



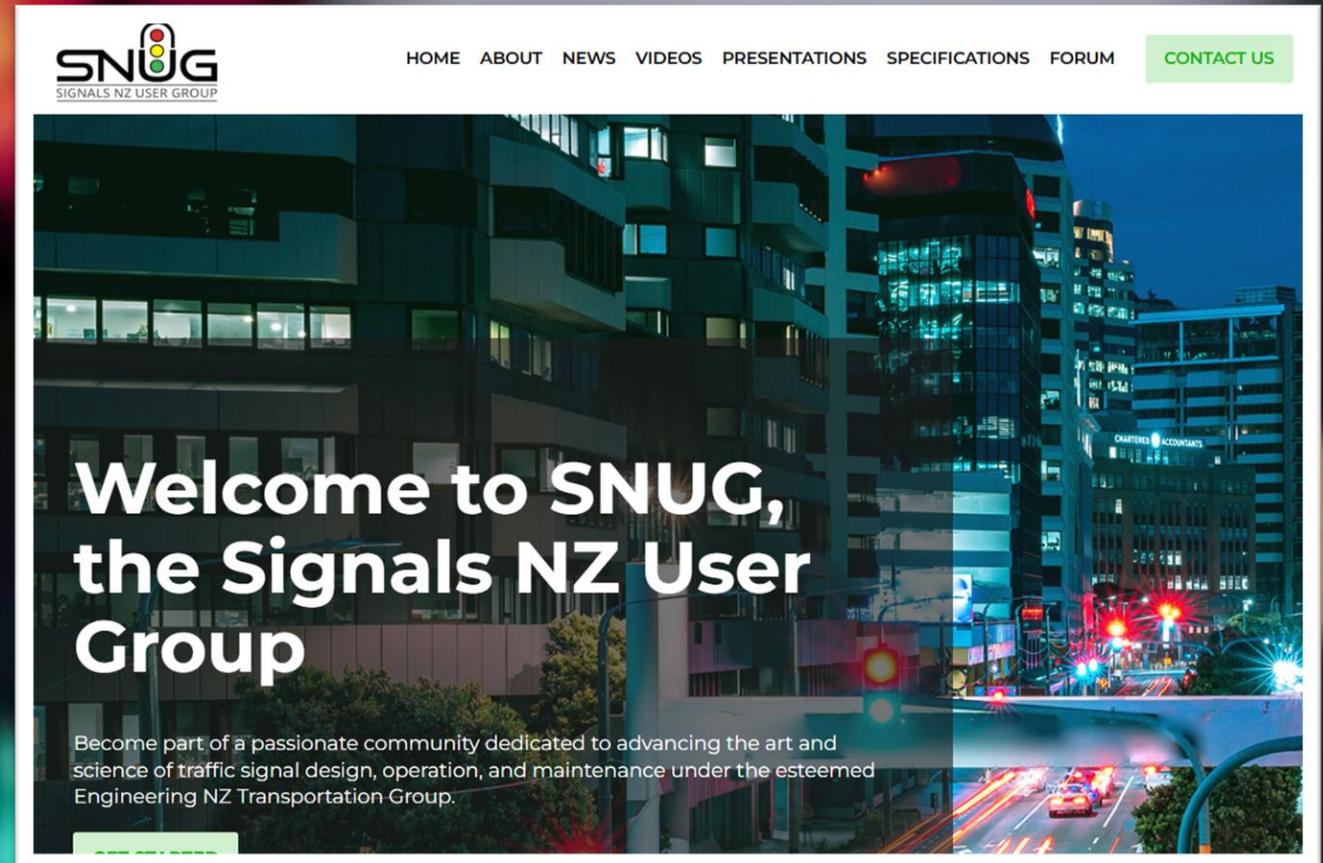
NZ - Hamilton

Region Update

SMUG – Feb 2026

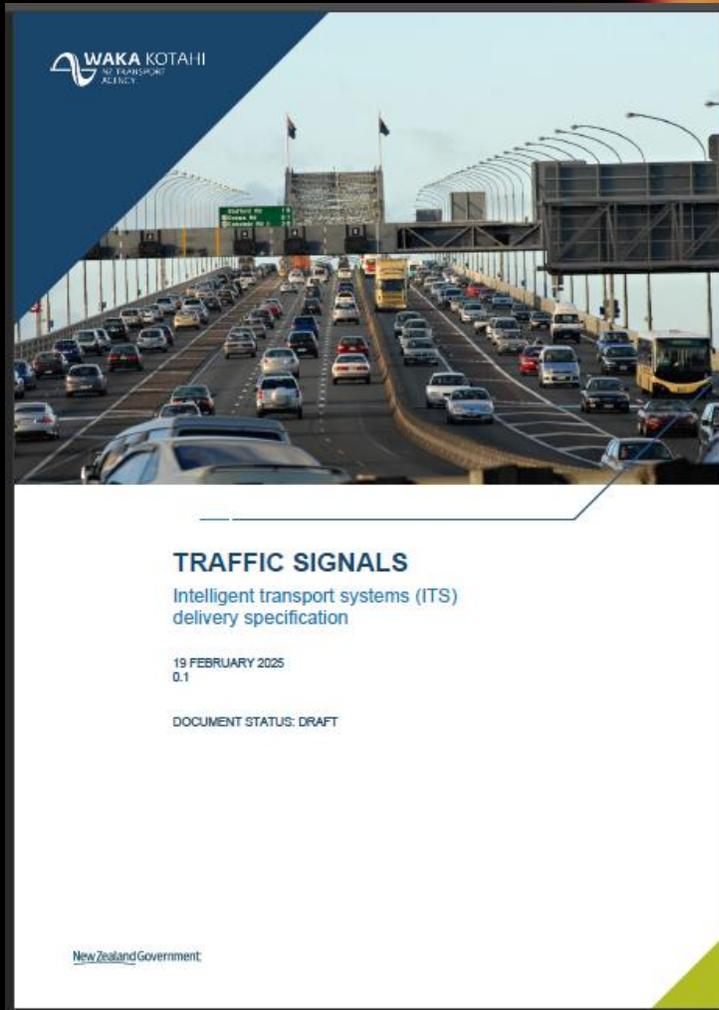
SNUG Overview (Signals NZ User Group)

- A subgroup of the Engineering NZ Transportation Group
- The object of SNUG is the advancement of the fundamental knowledge of the art, science and practice of design, operation and maintenance of traffic signals
- Our activities include:
 - Arranging annual conference
 - Developing standards, specifications, and codes of practice
 - Advising the government on matters relating to traffic signals
 - Promotion of trials and research in relevant topics
