



PALMERSTON NORTH CITY COUNCIL

MINUTES ATTACHMENTS ENVIRONMENTAL SUSTAINABILITY COMMITTEE

9AM, WEDNESDAY 17 NOVEMBER 2021

COUNCIL CHAMBER, FIRST FLOOR,
CIVIC ADMINISTRATION BUILDING,
32 THE SQUARE, PALMERSTON NORTH

ENVIRONMENTAL SUSTAINABILITY COMMITTEE MEETING

17 November 2021

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Micro-mobility

E-Scooter lessons & opportunities

Peter McGlashan

Lead Advisor, Urban Mobility



New Zealand Government

Urban Mobility

“How we move about, getting from home to work, to school, to entertainment and back again”

- Safe
- Efficient
- Environmentally friendly &
- Affordable

Walk = 42min; Free

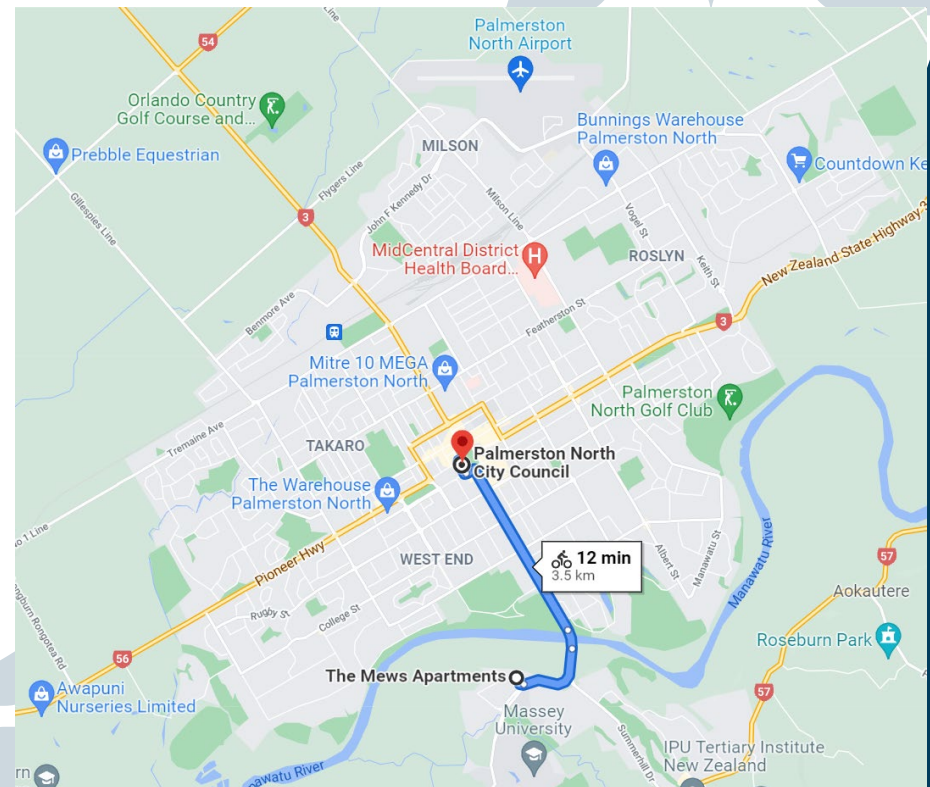
Private E-Scooter = 12min; **10-20c**

Bus = 22min; \$2.50

Drive = 9min; \$5/day parking

Ride Share E-Scooter = 12min; **\$6.40**

Taxi = 9min; **\$10-12**



Mode shift range

Overall, micromobility mode share is expected to be **between 3% and 11% by 2030** depending on a range of context factors

This represents a **four-fold or more increase on existing cycle mode share**, which has significant implications for active modes funding



Up to **3.4%**
mode share



Up to **8.1%**
mode share

<https://www.nzta.govt.nz/assets/resources/research/reports/674/674-Mode-shift-to-micromobility-infographics-for-practitioners.pdf>

