

Wellington Transport Operations Centre

SNUG 2024 Update



Greet the audience, introduce yourself.....

Tech Services Manager for Waka Kotahi based at Wellington Transport Operations Centre in Johnsonville

Today I'm going to provide the WTOC update from the past 12 months

Since SNUG 2023...

- Technology
- Project Engagement
- Multi Modal Integration
- Team changes



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Last year I talked about some of these topics being challenges for WTOC. Whilst there are still some attributes that will always be challenging, we have seen some improvements with the delivery of.....

Technology – seen some improvement with technology upgrades and , outages/change freezes and follow up tasks require additional planning

Project Engagement – seeing greater engagement and process with projects and being consulted, but still working towards having our voices hear.

Multi Modal Integration – gaining more experience and learnings from multi modal integration, finding it challenging adding these facilities to existing corridors without significantly impacting efficiencies.

WTOC Growth & Development – past 12 months

- Recruitment
- Approx. 11 new sites over the past 12 months
- SCATS server upgrade
- PNCC SCATS Migration
- WTOC review and reset of MOU's with Council's for SCATS operational services



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2 staff leave in the last 2 months – recruited 2 new staff members

SCATS Server Upgrade

Item	From	To
Server	Single virtual production and DR	Dual virtual production and DR
Operating System	Windows 2012	Windows 2022
SCATS	V6.9	V6.10
Eltima	V6.0	V9.0
Location	Wellington	Wellington and Auckland



Clean up tasks:

- Configure new DR IP address into each controller (something we will factor into PM jobs)
- SOP for enacting DR
- Regular DR testing

- Possibly update to SCATS v6.11

Overall large and technical piece of work that could only be done afterhours, but we now have a resilient and supported network. Special thanks to the team and Michael Daley.



Palmerston North SCATS Migration

History:

- Site communications outages
- PNCC SCATS server required upgrading
- Limited SCATS technical support
- Limited SCATS operational support

Scope:

- WTOC operational MOU
- Complete site communications upgrade
- Migrate PNCC SCATS server
- Develop operational SOP's
- Establish relationships with stakeholders
- Operate network
- Report back to PNCC

PNCC SCATS sever died 2 weeks before our server upgrade!!!

Wellington Traffic Signals Maintenance

- Contract awarded to Downer - 4+1 term
- Official handover to WTA 1st July 2024
- WCC & WTOC remain the SCATS operator
- Current focus:
 - Onboarding/embedding of contractor
 - Asset management system
 - Renewals



An update

Improved resourcing and a co-ordinated and combined delivery of renewals

SH59 / Grays Avenue, Plimmerton

Opportunity for Enhanced Pedestrian Safety

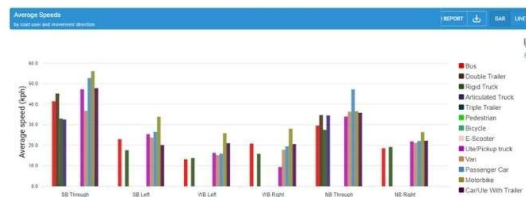
Since the opening of Transmission Gully, there's been a significant reduction in traffic volumes, creating a prime opportunity to enhance pedestrian crossing times and protection.

Safety Concerns

- **High-Speed Left Turn:** The SB left turn from Grays Ave presents a risk due to its blind corner approach, creating a potential danger for pedestrians.
- **Dual Right Turn Lanes:** The dual right turn lanes from Grays Avenue onto SH59 impact pedestrian crossing time, leading to hurried crossings, particularly challenging for older community members.

Optimisation Plan

- **Where are our blackspots?** Conduct a survey to understand baseline safety risks and flows
- **Extended Crossing Times:** Increase pedestrian crossing times to improve safety and protection.
- **Traffic Flow Adjustments:** Address the high-speed left turns and consider reducing the dual right turn lanes to ensure safer pedestrian movement.



SMART Safety Application

- **Pre-Survey:** Deploy a temporary AI camera onsite for a 7-day pre-survey to establish a baseline - capturing data on speeds, flows, trajectories, conflicts and near misses, validating site specific challenges to support optimisation changes
- **Implementation:** Make the necessary optimisation changes
- **Post-Survey:** Conduct a 7-day post-survey to measure the effectiveness of the implemented safety improvements and reduce potential pedestrian conflicts

Intelliconnex

- Reduces contractor time on site
- Reduced TTM requirements
- Reduces network down time for pole replacement & fault finding
- Poles can be easily isolated
- Improved safety working at heights and with 230V
- LV and ELV compatible
- Cost savings to be had as reduces need for excess cable on site

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Intelliconnex product

Added to an intersection in Wellington



Cycle Signals

- Separated cycle lanes added to sites in New Plymouth and Palmerston North
- New facilities for both networks that users have not experienced
- Mixed feedback from users
- Some operational issues to work through

Challenges:

Shared left and through lanes

User acceptance of new facilities

Non-compliance/user understanding

Consistency

Projects

- M2PP - Completed
- PP20 – In Progress...
- NZUP Queenstown – In progress...
- ITSN – In progress...
- Riverlink – In progress...



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M2PP completed with assets handed back to councils

PP20 in progress, supporting revocation upgrades and new installs.

ITSN – new provider One NZ, large scale upgrade of all roadside asset comms equipment. Traffic signals are currently being selected for upgrade.

Riverlink in progress – review of 50% design for signalised interchange and surrounding signalised intersections

Riverlink Concept Design



Next 12 months...

- TOC national alignment and consistency
 - Team training & building resilience
- Complete P43 update & ratify the document
- Update Council operational SCATS MOU's
- Manage maintenance in line with GPS

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TOC Alignment

- WTOC and ATOC alignment
- Consistent processes and systems to support real time functions and ability to easily support areas of operation
- Will enable remote support and ensure a resilience in response to a significant disaster or event

GPS

Increased focus on delivering better outcomes for New Zealanders

Thank You

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Thank you very much for your time

If you have any queries or feel there could be opportunities to improve dealings with WTOC please come and see me afterwards otherwise we would be interested in hearing from you, my details are on screen.

Thanks