

## **Hamilton's Accidental History**

- Using similar profiles back in 2012-14 in 40 km/h Safer Speed Areas
- Found that they resulted in both lower speeds and fewer noise/vibration complaints







#### Hamilton's Accidental Hist

National Speed Limit Rule
Review





#### **Ideas Collide**

- June 2017 Hamilton City Council adopt a Vision Zero Aspiration
- Late 2017 Crashes started to rise at the Thomas/Gordonton Intersection, design work begins on Roundabout because signals not considered Safe System.
- **2018** Waka Kotahi's Fabian Marsh presents Raised Traffic Signal Intersections to Safer Intersections Working Group.
- Mid 2018 Roundabout dismissed, Raised Traffic Signals pursued.
- April 2019 Thomas/Gordonton Traffic Signals with RSP's go live.



# **Thomas/Gordonton**



**Thomas/Gordonton** 





**50** 



### **Thomas/Gordonton - Crashes**

Crash History (2014 – 2023)

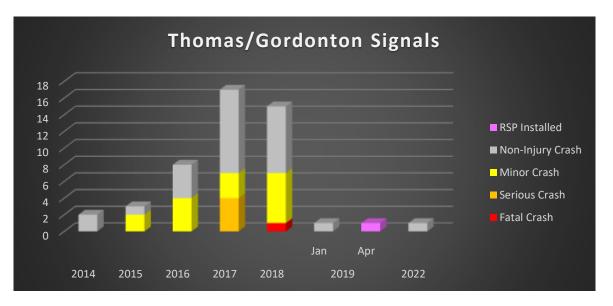
Before (2014 – Jan 2019)

46 Crashes

1 Fatal 4 Serious 15 Minor 26 Non-injury

After (10 Apr 2019 – 1 May 2023)

1 Non-injury Crash













#### **Bryce/Anglesea – Crashes**

Crash History (2014 – 2023)

Before (2014 – Jan 2020)

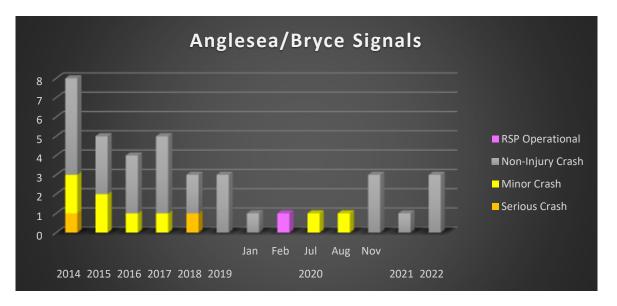
29 Crashes

2 Serious 6 Minor 21 Non-injury

After (Feb 2020 – 1 May 2023)

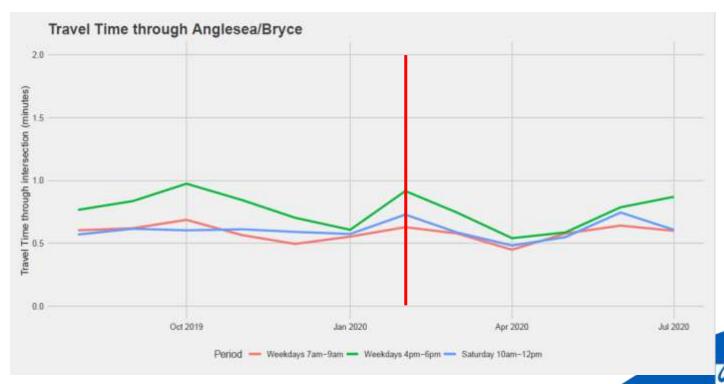
9 Crashes

2 Minor 7 Non-injury

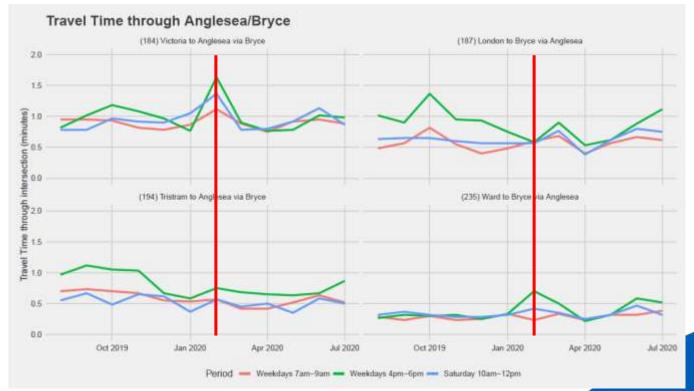




### **Bryce/Anglesea – Average Travel Time**



# **Bryce/Anglesea – Approach Travel Time**











#### **Grey/Te Aroha - Crashes**

Crash History (2014 – 2023)