E-Scooters

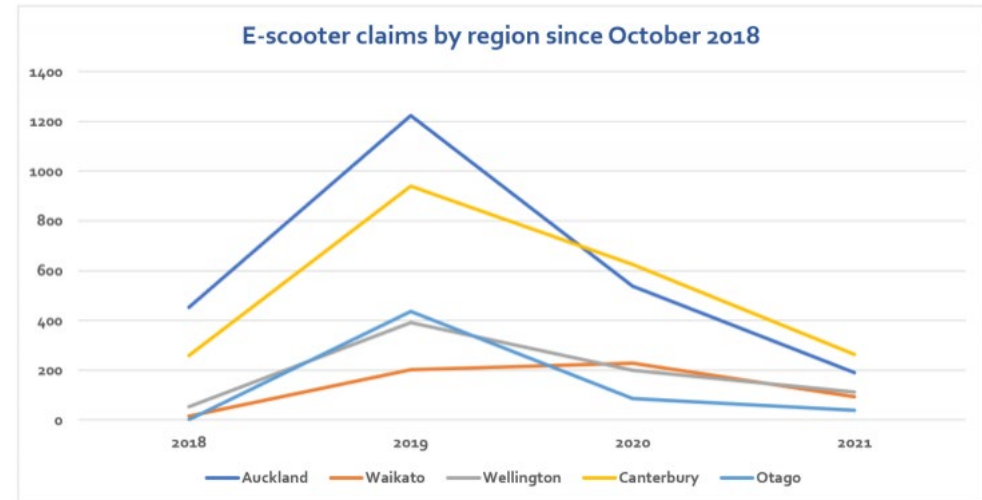
Recent addition to urban environment

- Part of growing collection of personal transportation options
 - Walking, Wheel Chairs, Mobility Scooters
 - Bikes
 - Manual
 - Electric
 - Skateboards
 - Manual
 - Electric
 - Scooters
 - Manual
 - Electric



Safety Concerns?

- Accidents
 - Injuries do happen
 - Riders & pedestrians
 - **74% Claims – No worse than serious cut or gash**
 - Several improvements reduced risk since e-scooters arrived
 - Helmets available
 - Speed limiting (GPS)
 - Curfews (Alcohol risk)
- Well placed to learn from other cities
- Legislation to improve conditions
 - Accessible Streets Rules Package (Consultation '21)
 - Best Practice Guidance (Final Stages)
 - PN - Stage 2 Permit Nov 2022



For context - Wellington 2019-2020

297 claims
for rollerblading
injuries

589 claims
for e-scooter
injuries

8,958 claims
for cycling
injuries

5,433 claims
for road
related injuries

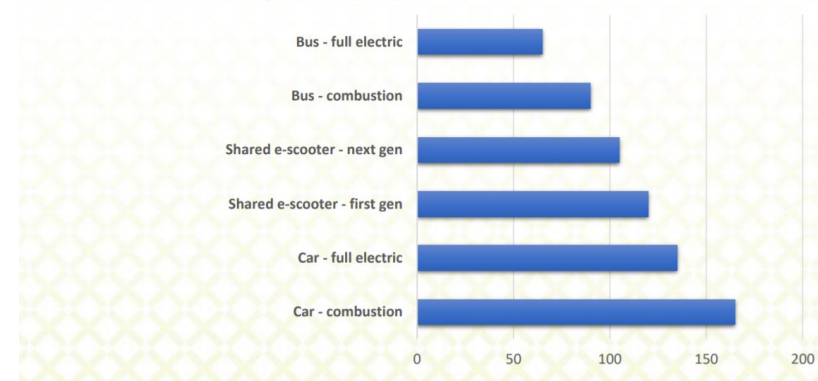
<https://www.acc.co.nz/newsroom/stories/three-years-of-e-scooters-the-true-cost-of-convenience/>

Sustainability Concerns?

