

Overview

EXISTING
CONDITIONS
Subtopics...

PLANNING PROCESS

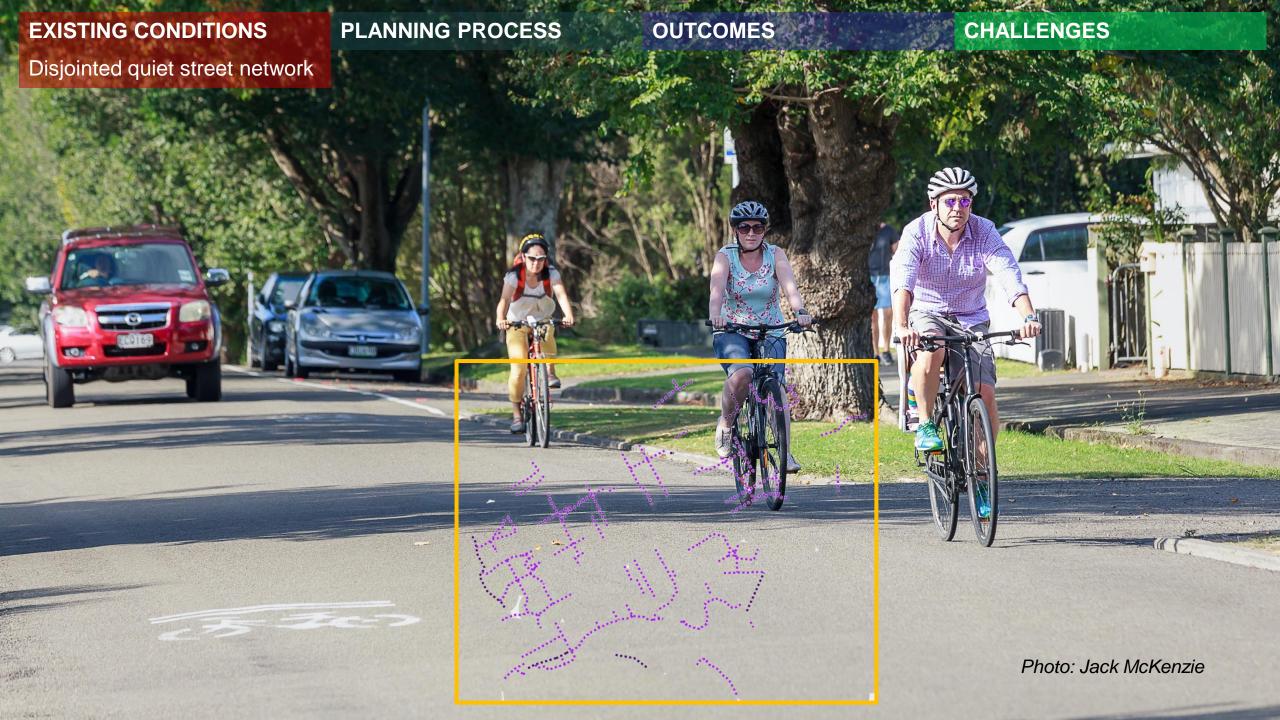
OUTCOMES

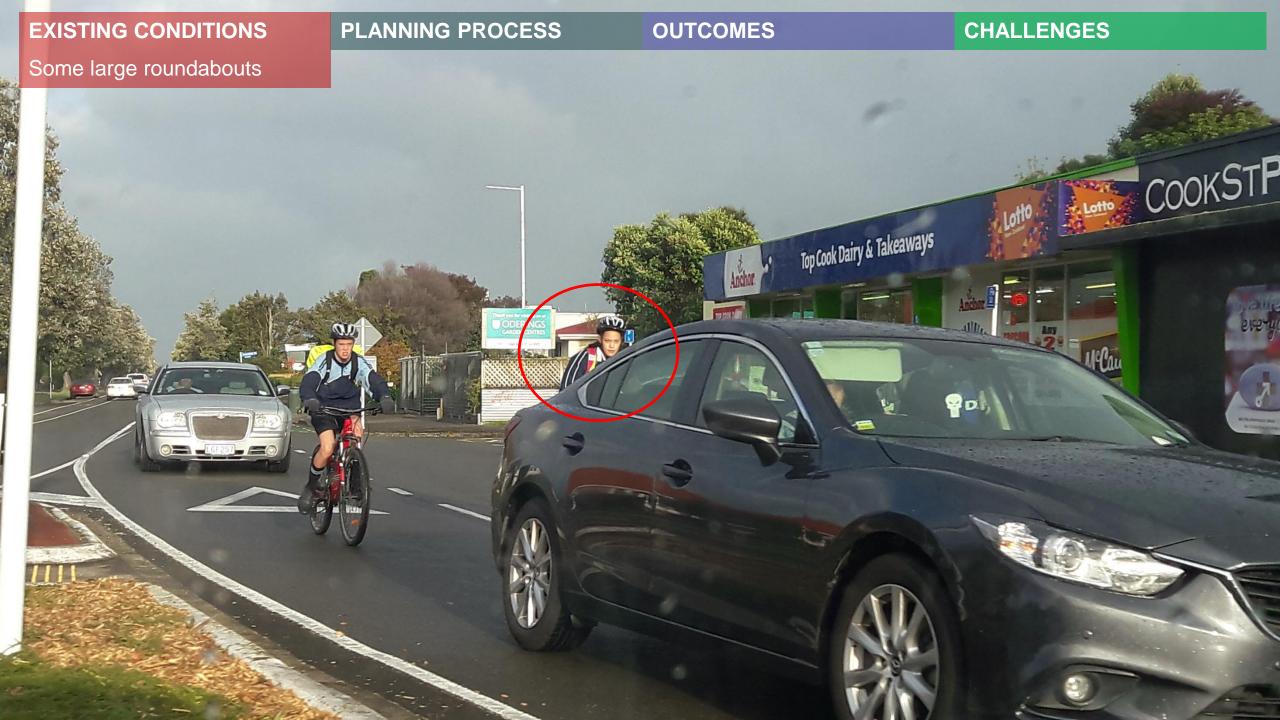
CHALLENGES



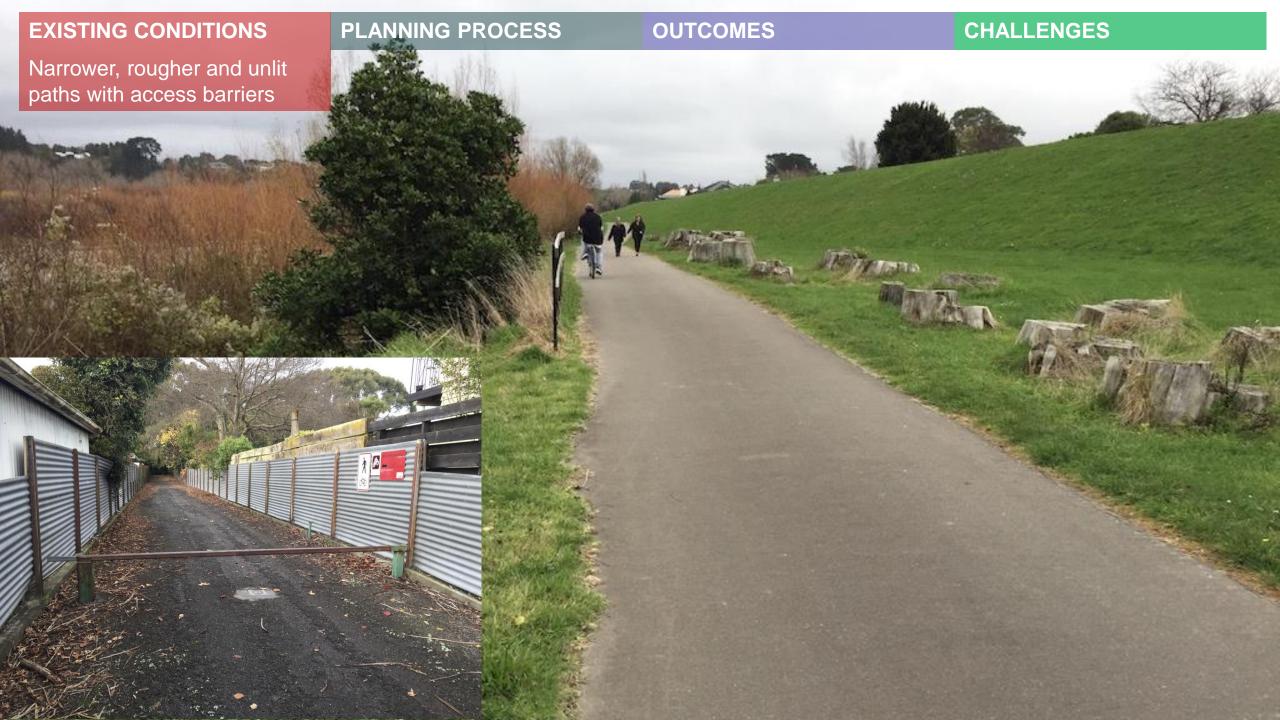






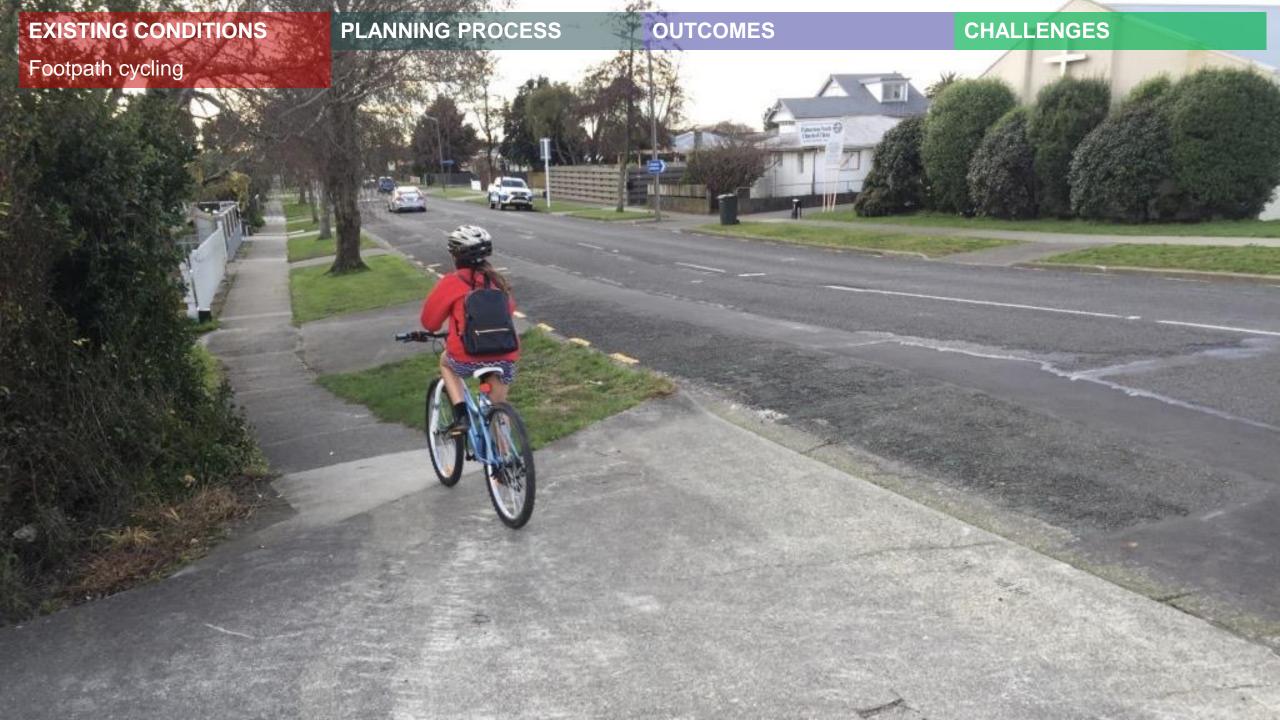














