



Tauranga Transport Operations Centre





Another Busy Year for TTOC

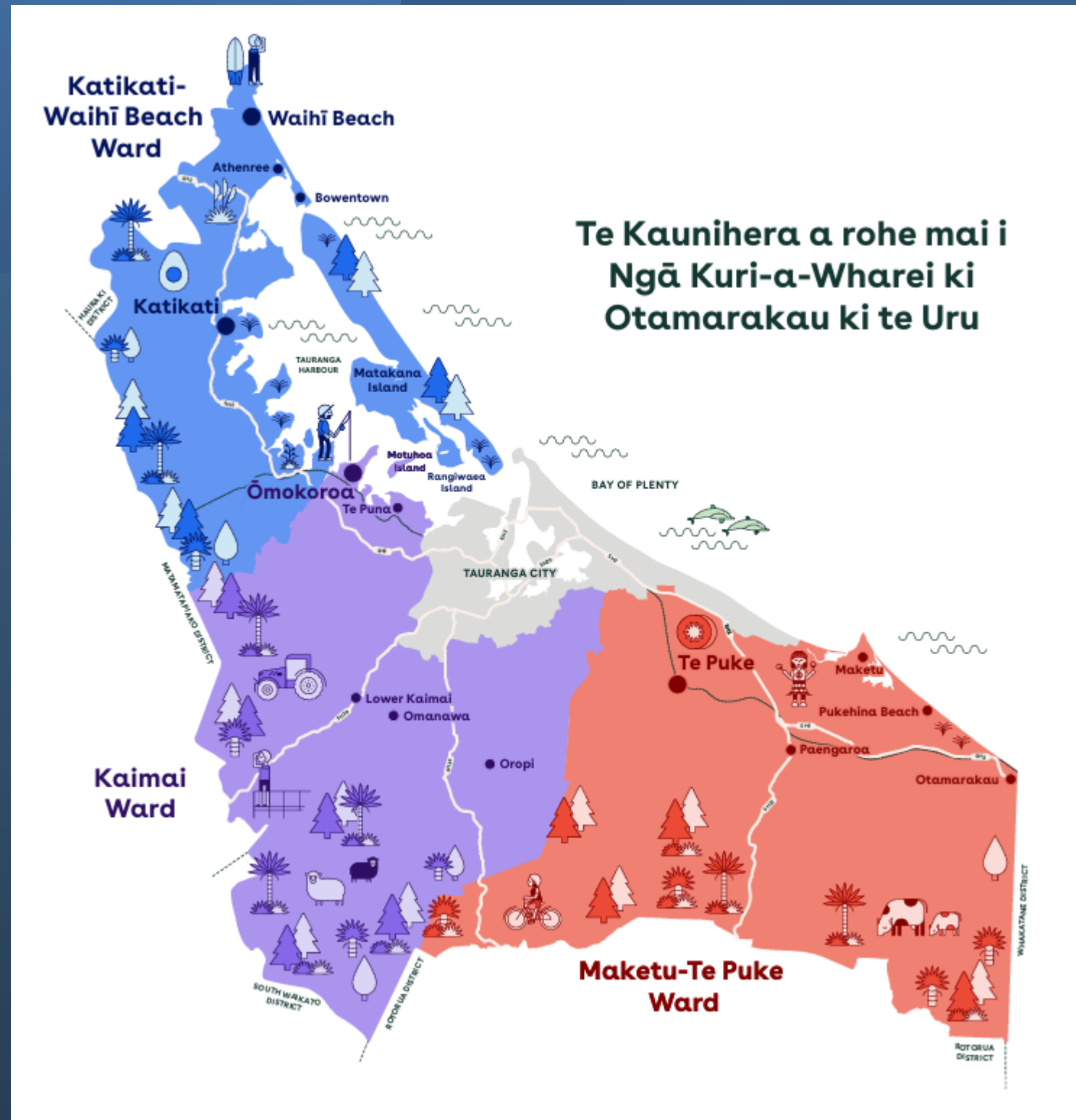
- More Cameras,
- More Signals,
- More Moxas,
- New Digs,
- New Contract