- Life-cycle of batteries
 - Greatly improved
 - Swappable Batteries
 - Reduces emissions
 - Any shortages of materials
 - Affect all electronics
 - Electric Cars, Phones, Laptops, Speakers etc
- Renewable energy critical
- End of Life upcycling

Lifecycle emissions per mode of transport

Source: International Transport Forum (2020)



Greenhouse gas emissions per gram of CO2 per km per passenger

<https://www.knowledgehub.transport.govt.nz/assets/TKH-Uploads/HubPresentations/Shared-micromobility-Work-to-enable-and-regulate-shared-micromobility-schemes-in-Aotearoa-New-Zealand.pdf>

<https://www.stuff.co.nz/national/300442953/the-man-who-went-off-the-grid-by-recycling-escooters>

The man who went off the grid by recycling e-scooters

Sinead Gill - 05:00, Nov 02 2021



Bryn Nelson takes his home off-grid after building his own power wall, which is connected to solar panels mounted on the garage roof.

A Manawatu man says that going off the power grid has never been cheaper,

Mode shift to micromobility: whole trips

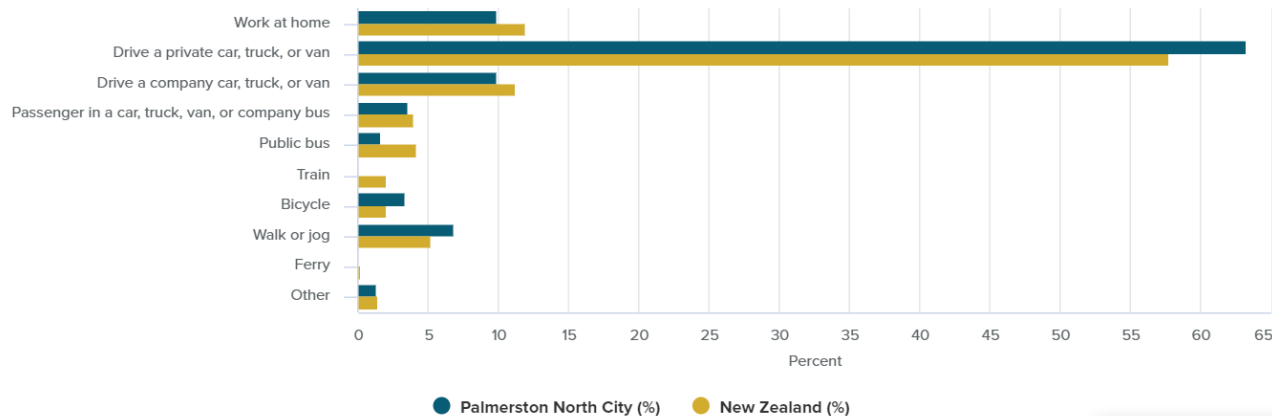
Up to a **9% increase** in PT trips



Overall, 'first mile last mile' use of micromobility in conjunction with public transport is expected to **increase public transport trips by up to 9%**, depending on a range of context factors, and **decrease car trips by up to 2%**.

<https://www.nzta.govt.nz/resources/research/reports/674>

Main means of travel to work for people in Palmerston North City and New Zealand, 2018 Census



