

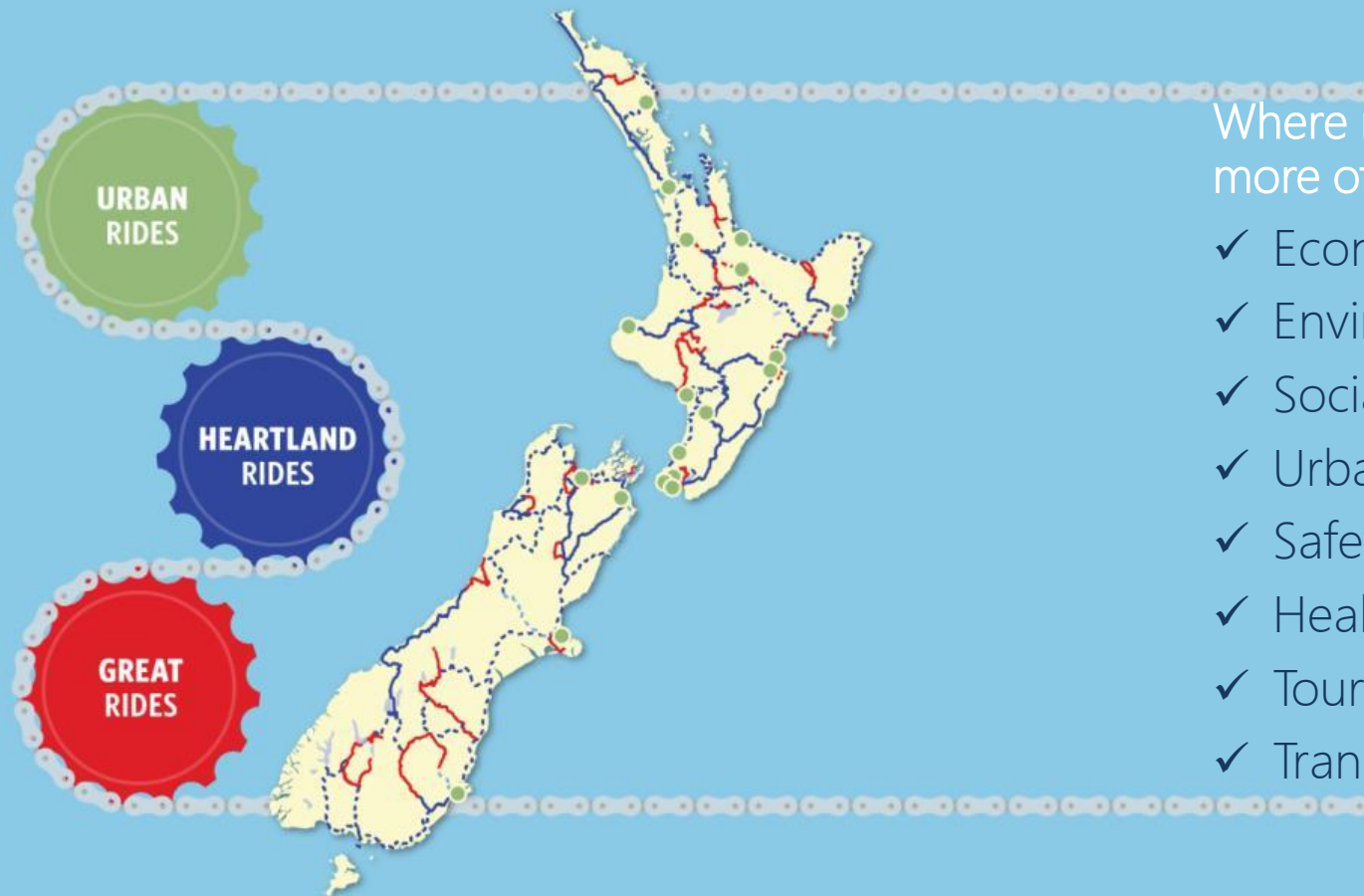
# Connecting NZ by Bike:

Enabling safer rural cycling through a national network



CREATING MORE VIBRANT AND CONNECTED COMMUNITIES

# BUILD A STRONGER, MORE PROSPEROUS NEW ZEALAND



Where more people riding more often has outcomes for:

- ✓ Economic development
- ✓ Environment
- ✓ Social well-being
- ✓ Urban development
- ✓ Safety
- ✓ Health
- ✓ Tourism
- ✓ Transport

# America network map



# United Kingdom network map



# Euro Velo (Europe) network map





# Full Potential NZ Cycle network map

## New Zealand Cycle Network Connecting New Zealand by Bike

### Full Potential beyond 2022 as at April 2017

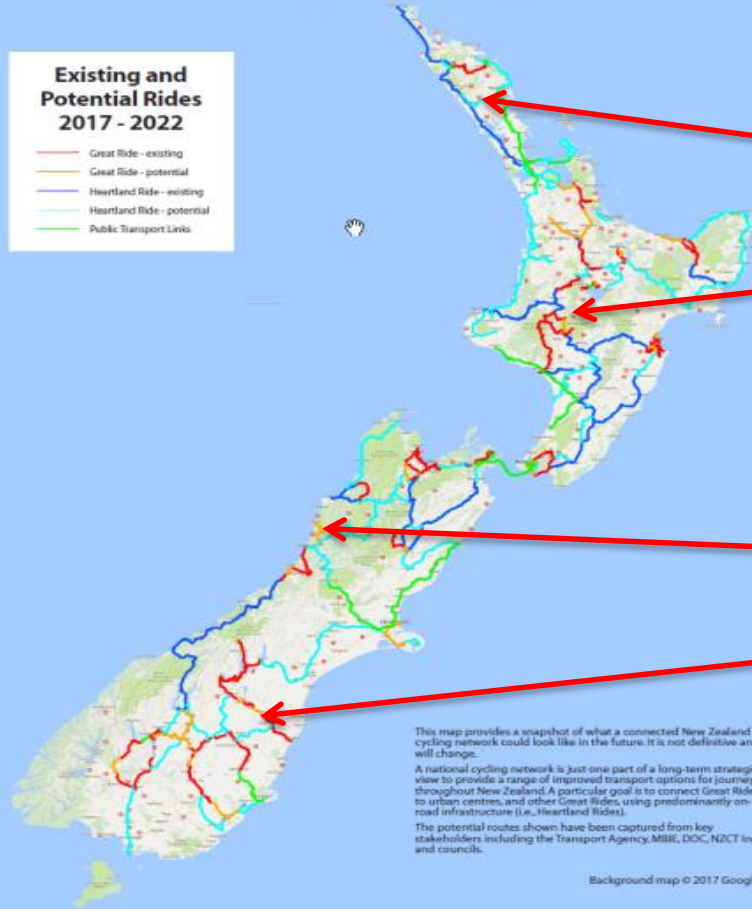
- Great Ride - existing
- Great Ride - potential
- Great Rides - far future
- Heartland Ride - existing
- Heartland Ride - potential
- Heartland Rides - far future
- Public Transport - major links
- Other Cycle Routes - existing



## New Zealand Cycle Network Connecting New Zealand by Bike

### Existing and Potential Rides 2017 - 2022

- Great Ride - existing
- Great Ride - potential
- Heartland Ride - existing
- Heartland Ride - potential
- Public Transport Links



# Network Hub priorities next 5 years

Northland

Waikato & central North Island

West Coast

Central Otago

Plus other key connections



# Great Ride vs Heartland Ride

## Great Rides

- Premium cycling products
- Predominantly off-road trails
- High levels of investment
- **Customer** - Variety of trails suitable for all ages with skill level from novice to experienced cyclists

## Heartland Rides

- Predominantly on-road routes
- Scenic backcountry roads
- Low levels of investment
- **Customer** - Suitable for experienced, confident cyclists



