Operating a network; enhancing incident response

We help New Zealand grow by keeping Auckland moving.









The Auckland Motorway Alliance:



























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Network extent

From Puhoi to Pokeno







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Three of the bridge's four northbound lanes were closed for more than three hours. Source: 1 NEWS

(I) DEC 6, 2014

o) 1 NEWS

SHARE







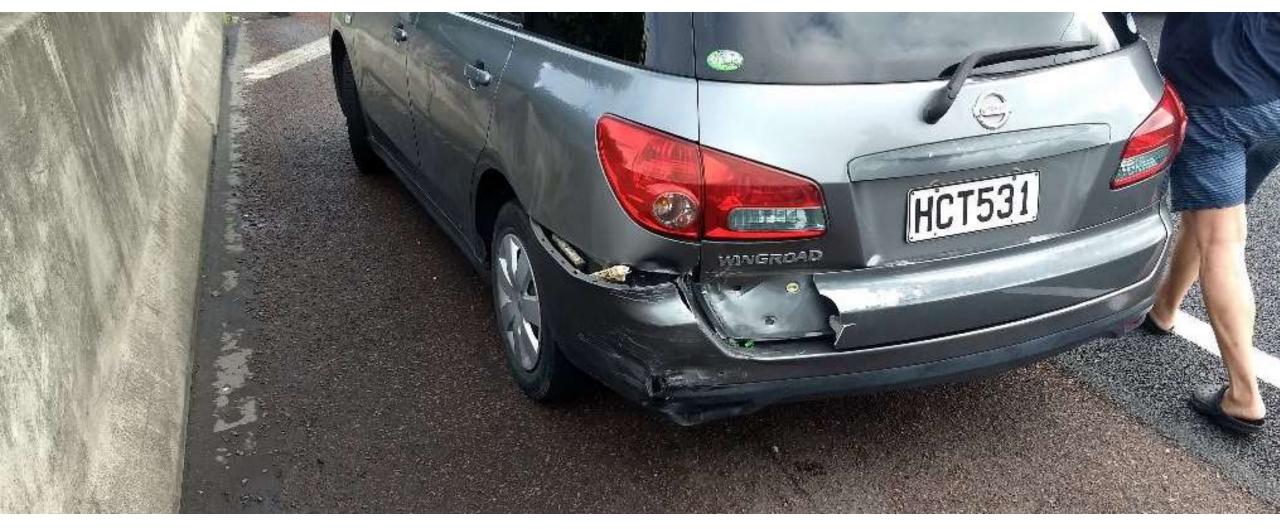
Typical minor







Minor crash







Minor asset damage











Road users / broken-down vehicles









Typical Serious Incidents







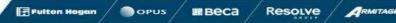




Asset damage







Truck Rollovers

















ARMITAGE































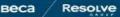
Serious crash











Multi Car Pile-up





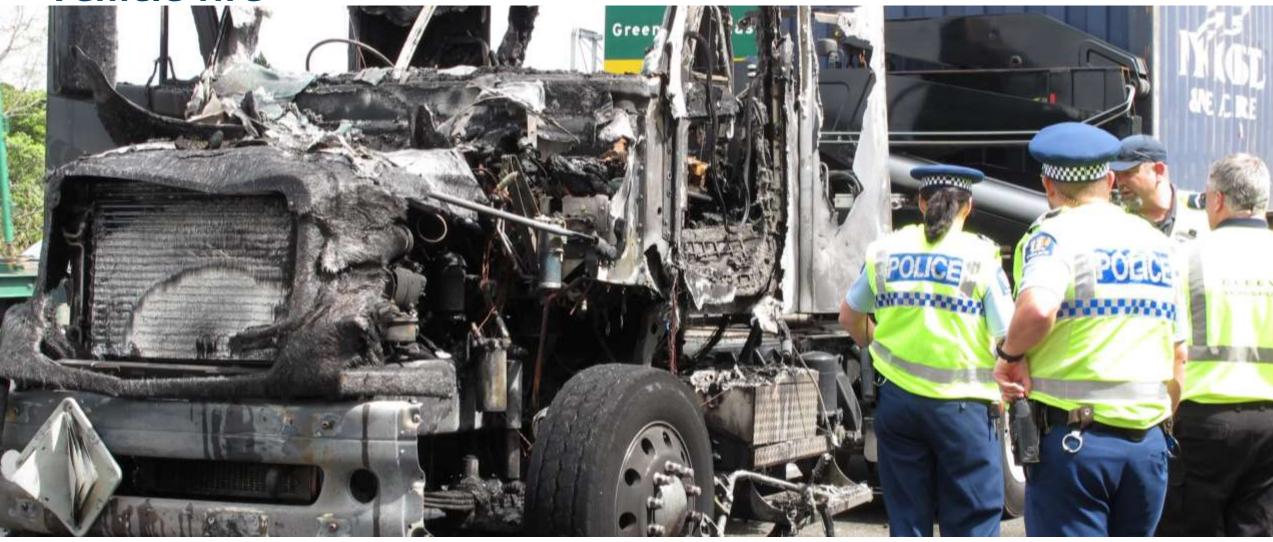








Vehicle fire









Protest



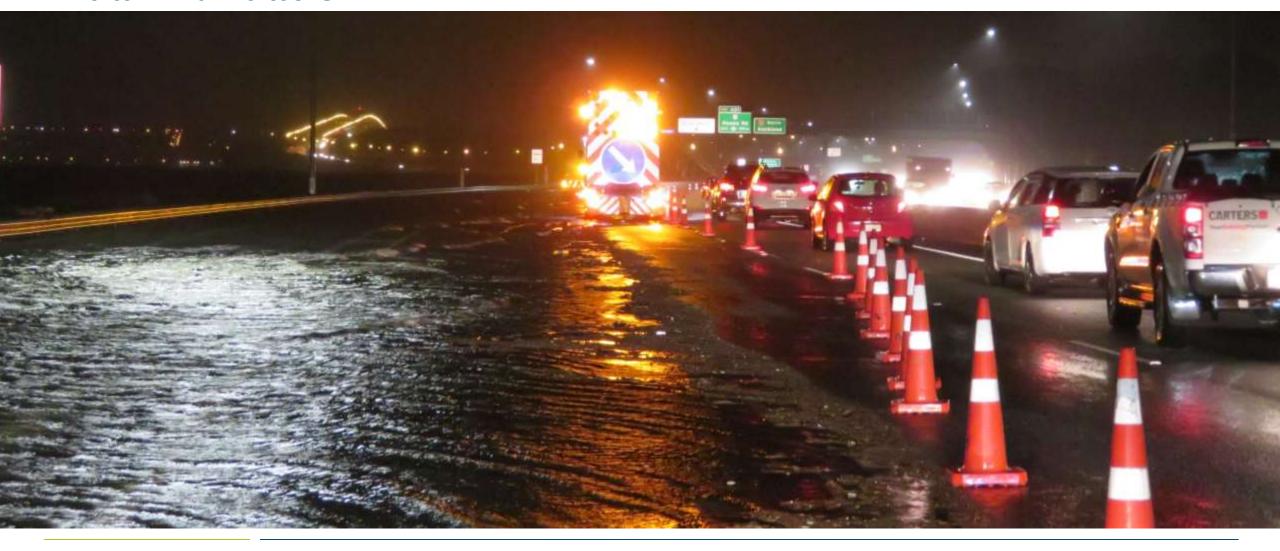








Tidal inundation











Bridge Strikes









SH1 Penrose Bridge Strike









Congestion Effects

Bridge Strike









Congestion Effects

Conditions at time of incident; time = 0 seconds











Congestion Effects

Post incident; time = +120 seconds



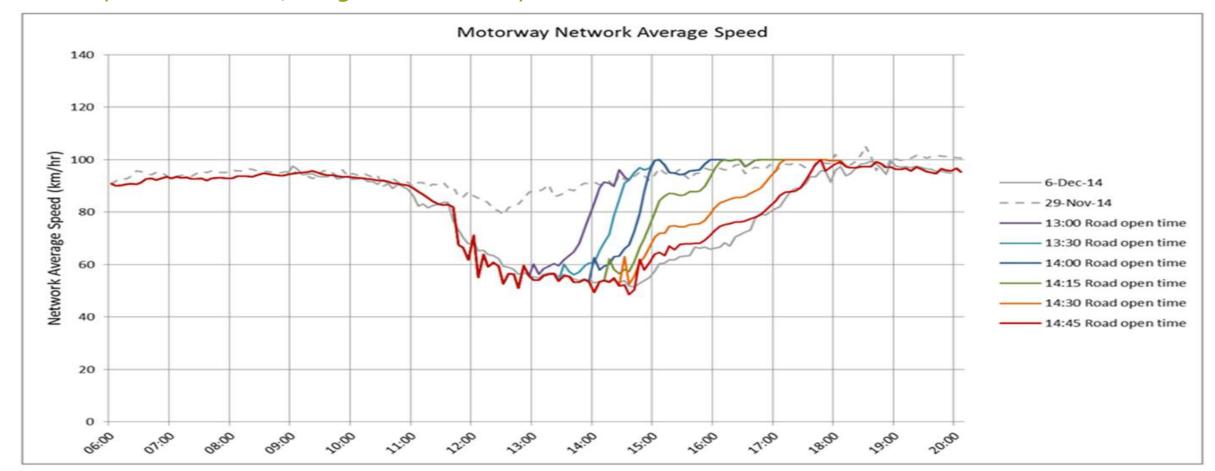






"Every minute counts"

For unplanned events, congestion recovery time is not linear.









Where have we come from?











