Smart, Safe & Accessible Places

Trafinz
NZ Traffic Institute

Dr Deane Searle

Safer communities together

Safer Communities Together.

Waikato District

Repeat Impaired Drivers Programme

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Safer Communities Together.

Working together

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Safer Communities Together.

INTELLIGENCE IN 2020

An advanced approach

→ **The Waikato District Intelligence Group must deliver information that is:**

- **Real-time**
- **Evidence-based**
- **Actionable**

To do this we must enhance maps and forecasting through process automation. Time spent on inefficient tasks needs to be reduced. We will continue to provide intelligence for investigations and upskill internal staff in this field.

THE NEAR FUTURE

Enhancement of maps on mobility devices for frontline staff
- → Temporal and spatial maps
- → SKILL: Advanced ArcGIS (maps) capabilities

Forecasting for managers
- → Provide managers with tools for planning of deployment
- → SKILL: Intermediate statistical capability to support forecasting

Improved operational efficiency
- → Reduce time spent on inefficient processes
- → SKILL: Moderate process and improvement, skills are maintained

Intelligence for investigations
- → Support investigations with a specific focus on telco and location data
- → SKILL: Automate the collation and validation of operational data Capabilities in i2 and gap analysis

The plan will be achieved by:
1. Increasing engagement with all decision makers
2. Evolving and advancing staff capabilities
3. Developing and maintaining partnerships with external collaborators

DECISIONS AT ALL LEVELS

→ **From Constable to Commissioner**

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INNOVATION SOLUTION
- → Partnering to build knowledge
- → Upskilling internal staff

CAPABILITES AND SKILLS REQUIRED:
- Statistics
- Process Automation
- Project Management
- Social Network Analysis
- Algorithm Construction
- Computer Languages
- Relationship Building
- Geographic Information Systems

In addition to technical skills, our people will require problem solving capabilities to implement Problem Oriented Policing initiatives through the use of SARA.

FUTURE STATE (2020-2025)

Future technology and operation support
- → Real-time intelligence
- → SKILL: Computer science, programming and language assimilation

This will enable...

Better public service
- → More human time spent on SARA
- → Align with National Intelligence Model and our Prevention First strategy

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Methamphetamine Strategy

- Waikato University
- Building a strategy
- Working as one

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Alcohol & Drug Court Waikato

A fresh approach.

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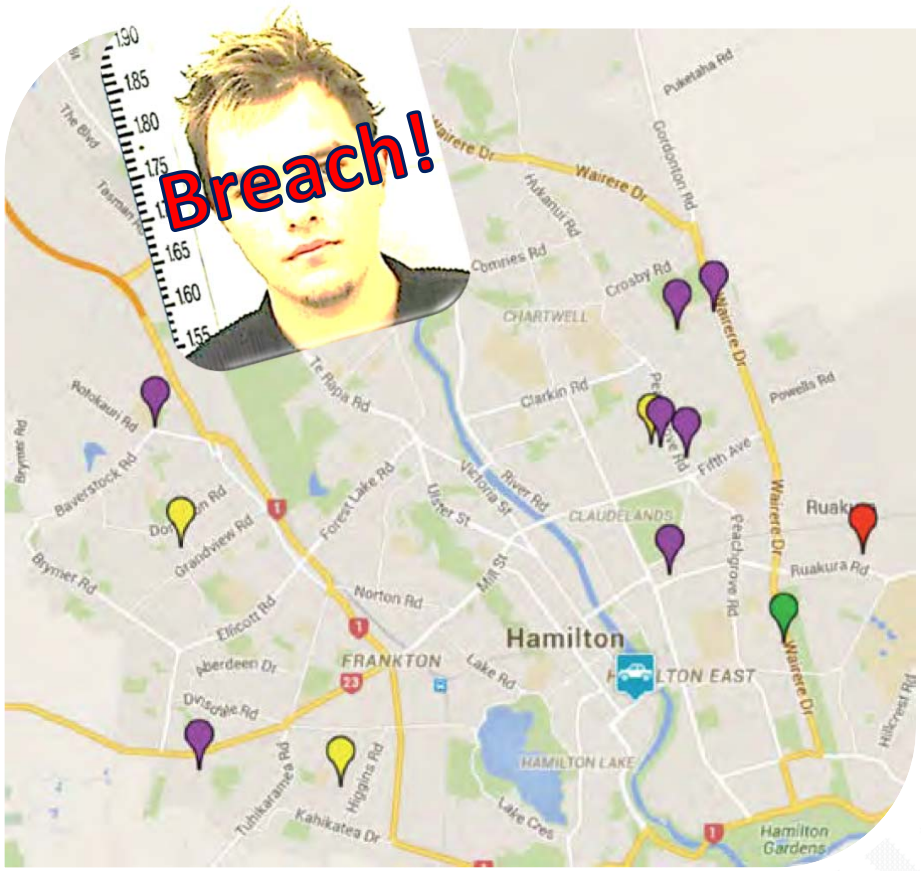
Innovation



