Elevating Urban Mobility: Cable Cars as Urban Transport

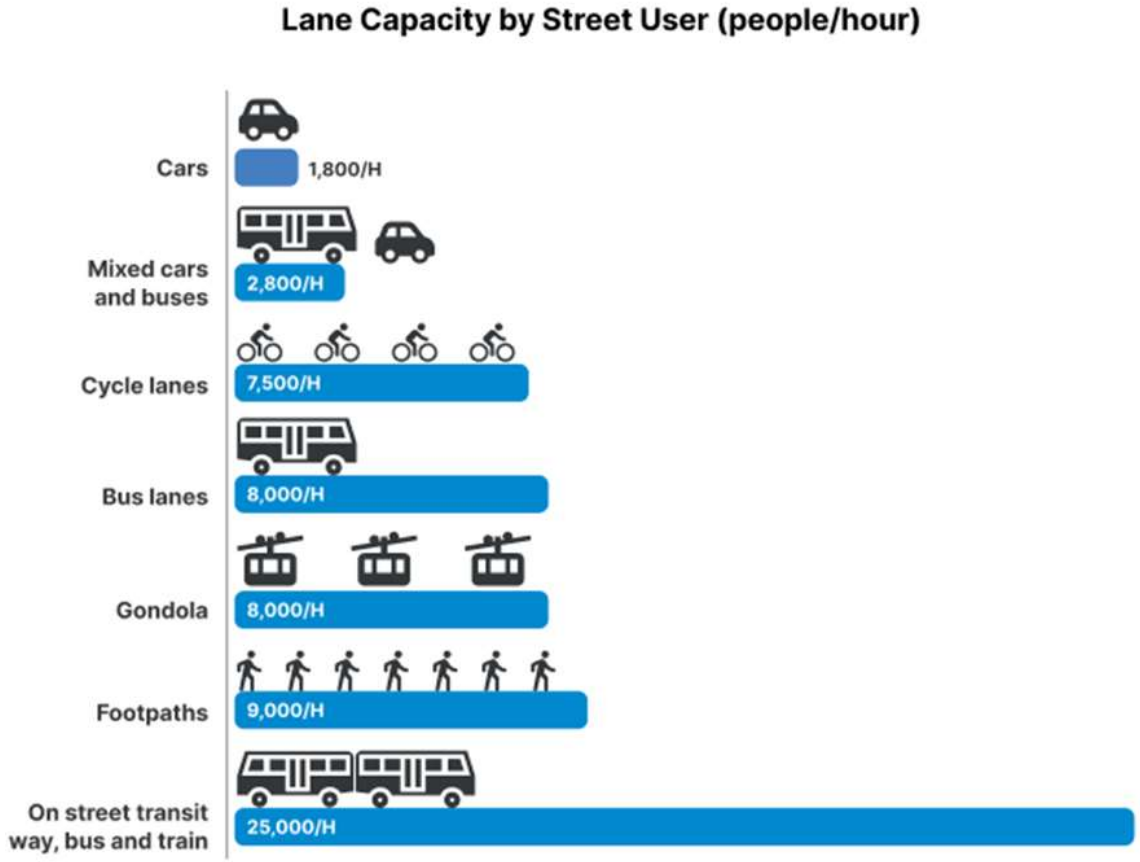
Mabley

New Zealand's Transport Landscape

- New Zealand population - An increase of around 20% over ten years (Stats NZ)
- Reliance on private vehicles - The New Zealand Household Travel Survey 2018 found that around 78% of all trips are made by private vehicles
- Strain on the transport system - New Zealand's diverse topography necessitates a tailored approach