Western Bay of Plenty

join TTOC

130 Camera feeds onboarded
from WBoPDC in the last few
months

TTOC now monitoring a total of
1536 camera feeds from the
wider WBoP region plus
Rotorua's SHs and Taupo



TTOC Operator Numbers for 2024/2025 FY

TTOC has directly assisted police with

1113 Persons ARRESTED

183 Vehicles IMPOUNDED

**3034 Vehicles identified unlawfully
using the Hewletts Road Bus Lanes**



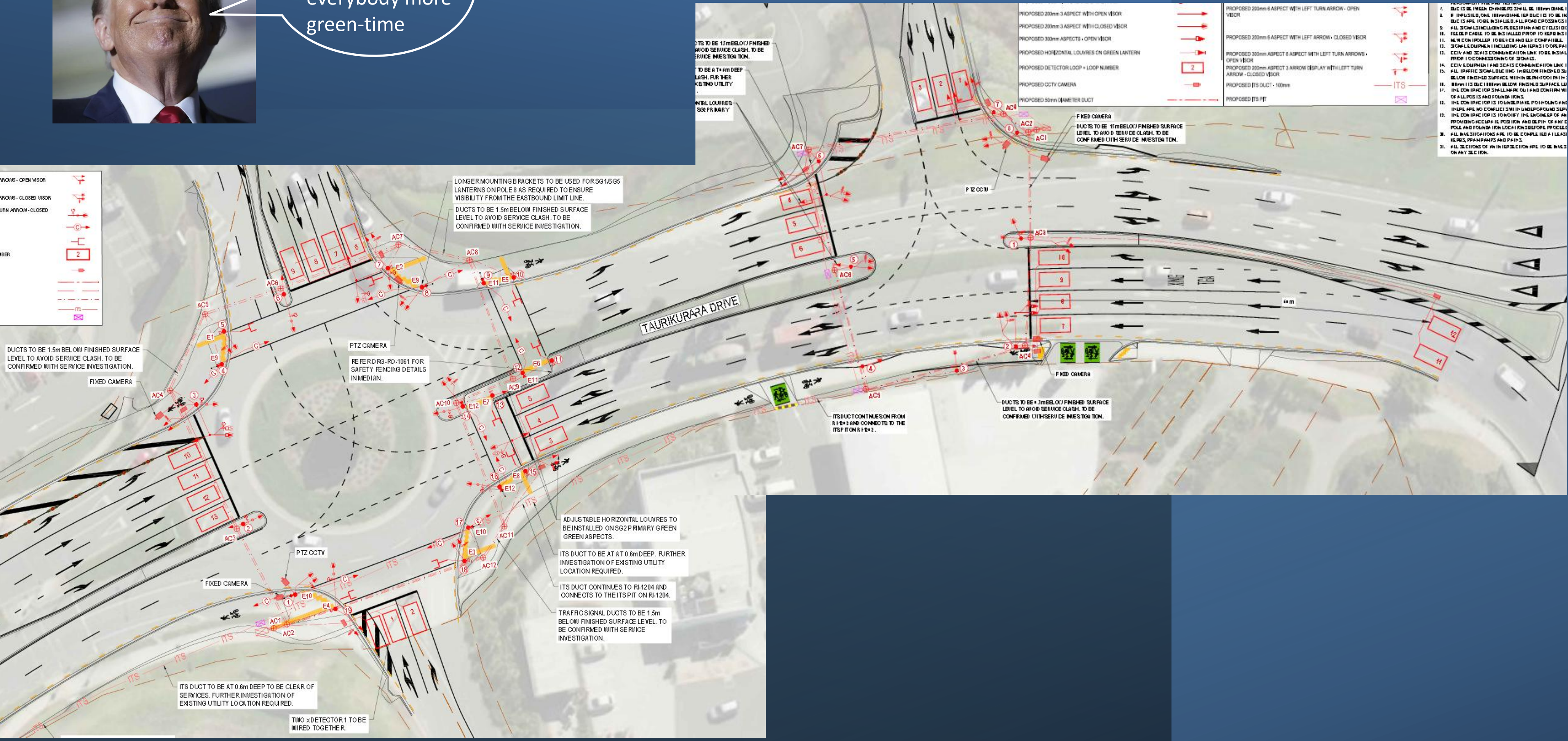
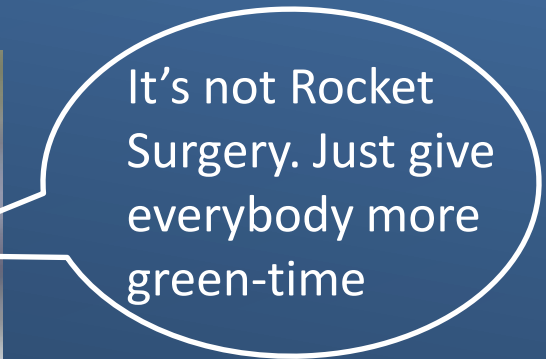