- Bail management
- A better way
- Efficiency

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- Safer houses
- Barriers of defence
- Reducing harm

THE UNIVERSITY OF WAIKATO
Te Whare Wānanga o Waikato

CPTED BARRIERS OF DEFENCE

First Barrier of Defence	Natural Surveillance: Building design and structures enhance passive surveillance
Second Barrier of Defence	Physical Barrier: Fencing defines ownership boundary
Third Barrier of Defence	Natural Access Control: Doors and windows are secure and fit for purpose
Other Barriers	Streetscapes are clear of rubbish and maintained, enhancing character and amenity in the urban form

Figure: CPTED Barriers of Defence used for onsite locational CPTED Audits (Source: Edited Google image2018)

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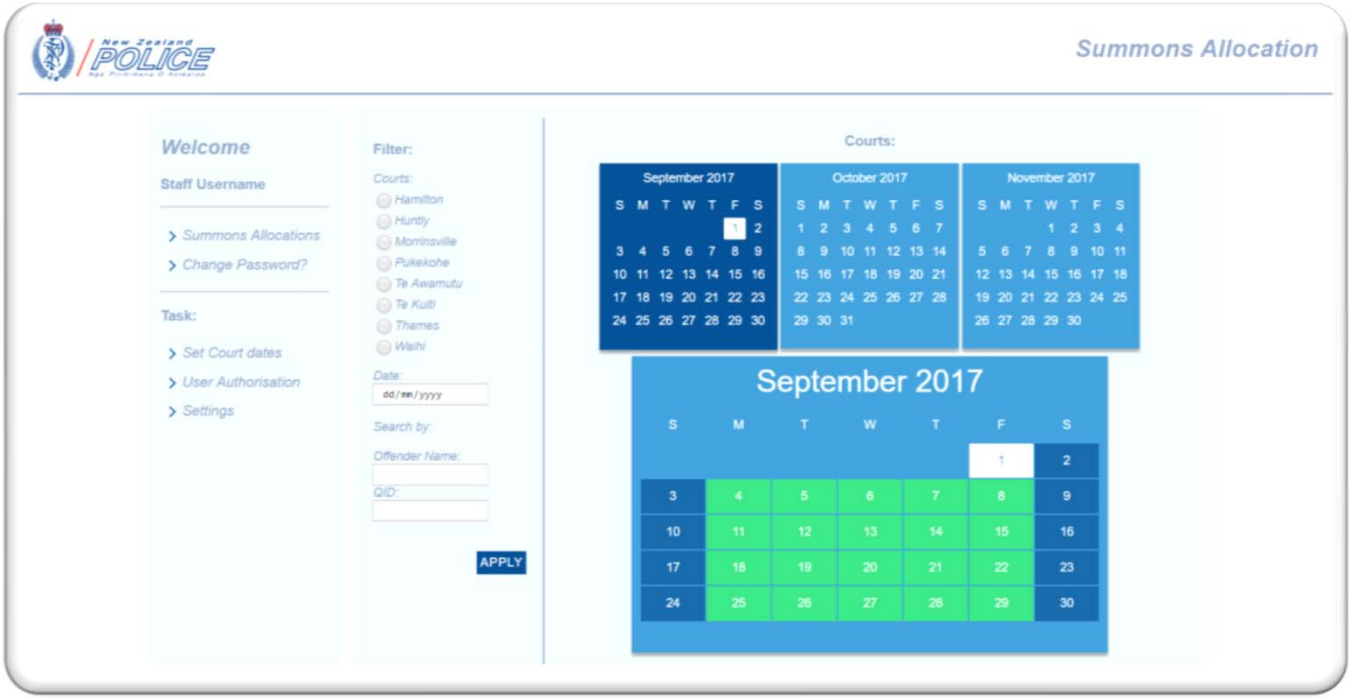
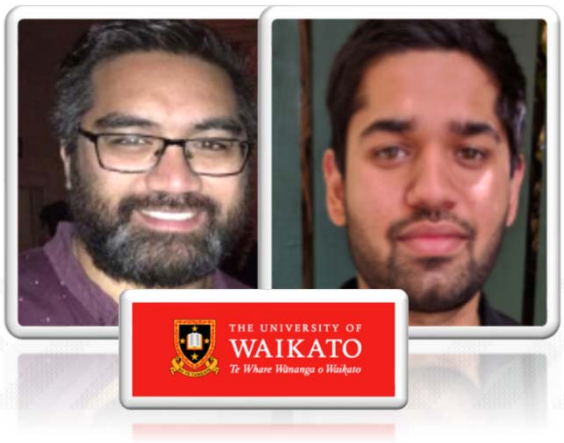
- Summons App
- Real-time data
- Efficiency





