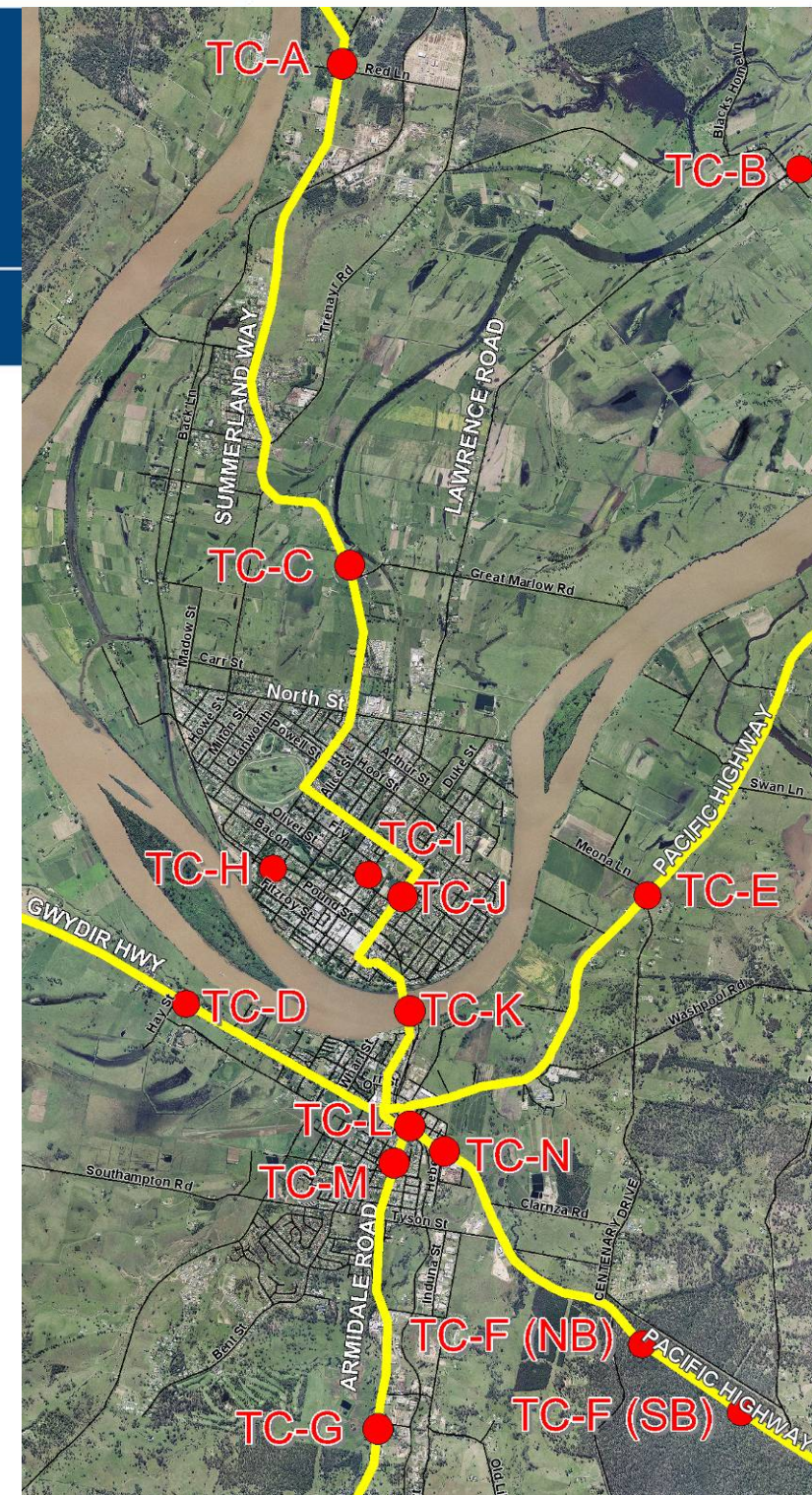
14 tube count locations
between 19th and 26th August
2010