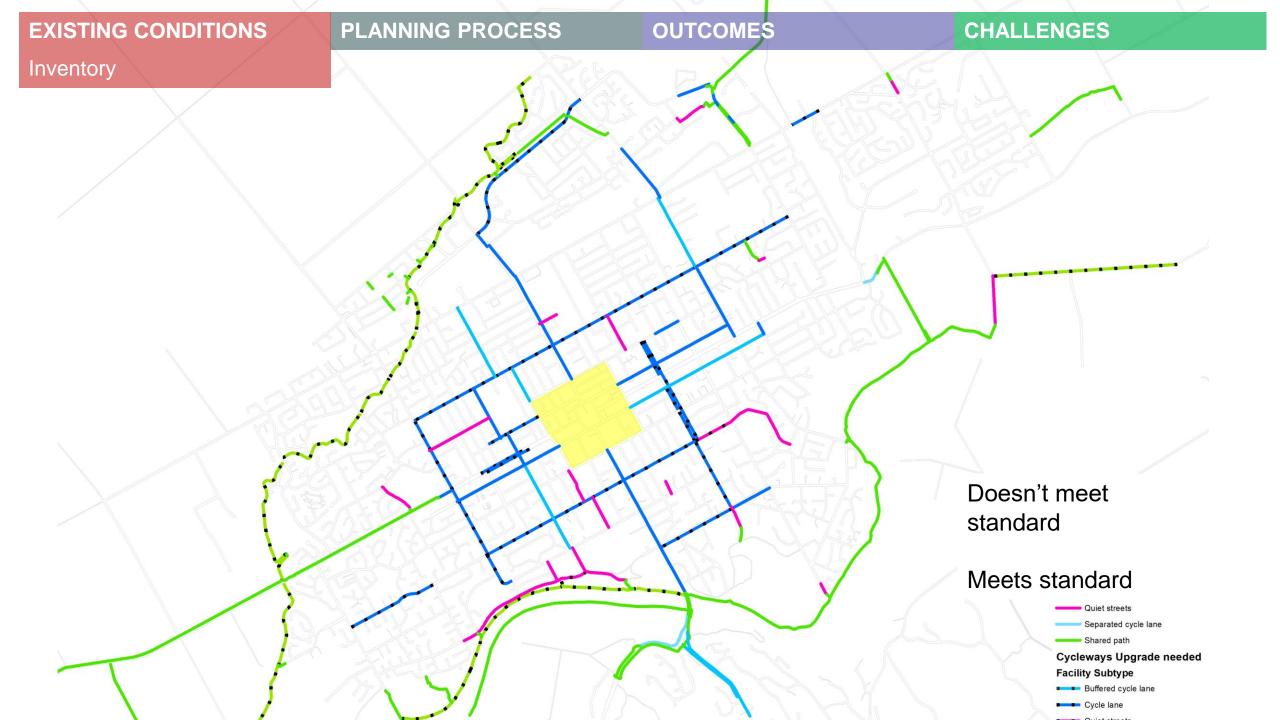












Intersection	Injury crashes (2014-18)
Church / Ruahine	10
College / Cook	9
Ferguson / Victoria	9
Church / Cook	6
Broadway / Victoria	5
Albert / Ferguson	4
Featherston / Russell	3
Plus key barriers	
Bourke / Featherston	2
Botanical / College	1
College / Fitzherbert	1
Featherston / Rangitikei	0





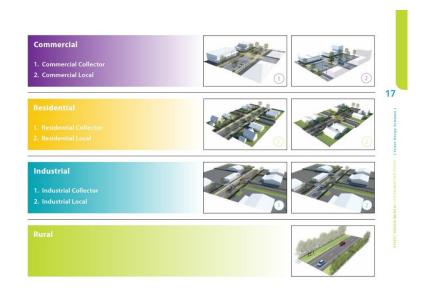
Identify and map the benefits

- Improved accessibility by cycling
- More transport choices
- Fewer killed & injured
- Better health outcomes
- Environmental and resource sustainability



- PNCC Street Design Manual 2013: great ideas, but implementation challenges
- Some missing elements; major advances since then led by NZTA:
 - One Network Road Classification (ONRC)
 - Cycling Network Guidance (CNG)
 - MegaMaps safety risk
 - Policy, legislation, and economic changes











