



Stacy Rendall  
Transportation Researcher

*A smarter tool for selecting safe and effective  
pedestrian crossings*

- Research

- The tool



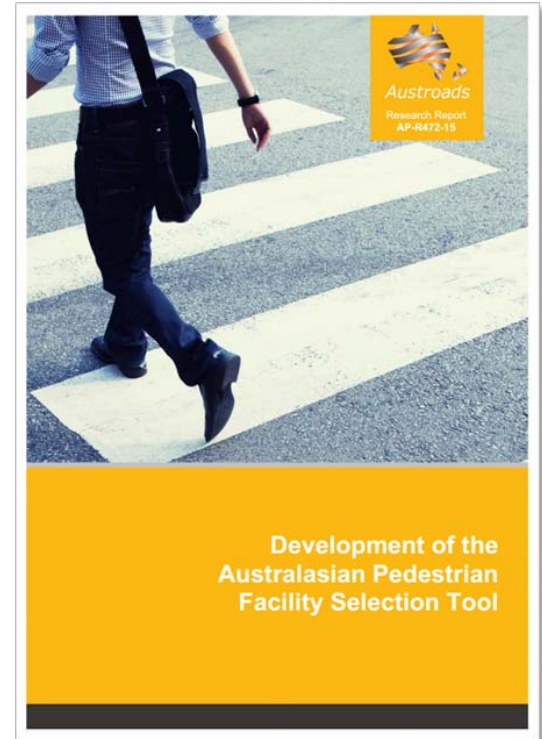
# Research

Standardised tool

Assists practitioners in Australia and NZ to select the most appropriate crossing facility

Brings together feasibility criteria, legal frameworks and economic assessment procedures

