Has cycling safety in New Zealand improved?



Presentation Outline



- A history lesson
 - Cycling safety in the past
 - -2011 Coroner's Inquest
 - -2014 Cycle Safety Panel
- Where are we today?
 - Gains and losses
 - The problem with trucks
- Ways forward
 - -Christchurch: build it and they will come (and do so safely)...

The great New Zealand Image...



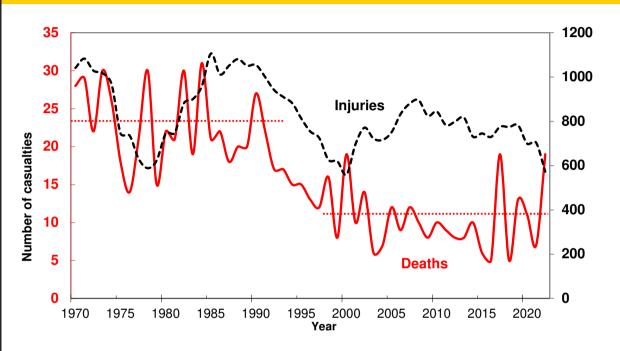




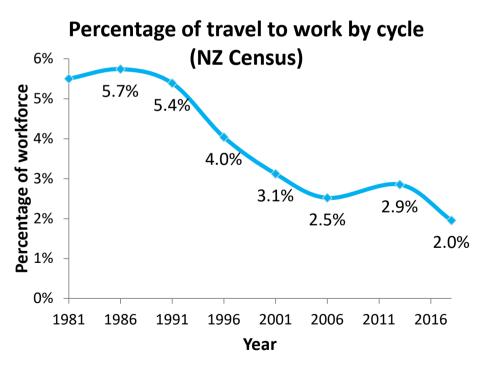
The great New Zealand Reality...



Cycling safety has been worse in NZ in the past...



...but is that just a reflection of changing usage?



Genesis: Cycling Safety in 2010

Third Morrinsville cyclist dies in hospitat

November 18, 2010, 7:43 am

18 November 2010

Friends arieve for 'wonderful' nurse

Cyclist killed in cra

Schoolgirl hit amid cycle death spate

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Last updated 10:50 18/11/2010

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A Blenheim schoolgirl was seriously injured when she was run over by a truck while cycling this morning, as the cycling death toll

in the past five days rose to five.

The cycling deaths have seen the Cycling Advocates Network renewing calls for drivers to undergo testing every 10 years.

The 12-year-old girl was riding with another girl when she was hit by the truck and trailer, which was carrying a tractor, on State Highway 1 just outside Blenheim about 8.20am.

Blenheim St John Ambulance operations team leader Pete Davidson said the girl suffered serious head, chest and abdomen injuries and was taken to Wairau Hospital.

FIFTH CYCLE DEATH SINCE SUNDAY

Kay Wolfe, the third cyclist hit by a car near Morrinsville on Sunday has died in Waikato Hospital.

Walfe, 45, of Gordonton, had been one of 10 cyclists from the Morrinsville Wheelers Cycling Club travelling in a group along the Morrinsville-Walton Rd when a car driven by a 23-year-old woman crossed the centreline on a corner and crashed into the group.

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Jane Bishop died on a stretch of Tamaki Drive which a triathelete who often travels on it says is particularly dangerous for cyclists because it is narrow and has a tight corner. Photo / Greg Bowker

ourth of Zealand this week.

door was at home with family yesterday but agedy,

his wife told the Herald.

Med on Albert St since March, when she is orking holiday in New Zealand.

ed a notice in their window, saying: "Please lovely nurse Jane was fatally injured in an a her loss."



VIDEO John Key on cycling deaths (1:28)

Email Print

- · Waterfront cyclist killed in crash named
- Driver forces cyclist off road - lectures him
- Auckland cyclist killed trying to avoid opening door - bolice
- · Spontaneous photo stop ends in tragedy



What needs to be done to make cycling safer?

Share your view #

· Read what others think



DEREK FLYNN

INJURY: A school girl was seriously injured after falling under the rear wheels of a truck and trailer unit south of Blenheim on State Highway 1.