Current Level of Service Responding resource to be on the AMA network within 30 minutes 24/7:

OUR VISION: GREAT JOURNEYS TO KEEP AUCKLAND MOVING **OUR PRIORITIES:** SUCCESS IS: OUR 2018-2019 FOCUS: 1. Our culture is driven by Zero Harm, Safe System and Sustainability principles. KEEP PEOPLE SAFE A land transport system that is free from harm. 2. Collaborate with partners on initiatives that enhance the well-being of people and the wider environment. 1. Develop with the Transport Agency & Auckland Transport a shared understanding of customer needs and customer levels of service. IMPROVE CUSTOMER 2. Actively work with the Transport Agency & Auckland Transport, applying this shared customer understanding to utilise better Auckland's existing Customers trust us to deliver intuitive experiences that meet their needs and preferences. **EXPERIENCES** transport infrastructure to improve liveability. 3. Minimise the impact of works and incidents on the transport system. 1. Align with Transport Agency & Auckland Transport expectations on ownership and delivery of digital solutions. **DELIVER CONNECTED** Digital solutions that enable easier journeys for customers. JOURNEYS 2. Share our data and insights, and actively work together on transport technology initiatives using our operational and analytical knowledge. 1. Our people are clear on our Strategy, and we hold ourselves to account for its delivery. Maintain our alignment with the Transport Agency through transparency and collaboration. ACHIEVE A people-centred and strategy-led organisation that delivers more innovative, ORGANISATIONAL 3. Understand the value we create for the Transport Agency, and focus most on those activities. responsive and cost effective services. EXCELLENCE Deliver TOC3 with 7% savings and KRAs well above "average" Promote innovation within our organization and with our partners. 1. Work with partners to strengthen the resilience, safety and efficiency of the transport system through and adjacent to Auckland. CONNECT AND Improved regional and interregional transport system service quality for people, freight **DEVELOP REGIONS** and business. 2. Share our ideas and practice to support development in other regions. 1. Provide our partners with operational and system insights into the Auckland motorways and highways. SHAPE THE LAND Transport sector decision-making, investment and regulatory and policy interventions TRANSPORT SYSTEM are based on a shared long-term view of the land transport system. 2. Collaboratively develop a shared understanding of the state of the motorway system and the pressures that cause changes in it. 1. Provide our partners with insights into current Auckland system performance. Improved customer experience of urban travel in Auckland and transfer of initiatives for TARGET RAPID GROWTH 2. Actively engage with the Transport Agency and Auckland Transport on connected journeys solutions for people, freight and business in the benefit of other high-growth urban areas. high-growth urban areas.