Define and determine Quality of Service

Buffered (wide)
Cycle lanes
\$

Post & Paint \$

Simple kerbs \$\$ Island kerbs &/or inset parking \$\$\$

Full street reconstruction \$\$\$\$

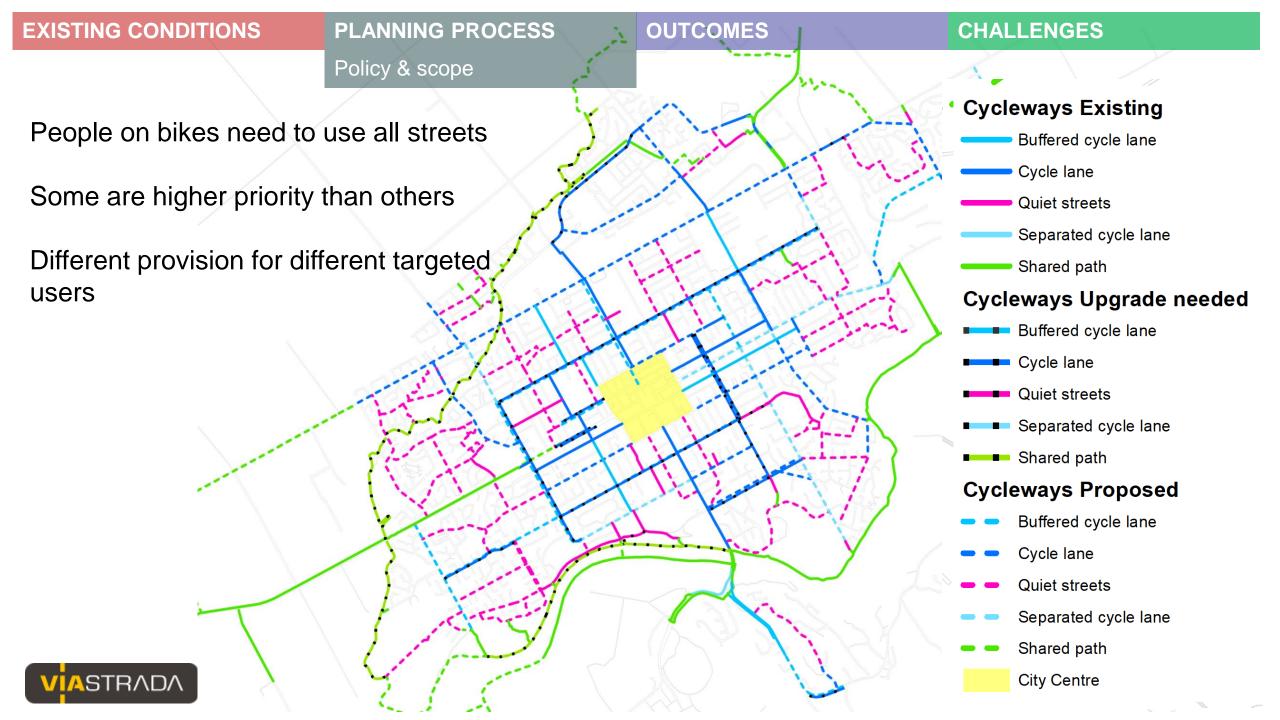












Find people to tell the story

WORK COMMUTES

GRAHAM

Bus driver

Rides to depot via Highbury Avenue, Botanical Road, and Tremaine Avenue.



Exercise at work is very slim so I bike to work to keep trim. As I drive my bus I pass cyclists without a fuss.

EVERYDAY TRIPS

JOE

Contractor

Bikes to daycare and then to job site.



SCHOOL TRIPS

ELSE

School student

Rides Fitzherbert Avenue every day to Palmerston North Intermediate Normal School.