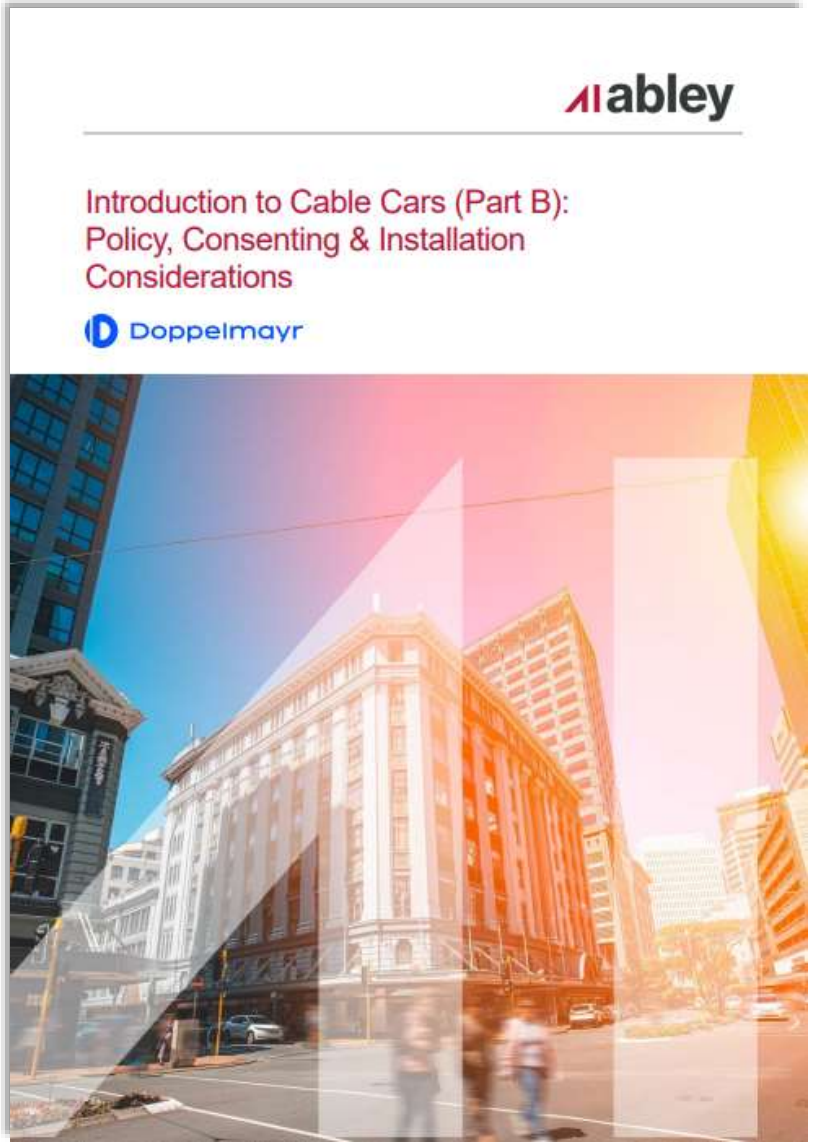
Cable Cars as Public Transport

Public Transport Characteristic	Cable Car
Service Frequency	High-frequency cable cars can arrive every 15 seconds and be adjusted for off peak times
Reliable Journey Times	Avoids ground congestion, shorter travel distances and has a consistent travel speeds of 25km/h
Integration	

