Christchurch Major Cycleway Routes: Lessons for building a network

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Major Cycleway Routes - Ōtautahi Christchurch



2011 – Earthquake

2012 – Transport strategy released

2014 – Government announce funding for Urban Cycleway investment

2015 – MCR Programme approval at CCC

2015 – First section of Unicycle opens

2020 – Council receives "Shovel Ready" funding (4 MCRs + Coastal)



How hard can it be to deliver a project?

All Projects

On Budget (47.9%)

On Budget and On Time (8.5%)

On Budget and On Time and On Benefits (0.5%)





How hard can it be to deliver a project (scaled)?





Which projects are hardest?

	Average Cost Overrun (%)
Nuclear storage	238
Olympic Games	157
Nuclear Power	120
Hydroelectric dams	75
IT	73
Roads	16
Pipelines	14
Wind Power	13
Energy Transmission	8
Solar Power	1







Where have we done poorly?

Build with Lego

Many bespoke solutions developed rather than standardisation



Watch your downside Irreversible decisions made early, meaning limited options to overcome problems



Say "no" and walk away Forced to battle intractable problems, meaning little success but high cost and stress





Where have we done OK (1)?

Think slow, act fast	Learning to solve problems in design rather than construction
Get your team right	Probably needed a dedicated Programme Manager throughout
Take the outside view	Did well looking at international best practice initially, but



Where have we done OK (2)?

Ask "why"

Have lost focus on the purpose of the projects: scope creep

Utility relocation: - often includes bringing up to current standards Improved local access: - new crossing points - intersection narrowing Road renewal:

- reprofile road & footpath
- reset manhole covers
- deal with contaminated land road rehab and surfacing

Deep dish removal:

- install new drainage
- upgrade drainage to resolve flooding issues
- replace many laterals





Where have we done well?

Make friends and keep them friendly

Many noisy advocates supporting the projects

Build climate mitigation into your project Future proofed for seal level rise, extreme weather. Supports a low carbon lifestyle (But... lots of concrete!)

Hire a masterbuilder

Panel agreements with consultants and contractors







Are we succeeding?

On Budget?	On Time?	On Benefits?
X		
Original Business Case: ~\$190m Current Forecast: ~\$290m	Original Business Case: Completion by February 2023 Current Forecast: Draft LTP has funding to complete by FY29	User numbers looking good and growing!
>50% increase	At least 6 years late	0% 2018 2019 2020 2021 2022 2023 2024



Benefits

Benefits (in 2015) were calculated as ~\$1.2bn

Likely to have increased significantly

Benefits are heavily about:

- a) People "moving"
- b) Improvements to air quality

Possible erosion in benefits?

- E-scooters & E-bikes no movement!
- Electric Vehicles no air quality issues!