RECREATION, FITNESS

RAEWYN

Online learning specialist

In her spare time, Raewyn coordinates the iBike4kids and women's skills programme; helps people get confident and out biking



Figure 13: These Palmerston North locals are currently riding and are role models

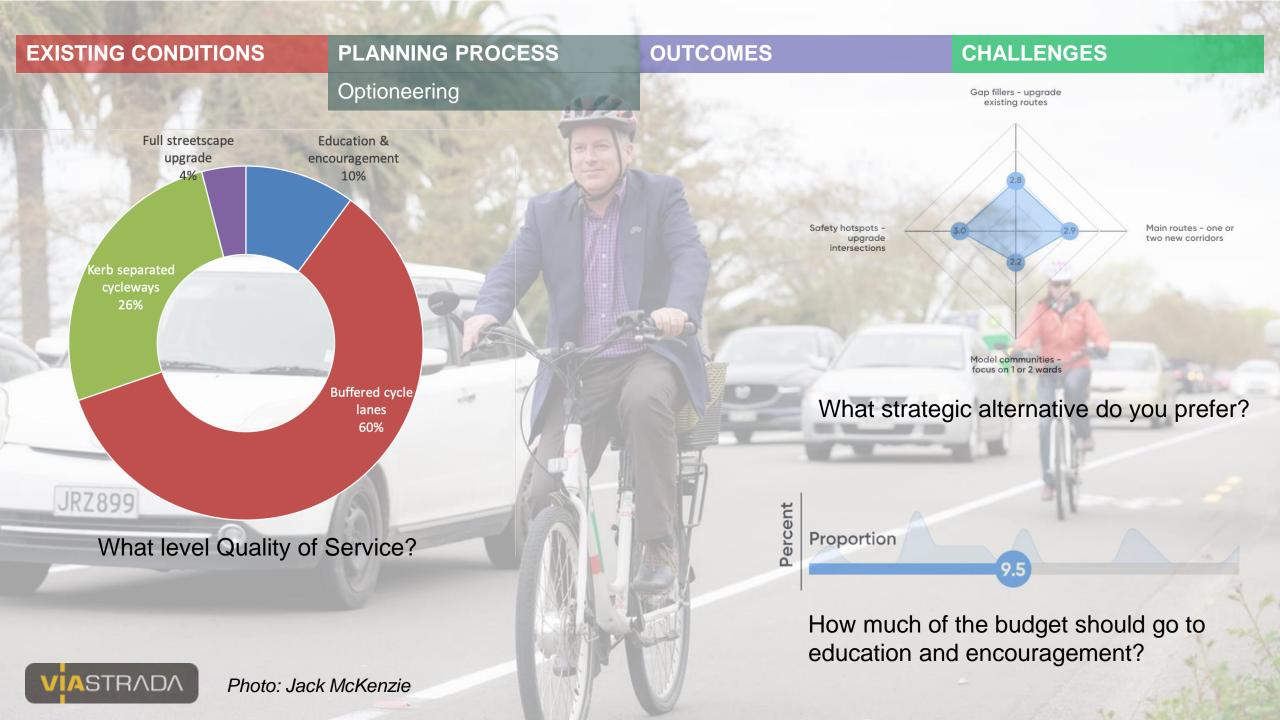


Figure out the investment mix

PLANNING PROCESS

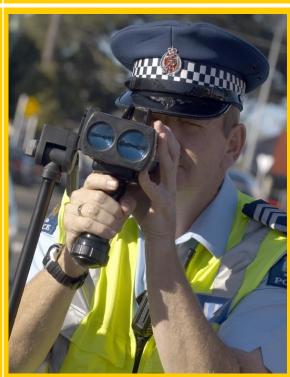
Infrastructure

Enforcement

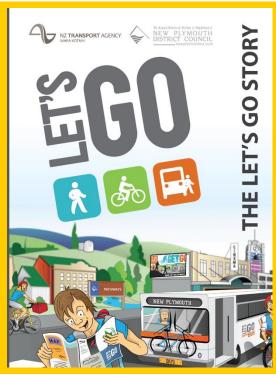
Education

Information











Strategic alternatives

PLANNING PROCESS

Intersections



Model communities



Schools focus



Gapfillers



Arterial routes



Local streets





Prioritisation guidance



Multi-criteria analysis: a manual

Multi Criteria Analysis for **Transport Business Cases**

Guidance document





New Zealand Government



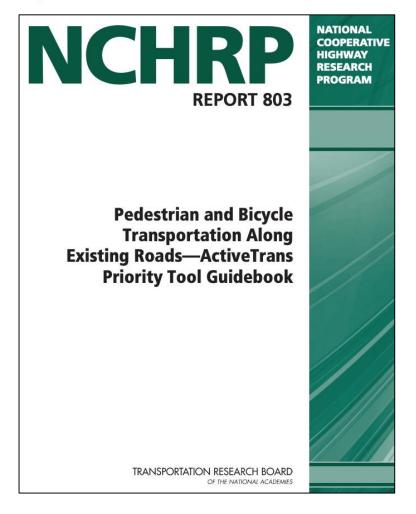


Prioritisation guidance



ActiveTrans Priority Tool

 Tool developed based on experience of 50+ US cities in planning walking and cycling networks