Includes pedestrian Level of Service assessment





# *New tool*



Web based

Easier to use

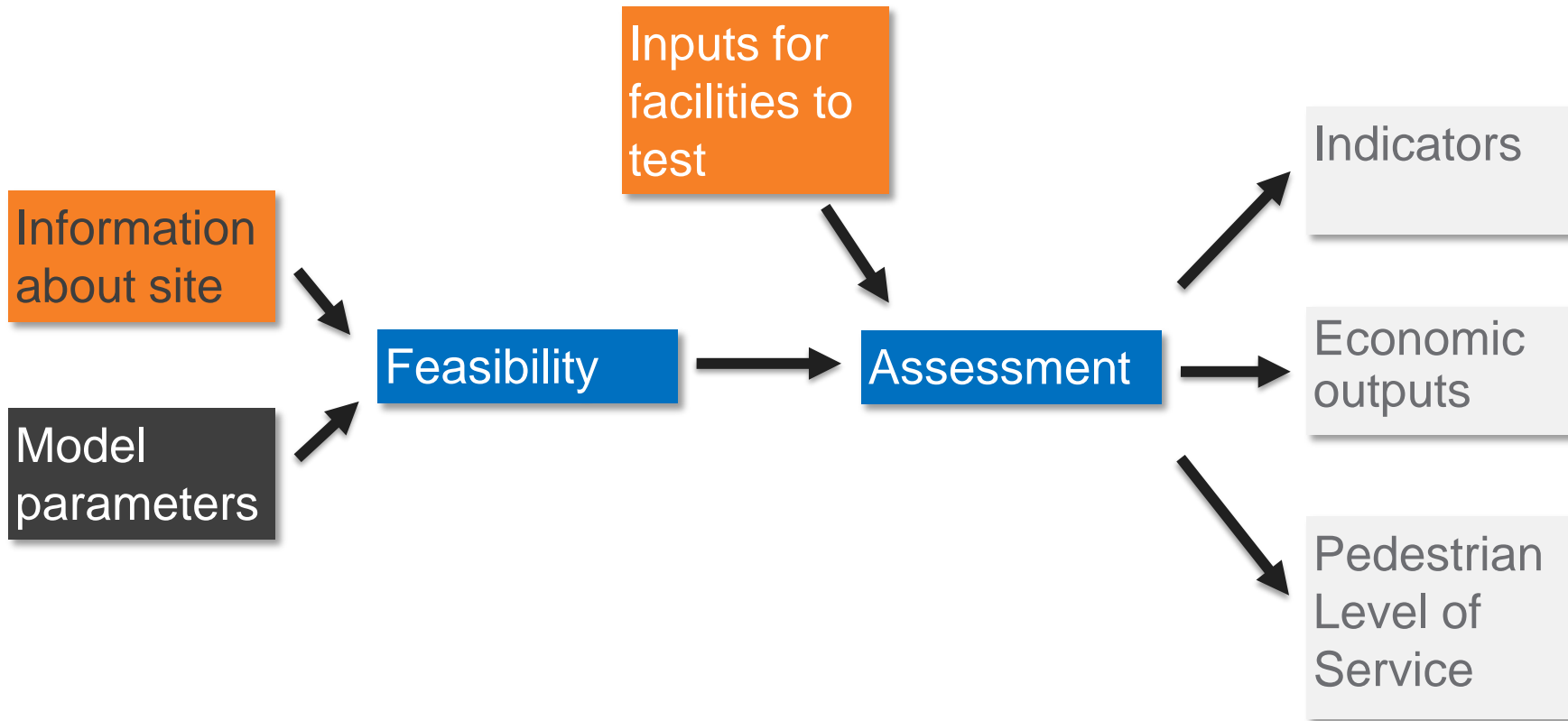
Access from anywhere on any device

All NZ/Australian road authorities have contributed to the tool

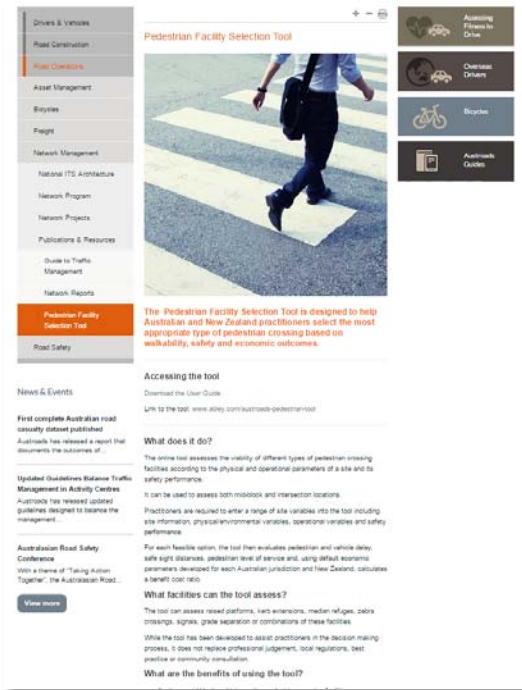
# Facilities

Crossing aids	Control type		
	Uncontrolled	Zebra	Signals
None	<i>Base scenario</i>	Yes	Yes
Platform	Yes	Yes	
Kerb extensions	Yes	Yes	Yes
Median refuge	Yes	Yes	
Platform and kerb extensions		Yes	
Kerb extensions and median refuge	Yes	Yes	
Grade separation	Yes		

Not designed to assess school crossings



# Access



The screenshot shows the Austroads website interface. On the left is a navigation menu with categories like 'Divers & Vehicles', 'Road Construction', 'Risk Considerations', 'Asset Management', 'Business', 'Freight', 'Network Management', 'National ITS Architecture', 'Network Program', 'Network Projects', 'Publications & Resources', 'Guide to Traffic Management', and 'Network Reports'. The 'Pedestrian Facility Selection Tool' is highlighted in orange. On the right, there are four icons: 'Assessing Fitness to Drive', 'Overseas Drivers', 'Bicycles', and 'Austroads Guides'. The main content area features a photo of a pedestrian crossing a street, followed by the title 'Pedestrian Facility Selection Tool' and a brief description: 'The Pedestrian Facility Selection Tool is designed to help Australian and New Zealand practitioners select the most appropriate type of pedestrian crossing based on walkability, safety and economic outcomes.' Below this, there are sections for 'Accessing the tool', 'What does it do?', 'What facilities can the tool assess?', and 'What are the benefits of using the tool?'. A 'View more' button is visible at the bottom left of the content area.

Permanent home page at Austroads

Homepage has links to:

- Tool
- User guide
- Research report
- Support

Short link: [bit.ly/austroads\\_pedestrian](https://bit.ly/austroads_pedestrian)



# Australasian Pedestrian Crossing Facility Selection Tool

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- See the [Quick-start guide](#) or [User guide](#)

- [Request help](#) or [report a problem](#)
- [Print page](#)



Project name:

Project location:

Option/assessment number:

Date of assessment:

**Site information**

Jurisdiction:

Midblock or intersection?