NZ Coroner's Inquest Into Cycle Deaths (2011-13)





Making cycling "dorky or un-cool" by introducing compulsory high-visibility vests to prevent deaths, may do more harm than good, a cycling advocate has warned.

Cycling Advocates Network spokesman Pa claim during his evidence at a coroner's ind eight cyclists, which began in Palmerston N

Today's hearing focused on the deaths of F was hit by a careless driver, near Bulls, on Dalzell, 75, who collided with a car north of January 7.

Supplied

SAFETY INQUEST: Patricia Fraser was killed while out training for the Lake Taupo Cycle Challenge.

Mr Morgan told Coroner Gordon Matenga tl clothing mandatory for cyclists could discou altogether, which could lead to an increase of problems from inactivity. "Would it not be in the interests of the 1.3 million [New Zealanders] who do cycle, to have clothing that would increase the likelihood of them being seen? ... If you get the irresponsible ones off the road, wouldn't that be a good thing?"

Coroner Gordon Matenga, 21/07/2011

Not the Only Coroner...

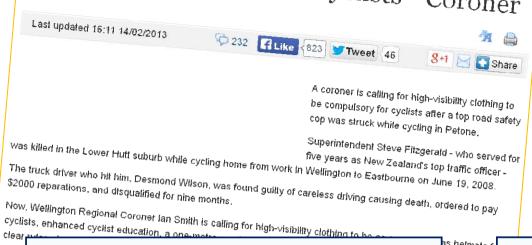
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Hi-vis clothes a must for cyclists - Coroner



"Turning to the issue of high-vis clothing, it is in my view a **no-brainer**. It should be compulsory for cyclists to wear at all times when riding in public."

After

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Coroner Ian Smith, 14/02/2013

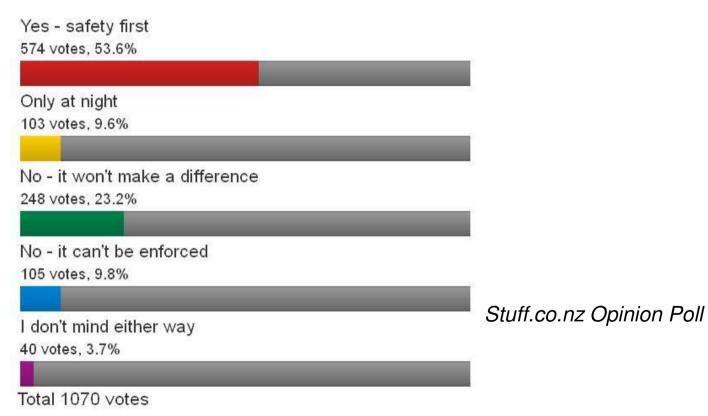


"I recommend that all cyclists when using public roads take all appropriate steps to make themselves more obvious to other road users... including the use of auxiliary lighting and the wearing of high-visibility clothing."

Coroner David Crerar, 29/05/2014

"It's Just Obvious!"

Should it be compulsory for cyclists to wear high-visibility clothing?



I weighed in with a little bit more analysis... Monday, 29 July 2013

High-vis vests won't cut cyclist death toll: expert



News > National

Mandatory wearing of high-visibility clothing for cyclists would not reduce the death toll,

A special joint inquest into four South Island cyclist deaths has been heard before

It is the last of five coronial hearings covering 12 deaths as part of the National Cycle File, ordered by Chief Coroner Neil MacLean after a spate of five cyclist deaths in less

Today's inquests heard that alcohol, speed, and cycling without lights were involved in

But there was "no magic bullet" in bringing down the death tolf, said Dr Glen Koorey, senior lecturer in transportation at the University of Canterbury.

All school kids should be taught proper bike riding technique by the age of 10 as a "rite of passage," he said.

There needs to be more cycle lanes and drivers needed to be more aware of cyclists. give them more space, and be more patient, he said.

Dr Koorey has studied all 84 fatal cyclist deaths from 2012. The average age was about 50.