Factors included in the prioritisation method

Feasibility



- Business and resident parking impacts can be mitigated
- Network operations (traffic signals, maintenance) can be mitigated
- Ease of constructability (right of way, road profile)
- Consultation requirements

Cost



Rough order capital cost is lower

Asset management



Higher priority if cycleway can be part funded through planned road surface, kerb and channel or sub-surface pipe renewals

Safety



- Reported crashes involving people on bikes
- Heavier traffic routes

Demand



- Number of residents served
- Number of age 10+ school students served

Connectivity



Leverages previous investments in cycling network and/or connects to key activity centres / central city

Equity



Areas of high need as defined by the NZ social deprivation index

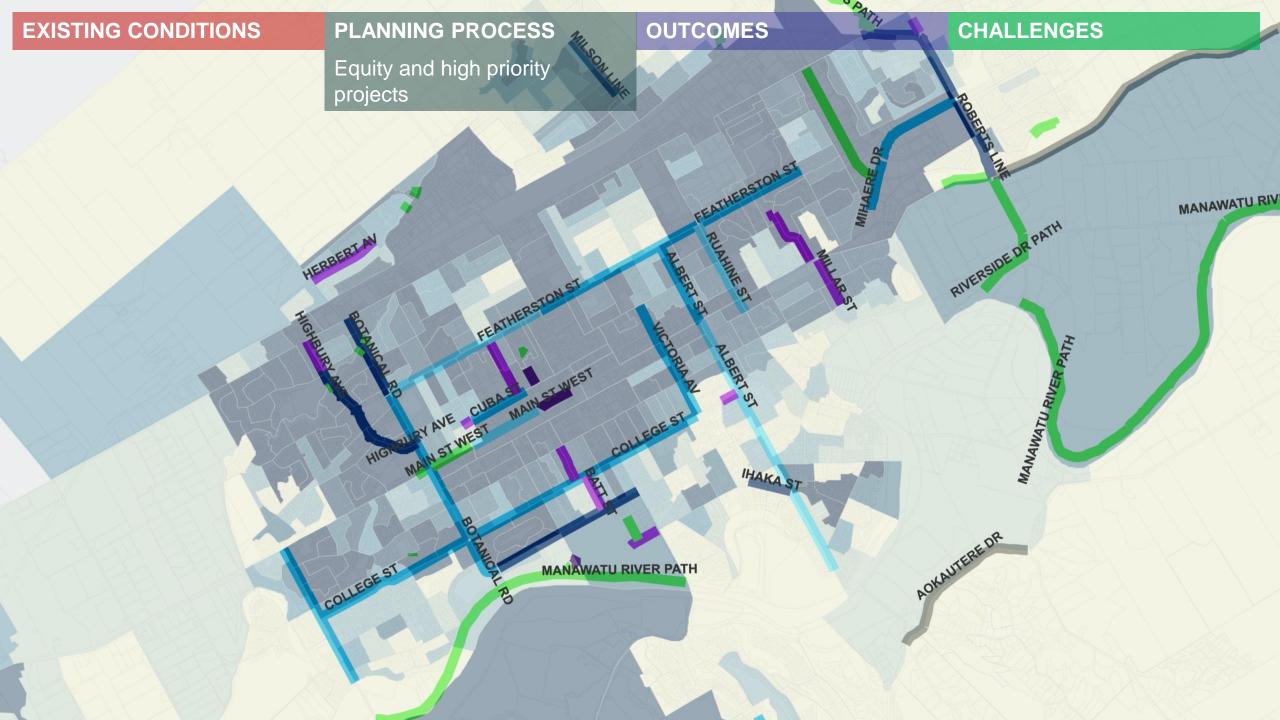
Modal conflict



Routes that are not freight or motor vehicle priority routes (unless there is more than enough width)





