

Doppelmayr

Lifting Aotearoa's sights to greater sustainable transport opportunities

Transport Conference 2024, Garreth Hayman

Agenda



Cable Car technology



Urban application



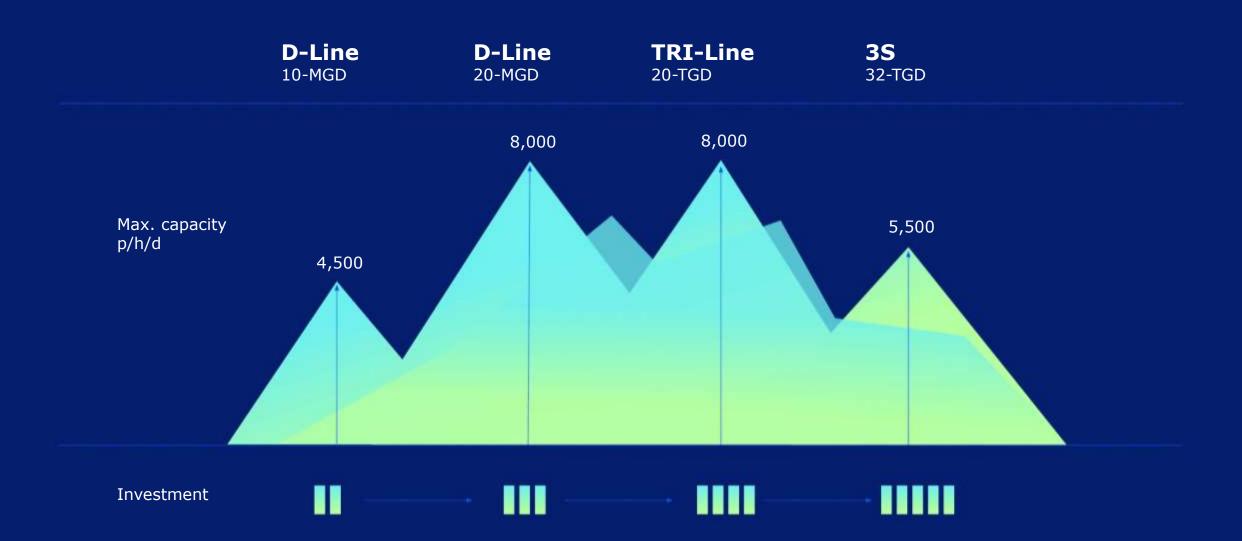
International references



Opportunity to lift Aotearoa



Mass Rapid Transport Solution









Cost



Integration









Cost



Integration



Reliable transport performance