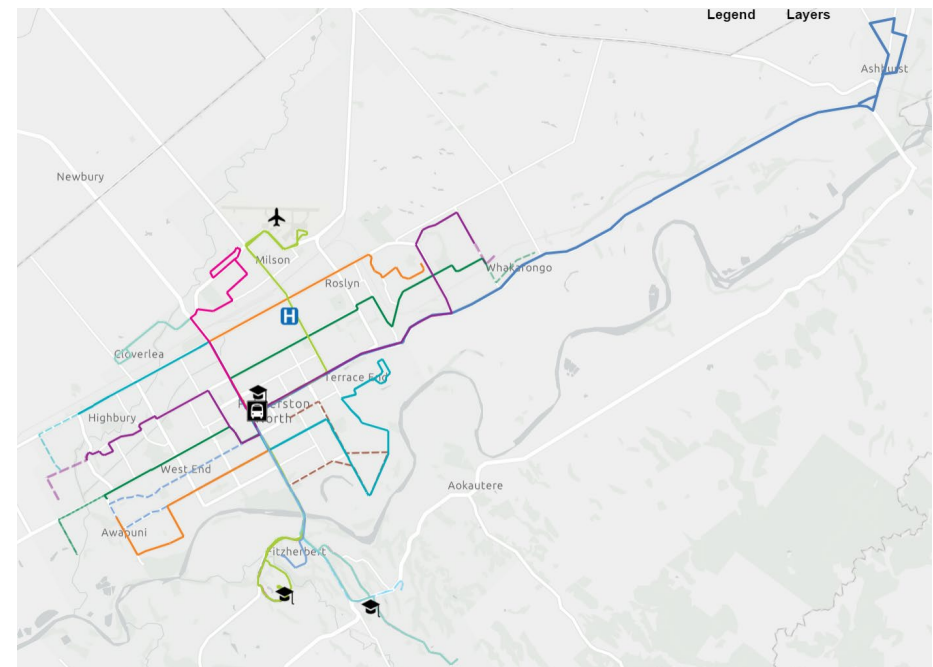
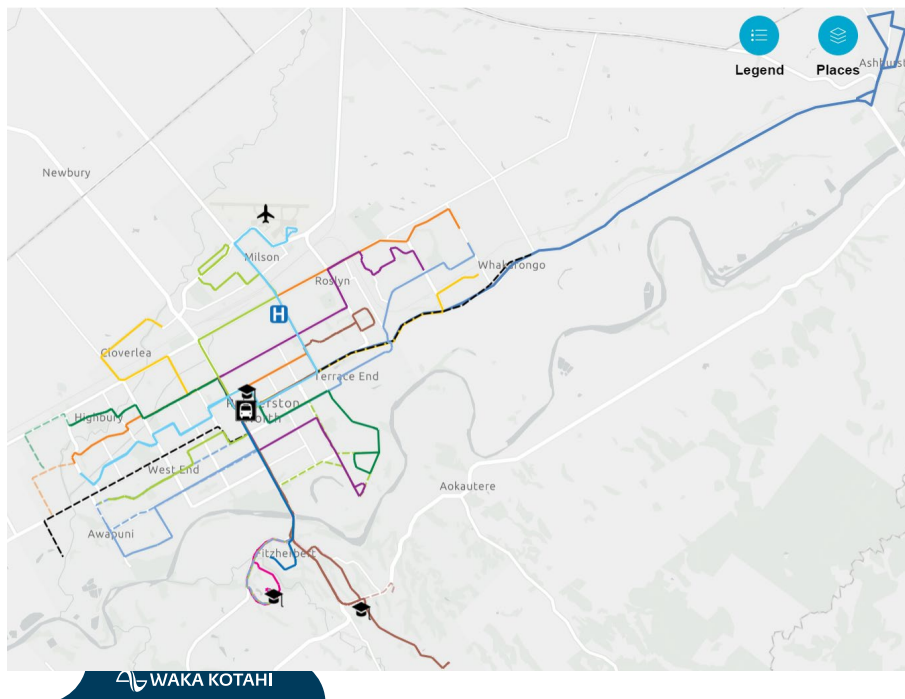
If e-scooters can improve the start and finish of their PT trip then residents are more likely to use buses and trains...

<https://www.stats.govt.nz/tools/2018-census-place-summaries/palmerston-north-city>

Better buses for Palmy...

How could micro-mobility improve outcomes for the city?