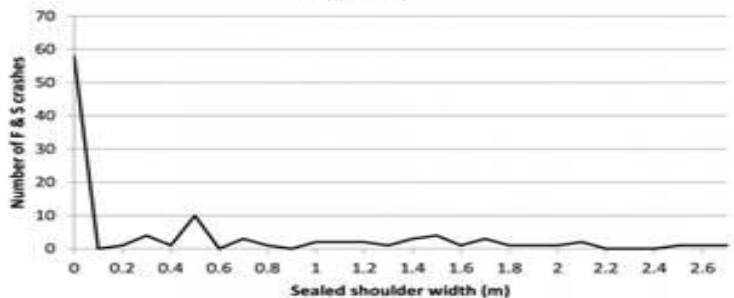


# Assessing on-road cycle routes (Heartland Rides)

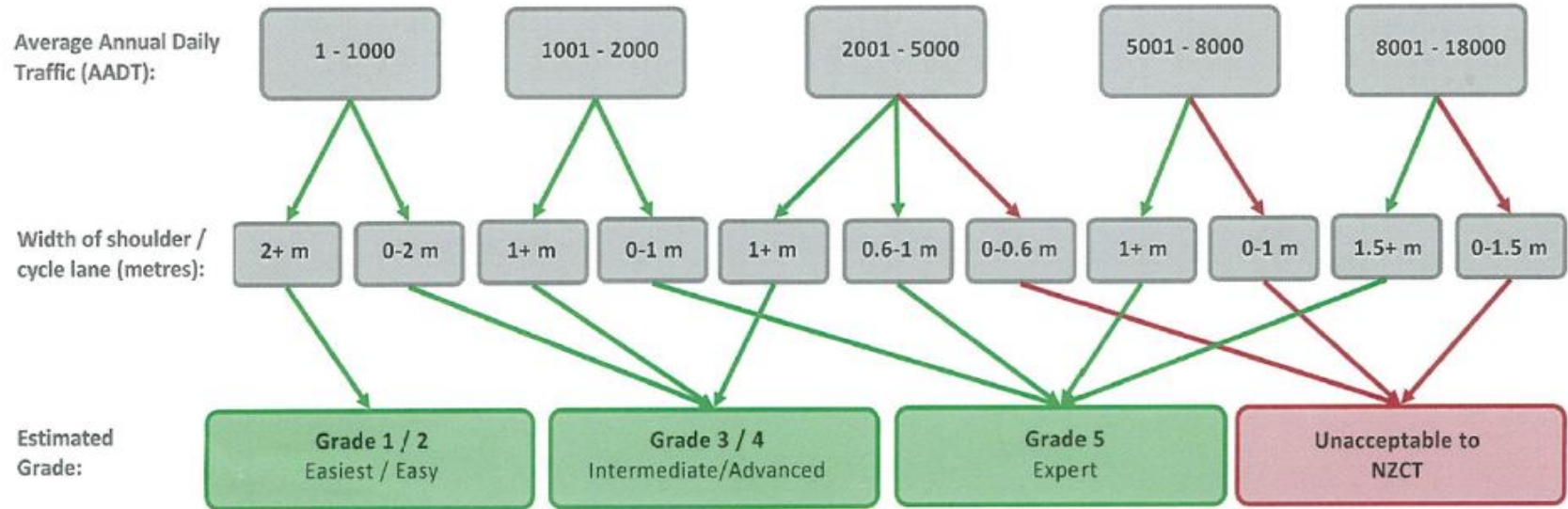
Safety depends primarily on a combination of:

- Traffic volume
- Traffic speed
- Road shoulder width

Same direction rural fatal and serious cyclist crashes by shoulder width  
2003-2012



# Assessing Heartland Rides on open roads (100km/h)



# Off-road cycleways



Waikato River Trail (Horohoro Rd)



# Off-road cycleways

- Understanding the customer is important
- LoS has to be better than the road



SH8 near Lawrence



Karapiro path





# Low volume roads



SH43 Forgotten World Highway



Country road





# Space is important



Rumble strips

1m+ shoulder ideal  
(SH1 Over 4000 AADT)

No shoulder (SH83  
approx 1200 AADT)



# Shoulder widening



- Pavement surface is important – small chip – preferably no bigger than grade 2. Or slurry seal?
- Opportunity through routine maintenance or renewal programmes



# There will be challenges and set backs on low volume rural roads

- We are moving into new territory
- We need to be innovative
- What we do will not always be popular to everyone
- Some things won't go as planned, but we'll learn from them
- We need to bring our communities with us

## NZTA abandons cycle safe trial after a day

ELTON SMALLMAN

Last updated 15:37, July 29 2015.