OUR VALUES: SPEAK UP AND SHARE, STRETCH THE BOUNDARIES AND MAKE IT HAPPEN









Observed incident cycle

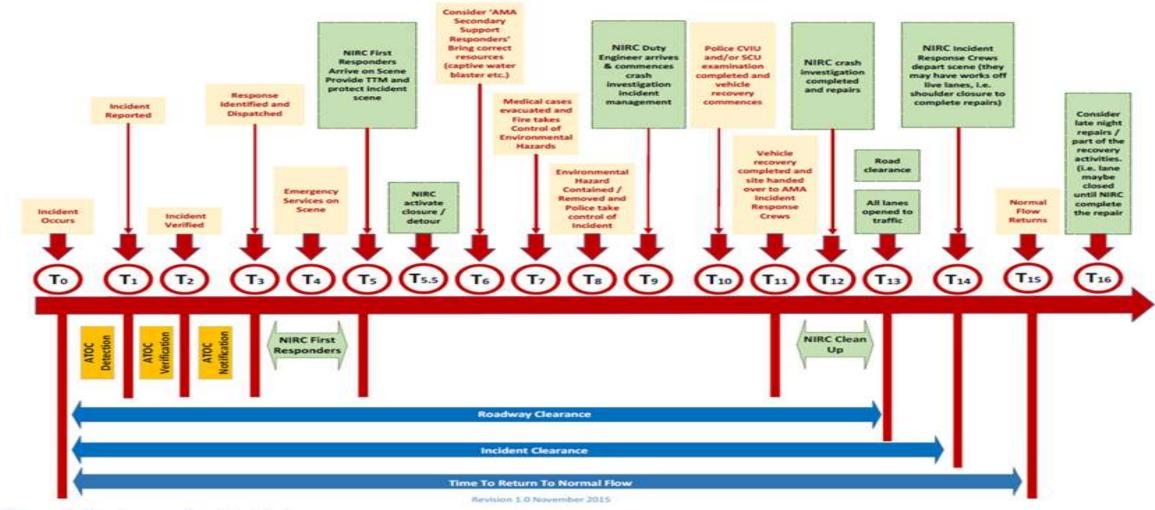


Figure 1. Anatomy of an incident



How did we see improvement?

Key areas:









Key stakeholders

Unified command

Assisting our neighbouring network

Training

Overlapping areas of response

Agreement in service delivery

Nimble response

Strategic deployment

Working towards road restoration

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Relationships:

Where can we make real change onsite?

- PEOPLE: Familiar faces, share understanding.
- SAFETY: Working together amongst traffic