Surveys aim to supplement Origin Destination
information

Weather throughout the survey period was fine



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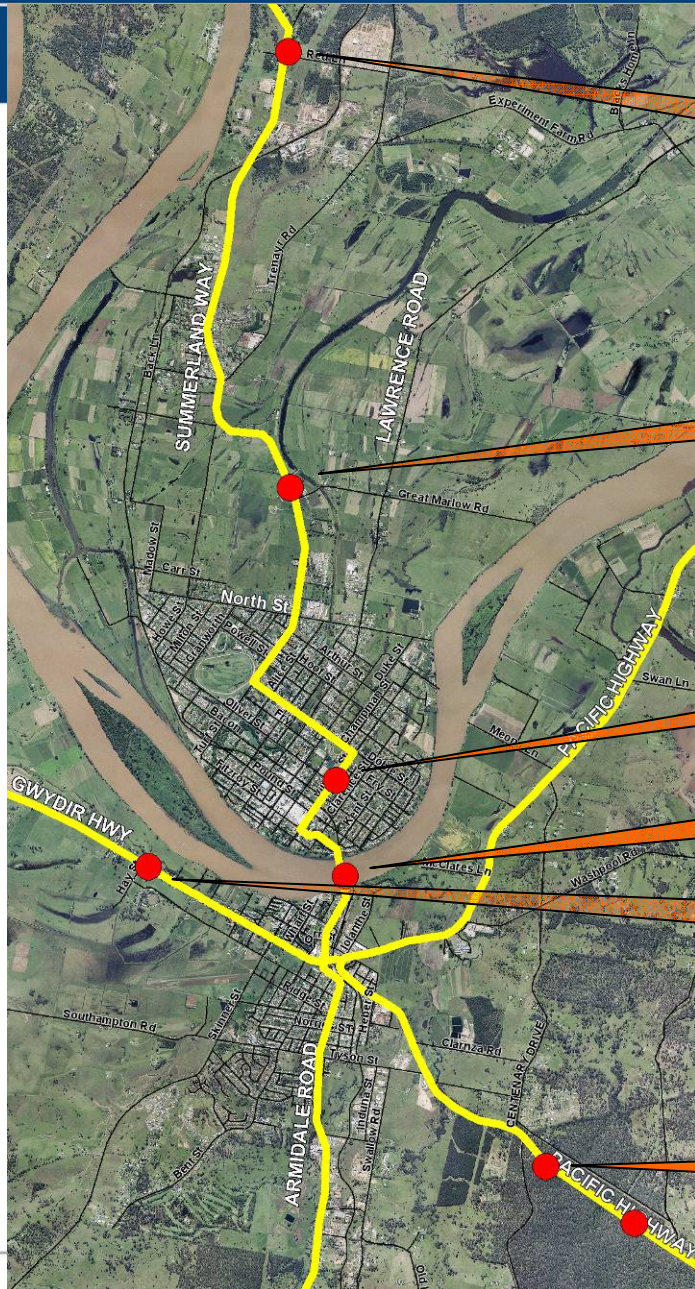


Classified Tube Counts (19-26 August 2010)

Weekday average



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Summerland Way north of Junction Hill
380 heavy vehicles per day

Summerland Way north Butterfactory Lane
610 heavy vehicles per day

Villiers Street
780 heavy vehicles per day

Grafton Bridge
1,390 heavy vehicles per day

Gwydir Highway
443 heavy vehicles per day

Pacific Highway
2,200 heavy vehicles per day

Classified Tube Counts (19-26 August 2010)

Weekday average



Pound Street
270 heavy vehicles per day

Prince Street
300 heavy vehicles per day

Villiers Street
780 heavy vehicles per day

Grafton Bridge
1,390 heavy vehicles per day

Armidale Road south of Jubilee Street
630 heavy vehicles per day

Armidale Road south of Brickworks Lane
400 heavy vehicles per day

Some key findings of the classified tube counts are:

- The Grafton Bridge carries a weekday average of 27,580 vehicles per day (Mon – Fri)
- The total number of heavy vehicles crossing the bridge are 1,390 per weekday, representing 5% of the total traffic
- Heavy vehicle numbers on the Summerland Way north of Grafton are approximately 1000vpd less than on the Grafton Bridge
- Heavy vehicle numbers on the Grafton Bridge are approximately 900vpd less than on the Pacific Highway



TRANSPORT OPERATORS QUESTIONNAIRE SURVEY

Questionnaire Survey



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- Questionnaires sent to over 20 key industry owners and operators
- 8 owners and operators provided responses
- 5 bus operators were invited to complete the survey
- 3 responses provided
- Aimed to provide an understanding of issues not captured in OD and classified surveys

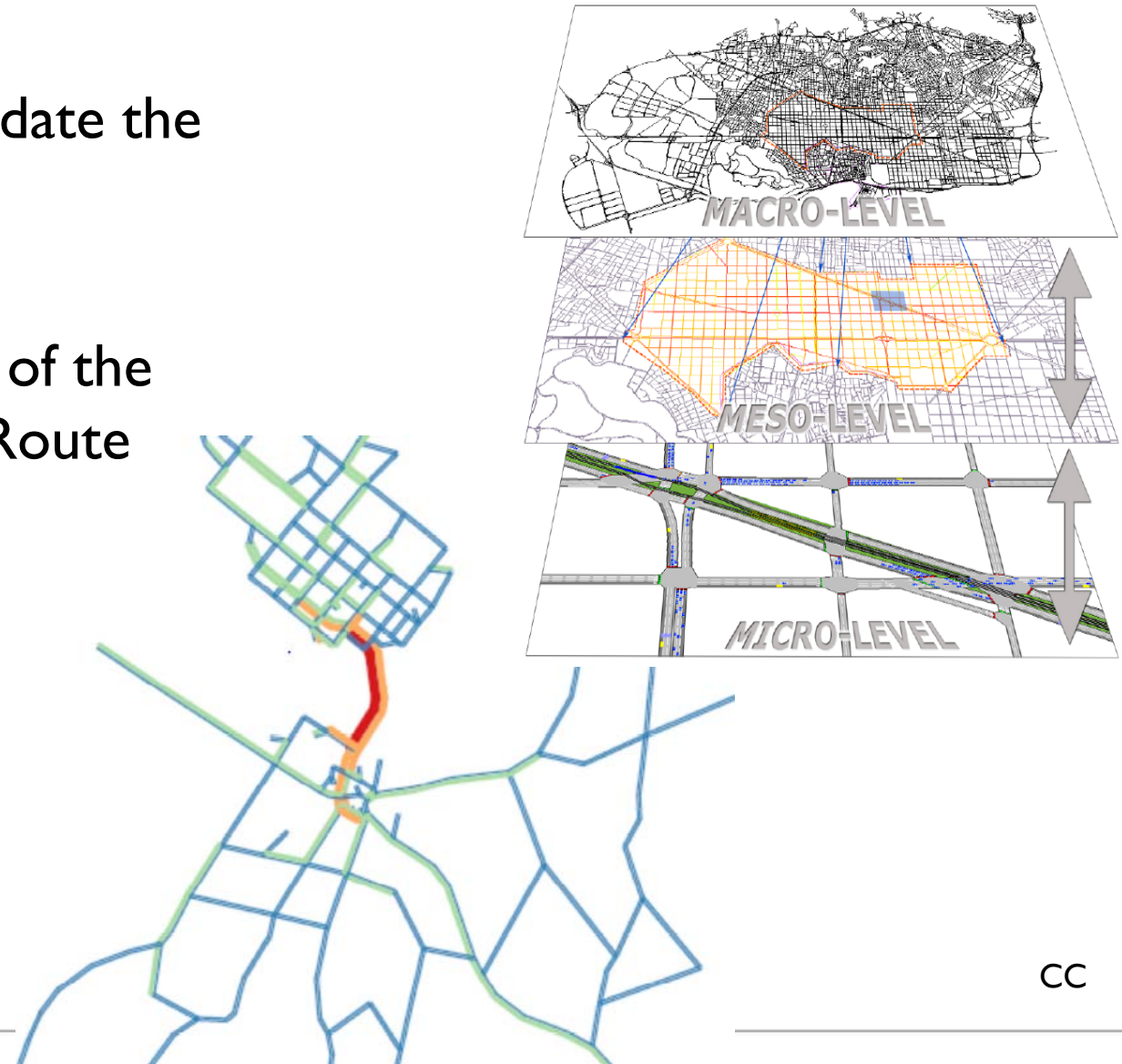


The questionnaire survey found:

- It was common to establish routes to avoid traffic congestion.
- Some deliveries are made outside of the peak periods
- The bridge curfew impacts on business operations (e.g. scheduling)
- Late running of services was noted due to bridge congestion
- Perceptions of lack of access to and from each side of the bridge in emergency situations

Information is being used to update the Strategic Traffic Model

The model will be used as part of the assessment of the Preliminary Route Options