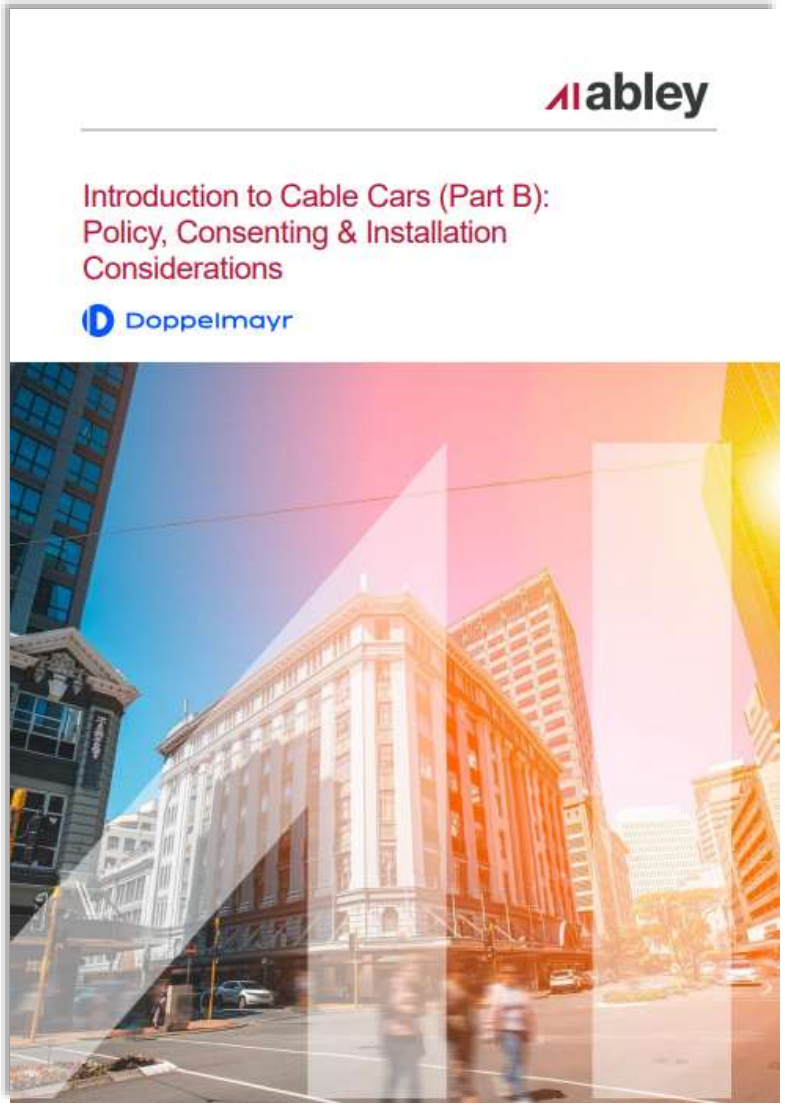


FAQ's

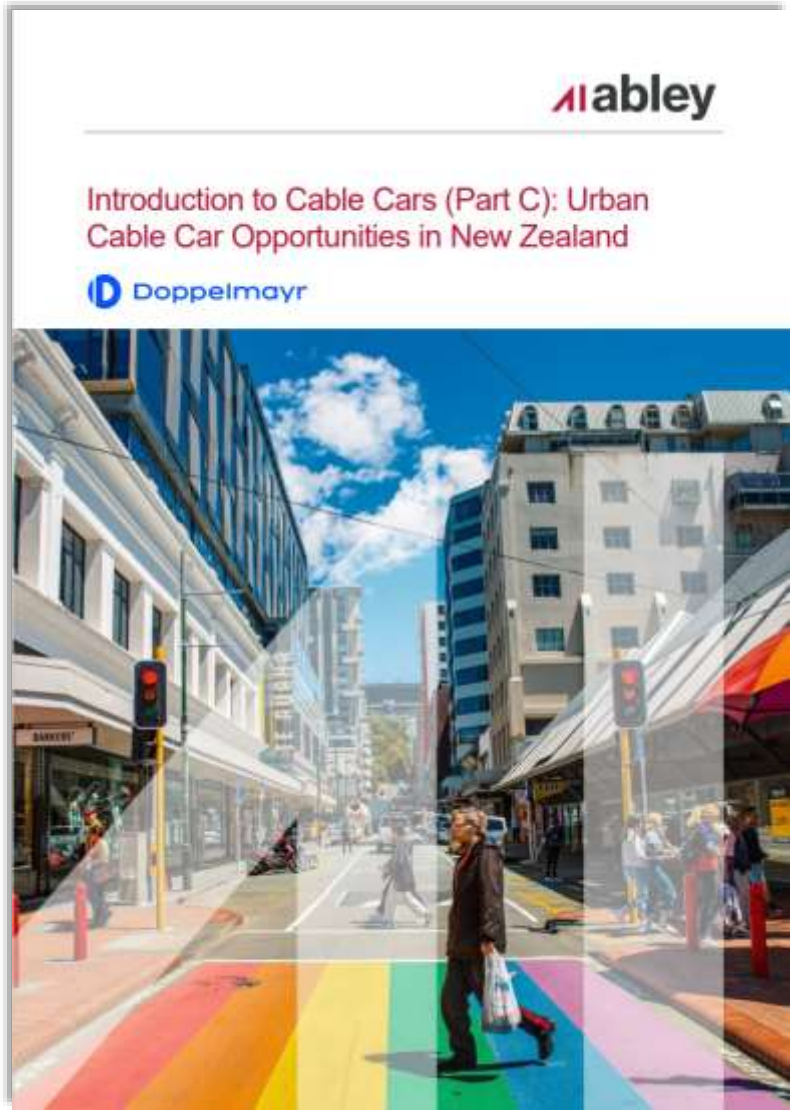
- **Wind**: Cable cars can operate in winds up to 100km/h
- **Privacy**: Smart Design maintains privacy
- **Noise**: Cable cars are one of the quietest modes of transport