While New Zealand lagged behind the Netherlands a cycling here was not inherently dangerous, he said, t mara than two million hours of sucling par death



...and to his credit, the Coroner recommended further investigation

Recommendation

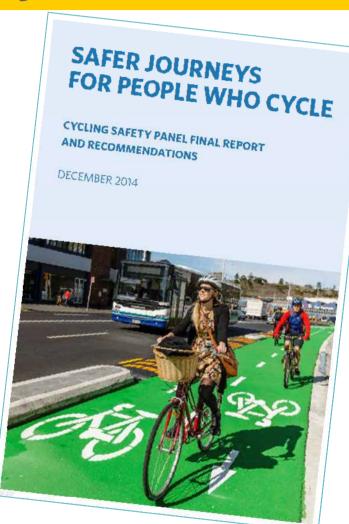
For the reasons set out above and pursuant to sections 3(1)(b) and 57(3) Coroners Act 2006 I recommend that:

The NZTA convene an expert panel drawn from stakeholders with an interest and (i) expertise in cycling and road safety, to consider the evidence gathered by this Review and such other evidence as it considers necessary, with a view to compiling a list of recommendations to central and local government which will improve cycling safety in New Zealand and prevent further cycling crashes and fatalities.

2014 National Cycle Safety Panel

- Expert group convened by NZTA/MoT
 - Lots of public submissions received
 - -35 Recommendations made (incl. 15 high priority recc'ns)





We've had some resulting wins...

Cycleway funding increases





Industry guidelines & training

Better Transport Agency support



Cycle skills training



High priority recc'ns

Truck-related:

Very little tangible progress on many of these since 2014



Office of Hon Tim Macindoe

Minister of Customs

Associate Minister of Education Associate Minister of Transport

1 5 AUG 2017

Dr Glen Koorey glen@viastrada.nz

Dear Dr Koorey

Thank you for your letter of 15 July 2017, concerning the Cycling Safety Panel recommendations and truck safety. All fatalities that occur on New Zealand roads are deeply concerning to me. Please accept my apology for the delay in responding.

The recommendation that you mention, arising out of the report of the Cycling Safety Panel, is being progressed through actions in the Safer Journeys Action Plan 2016-

Action 4 of the Plan aims to encourage safe vehicles. Under this action, there is side under the safe of the plan aims to encourage safe vehicles.

SAFE SYSTEM ENABLERS

- Give greater priority to active transport needs (cycling and walking) in all land transport
 planning and investment decisions. This needs to be reflected in the Government
 Policy Statement on Land Transport Funding (GPS), the National Land Transport
 Programme (NLTP), the Transport Agency's Investment Assessment Framework, the
 Economic Evaluation Manual (EEM) and councils' long-term community plans.
- 2. Establish and resource **dedicated teams** in the Transport Agency and Ministry of Transport with staff and funding to plan, implement and evaluate investments in cycling. Local government is encouraged to do the same.
- Improve the quantity and quality of data collection, especially for non-motor vehicle crashes.

SAFE SPEEDS

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4. Ensure the needs of cycling are considered in the implementation of the Safer Speeds Programme.

SAFE ROADS AND ROADSIDES

- 5. Accelerate the provision of completed, fit-for-purpose, connected cycle networks.
- 6. Design intersections so they are safe for cyclists. Trial European design guidelines for roundabouts and other innovative treatments.
- Separate cyclists from high-speed and high-volume or high freight density traffic.
- Progressively remove parking from arterial roads where it is a safety risk.
 - 9. Develop and promote nationally applicable design guidelines for cycling infrastructure.