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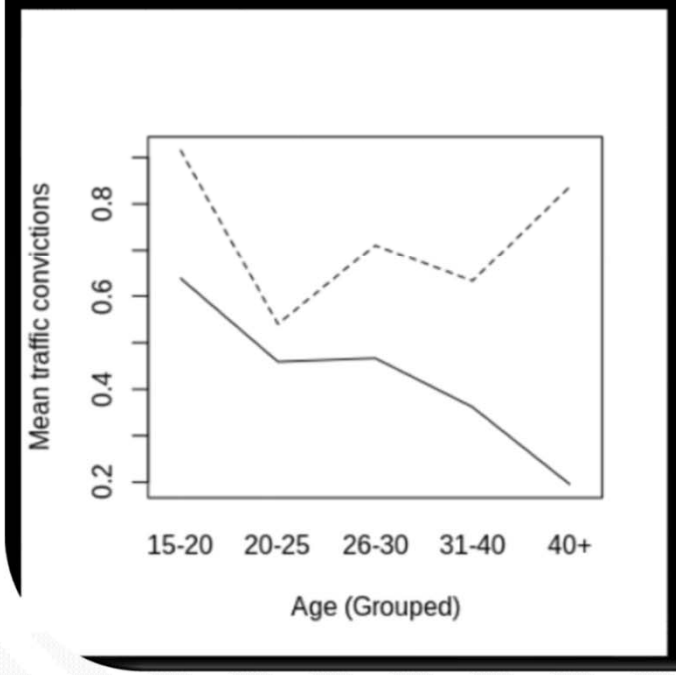
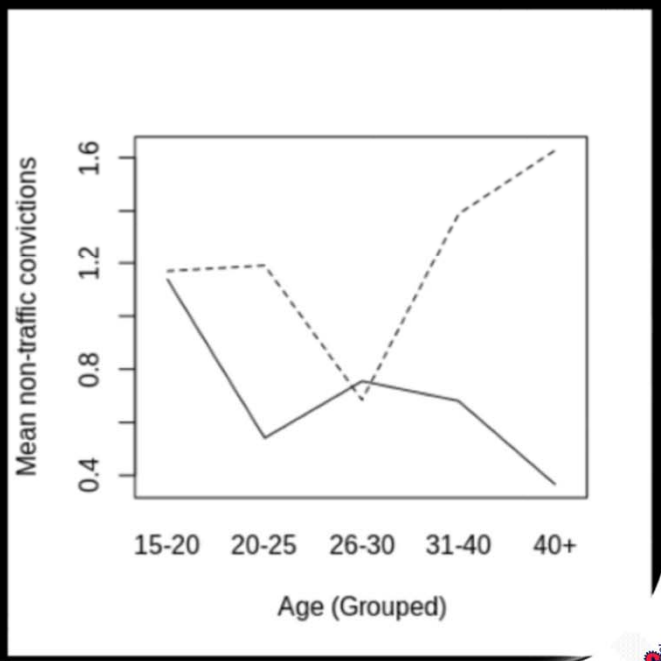
THE RIGHT TRACK – EFFECT OF AGE





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Partnership

Jenny Davis – Waikato Regional Council

Marcus Lynam – New Zealand Police

Calum Grant – New Zealand Police

John Finch – EduK8 Trust

Helen Finch – EduK8 Trust

Steven Miller – University of Waikato

Harriet Plant – University of Waikato

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Aims and Literature Review

- Does the programme work, and to what extent?
- Is the programme effective for Maori offenders?
- What kinds of offenders are most benefited?
- How long does the effect last?

7 Week, 42 Hour Programme	✓	Culturally Conscious	✓
Multiple teaching methods	✓	Qualitative Interviews	✓
Cognitive Behavioural Therapy	✓		
High Risk of Recidivism			
Support Person	✓		