Relationships: Integration and support to ATOC-Smales









Case Study - Vehicle resting in berm (Trees) SH1 NB between Papakura to Takanini





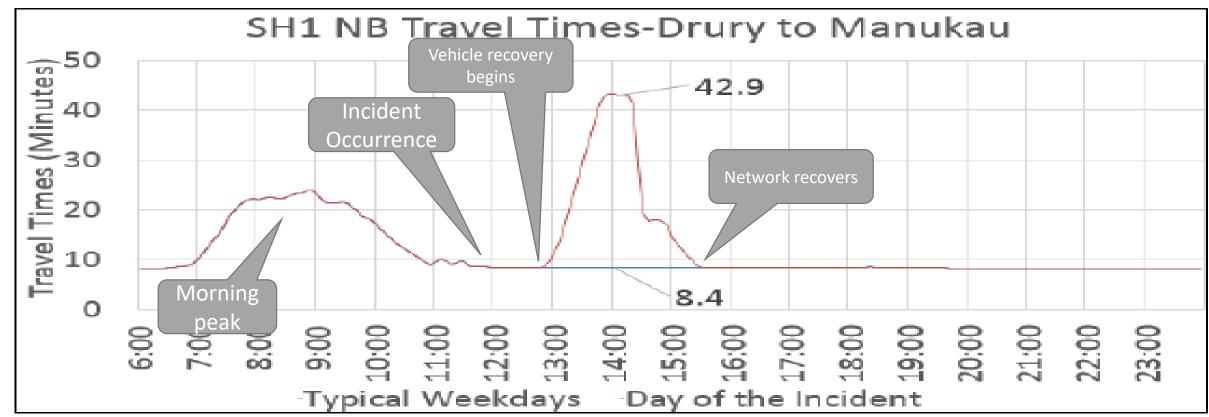




Case study; errant truck 04 July 2016

Vehicle resting in berm (Trees) SH1 NB between Papakura - Takanini

Northbound Travel Times



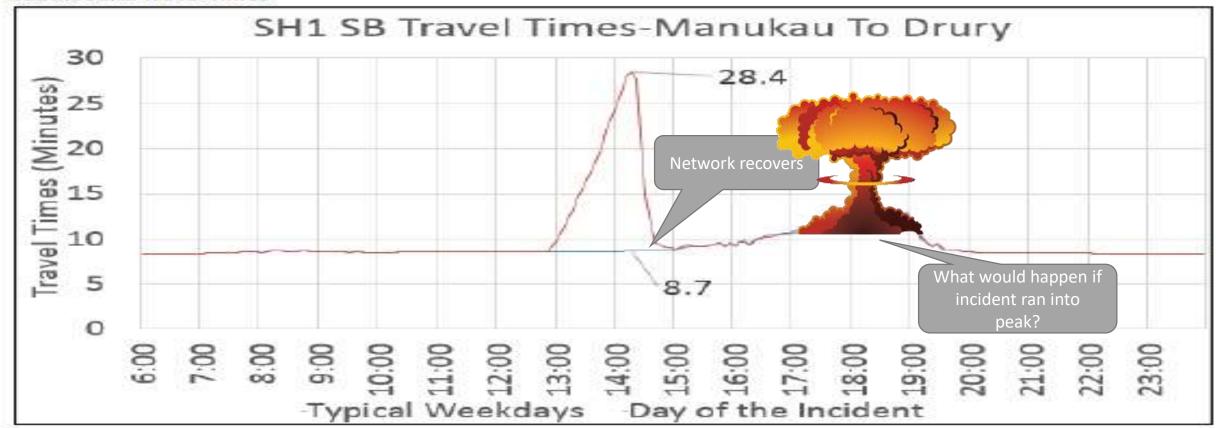




Case study; errant truck 04 July 2016

Vehicle resting in berm (Trees) SH1 NB between Papakura - Takanini

Southbound Travel Times









Preparedness: Training

Drive the correct decisions and appropriate treatments;

- Identify the opportunities for improvement;
- In-house training developed and delivered;
- Involve key stakeholders.









EOC Facilities









AMA Emergency Operations Centre (EOC)