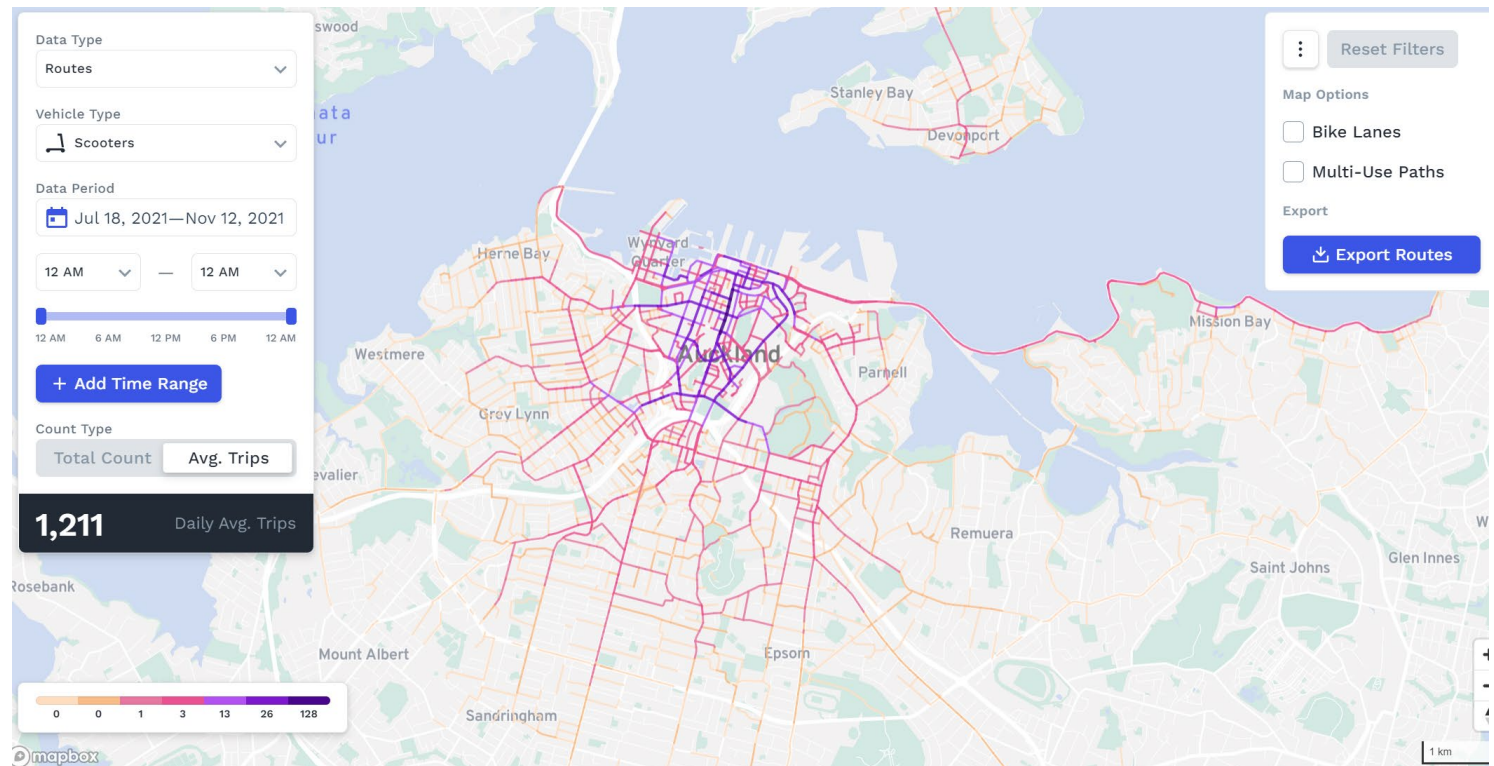
- High Frequency & High Micro-mobility availability
 - 1% decrease in car trips; 9% increase in public transport patronage <https://www.nzta.govt.nz/resources/research/reports/674>



Ride Report

Invaluable insights into movement patterns & best infrastructure spend

- Pinpoint
 - Start
 - Finish
- Prioritise upgrades
- Quickly see ROI for Trials
 - Innovating Streets, Pop-up Cycleways



Questions?

