

IPENZ Conference 2014



SNUG

Signal New Zealand User Group

Outline of This Presentation

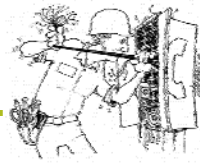
- Regional Update
- What's new
- Achievements
- Ongoing activities from the last year
- Hot Topics
- SNUG 2013/2014
- Web page and LinkedIn

Whangarei



27 on SCATS

?? Cameras



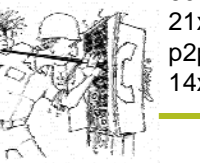
Mostly copper p2p, some 3G, some WiMax

Auckland



768 on SCATS
21 isolated
122 Ramp Signals

455 Cameras (not all on signals)



608x ADSL, 21xVDSL,
21x private copper p2p, 152x fibre, 1x 3G, 14x WiMax

Hamilton



76 on SCATS

1 Camera with 20
planned in next 5
years



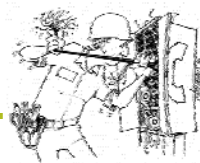
Mostly copper
p2p, some 3G,
some WiMax

Tauranga



34 on SCATS

80 Combined
Police & Traffic
Cameras



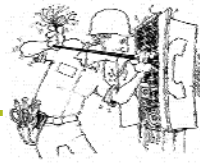
70% xDSL,
30% Fibre

Napier & Hastings



Napier 16 on SCATS
Hastings 17 No SCATS

No Cameras



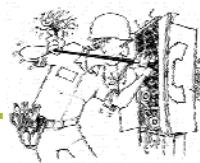
Napier copper p2p,
Hastings None

New Plymouth



22 on SCATS, 2 mid-block not on SCATS

No Cameras



Mostly copper p2p, plans for fibre update to some this year

Wanganui



19 Intersections, No SCATS *hoping to connect to Wellington NZTA SCATS in next 12 months

Will install Cameras as part of the roll out



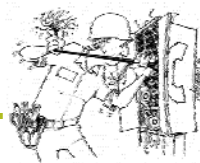
None, plans to use fibre & VDSL

Palmerston North



30 on SCATS

No Cameras



Copper p2p comms

Kapiti Coast inc Levin



8 on SCATS, 2 mid-block
not on SCATS,

8 Cameras



VDSL
WiMax,

Upper & Lower Hutt



31 on SCATS
3 No SCATS

About 12 cameras



xDSL
WiMax,

Wellington & Porirua



164 on SCATS
2 No SCATS

"Reasonable
Camera Coverage"
(over 200 cameras)



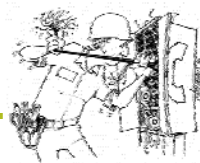
Fibre, xDSL,
copper p2p

Nelson & Tasman



19 on SCATS

Almost all sites



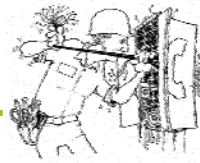
xDSL

Christchurch area



280 on SCATS

141 Cameras



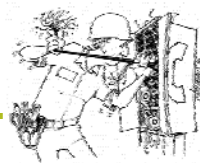
Our own VDSL,
Fibre, xDSL,
WiMax, P-P Radio

Timaru



14 on SCATS
3 No SCATS (to be fixed)

3 Cameras



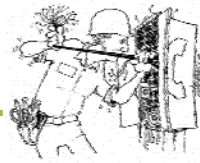
Fibre, xDSL,
Pilot Cables

Dunedin & Oamaru



84 on SCATS

?? Cameras



50% on xDSL,
Pilot Cables,
copper p2p

Invercargill



34 on SCATS

?? Cameras



Copper p2p, first
two sites on Fibre
in Jan!

Roundup Summary

- Approximately 1,816 signals in New Zealand.
- Over half are visible through cameras.
- 13? SCATS systems operating in NZ.

What's New - Intersection Puffin

On Crossing detection at intersection.