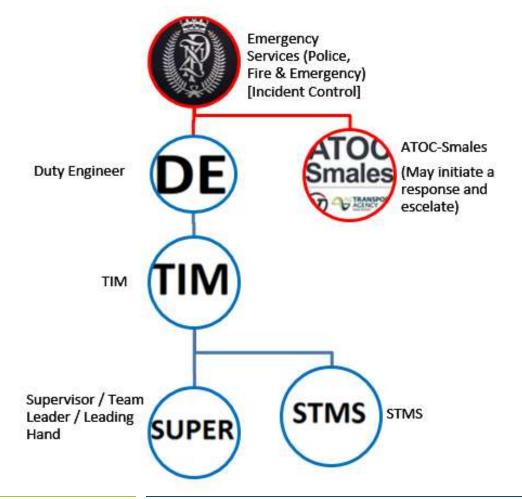


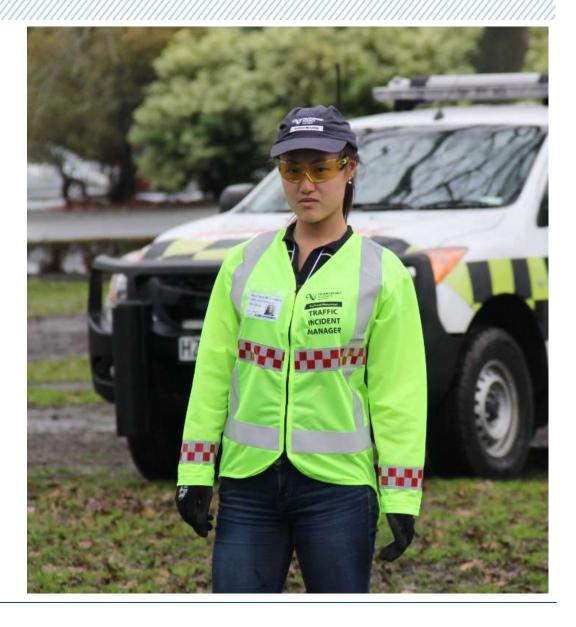




Traffic Incident Manager (TIM)

Performs the role of NZTA recovery Manager:









Preparedness: Incident Response Crews - Day



 Traffic Response Unit (Floating)



Preparedness: Incident Response Crews - Night



- TRU On Call
- Duty Engineer On Call

Incident Response Crews











Incident Response Crews









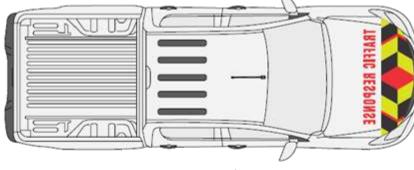


'Getting there quicker'

Enhancing our ability to attend as soon as possible

- Development of a traffic response TMP
- Registration of vehicle livery to the Agency
- Vehicle lighting fit out