# 2-1 layouts - variations



Europe



Tuki Tuki Rd, Hastings



Europe



Europe



Mock up





# Rural Sharrows??





# Atiamuri Bridge – high cost incorporated into design



# Taramakau Bridge clip-on



Built so it can be removed and used on another bridge



# Low cost bridge treatments



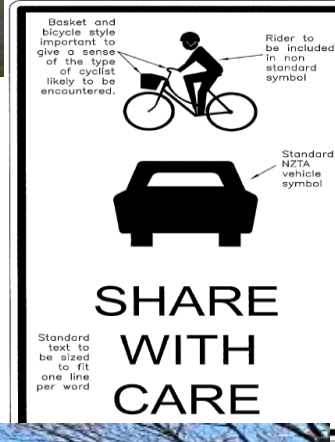
Beaumont Bridge SH8



Oreti Bridge

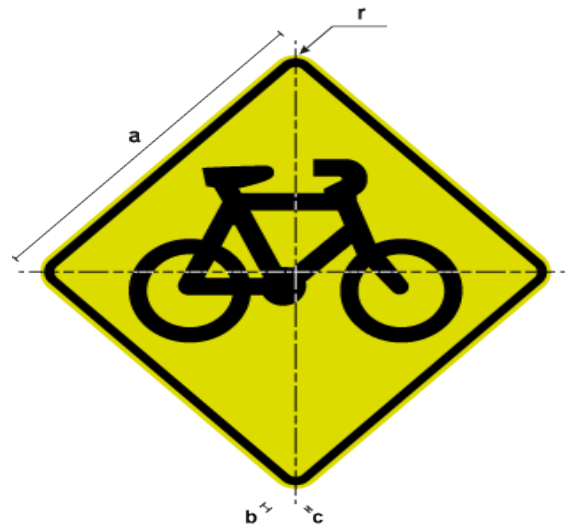


# Static Signs...



# Signs – sector agreed

## New



## PW-35





# Wayfinding – sector agreed

NZCT signage

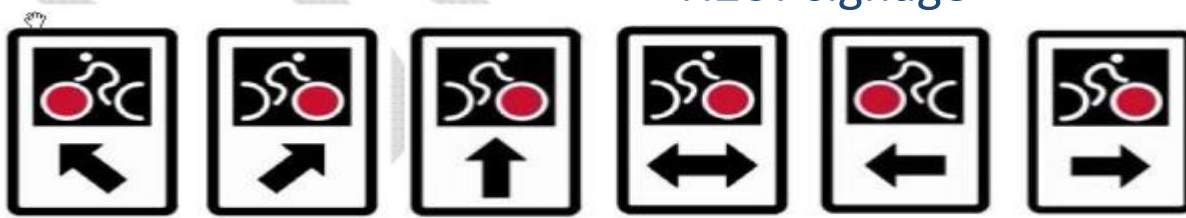
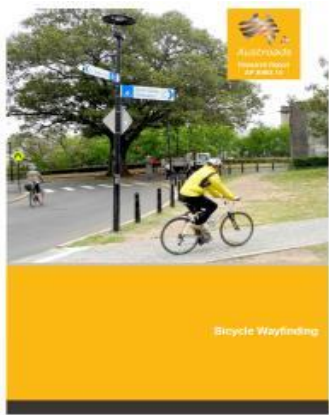


Fig 5. NZCT Direction Signs can show six basic directions



Austroads  
Bicycle  
Wayfinding



# Active warning signs



Appleby Bridge

Birds Hill – Golden Bay



# Speed management & thresholds?



# Active warning sign & variable speed sign?



# Key messages

- Space is important!
- Understanding the customer?
  - Novice to experienced
- Speed & traffic volume = increased risk
- Lastly recognition that more people are cycling all over NZ, so intent is to direct people to safer and attractive alternative routes

\* Some photos courtesy of Kennett Bros





# Biking to the Future together