Provides full pedestrian protection with partial protection benefits for vehicles



What's New - Intersection Puffin



- Holds left turn red arrow for just as long as pedestrians are still crossing.
- Runs 12s green man for school period with full protection!

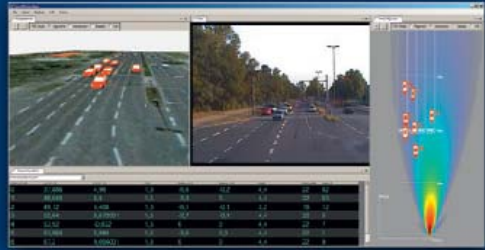
What's New - Radar SCATS loop

- Replaces SCATS loop with above ground radar detector



What's New - Radar

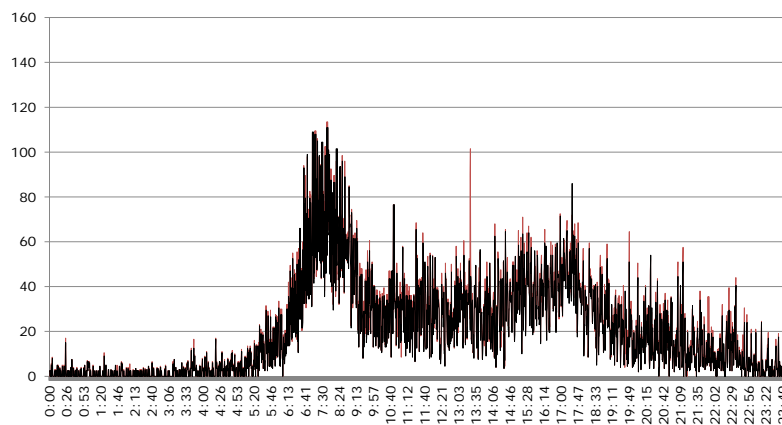
Universal Traffic Management Radar UMRR-0A



Intersection Applications

- Stop Bar Detection
- Loop Replacement
- Speed and Red Light Enforcement
- Advance Detection
- Dilemma Zone Monitoring
- Estimated Time of Arrival
- Traffic Statistics Data
- Event Based Signal Triggering

Radar / Loop comparison DS (radar red – loops black)



What's New - Wireless Fire Call



- Does not require a licence,
- Has a range of up to 350 meters
- or 2KM with an external antenna.

What's New - Red Light Camera



- Linked to SCATS Loops
- Triggers video camera
- Triggers Hi-Res camera
- Not legal for enforcement

What's New - Loop less Crossing



Use of FLIR camera to provide detection as well as monitoring.



Achievements 2013/2014

- TCD Rule Change
 - allows a green left turn arrow display to “blackout” rather than being followed by a yellow left turn arrow display.
 - Will be in next road user rule end of 2014/early 2015.

On Going Projects

- Asset Management
 - Working to provide a guideline system for a data tree covering traffic signal assets.

On Going Projects



National Traffic Signal Specification

- Draft 2013 version
 - Significantly revised from previous 2005 version
 - Encompasses the best practice for the supply and installation of traffic signals
- Working with New Zealand Standards to publish and withdraw the existing standard NZS 5431:1973

Hot Topics

The following items are areas that are currently being discussed to see if there is any scope for further investigation. Or to define greater the scope for a trial.

Hot Topics

- Intelligent red LED's at limit lines.
- Dual Pedestrian Clearance Facility.
- Flashing Yellow Off Peak / Overnight.
- Pedestrian Flashing Amber Man.
- Signals at Free Slips (2 aspect Yellow & Red only)

SNUG Conference 2014

- Christchurch
- 6th & 7th November
- Calling for Papers

Web Page

- Reviewed content and layout for new and improved layout by mid 2014
- News Page covering interesting and relevant articles and developments. (Aimed at maintaining the development of the group outside of the annual conferences.)
- Links to documents, standards and guidelines.

LinkedIn

- SNUG – Signals NZ User Group
- Currently 29 LinkedIn members
- Opportunity to post discussions ask advice and share information.