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Active transport in an era of dramatic climate change

Sara Stace

Regional Executive, Infrastructure Advisory WSP World Cycling Alliance, Oceania representative Better Streets president

Future Mobility in Wellington Aileen Stace's electric car, 1937

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Daily Sea Surface Temperature



Are we responding enough?



Transport in NZ accounts for:

- 90% of household emissions
- 17% of New Zealand's total GHG emissions



Stats NZ 2022

Are we responding enough?

Walking + Cycling + EVs are not the full climate solution



Housing locks citizens into lifelong climate impact

Alicia lives in the outer suburbs and relies on the car										
	Dependent on others			Driving age				Dependent		
				Now V			Paris Net Zer ▼	0		,
Year	1990	2000 Youth	2010 Lifetime	2020 range of or	2030 Middle-age	2040	2050	2060 Retirement	2070	-
Zara lives in a townhouse close to public transport										

Future Demand 2014: Triple Access Planning



Ministry of **Transport**

Triple-access system to help New Zealand thrive



We must recognise it is about access not transport

The purpose of our transport system is to allow society to access people, goods, services and opportunities. Access supports economic and social wellbeing.

Access is influenced by three interacting systems: transport, land use and telecommunications – all three are evolving and all three are relevant to policymaking and investment.

Responding to the insight

Transport policy cannot be isolated from developments in land use and digital communications. Consideration should be given to establishing an overarching body or function that considers how transport, land use and communications co-create, and can improve provision of access for a thriving New Zealand. There is a need to evolve this triple-access system to ensure resilience and flexibility in the face of uncertainty.

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GHG emissions of transport in different development types



Source: Infrastructure Victoria, Choosing Victoria's future: 5 urban development scenarios

Compact vs Sprawl development

Compact cities have...



Fewer greenhouse gas emissions



Less use of land (which can be rewilded)



Allow people more choices to find a home, travel, and get to key destinations



Stronger, more diverse economies



More affordable infrastructure (in Victoria, \$41 billion saved)



However, it requires changing how we live as more people live in units, townhouses or apartments

Source: Infrastructure Victoria, Choosing Victoria's future: 5 urban development scenarios

Brent Toderian, former Chief Planner, City of Vancouver

"If you still have zones in your city or suburb that ONLY allow single detached homes on a lot, you're a dinosaur"





Understanding the Resource Management (Enabling Housing Supply and Other Matters) Amendment Act 2021

Medium Density Residential Standards

A guide for territorial authorities



national-medium-density-guide.pdf (environment.govt.nz)

Wellington City Council officially passes an ambitious new District Plan



Wellington City Councillors celebrate the final District Plan vote.

And with that, it is finally over. Wellington City Council has voted to accept all of today's amendments, and officially passed a new District Plan.

The new District Plan enables tens of thousands of new homes. It allows apartments and townhouses across the city in suburbs where they were previously banned. It's a pathway to a far denser, more affordable city.

Key ingredients for walkability

6 out of 10 people on the street are there because of...



Density

People living and working in medium density Tipping point <30% single dwellings



Lots of things to see and do Mixed land use, multiple destinations



Fine-grained, slower streets Easy to cross the street and make your own pathway

Tipping point >45 intersections per square km



Quality public transport Direct, high frequency



Recommendations

Ditch it

- Expanding suburbs and greenfield
- Building new roads
- Massive road spending
- × Flying

Digging it

- ✓ Infill, mixed use development
- ✓ Reallocate streets to people
- ✓ 20% of transport budgets on walking and cycling
- ✓ High frequency public transport

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Thank you

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wsp.com