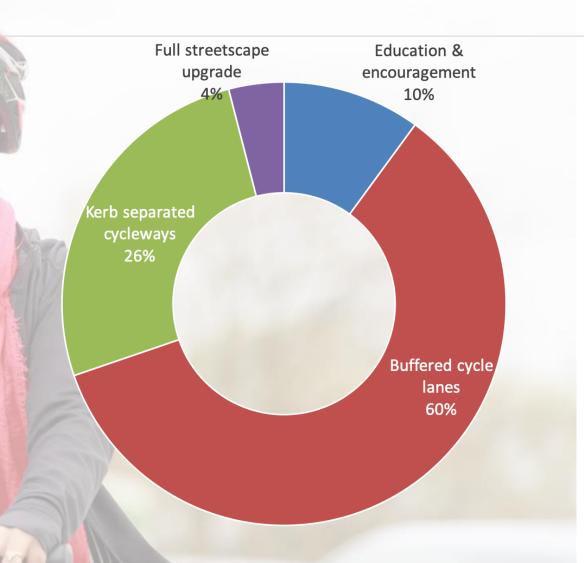


- Online interactive plan & map (11 p)
- Business case (140 p)





- Aim for all ages and abilities, within network and transport mode constraints
- Equal emphasis on intersections and mid-block cycleways
- Support physical works with robust marketing & communications plan





EXISTING CONDITIONS

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Medium term projects

Funding is constrained

EXISTING CONDITIONS

- Unless re-prioritise transport programme
- Intersections: no lead-in cycleways
 - Unless we reallocate space or widen streets
- Local streets: LATM Policy is dated (2003)
 - Review and adopt updated policy
- Parking: no current city-wide policy
 - Build on 2016-2018 parking plan



OUTCOMES

LOCAL AREA
TRAFFIC
MANAGEMENT
POLICY and
GUIDELINES

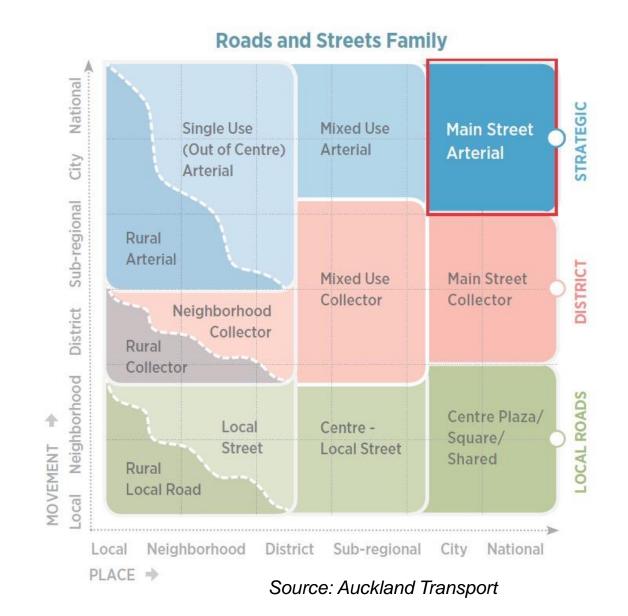


Continually improve public engagement





- Classify streets not only by car movement but also place value
- Inform future street design and renewals
- Cycleways plan will prioritise work that should not conflict with emerging framework





EXISTING CONDITIONS

CONCLUSIONS

- My paper has detail, including why, in the era of Roads and Streets Frameworks and arterial masterplans, doing plans and business cases for individual modes remains important
- 2. We've heard David Sims to Daniel Newcombe there remains a view that paint-only cycle lanes are ineffective. But we also heard from Tim Hughes that recent NZ CLOS research shows they are appreciated by our customers and should be in our toolbox.
- 3. Telling stories helps
- 4. Prioritisation can be difficult and contentious
 - but there are tools to help
- 5. Building infrastructure is only one part of the solution



Photo: Jack McKenzie

Thanks!