Email - Peter.McGlashan@nzta.govt.nz

<https://www.nzta.govt.nz/resources/research/reports/674> 111 page comprehensive report plus shorter summary

<https://www.knowledgehub.transport.govt.nz/topic-hubs/technology-and-innovation-hub/>

<https://www.acc.co.nz/newsroom/stories/three-years-of-e-scooters-the-true-cost-of-convenience/>

Eco Design Advisor Service

NELSON LEBO

PALMY
PAPAIOEA
PALMERSTON
NORTH
CITY

PALMY

Presentation Overview

1. Overview of Service
2. Consultation statistics
3. Benefits of the EDA service
4. Feedback from public
5. Next steps



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Overview of Service

The service offers free independent advice to Palmerston North residents, architects, designers, and builders on sustainable design and energy options for buildings.

The service has also been able to take a range of opportunities to promote sustainable practices through, variously: National & International radio, digital & print media, and television, as well as seminars, and workshops.

Post-Covid, the nature of the service delivery has shifted somewhat towards more remote consultations, with a reduction in the number of in-home visitations.

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Types of Services Offered

Owner Occupied Homes

- Home/remote consultations for retrofits or renovations.
- Consultations for new builds as early in the process as possible.
- Presentations to community groups and professional organisations on the above.

Rental Properties

- Working with tenants and/or landlords on healthy rental properties.
- Working with social workers to support vulnerable tenants.
- Teaching a session at each Ready-to-Rent programme with the Housing Advice Centre.
- Presenting to the Manawātū Property Investors through regional and national forums and conferences.
- Presenting to Real Estate firms and Property Managers.

Additional Services

- Presenting to refugees at English Language Partners on Healthy Homes.
- Delivering workshops for 'Sustainable Living Programme' participants.
- Running workshops for Super Grans on a wide range of sustainability topics.
- Working with the Red Cross Curtain Bank to promote their work and to distribute curtains and blinds to families in need.
- Disseminating Eco Design Advice through other media and interviews: TV, radio, print, and digital. Many of these opportunities have had National reach.

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Statistics

Nelson began working for PNCC in 2015.

In a typical year an EDA has 250 - 300 'contacts' with the community either as face-to-face consultations, phone calls and presentations. Most of those occur during colder months.

Pre-COVID 2015 - 2019 (Estimated Numbers)