Other Video Footage Captures

- 122 Dangerous Driving Offences.
- 526 Driving Incidents/Complaints.
- 736 Vehicle Crashes/Collisions.
- 216 Fights / Assaults.
- 109 Violence Related Arrests.
- 0 Handbag Attacks

Taurikura Drive
Tauranga Crossing
Project very soon
will deliver
3 new signals sites
&
some stress







Master Isolated Civil Union

Issue – Conventional marriage between a major junction and a midblock ped crossing requires a bit too much commitment

- Alternative Idea – SCATS dwell the Midblock Xing to prevent ped introduction
- Ped Xing dwells initiated in direct response to the Signal Group state at the intersection
- Mitigate Diamond Phasing “Unpredictability” of Through Movement SG introduction
- Intersection can run in Master Isolated mode – It knows nothing of its relationship
- At Split Ped Xings the dwell can be cancelled early if the non co-ordinated side’s Ped movement is demanded



Ducan Ducan, I've
been doing this
for years

WBOP - Site 1063 Configuration

Site selection

View1063

Site ID

Slot no.

Refresh

Save

View all

Close

Site Data

Options

Intergreens

Pedestrian Movements

Split Plans

Offset Plans

Variations

Volumes

Variation Routines

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

VAR7: Go to VAR15

VAR8: VR37 - Composite Test VR

VAR9: VR19 - OR

VAR10: VR37 - Composite Test VR

VAR11: VR19 - OR

VAR12: VR3 - Test for a phase running

VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR57 - Master Isolated

Skip

Comment

200

Cycle length below which will run

TCS 1013

TAURANGA

WBOP

SS=13

9 PHASES

A

E

G2

B

F

C

G

D

G1

The diagram illustrates a traffic signal intersection with 9 phases. The streets shown are BAYFAIR, GIVEN ROAD WEST, GIVEN ROAD EAST, and GLOUCESTER STREET. The phases are represented by colored arrows: A (green), B (green), C (green), D (green), E (green), F (red), G (green), G1 (green), and G2 (green). The diagram also shows the layout of the intersection, including the location of the traffic lights and the direction of traffic flow. The site number 1063 is indicated in the top right corner, and the site number 9032 is indicated in the bottom left corner.

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

VAR7: Go to VAR15

VAR8: VR37 - Composite Test VR

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VAR12: VR3 - Test for a phase running

VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR37 - Composite Test VR

Skip

Comment

1013 is in E Phase intergreen & no G1 demand sets TRUE

Phase interval

0

Index

1013

Reference (site, SS, SI, SA, LK)

Equal

7

Value, Type, Operator

OR

Connecting operator

Phase interval

0

Index

1013

Reference (site, SS, SI, SA, LK)

Equal

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

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VAR11: VR19 - OR

VAR12: VR3 - Test for a phase running

VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR37 - Composite Test VR

Skip

Comment

1013 in G Phase & SG3 not Green sets TRUE

Signal group

3

Index

1013

Reference (site, SS, SI, SA, LK)

OFF

0

Value, Type, Operator

AND

Connecting operator

Current phase

0

Index

1013

Reference (site, SS, SI, SA, LK)