Do more: Traffic Response Unit









Do more: Traffic Response Unit









Clearing Blocked Lanes

Push Bars – Nudge Bars



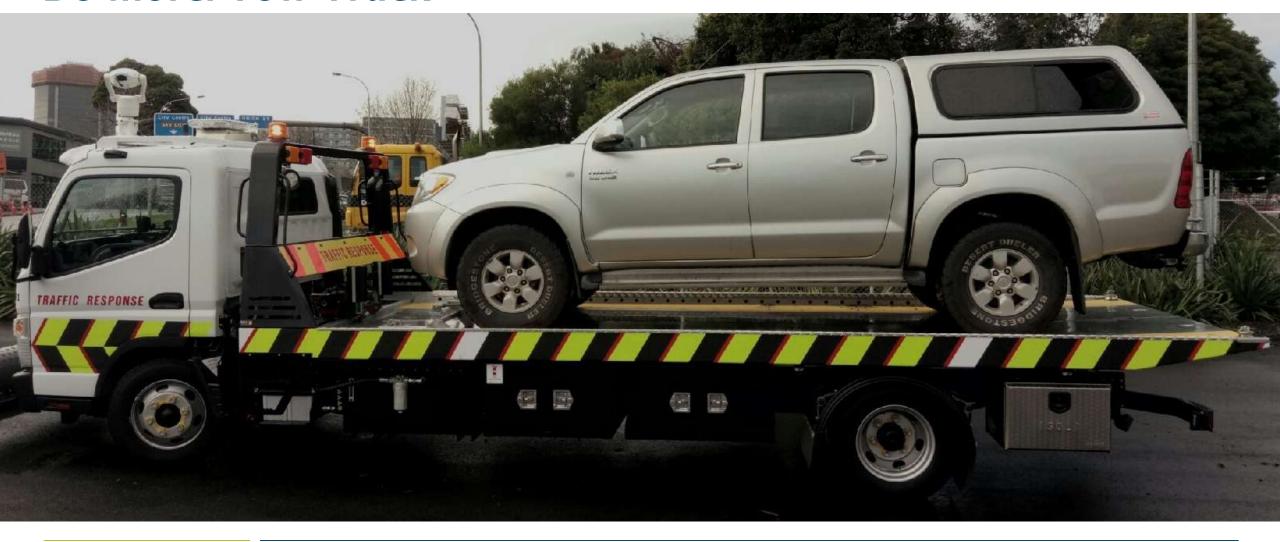




Clearing Blocked Lanes



Do more: Tow Truck









Do more: Traffic Response









Charging station

TRU Equipment

Spare PPE & Investigation Equipment

Fire Extinguishers Welfare **Amenities** First Aid Kit

Vehicle Recovery Water

- Petrol
- Diesel









TRU Functions



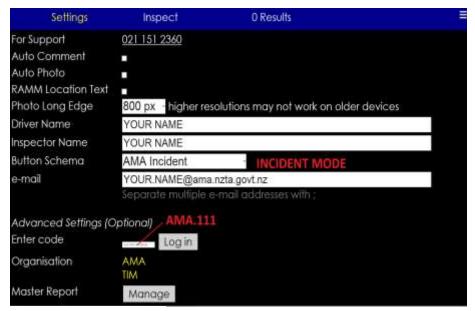




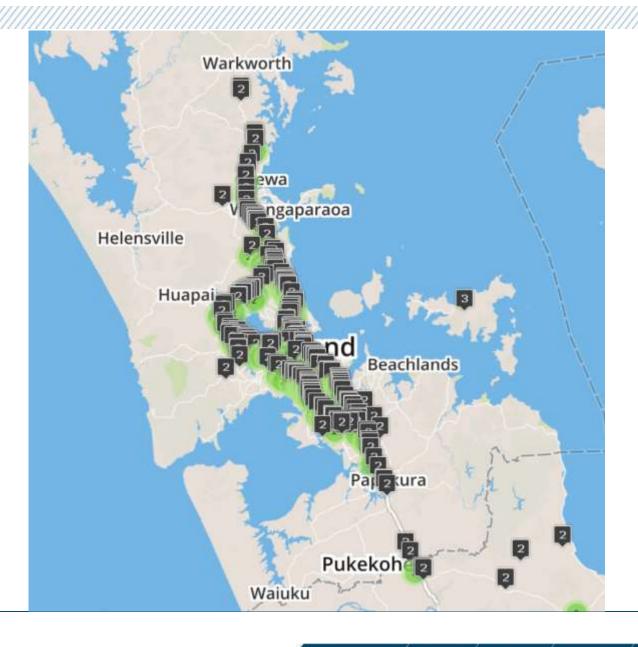




Data capture: **Mobile Road**









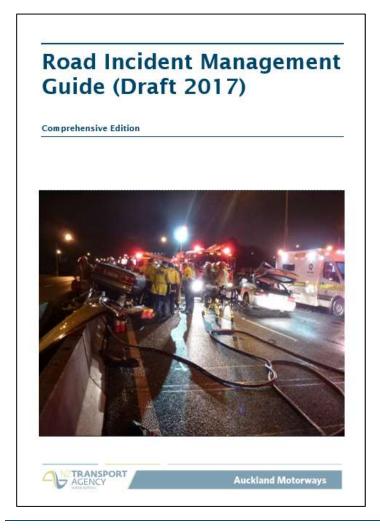


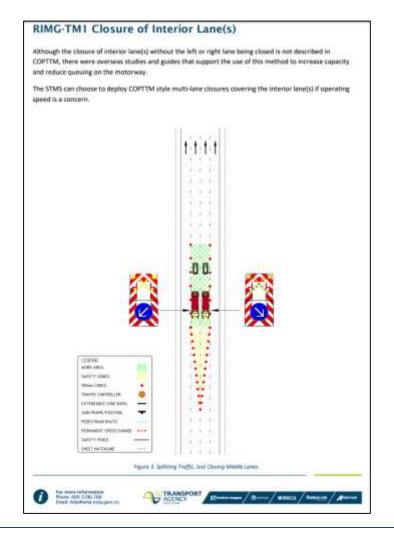


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Knowledge Transfer









End

Questions.