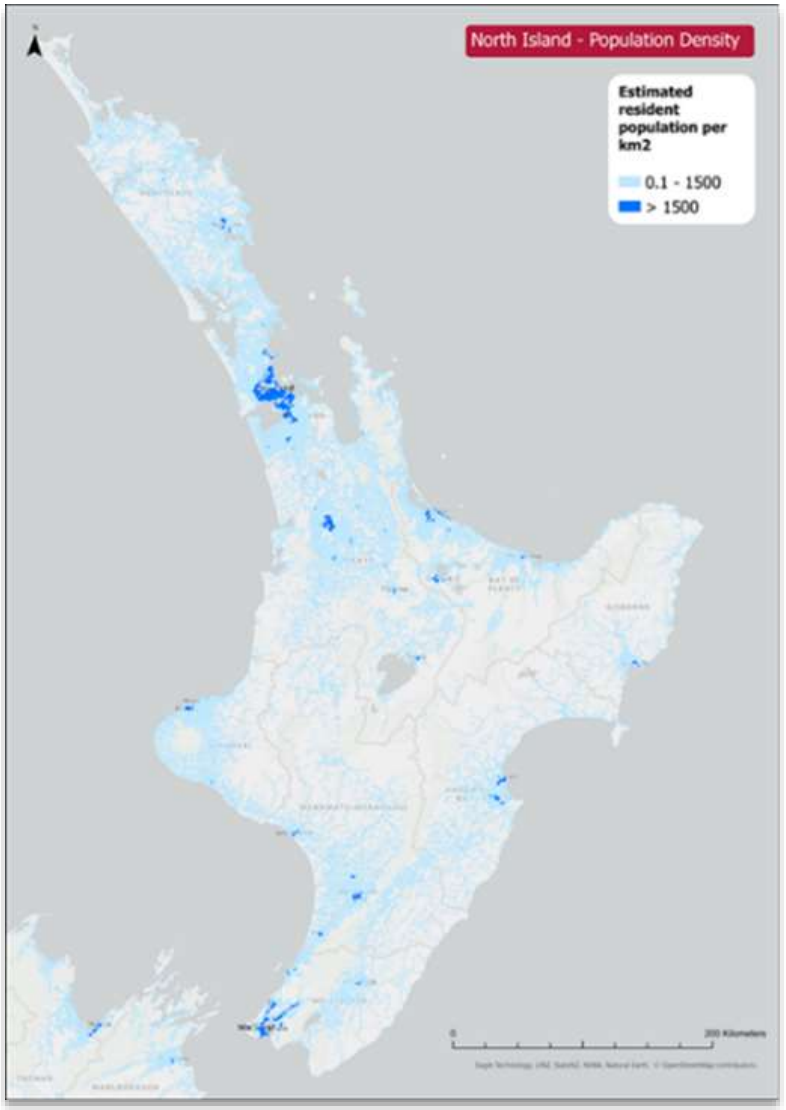


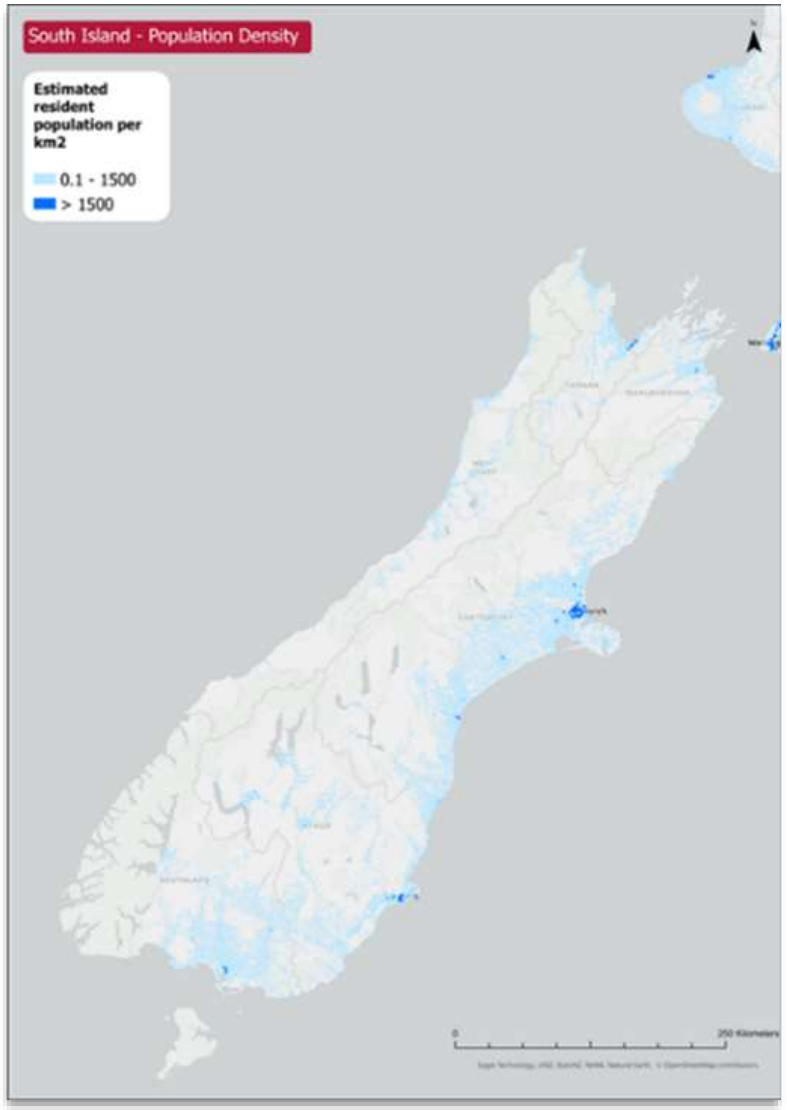
Draft GPS 2024 - Strategic Priority	
Economic Growth and Productivity	Cable car systems offer optimised travel connections without contributing to increased road traffic volumes.
Increased Maintenance and Resilience	Adopting cable cars can mitigate strain on road corridors, reducing regular maintenance costs.
Safety	Cable cars have a good track record for safety
Value for Money	Cable cars offer significantly lower whole-of-life costs of major improvements to public transport, with far lower economic disruption during construction.