Equal

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

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VAR12: VR3 - Test for a phase running

VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR3 - Test for a phase running

Skip

Comment

1013 is in A Phase

1013

Site number (0 = own)

A

Phase

Test for phase running

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

VAR7: Go to VAR15

VAR8: VR37 - Composite Test VR

VAR9: VR19 - OR

VAR10: VR37 - Composite Test VR

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VAR12: VR3 - Test for a phase running

VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR15 - Count routine

Skip

Comment

Maximum dwell time

35

Value when true

Latched Timer

Counter Type

Retain true until next count

Zero on false

Retain true until preceding false

VAR1: VR57 - Master Isolated

VAR2: VR10 - RESET

VAR3: VR11 - Test day number and time

VAR4: VR19 - OR

VAR5: VR11 - Test day number and time

VAR6: VR99 - Skip next entry on TRUE

VAR7: Go to VAR15

VAR8: VR37 - Composite Test VR

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VAR13: VR15 - Count routine

VAR14: VR22 - Dwell a phase

VAR15: VR10 - RESET

VAR16: VR63 - Test for a dwell

VAR17: VR15 - Count routine

VAR18: VR36 - Read action list

VR3 - Test for a phase running

Skip

Comment

1013 is in A Phase

1013

Site number (0 = own)

A

Phase

Test for phase running

(3) 1013 - Gloucester Street, Girven Road, Bayfair : Tauranga (TCC) - WBOP

ShowConfigureOptions

FindMonitorSubsystemStrategic MonitorSFT version V2ca CS=B7/267

1013

Alarms NF

WBOP Subsystem 13

Degree of Saturation 90

scats Move Smarter

Split Plan 2

Master Isolated

Subsystem Plan 2

Master Subsystem

Cycle Generator 6

Offset Plan 3

Offset 0, 0 G