99 % availability

35 years usage period

25 km/h

19 h operation per day

15 s
interval of cabins



Network integration





Structural integration

Lowest land usage out of motorized transport modes





Social integration

Accessible and attractive for everyone



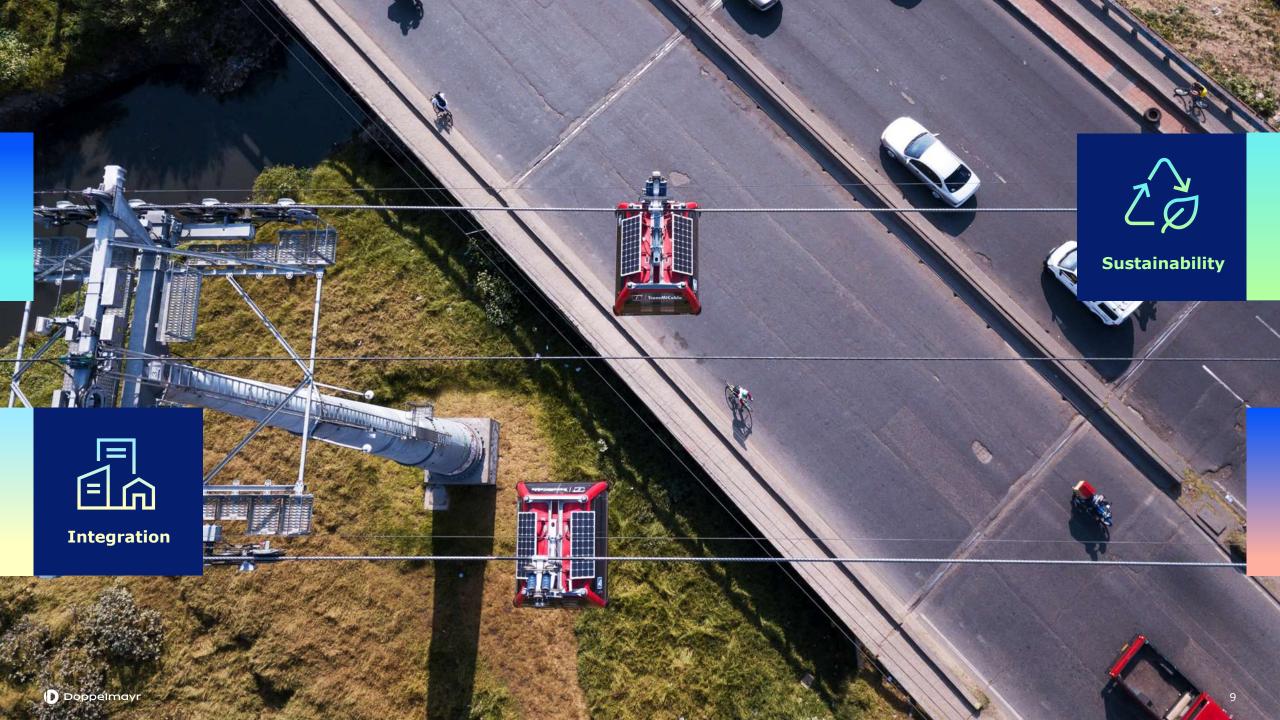












Carbon footprint of public transport solutions

350%

tCO₂eq

450%