**Physical/environmental variables**

Number of flow directions:

Centre treatment:

Median width:  metres

Parking/shoulder:

Pedestrian visibility:  metres

Direction 1 Flow:

Trafficked lanes:

Crossing distance:  metres

Direction 2 Flow:

Trafficked lanes:

Crossing distance:  metres

**Operational variables**

Posted speed limit:  km/h

Approach speed (85<sup>th</sup> percentile):  km/h

Traffic volume (AADT):  veh/day

Peak sensitive pedestrian volume:  ped/hr

Peak non-sensitive pedestrian volume:  ped/hr

Estimated daily pedestrian volume:  ped/day

Average vehicle occupancy:  pers/veh

Degree of pedestrian/turning vehicle conflict:

Direction 1 Flow type:

Peak vehicle volume:  veh/hr

Direction 2 Flow type:

Peak vehicle volume:  veh/hr

**Crash information**

Use crash model or crash history?

**Model parameters** [Show/Hide](#)

Walk speed of average sensitive pedestrians:  m/s

Walk speed of average non-sensitive pedestrians:  m/s

Average cost of pedestrian crashes:

Value of delay:  /hr

Pedestrian conversion factor:

Vehicle conversion factor:

**Economic assessment parameters**

Evaluation days per annum:

Project lifetime:  years

Discount rate:  %

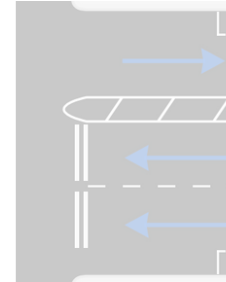
**Economic update factors**

Base date	Update factor to current date
July 2002	<input type="text" value="1.4"/>
July 2005	<input type="text" value="1.05"/>
July 2008	<input type="text" value="1.22"/>

**Expected crash reduction factors**

Platform	Kerb extensions	Median refuge	Kerb extensions and median refuge	Zebra only	Zebra with platform	Zebra with kerb extensions	Zebra with platform and kerb extensions	Zebra with median refuge	Zebra with kerb extensions and median refuge	Signals	Signals with kerb extensions	Grade separation
<input type="text" value="50"/> %	<input type="text" value="35"/> %	<input type="text" value="15"/> %	<input type="text" value="30"/> %	<input type="text" value="125"/> %	<input type="text" value="60"/> %	<input type="text" value="35"/> %	<input type="text" value="60"/> %	<input type="text" value="15"/> %	<input type="text" value="35"/> %	<input type="text" value="45"/> %	<input type="text" value="45"/> %	<input type="text" value="65"/> %

Site layout diagram



**Overall site characteristics**

Total crossing distance:  
5.2 + 2 + 11.3 = 18.5 metres

Total peak hourly vehicle flow:  
1100 + 1000 = 2,100 veh/hr

Estimated pedestrian crossing time:  
15.8 seconds

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Centre treatment:

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Parking/shoulder:

Pedestrian visibility:  metres

Direction 1 Flow:

Trafficked lanes:

Crossing distance:  metres

Direction 2 Flow:

Trafficked lanes:

Crossing distance:  metres

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Traffic volume (AADT):  veh/day

Peak sensitive pedestrian volume:  ped/hr

Peak non-sensitive pedestrian volume:  ped/hr

Estimated daily pedestrian volume:  ped/day

Average vehicle occupancy:  pers/veh

Degree of pedestrian/turning vehicle conflict:

Direction 1 Flow type:

Peak vehicle volume:  veh/hr

Direction 2 Flow type:

Peak vehicle volume:  veh/hr

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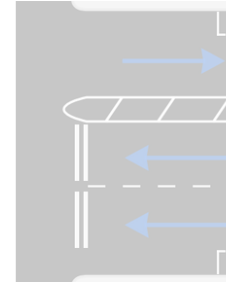
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July 2002	<input type="text" value="1.4"/>
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Flow:   
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Flow:   
Trafaliked lanes:   
Crossing distance:  metres

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Degree of pedestrian/turning vehicle conflict:

Direction 1  
Flow type:   
Peak vehicle volume:  veh/hr

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Flow type:   
Peak vehicle volume:  veh/hr

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Use crash model or crash history?