Link Plan 3

Link none

Active Link none

Special Facilities Z3,6

Cycle Plan none

Cycle Length 80

Required Cycle Length 80

XSF

Active Plan

<A>	24%	20
C	17s	17
D	14%	11
E	23%	18
G	18%	14
B		
F		

80

Site Operation

<A>	25	16
C		
D	21	23
E	19	22
G	1	35
B		
F		

80

MIN

G TG22

Active Offset 0 G

Site Fallback 0

MSS

Master Isolated

TCS 1013

TAURANGA WBOP SS=13

9 PHASES

A

E

G2

B

F

C

G

D

G1

9032

1063

Region - WBOP - Version 6.10.0.4

User 6 - Level 1

19/09/2025 8:58:21 AM

(2) 1063 - Girven Rd, Marlin St, Ped X : Tauranga (TCC) - WBOP

ShowConfigureOptions

FindMonitorSubsystemStrategic MonitorSFT v1cb_CS363

1063

Alarms LC SI NF

WBOP Subsystem 78

Degree of Saturation 0

scats Move Smarter

Split Plan 1

Master Isolated

Subsystem Plan 1

Divorced -

Cycle Generator 22

Offset Plan 3

Offset 0, 0 ^A

Link Plan 3

Link 12, 17 ^G 1013

Active Link 17 ^G 1013

Special Facilities Z3,6

Cycle Plan none

Cycle Length 45

Required Cycle Length 45

XSF

Active Plan

<A>	62%	28
B	17s	17
C		
D		
E		

45

Site Operation

<A>	26	2
B	17	0
C		
D		
E		

45

YEL

A ... <I>RT:1G2G3GW4GW@1 MX@22 P^B@23

Active Offset 0 ^A

Site Fallback 0

MSS

Master Isolated

TCS 1063

TAURANGA WBOP SS=78

5 PHASES

A

E

B

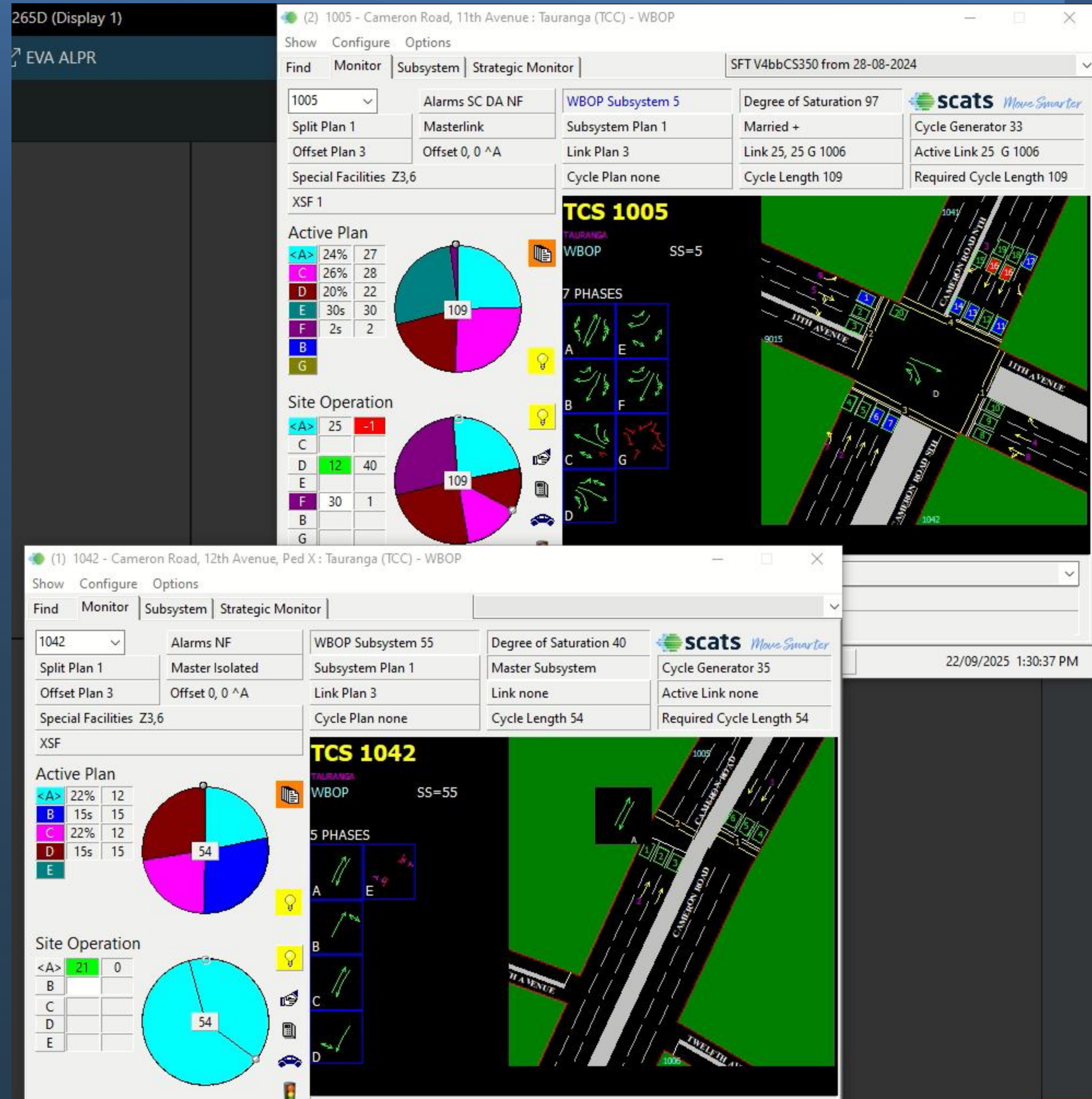
C

D

Region - WBOP - Version 6.10.0.4

User 6 - Level 1

19/09/2025 8:58:21 AM



Lead Lag Double Diamond Dipped

Increasing Software Operational Flexibility

Utilise XSF flags to place demands on specific detectors - Are missed detections more common than they used to be?

Utilise XSF Flags to force / prevent specific phase sub-options

Latest software for a nonfilter DD site can run Diamond or Lead/Lag or Split Approach phasing on either or both roads, utilises 10 XSF flags.