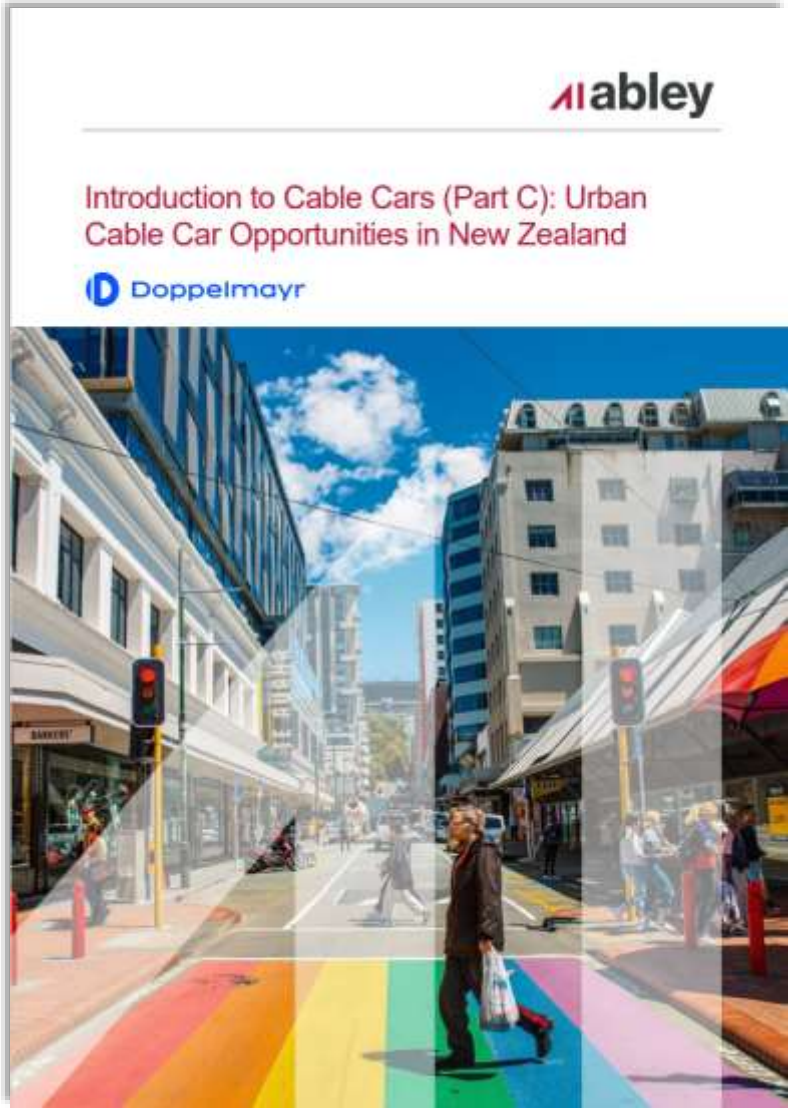

ableyIntroduction to Cable Cars (Part B):
Policy, Consenting & Installation
Considerations
Doppelmayr


portland aerial tram


ableyIntroduction to Cable Cars (Part C): Urban Cable Car Opportunities in New Zealand
Doppelmayr


North Island - Population Density
Estimated resident population per km2
0.1 - 1500
> 1500


South Island - Population Density
Estimated resident population per km2
0.1 - 1500
> 1500



Cable Car Route	Length – Construction (km)	Cost/km Estimate ($ million)	Travel Time Car (min)	Travel Time Bus (min)	Travel Time Cable Car (min)	BCR
Auckland Airport - Onehunga	9.0	52	33	44	26	2.4
Onehunga – CBD	8.4	50	28	54	23	2.6
Airport – Botany	15.1	48	53	77	53	2.3
Wellington Airport – CBD	7.0	60	36	36	22	1.7
Wellington: Island Bay - Pipetea	7.2	40	22	42	20	2.0
Karori – CBD	3.2	60	20	33	8	1.8
Wainuiomata - Melling	6.8	40	17	47	18	1.2

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