215,094

400%

242,197 tCO₂eq

267,167 tCO₂eq



100%

48,204 tCO₂eq

Cable Car







Scenario: Linea Roja in La Paz

Capacity utilization: 69%

Transportation: 2069p/h/d, 16.6h/day

Time frame: 30 years, cradle-to-grave

Study "Green City Deals" by Prof. Dr. Jörg Niemann, University of Düsseldorf





Cost-effective

33% cost of light-rail

10% cost of underground railway

2 years
construction time

Light-rail

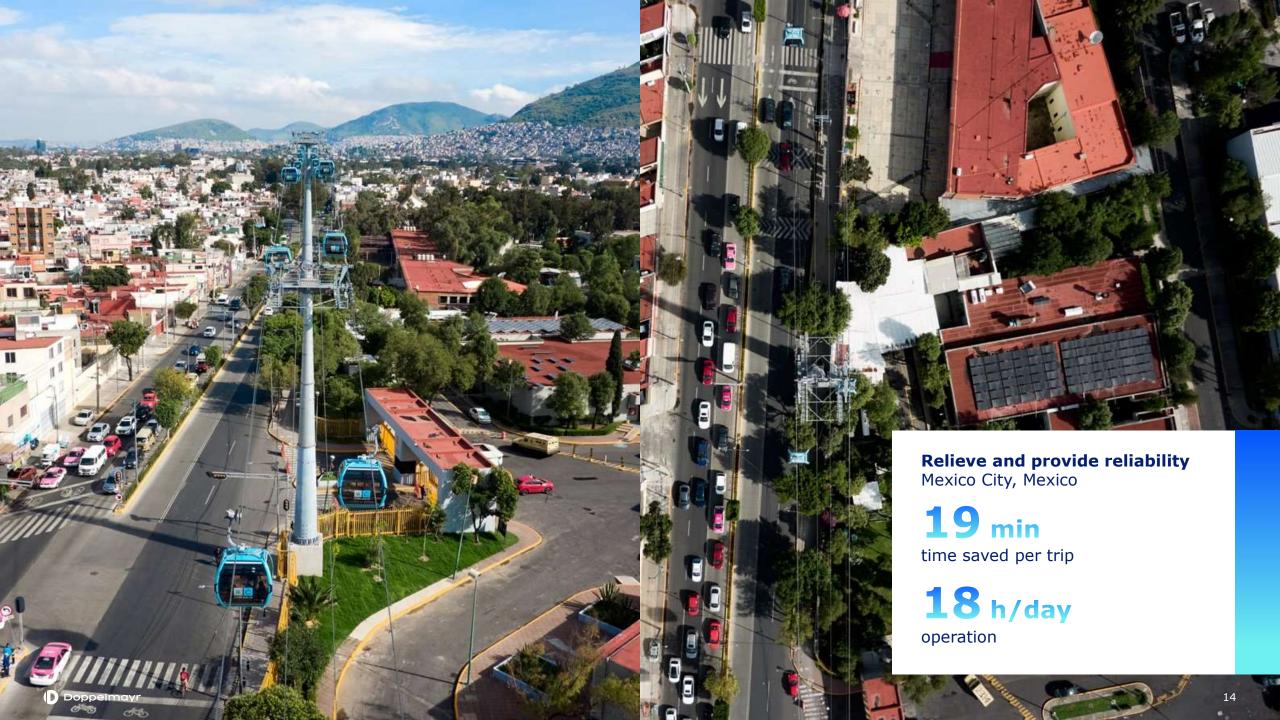
33%

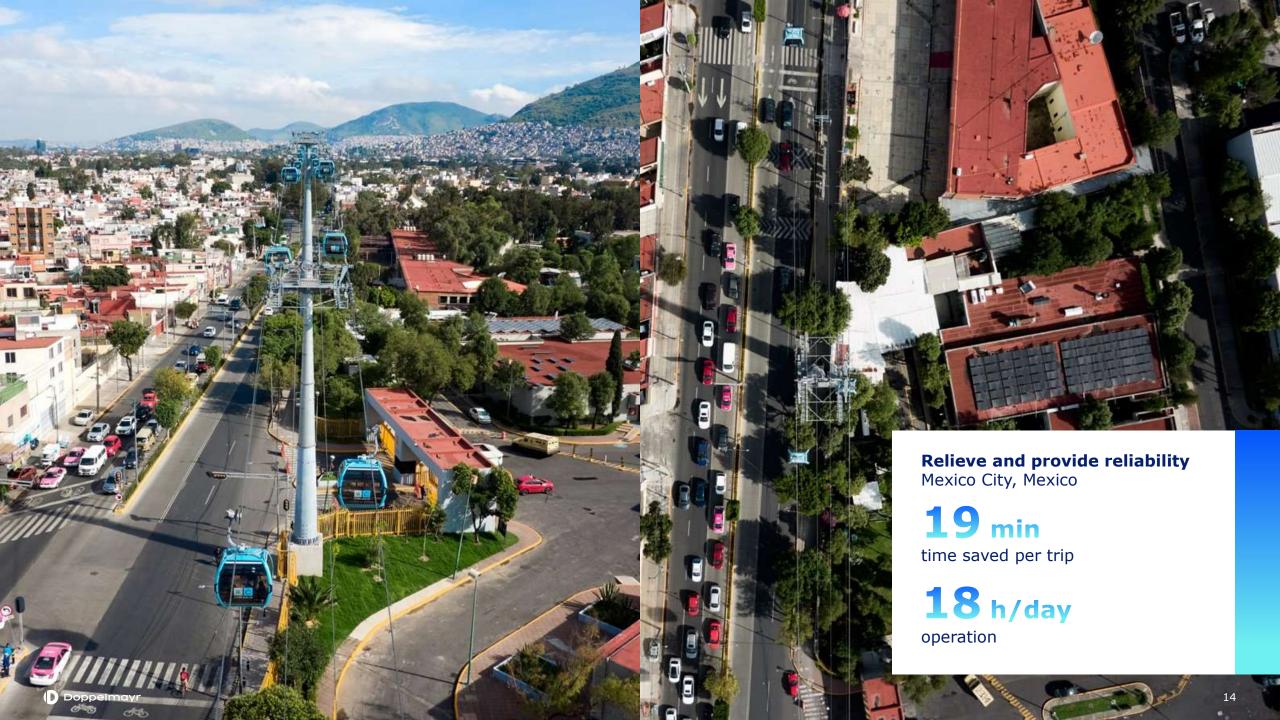
Cable Car

1% operational cost per year

40% of BRT operational cost

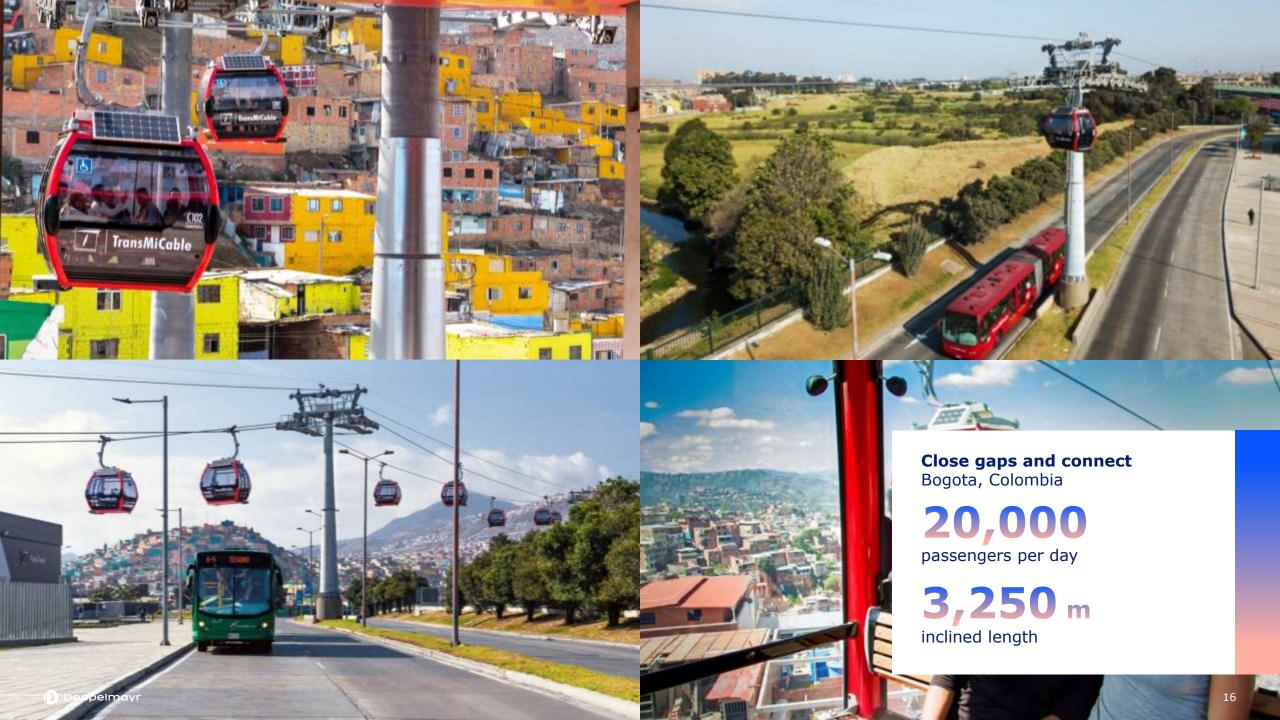
4 years
tested autonomous operation

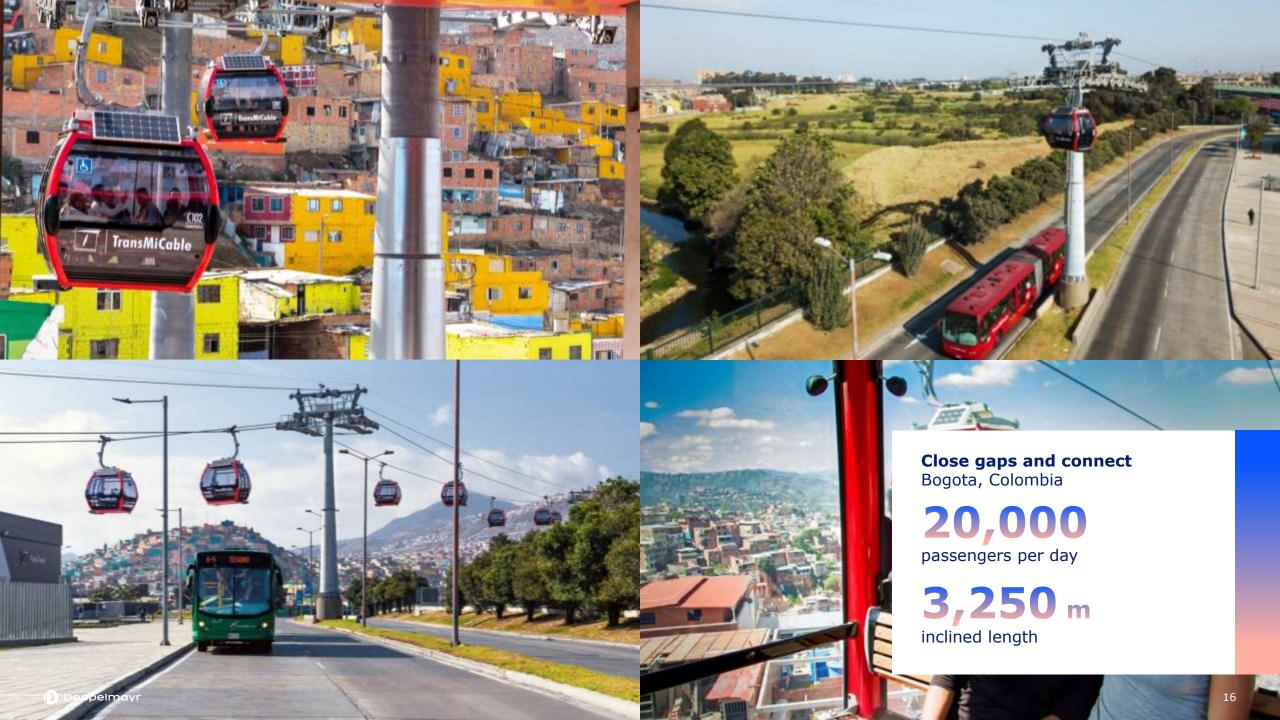












Opportunities for Aotearoa's public transport



01

Tāmaki Makaurau, AucklandAirport to Botany

02

Tahuna, Queenstown

Airport to Town Centre

- **03** Christchurch Airport to City Centre
- **04** Christchurch Belfast to City Centre
- **05** Wellington Island Bay to City Centre
- **06** Wellington
 Airport to City Centre
- **07** Wellington Karori to City Centre
- **08** Wellington Wainuiomata to Hutt City
- **09** Auckland Airport to Onehunga
- **10** Auckland Extension of Northern Busway