Questions on the tube count and questionnaire surveys?

- If after reviewing the reports you have any feedback on the heavy vehicle study you can submit feedback via:
 - Email: graftonbridge@rta.nsw.gov.au
 - Project information line: 1800 633 332
 - Write to: Chris Clark
PO Box 546
Grafton NSW 2460
- The video and slides of this presentation will be available on the website in the upcoming weeks.

The project purpose and/or objectives are reported in the following documents:

- February 2003 - Feasibility Study Report
- November 2003 - Short listing of Localities Workshop Report
- January 2004 - Environmental Overview Report Volume I
- April 2004 - Corridor Evaluation Workshop Report (VM workshop)
- July 2005 - Draft Preferred Option Report
- January 2010 – Scope of Works and Technical Criteria
- February and December 2010 - Community Update

- Copies of project purpose and/or objectives available from the project team
- Community feedback on the project purpose and/or objectives can be discussed with the project team after this meeting or via:
 - Email: graftonbridge@rta.nsw.gov.au
 - Project information line: 1800 633 332
 - Write to: Chris Clark
PO Box 546
Grafton NSW 2460
- Project purpose and objectives will be reviewed based on feedback received

➤ Method 1:

- Assess all 41 suggestions,
- Identify short list of options
- Identify recommended preferred option

➤ Method 2:

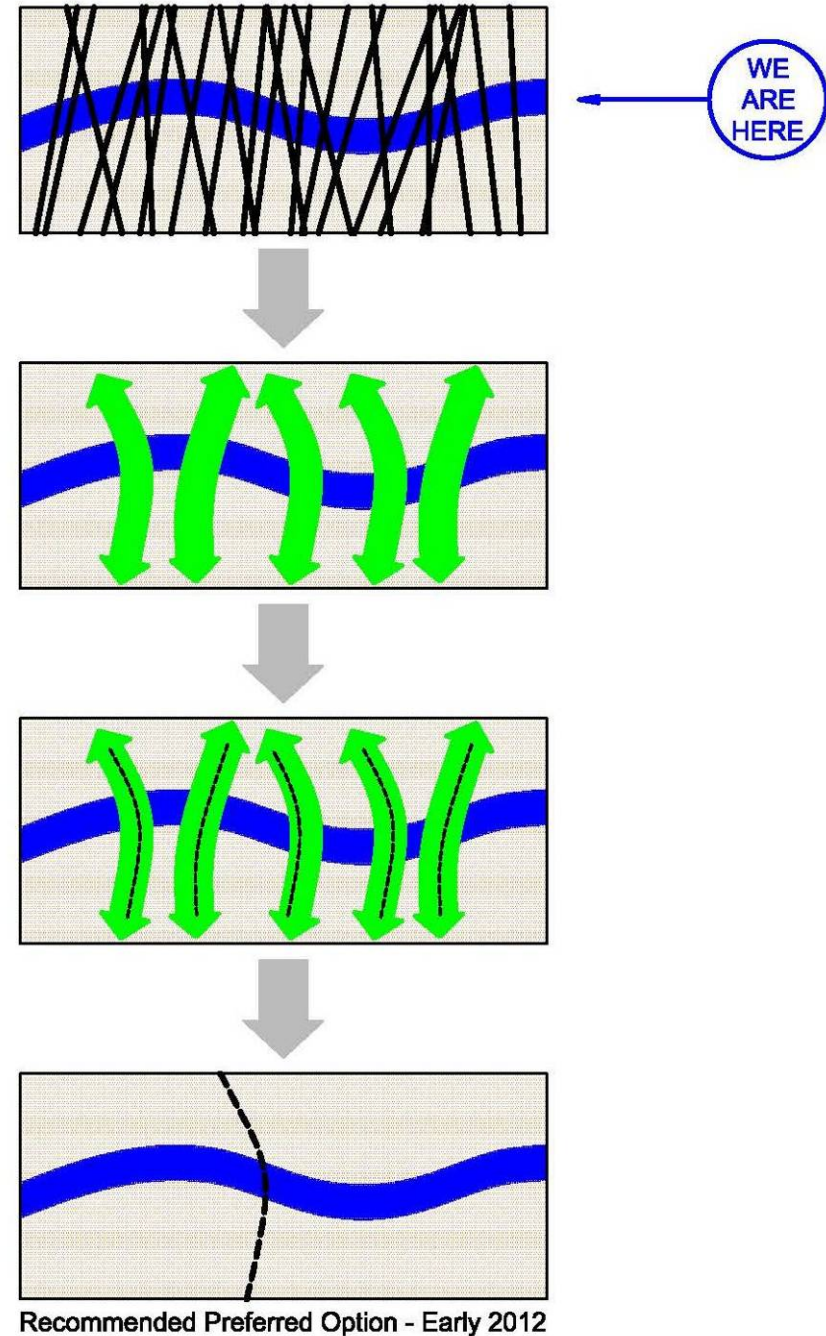
- Group suggestions into corridors and check feasibility of suggestions,
- Identify best option(s) within each corridor,
- Identify recommended preferred option

➤ Method 3:

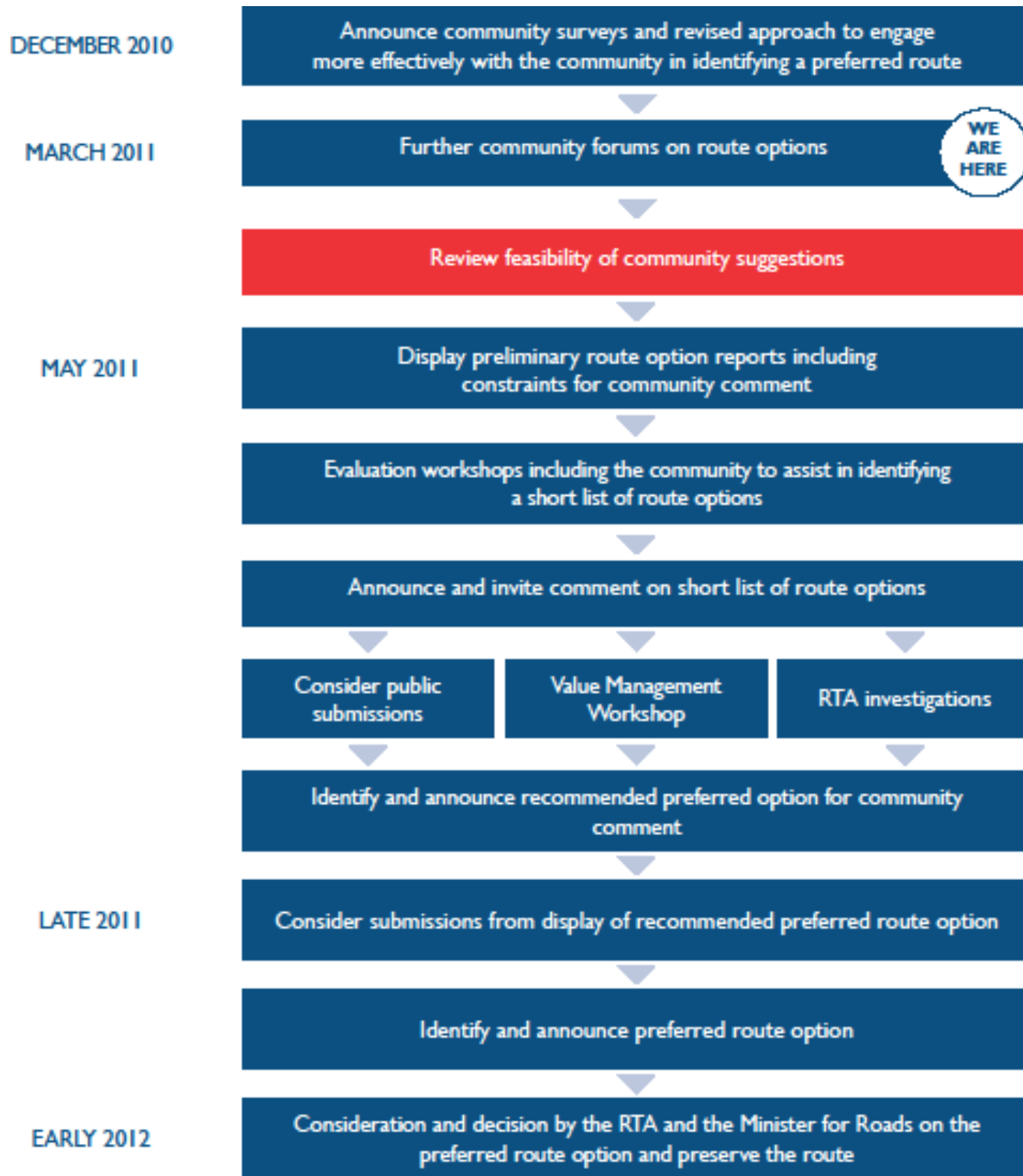
- Group suggestions into corridors and check feasibility of suggestions,
- Identify preferred corridor,
- Identify options within preferred corridor
- Identify recommended preferred option

Methodology for short-listing community suggestions

- No community preference expressed for a preferred methodology
- Method 2 for the short listing evaluation is going to be followed
- Feedback from community forum I about information that will assist in evaluating suggestions will be used during the short-listing process



2-WAY COMMUNITY INVOLVEMENT



- ✓ Review the project purpose and objectives
- ✓ Upload 'Environmental Overview Report - January 2004' and 'Shortlisting of Localities Workshop Report - November 2003' to the RTA project website
- ✓ Why was the Community Liaison Plan (CLP) updated in December 2010?
- ✓ Provide data on the number of heavy vehicles going into the CBD and through Grafton (ie local traffic and through traffic)
- Telephone survey of local businesses
- Use of social media, including text messaging and internet-based surveys

TELEPHONE SURVEY

- Commenced Monday 14 March 2011
- 164 residents surveyed to date (54% participation rate)

BUSINESS SURVEY

- Survey currently being developed by Jetty Research
- On-line survey through the Grafton Chamber of Commerce database

Next community forum – Early May 2011

- Postal survey feedback report
- Telephone survey
- Business survey
- Shortlisting of community suggestions
- Project purpose and objectives
- Selection criteria for assessment of route options