Utilise Delayed Ped Movement Introduction in addition to or as an alternative to Special Red times

Utilise Ped on-crossing AGDs for variable Clearance 1 time operation

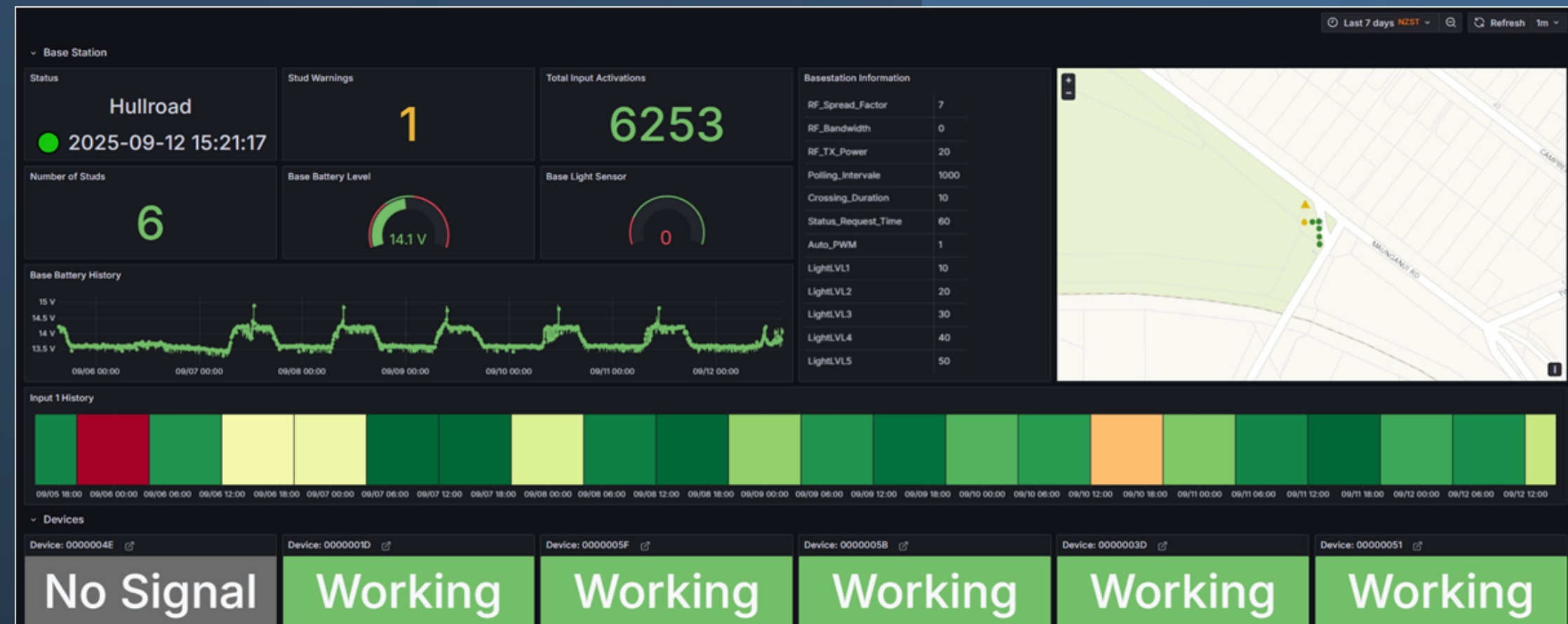
We use the
Confederate Flag
to do all this



Smart Stud Trial

Issue – A left turn slip lane zebra crossing frequently used by children often on fast scooters

- Motion Detection on crossing and footpath approach to the crossing done via a FLIR Camera
- Road studs are solar powered LED and Bluetooth connected - No Cables
- Base unit solar powered mounted on a Street sign pole - communicates back via a cellular connection
- Enables Remote Operation & Fault Monitoring with Dashboard







- A Bit Ferral ✓
- NOT WANTED ✓
- Having a Blast ✓