**Model parameters** [Show/Hide](#)

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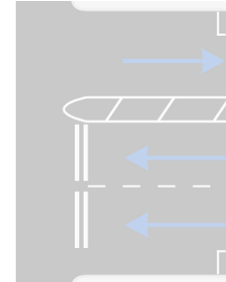
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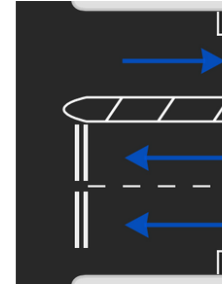
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Direction 1 Peak vehicle volume:  veh/hr

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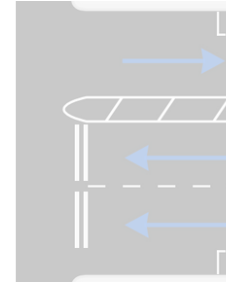
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Estimated daily pedestrian volume:  ped/day

Average vehicle occupancy:  pers/veh

Degree of pedestrian/turning vehicle conflict:

Direction 1 Flow type:

Direction 1 Peak vehicle volume:  veh/hr

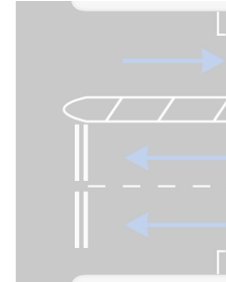
Direction 2 Flow type:

Direction 2 Peak vehicle volume:  veh/hr

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Use crash model or crash history?

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Average cost of pedestrian crashes:

Value of delay:  /hr

Pedestrian conversion factor:

Vehicle conversion factor:

**Economic assessment parameters**

Evaluation days per annum:

Project lifetime:  years

Discount rate:  %

**Economic update factors**

	Base date	Update factor to current date
Travel time costs/savings	<input type="text" value="July 2002"/>	<input type="text" value="1.4"/>
Vehicle operating costs/savings	<input type="text" value="July 2008"/>	<input type="text" value="1.08"/>
Crash costs/savings	<input type="text" value="July 2006"/>	<input type="text" value="1.22"/>

**Expected crash reduction factors**

Platform	Kerb extensions	Median refuge	Kerb extensions and median refuge	Zebra only	Zebra with platform	Zebra with kerb extensions	Zebra with platform and kerb extensions	Zebra with median refuge	Zebra with kerb extensions and median refuge	Signals	Signals with kerb extensions	Grade separation
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## Feasible facilities

	Suitable for site?	Built parameters	Construction cost	Show in final output? <a href="#">Select all/none/feasible</a>
Platform	No	Vehicle negotiation speed: <input type="text" value="Please select..."/>	\$ <input type="text"/>	<input type="checkbox"/>
Kerb extensions	Yes	Total crossing distance after treatment: <input type="text"/> metres <a href="#">?</a>	\$ <input type="text"/>	<input checked="" type="checkbox"/>
Median refuge	Yes	Direction 1 crossing distance after treatment: <input type="text"/> metres <a href="#">?</a> Median refuge width: <input type="text"/> metres <a href="#">?</a> Direction 2 crossing distance after treatment: <input type="text"/> metres <a href="#">?</a>	\$ <input type="text"/>	<input checked="" type="checkbox"/>
Kerb extensions and median refuge	Yes	Direction 1 crossing distance after treatment: <input type="text"/> metres <a href="#">?</a> Median refuge width: <input type="text"/> metres <a href="#">?</a> Direction 2 crossing distance after treatment: <input type="text"/> metres <a href="#">?</a>	\$ <input type="text"/>	<input checked="" type="checkbox"/>
Zebra only	No	<i>No parameters</i>	\$ <input type="text"/>	<input type="checkbox"/>
Zebra with platform	No	<i>Applies vehicle negotiation speed from Platform above</i>	\$ <input type="text"/>	<input type="checkbox"/>
Zebra with kerb extensions	No	<i>Applies total crossing distance from Kerb extensions above</i>	\$ <input type="text"/>	<input type="checkbox"/>
Zebra with platform and kerb extensions	No	<i>Applies vehicle negotiation speed from Platform and total crossing distance from Kerb extensions above</i>	\$ <input type="text"/>	<input type="checkbox"/>
Zebra with median refuge	No	<i>Applies distances and refuge width from Median refuge above</i>	\$ <input type="text"/>	<input type="checkbox"/>
Zebra with kerb extensions and median refuge	No	<i>Applies distances and refuge width from Kerb extensions and median refuge above</i>	\$ <input type="text"/>	<input type="checkbox"/>
Signals	Yes	Cycle time: <input type="text"/> seconds Percent of time in green pedestrian phase: <input type="text"/> %	\$ <input type="text"/>	<input checked="" type="checkbox"/>
Signals with kerb extensions	Yes	<i>Applies parameters from Signals and total crossing distance from Kerb extensions above</i>	\$ <input type="text"/>	<input checked="" type="checkbox"/>
Grade separation	No	<i>N/a</i>	\$ <input type="text"/>	<input type="checkbox"/>