Before (2014 – Aug 2019)

29 Crashes

1 Serious 10 Minor 18 Non-injury

After (Sept 2019 – 1 May 2023)

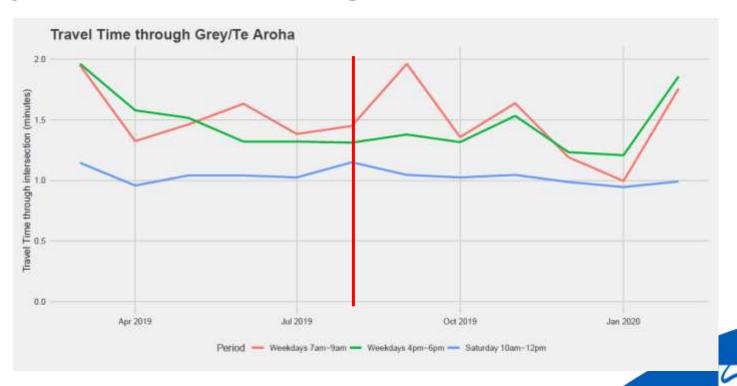
6 Crashes

2 Minor 4 Non-injury

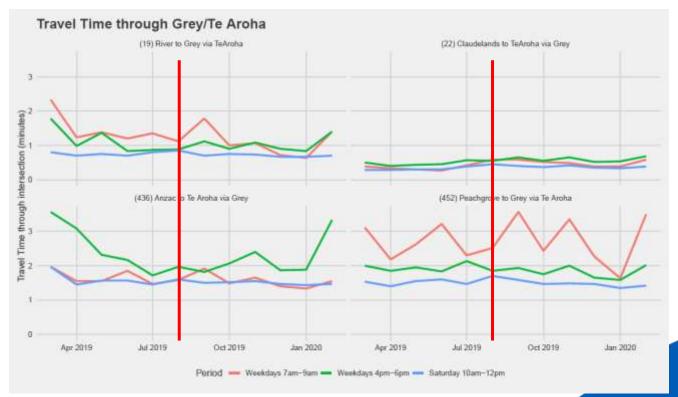




#### **Grey/Te Aroha – Average Travel Time**



### **Grey/Te Aroha – Approach Travel Time**











#### **Bankwood/Comries - Crashes**

Crash History (2014 – 2023)

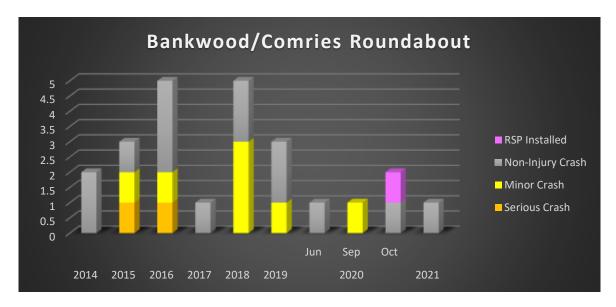
Before (2014 - Aug 2019)

21 Crashes

2 Serious 7 Minor 12 Non-injury

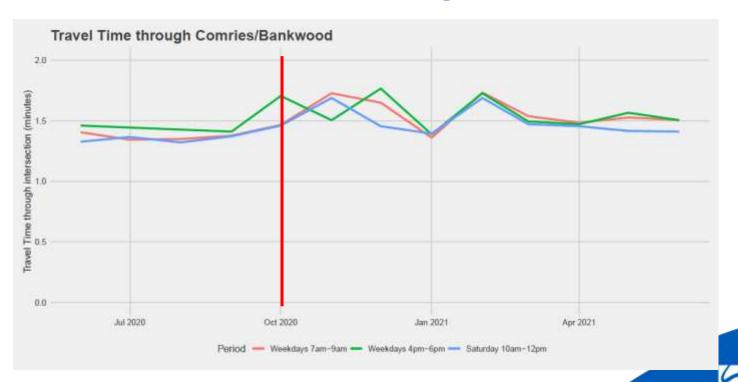
After (Oct 2020 – 1 May 2023)

