

CAS and NZ Police

Using evidence to drive activity

STRATEGIC OVERVIEW

RoadPolicing

Policing our roads is all about...



Saving lives
Reducing injury



RoadPolicing

Today on New Zealand roads

- A person dies every 20 hours 40 minutes.
- A person is injured every 35 minutes.
- Someone is admitted to hospital every 72 minutes.
- A pedestrian is injured or killed every 8 hours 45 minutes.
- A cyclist will be injured or killed every 10 hours 40 minutes.
- A motorcyclist will be injured or killed every 8 hours 55 minutes.

There will be a crash somewhere in New Zealand every 13 minutes.

Road Safety Trends

- New Zealanders are more likely to die violently from a road crash than any other cause.
- Every day, 3000 people die from road crashes worldwide – every year 1.2 million.
- Road crashes are the single largest cause of unintentional death in the first five decades of life.
- You are ten times more likely to die on the roads than in any other way.



Some comparisons

- In 1973, 843 died on the roads.
- As recently as 1987 the death toll was 795.
- The drop in the road toll is in spite of huge increases in population, car ownership and travel.
- If we were still killing each other at the same rate today as in 1973, the road toll would be about 1750 per year.

Crash attendance and investigation

- New Zealand Police are required to attend and report on traffic crashes in New Zealand
- Police report all crashes by way of a Traffic Crash Report (TCR)
- SCU provides a further report on fatal and serious crashes
- Those TCR's and SCU reports are entered in to the CAS database

Traffic Crash Reports

Enter 'crash time' and 'officer arrival time' or 'didn't attend'

A traffic crash report form with several annotations. Arrows point to the 'CRASH TIME' and 'OFFICER ARRIVAL TIME' fields at the top. Another arrow points to the 'DRIVER' information section, specifically the 'DRIVER IS NOT A PASSENGER' checkbox. A third arrow points to the 'DISTANCE AND DIRECTION FROM SIDE OF ROAD' field.

Note that the driver is not a passenger

Distance and direction from side of road is critical

A traffic crash report form with annotations. An arrow points to the 'ALCOHOL TEST' section, which includes a 'TESTED' checkbox. Another arrow points to the 'STATEMENT' section, which contains a handwritten account of the crash.

Show results of alcohol test, if known; otherwise, indicate 'tested'