## Feasible facilities

	Suitable for site?	Built parameters	Construction cost	Show in final output? <a href="#">Select all/none/feasible</a>
Platform	No	Vehicle negotiation speed: <input type="text" value="Please select..."/>	<input type="text" value="\$"/>	<input checked="" type="checkbox"/>
Kerb extensions	Yes	Total crossing distance after treatment: <input type="text" value="17.5"/> metres <a href="#">?</a>	<input type="text" value="\$ 75000"/>	<input checked="" type="checkbox"/>
Median refuge	Yes	Direction 1 crossing distance after treatment: <input type="text" value="5.2"/> metres <a href="#">?</a> Median refuge width: <input type="text" value="2"/> metres <a href="#">?</a> Direction 2 crossing distance after treatment: <input type="text" value="11.3"/> metres <a href="#">?</a>	<input type="text" value="\$ 85000"/>	<input checked="" type="checkbox"/>
Kerb extensions and median refuge	Yes	Direction 1 crossing distance after treatment: <input type="text" value="4.7"/> metres <a href="#">?</a> Median refuge width: <input type="text" value="2"/> metres <a href="#">?</a> Direction 2 crossing distance after treatment: <input type="text" value="10.8"/> metres <a href="#">?</a>	<input type="text" value="\$ 95000"/>	<input checked="" type="checkbox"/>
Zebra only	No	<i>No parameters</i>	<input type="text" value="\$"/>	<input checked="" type="checkbox"/>
Zebra with platform	No	<i>Applies vehicle negotiation speed from <b>Platform</b> above</i>	<input type="text" value="\$"/>	<input type="checkbox"/>
Zebra with kerb extensions	No	<i>Applies total crossing distance from <b>Kerb extensions</b> above</i>	<input type="text" value="\$"/>	<input type="checkbox"/>
Zebra with platform and kerb extensions	No	<i>Applies vehicle negotiation speed from <b>Platform</b> and total crossing distance from <b>Kerb extensions</b> above</i>	<input type="text" value="\$"/>	<input type="checkbox"/>
Zebra with median refuge	No	<i>Applies distances and refuge width from <b>Median refuge</b> above</i>	<input type="text" value="\$"/>	<input type="checkbox"/>
Zebra with kerb extensions and median refuge	No	<i>Applies distances and refuge width from <b>Kerb extensions and median refuge</b> above</i>	<input type="text" value="\$"/>	<input type="checkbox"/>
Signals	Yes	Cycle time: <input type="text" value="180"/> seconds Percent of time in green pedestrian phase: <input type="text" value="8"/> %	<input type="text" value="\$ 120000"/>	<input checked="" type="checkbox"/>
Signals with kerb extensions	Yes	<i>Applies parameters from <b>Signals</b> and total crossing distance from <b>Kerb extensions</b> above</i>	<input type="text" value="\$ 140000"/>	<input checked="" type="checkbox"/>
Grade separation	No	<i>N/a</i>	<input type="text" value="\$"/>	<input type="checkbox"/>