SAFE ROAD USE

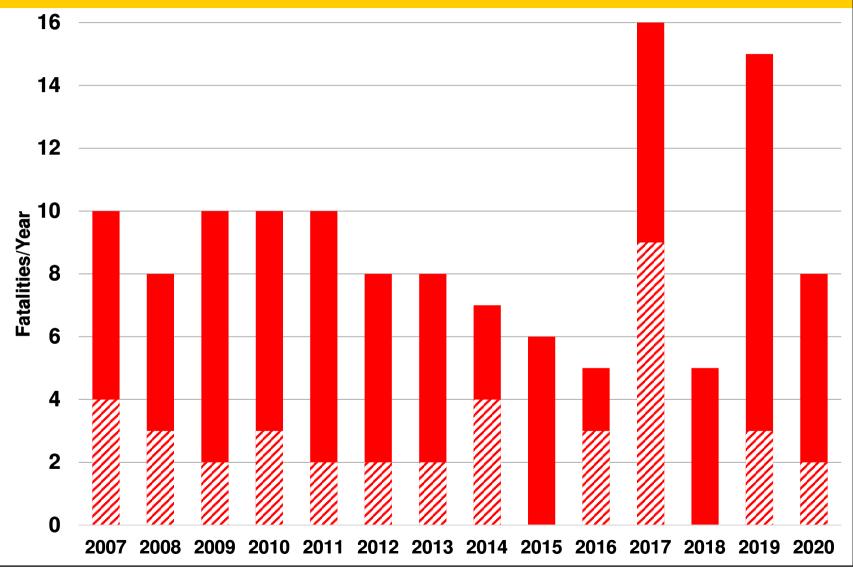
- Trial mandatory minimum passing distances for motor vehicles overtaking cyclists in conjunction with an information campaign explaining the rule change to all road users.
- a. Increase and incentivise **training for commercial drivers** about driving safely near cyclists b. Raise **cyclist awareness** of the risks of riding near heavy vehicles.
 - 12. Increase the safety of **cycling to school** through a package of Safe System measures.
 - 13. Improve all road user **attitudes and behaviours** towards sharing the road safely.

SAFE VEHICLES

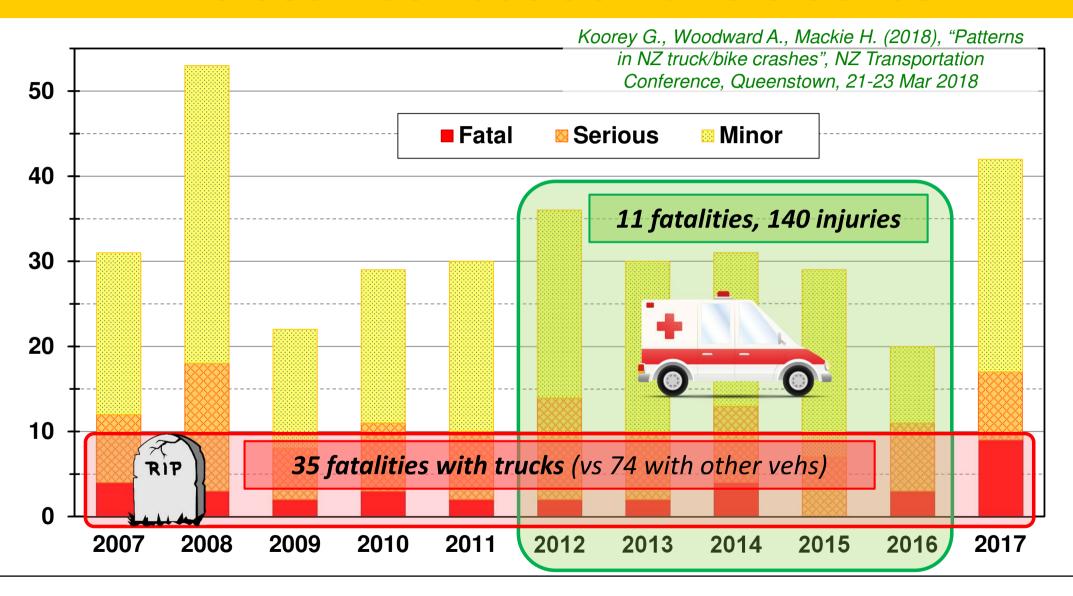
- 14. Investigate the costs and benefits of introducing mandatory truck side-under-run protection and other vehicle safety features.
- 15. Adopt improved standards for bicycle lights.

Trucks vs Bikes: The problem...