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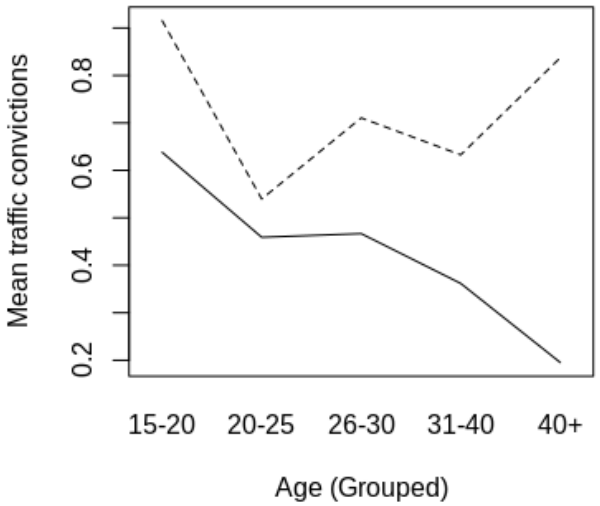
The Study

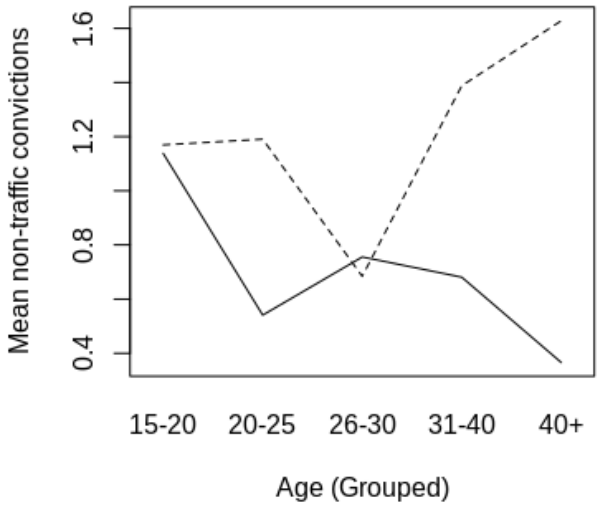
- 252 Participants
- 252 Comparative Individuals
- Convictions within 2 years
- Poisson regression and Cox hazards model

Did it work?

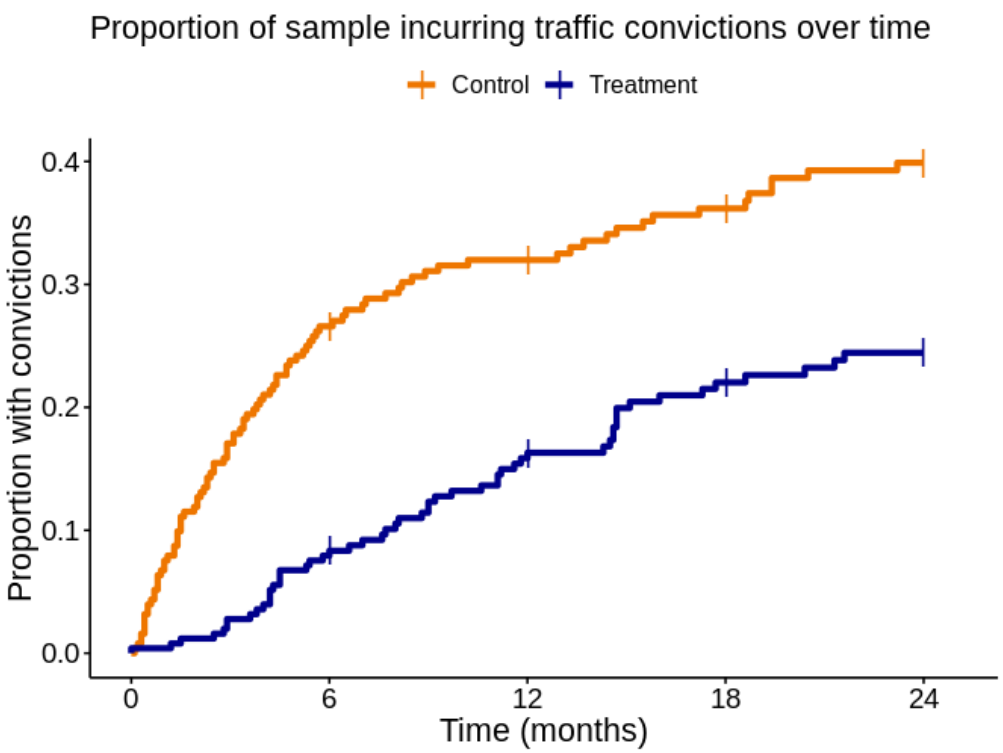
		Programme graduates	Control	Non- or partial attendees
Traffic convictions	1 year	16%	34%	17%
	2 years	26%	42%	25%
Other convictions	1 year	22%	32%	35%
	2 years	29%	41%	44%
Incarceration	Within measured period	9%	21%	29%

The Effect of Age





Effect over Time



- 6 month Refresher
- More referral spaces
- More research
- More research – Ripple Effect
- More research - Quantitative

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