 - Industry Collaboration
 - Committee members = 22



snug.org.nz

New Specifications



**Traffic Signal Spec
(installation - P43)**



Design Standard

Traffic Signals in New Zealand

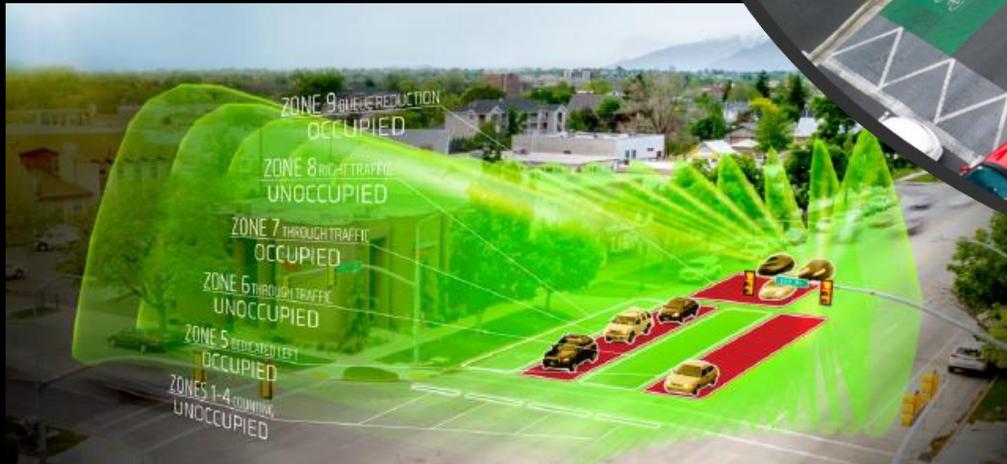
Across New Zealand:

- Various Traffic Operation Centre (“TOC”) or Councils manage the signals
- 2,500 signals total in New Zealand
- Half of them are in Auckland
- 90% are in SCATS
- 20% are VC6
- 5% are ELV



NZ Focuses

- Raised platforms
- Low Voltage
- Pole Sockets
- Radar / Lidar
- On-crossing detection
- Bus and Emergency vehicle priority