Cyclist vs motor veh: Fatalities over time

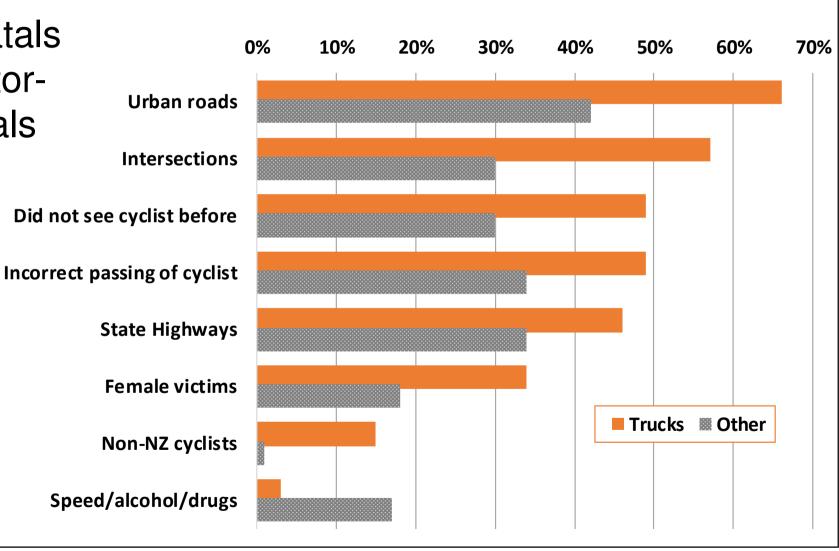


A closer look at truck-bike crashes



Truck-bike fatalities: Key crash patterns

 Truck-bike fatals vs Other motorveh./bike fatals





Safe systems solutions: Lots of options

INNOVATION

- **Separated Cycleways**
- **Better Intersections**
- Shoulder widening



- Cycle skills training
- Truck driver training
- Minimum overtaking gap
- Workplace H&S processes
- "Share the Road" workshops



UNDERSTAND WISKS LEGISLATION AND ENFORCEMENT SAFE AD VOY WILLIAM STATES ROAD SYSTEM INCREASINGLY HUMAN TOLERANDS TO OUT OF THE PARTY OF THE P HUMANA TO CONSH FORCES FREE OF DEATH AND SERIOUS ADMISSION TO THE STSTERN INJURY SARE ROAD USE

Central/local Govt

systemic issues?

- Lower rural speed limits
 - Lower urban speeds?

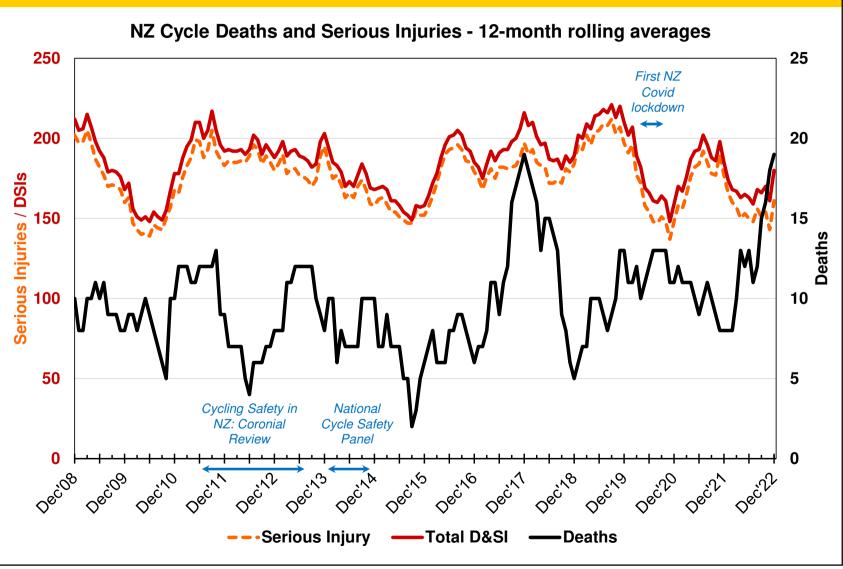


- Side under-run protection
- Better cab visibility/mirrors
 - Truck-side cyclist sensors
 - "Approved trucks" only?