Get clear descriptive statements

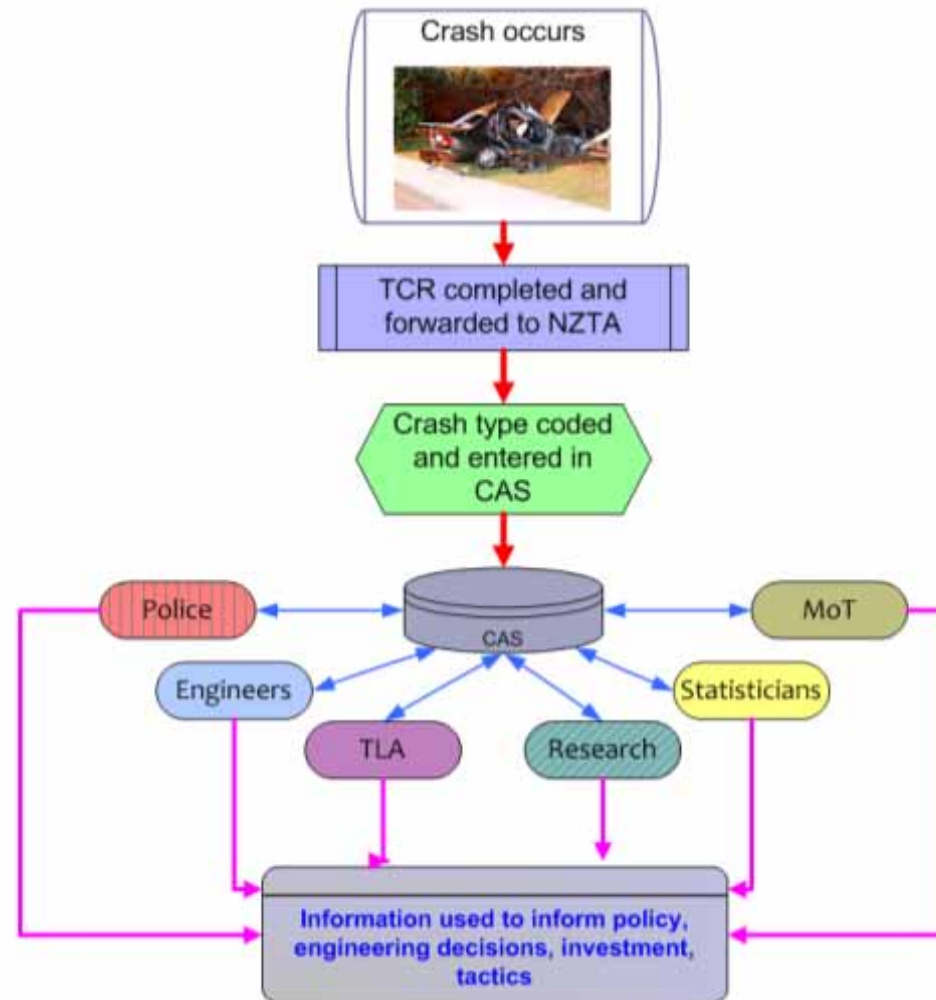
A traffic crash report form with annotations. An arrow points to the 'VEHICLE PATHS' diagram, which shows the movement of vehicles involved in the crash. Another arrow points to the 'LOCATION' field, which includes details about the road and surrounding area.