Consultations – 200 per year
Presentations - 30 per year

+ Low number of phone consultations

July 2019- March 2021

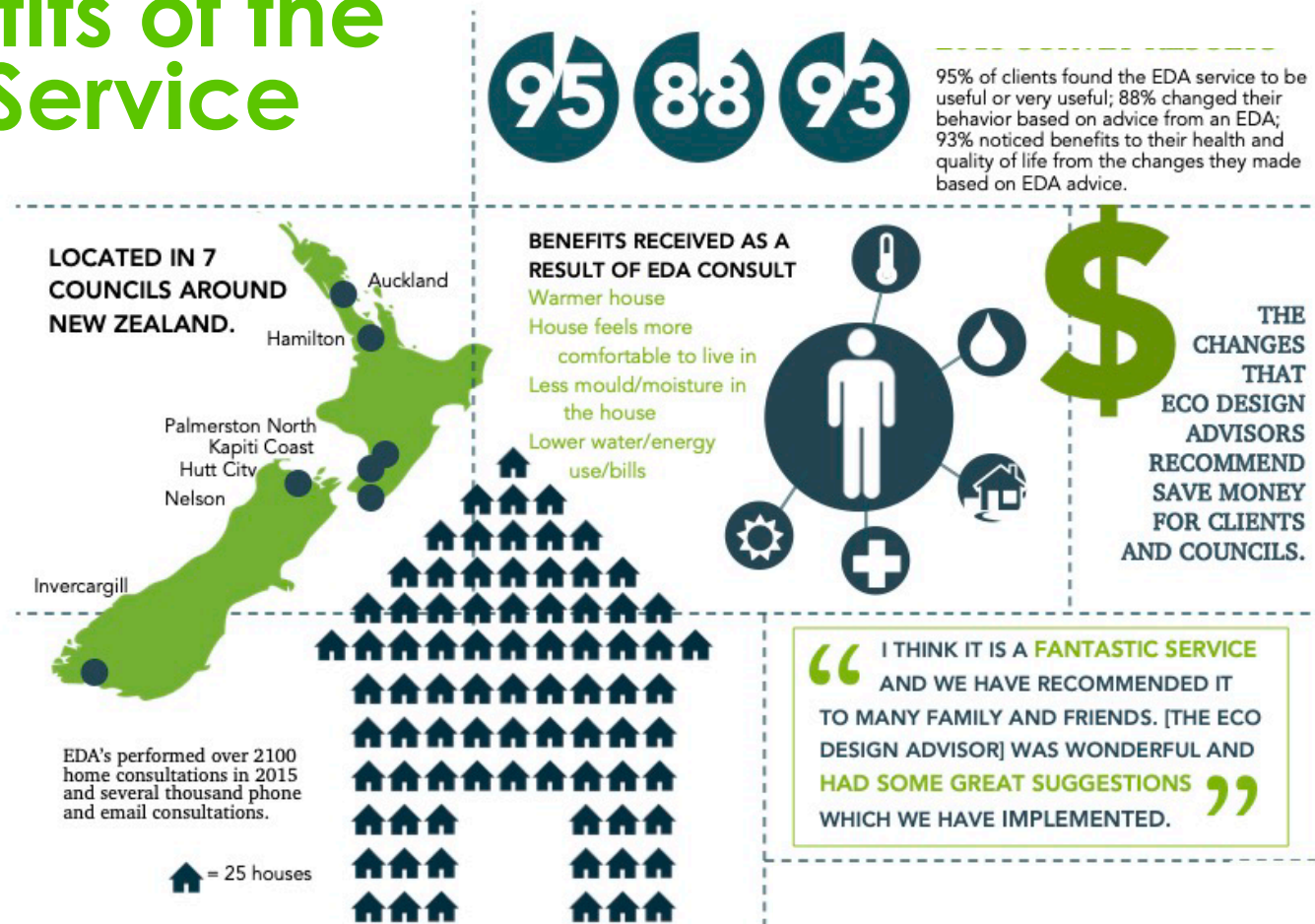
Consultations – 228
Presentations – 40

+ High number of phone consultations

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Benefits of the EDA Service



Feedback from Public

“Very very impressed with the service. We are pleased as rate-payers that this service is available to us.”

Feedback form results

- How beneficial did you find the advice provided? **99% Very Beneficial**
- How likely are you to make the changes suggested by the EDA? **99% Very Likely**
- How likely are you to recommend the service to others? **99% Very Likely**

“We were delighted with Nelson’s help. He is highly professional and innovative in his approach to problem-solving. We learned a lot from him and he has given us the confidence to proceed with some options he discussed”

“Nelson gave some great advice and we have made all of the changes he suggested and can spot differences already. He gave us cost-effective advice that enabled us to make changes fairly quickly.”

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Next Steps

Significant work is required to bring Palmerston North's homes (and New Zealand's more generally) up to a minimum standard. Too many homes continue to be cold, damp, and energy inefficient – with flow on effects on health, wellbeing, and climate change.

The regulatory environment continues to evolve, with improvements to rental homes mandated through the Healthy Homes Guarantee Act (which came into force in July 2019), with further changes expected as a result of the Government's focus on climate change mitigation.

Rising to meet these challenges, delivery of EDA advice will continue to evolve, making use of new technologies and media channels to assist with consultations and the promotion of sustainable practices.

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Questions?

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ITEM 9 - ATTACHMENT 1