## Facility assessment

	Suitable for site?	Pedestrian delay	Vehicle delay	Predicted crash rate	CSD	ASD	SISD
No facility		85 sec	0 sec	0.08 /year	231 m	41 m	78 m
Platform	No						
Kerb extensions	Yes	72 sec	0 sec	0.05 /year	219 m	41 m	78 m
Median refuge	Yes	36 sec	0 sec	0.07 /year	141 m	41 m	78 m
Kerb extensions and median refuge	Yes	32 sec	0 sec	0.06 /year	135 m	41 m	78 m
Zebra only	No						
Signals	Yes	77 sec	0 sec	0.04 /year	231 m	41 m	78 m
Signals with kerb extensions	Yes	77 sec	0 sec	0.04 /year	219 m	41 m	78 m

	Perceived delay	Perceived safety	Pedestrian LOS	Pedestrian delay cost	Pedestrian delay saving	Vehicle delay cost	Crash cost	Safety saving	Total benefits	BCR
No facility	F	F	F	\$ 746,000			\$ 239,000			
Platform										
Kerb extensions	F	F	F	\$ 632,000	\$ 114,000	\$ 0	\$ 156,000	\$ 84,000	\$ 198,000	2.6
Median refuge	E	F	F	\$ 317,000	\$ 429,000	\$ 0	\$ 203,000	\$ 36,000	\$ 465,000	5.5
Kerb extensions and median refuge	D	E	E	\$ 281,000	\$ 465,000	\$ 0	\$ 168,000	\$ 72,000	\$ 537,000	5.7
Zebra only										
Signals	D	B	B	\$ 670,000	\$ 76,000	\$ 0	\$ 132,000	\$ 108,000	\$ 183,000	1.5
Signals with kerb extensions	D	B	B	\$ 670,000	\$ 76,000	\$ 0	\$ 132,000	\$ 108,000	\$ 183,000	1.3

## Facility assessment

	Suitable for site?	Pedestrian delay	Vehicle delay	Predicted crash rate	CSD	ASD	SISD
No facility		85 sec	0 sec	0.08 /year	231 m	41 m	78 m
Platform	No						
Kerb extensions	Yes	72 sec	0 sec	0.05 /year	219 m	41 m	78 m
Median refuge	Yes	36 sec	0 sec	0.07 /year	141 m	41 m	78 m
Kerb extensions and median refuge	Yes	32 sec	0 sec	0.06 /year	135 m	41 m	78 m
Zebra only	No						
Signals	Yes	77 sec	0 sec	0.04 /year	231 m	41 m	78 m
Signals with kerb extensions	Yes	77 sec	0 sec	0.04 /year	219 m	41 m	78 m

	Perceived delay	Perceived safety	Pedestrian LOS	Pedestrian delay cost	Pedestrian delay saving	Vehicle delay cost	Crash cost	Safety saving	Total benefits	BCR
No facility	F	F	F	\$ 746,000			\$ 239,000			
Platform										
Kerb extensions	F	F	F	\$ 632,000	\$ 114,000	\$ 0	\$ 156,000	\$ 84,000	\$ 198,000	2.6
Median refuge	E	F	F	\$ 317,000	\$ 429,000	\$ 0	\$ 203,000	\$ 36,000	\$ 465,000	5.5
Kerb extensions and median refuge	D	E	E	\$ 281,000	\$ 465,000	\$ 0	\$ 168,000	\$ 72,000	\$ 537,000	5.7
Zebra only										
Signals	D	B	B	\$ 670,000	\$ 76,000	\$ 0	\$ 132,000	\$ 108,000	\$ 183,000	1.5
Signals with kerb extensions	D	B	B	\$ 670,000	\$ 76,000	\$ 0	\$ 132,000	\$ 108,000	\$ 183,000	1.3

# Conclusions

Does the “grunt work” of assessing crossings

Standardised: Australia and NZ

Supports best practice

Makes it easier for planners, designers and engineers to balance competing demands and select the right facility



# Contact

**Steve  
Abley**

**T** +64 3 367 9003

**M** +64 21 556 864

**E** [steve.abley@abley.com](mailto:steve.abley@abley.com)

**Contact  
the office**

**T** +64 9 974 9820 (Aklid)

**T** +64 3 377 4703 (Chch)

**W** [www.abley.com](http://www.abley.com)

**Auckland**

Level 8,  
57 Fort Street  
P O Box 911336  
Auckland 1142  
New Zealand

**Christchurch**

Level 1 and 2,  
30a Carlyle Street  
PO Box 25350  
Christchurch 8144  
New Zealand

ConnectBetter