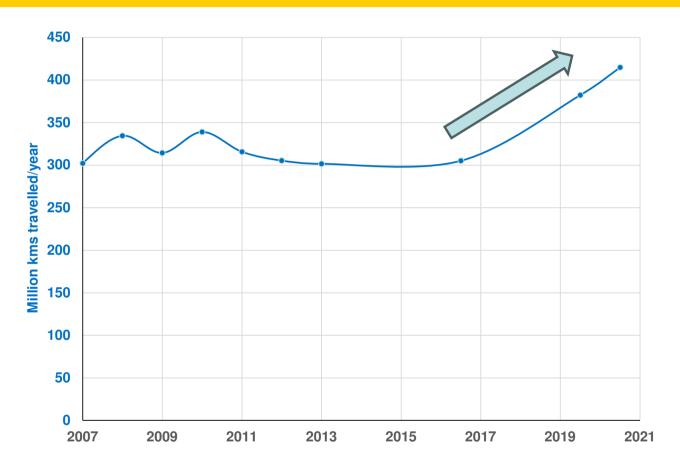
So what's happened with cycle safety lately?

- No dramatic improvements
- Notable drop during national lockdown though (2020)
 - Effect of less traffic?



Is individual risk improving though?

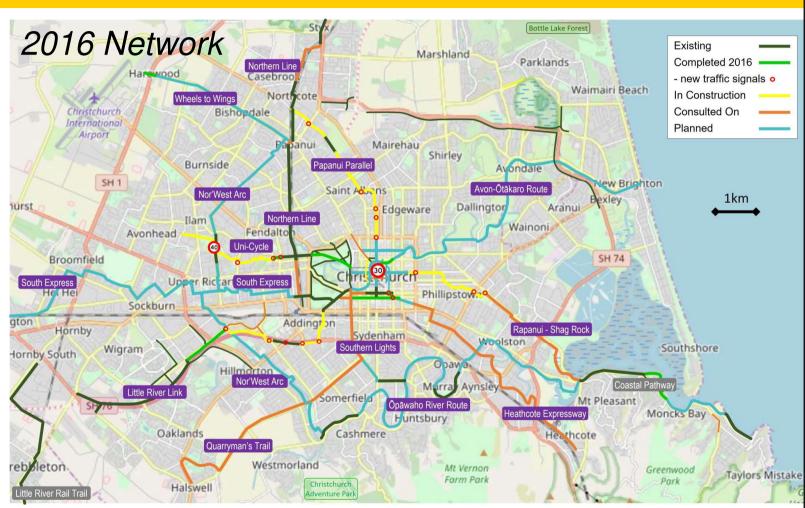
- MoT Household Travel Survey data
 - Ongoing monitoring, scaled from a sample of travel diaries
- ~35% increase in cycling travel across NZ since 2016
 - Aligned with major cycleway funding increases



→ Static cycle safety stats + more cycling = safer cycling per person?

Case Study: Christchurch - growth of a Network

- Post-quake push to develop citywide network of Major Cycle Routes
 - -\$300m+ investment







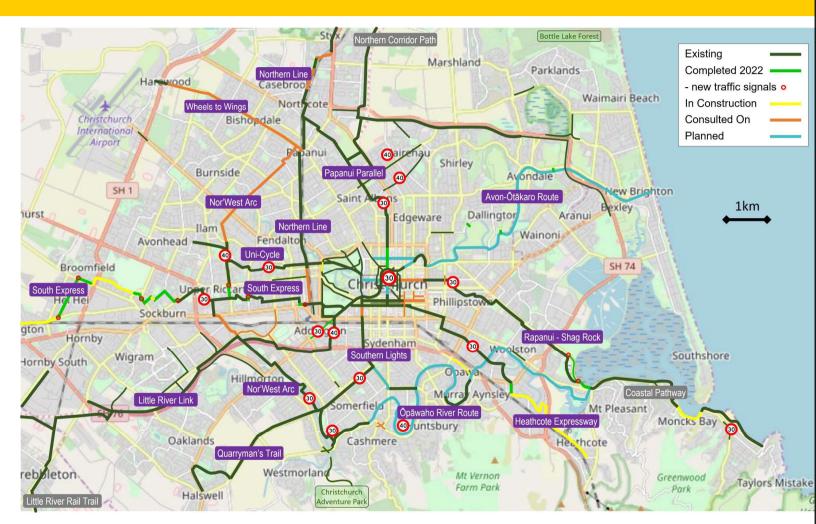
A Variety of Treatments...