Auckland Airport to Botany

Connect and close gaps in public transport network

3,000 p/h/d capacity

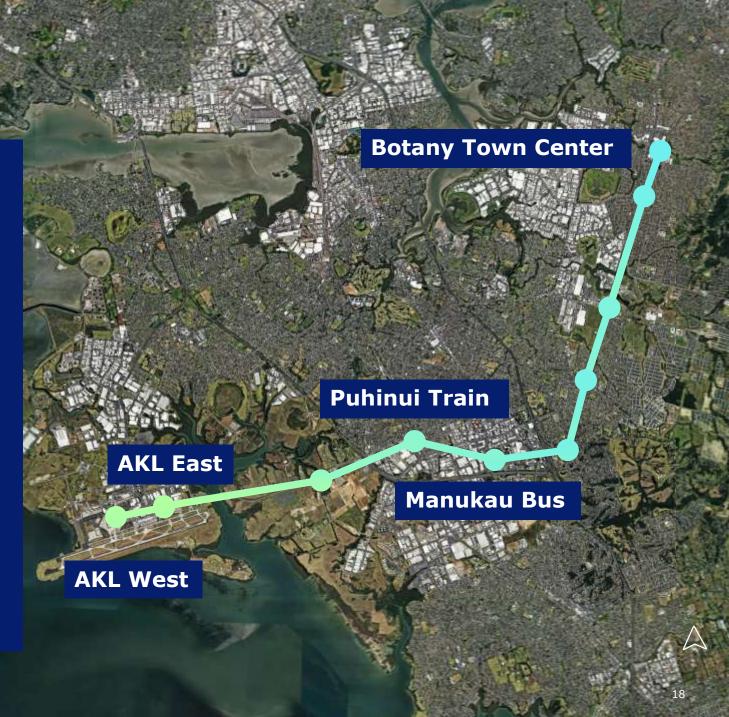
7 m/s

16,800 m

15 min time saving per trip

2.4 strategic benefit cost ratio





Auckland Airport to Botany

Connect and close gaps in public transport network

3,000 p/h/d capacity

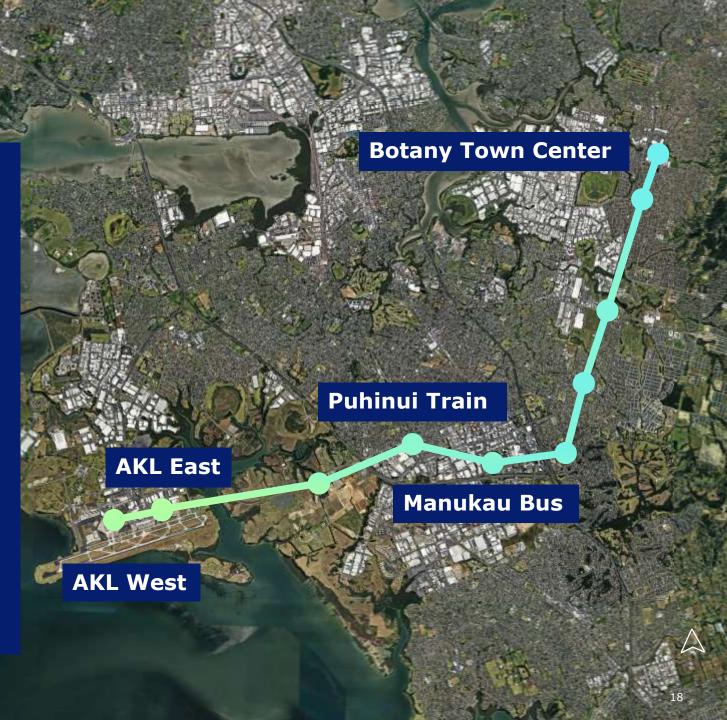
7 m/s

16,800 m

15 min time saving per trip

2.4 strategic benefit cost ratio





Queenstown Airport to Town Center

Relieve congestion, connect transport hubs

1,500 p/h/d capacity

7 m/s

6,800 m length

4 min time saving per trip

1 1 strategic benefit cost ratio



Airport

Frankton

Transport Hub

Town Center



Queenstown Airport to Town Center

Relieve congestion, connect transport hubs

1,500 p/h/d capacity

7 m/s

6,800 m length

4 min time saving per trip

1 1 strategic benefit cost ratio



Airport

Frankton

Transport Hub

Town Center







Doppelmayr

Garreth Hayman, CEO garreth.hayman@doppelmayr.nz

Doppelmayr New Zealand Ltd 39 Islington Ave, Islington, Christchurch, 8042 doppelmayr.com