2 Non-injury Crashes

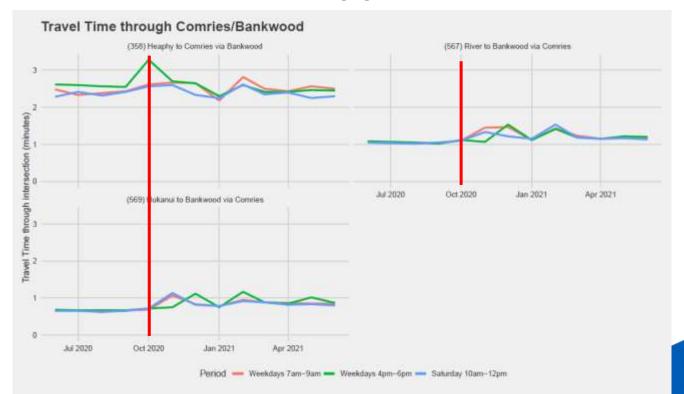




#### **Bankwood/Comries – Average Travel Time**



#### **Bankwood/Comries – Approach Travel Time**







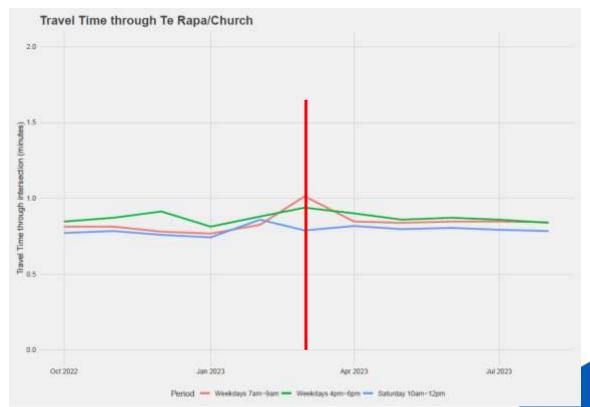






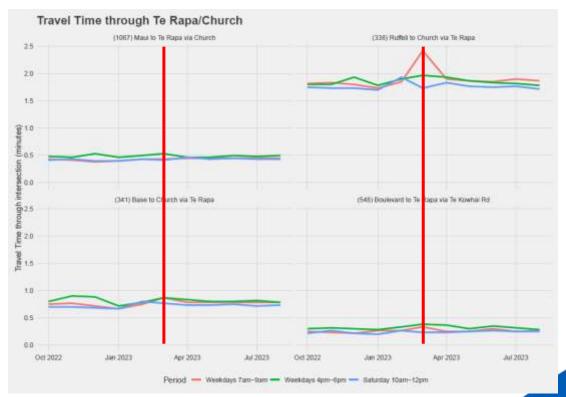


## Te Rapa/Church – Average Travel Time





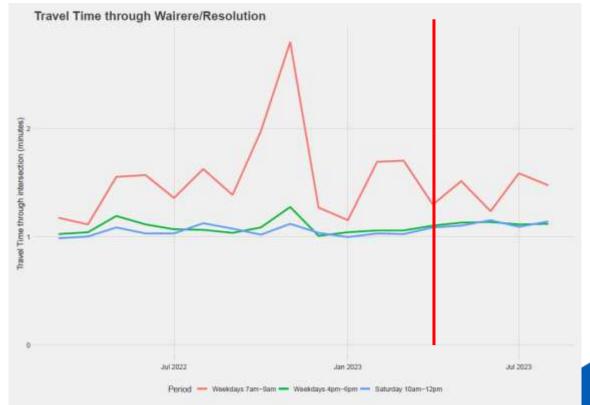
# Te Rapa/Church – Approach Travel Time







## Wairere/Resolution – Average Travel Time

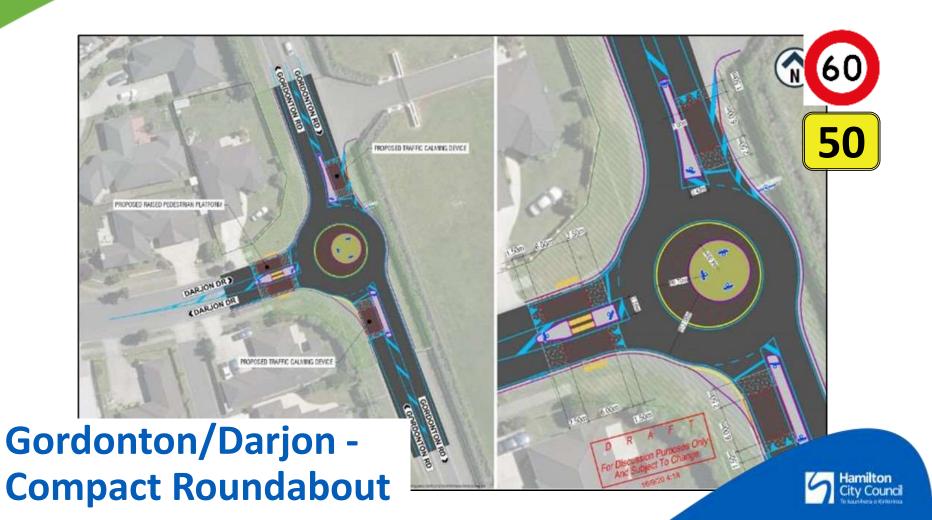




#### Wairere/Resolution – Approach Travel Times











**Mid-block Crossings** 



### **Speed Results**

Mid-block

~ 10km/h of Posted Speed Limit

Varies by shape



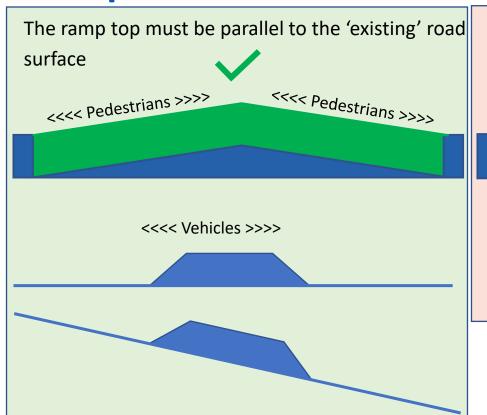
Intersection

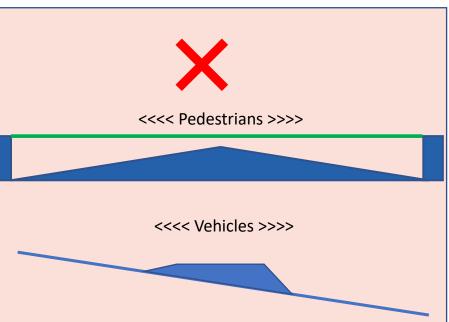
Close to RSP Design Speed

Better driver understanding?



# **Shape is Critical**







#### **Other Challenges**

#### In the beginning

Industry push back

#### As you gain trust in RSP's

• Bringing the community along on the journey





#### **Bringing the Community Along**







#### Con's

- Drainage
- Noise/vibration concerns
- Public Concerns
  - Perception of vehicle damage/fuel consumption
  - Perception of increased traffic congestion



#### Pro's

- Excellent Speed
   Management/reduction
- Improve pedestrian level of service
- Adaptable to desired speed outcome



#### **Learning/Sharing**



- Approach Ramp = Speed Management
- Departure Ramp = Noise/vibrations?
- Underlying ground conditions Relationship to departure ramp?



#### Where to for help

VicRoads – RDN 03-07 – Raised Safety Platforms

 Austroads – AP-R642-20 - Effectiveness and implementation of Raised Safety Platforms

Waka Kotahi - Fabian Marsh

Hamilton City Council – Me...

 Google "Raising the standard for intersection safety youtube"



#### Where to from here?

Still a lot to learn and share and looking for others to join the journey...

...and for you to share your experiences and journey with us.



### Thank you

#### For being there for the first one

- Fabian Marsh Waka Kotahi
- Robyn Denton Hamilton City Council
- John Kinghorn Hamilton City Council
- Hamish Mackie Mackie Research Ltd
- Mike Meister WSP, Hamilton
- Letitia Garmonsway WSP, Hamilton
- Willem Ferreira Infrastructure Alliance







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