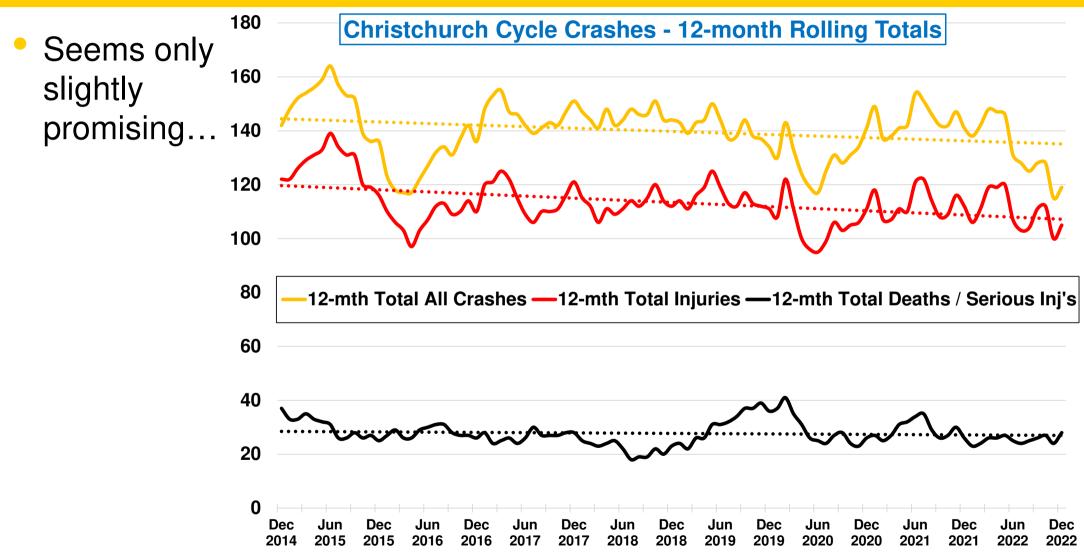


Christchurch: 2022 Network

- Over 60% of Major Cycle Routes now completed or under construction
 - Also lots of low speed zones

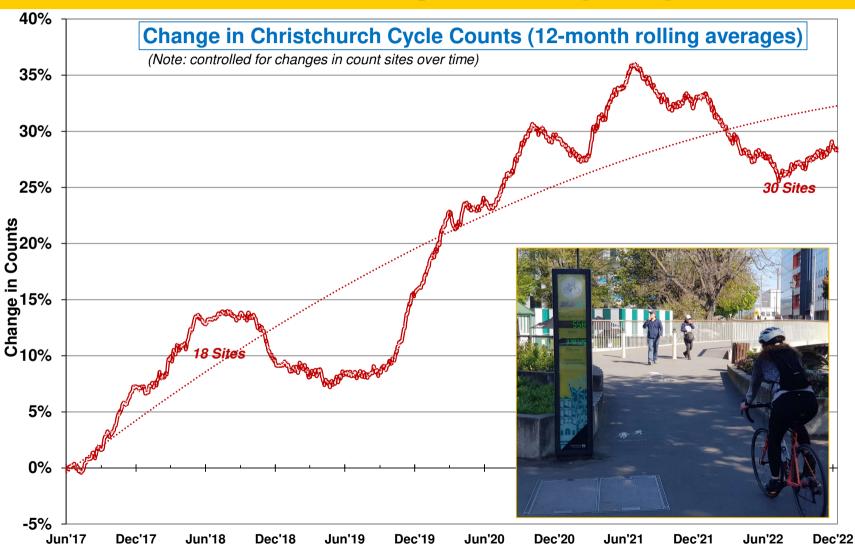


Christchurch: Safety can improve...



Christchurch: ...and this is on top of major growth!

Casualty rate per rider has improved...



Conclusions

- Cycling safety stats in NZ are relatively static
 - -But cycling growth is probably improving the personal risk
 - -Christchurch: better cycle facilities leading to growth + safety
- Still need to implement a number of Cycle Safety Panel recc's
- Truck crashes still 30-35% of cycling fatalities in NZ
 - More left to tackle in this area
- Introduce more safe-system measures for cycling
 - Protected cycle facilities
 - Lower speeds

Thank You!



Any Questions?

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