Hamilton Innovations



- **Hit Sensors**

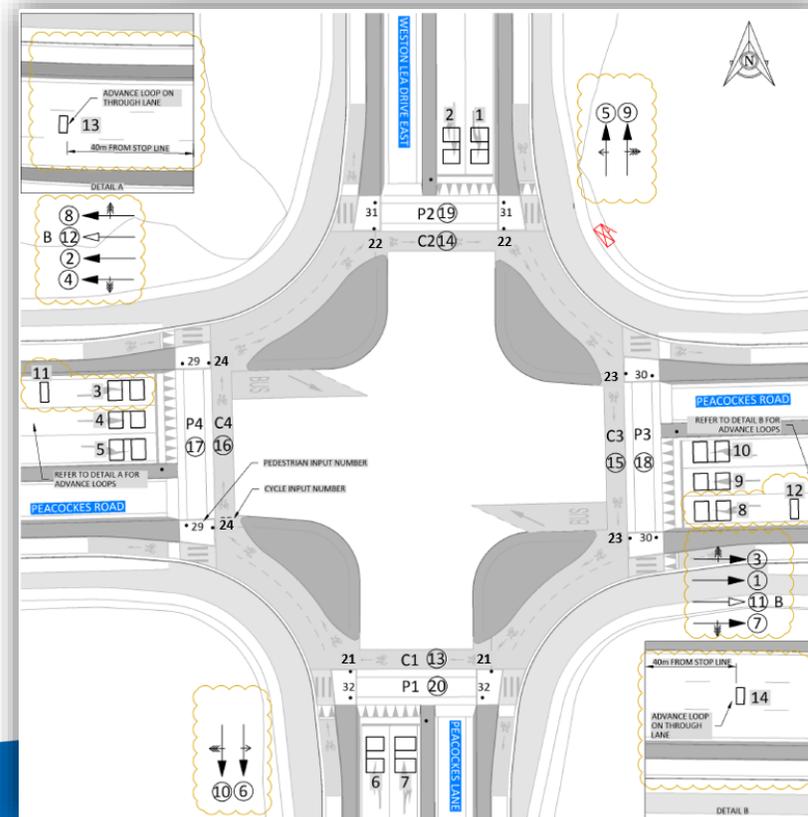
- Heading, Impact & Tilt (“HIT”)
- 25 now deployed on worst culprits (median etc)
- We put them on fold down poles so we know they’ve been folded down to check bolts...

- **Muting audio based on presence**

- Sensitive resident & disability advocacy group
- Potential compromise – only activate the audio when a pedestrian passes on the footpath

- **Protected Intersection Reintroduction**

- Ped and cycle crossing reintroduction on protected xing
- Stay in A phase and terminate LT SG and reintroduce



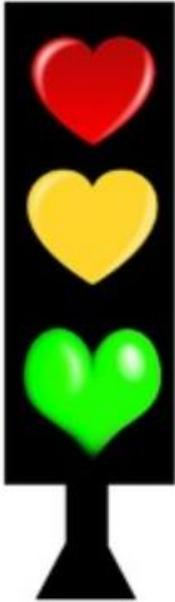
• Long Press Time Settings

- Elderly rest home residents were struggling to cross in time.
- Met residents and developed a solution.
- How it works
 - Software update
 - Resident holds button in for 2 seconds, red ped display flashes once in acknowledgment.
 - Ped phase runs double the walk & clearance time.
 - Residents are happy & safe.
 - Also doing more on-crossing Radars for dynamic pedestrian clearance





Love note from a SCATS operator



Baby you are my stretch phase, I want to give you all my time
You are extra special and your features are all positive

Your personality is perfect, there are no conflicts to be found
I like it when you get kinky with your variations

You are exclusive to me and I promise to fully protect you, even when you push my buttons with your late demands
And after an incident, you know just what to do to clear the queues

When I'm feeling isolated you pull me out of Fallback
When I'm stressed out and all my DS are running high, I can turn to you and your actions always boost my cycle length

I'm nothing without you, I need you like an SA needs an SI
I want to buy you a double diamond ring

My heart and mind are voting for marriage.
I want to marry you permanently, or in other words, untimed.

Let's not get stuck in a cycle loop, we need to stop dwelling on this.
Let us become one subsystem

Hurry call me baby, so we can start the next phase of our journey together.
Just me and you, my green eyed girl.

Thank you

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