Show paths of vehicles

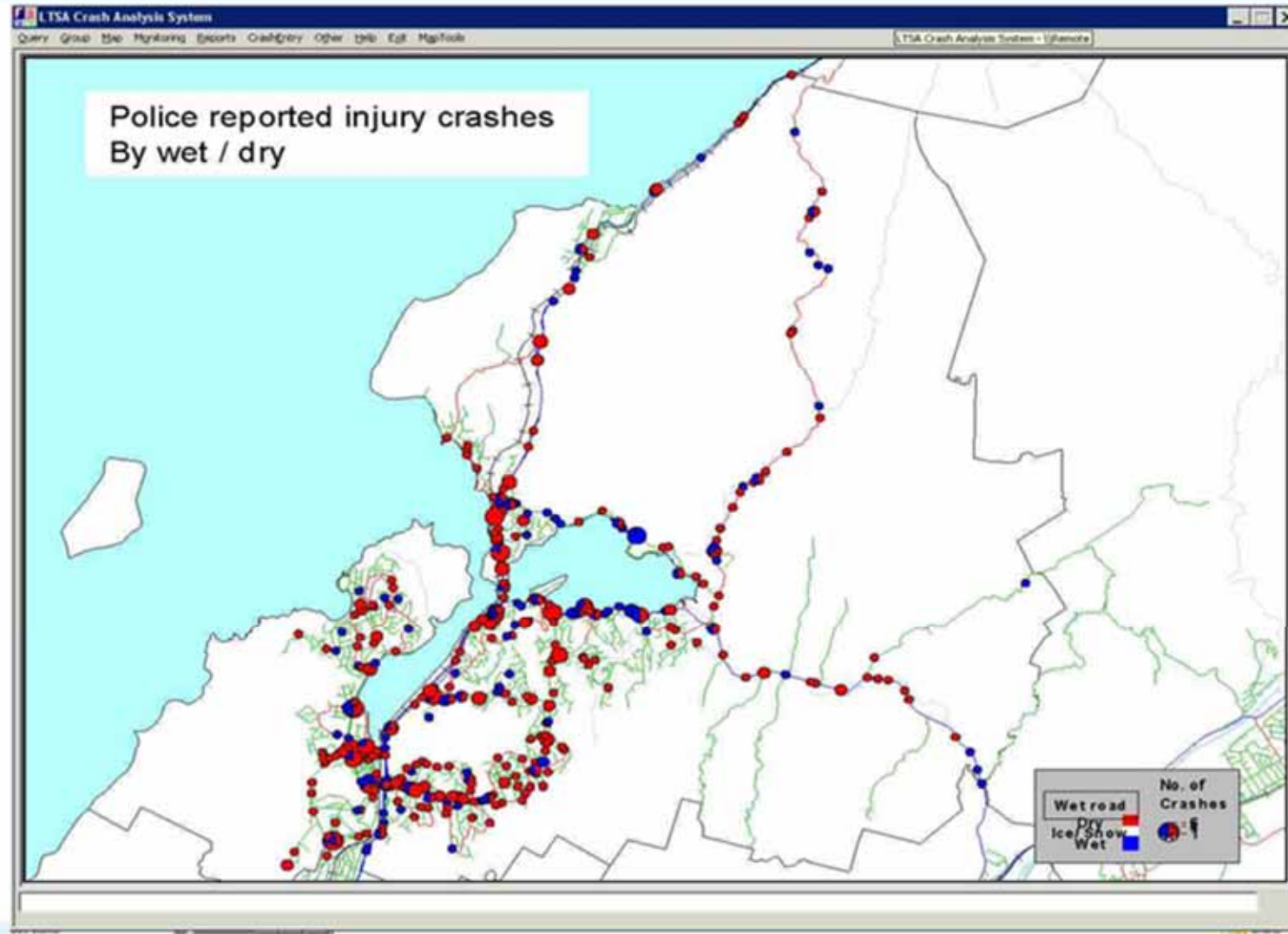
Give clues to location



Reporting Crashes



Crash Analysis System



Police Site Reports

Site Name: 7672 - Te Aro

Total Injury Crashes: 303

Total Non-Injury Crashes: 1056

Deaths 2

Serious Injuries 58

Minor Injuries 293

Crash Movement	Number	%
Overtaking Crashes	163	12
Straight Road Lost Control/Head On	29	2
Bend - Lost Control/Head On	88	6
Rear End/Obstruction	595	44
Crossing/Turning	302	22
Pedestrian Crashes	166	12
Miscellaneous Crashes	16	1
Total	1359	100 %

Crash Type	Single Party	Multiple Party	Total
Intersection	53	733	786
MidBlock	28	537	565
Total	81	1270	1351

Location	Local road	State Highway	Total
Urban road	928	430	1358
Open road	0	1	1
Total	928	431	1359

Environment	Light/Overcast	Dark/Twilight	Total
Dry	761	388	1149
Wet	101	108	209
Icy	0	1	1
Total	862	497	1359

Injury Crash Driver/Vehicle factors	No.Inj.Crashes	% Inj.Crashes
Alcohol	30	10
Too fast	14	5
Failed Giveaway/Stop	73	24
Failed Keep Left	3	1
Overtaking	12	4
Incorrect Lane/posn	27	9
Poor handling	25	8
Poor Observation	130	43
Poor judgement	13	4
Fatigue	4	1
Disabled/old/fill	7	2
Pedestrian factors	119	39
Vehicle factors	3	1
Other	30	10
Total	490	161 %

Day/Period	0000-0259	0300-0559	0600-0859	0900-1159	1200-1459	1500-1759	1800-2059	2100-2400	Total
Mon	5	4	20	19	37	42	27	2	156
Tue	7	1	16	38	32	40	23	13	170
Wed	5	7	19	30	38	53	25	22	199
Thu	9	4	19	24	49	42	29	14	190
Fri	4	4	23	32	38	53	42	49	245
Sat	35	24	11	27	41	37	24	25	224
Sun	24	22	15	27	28	27	17	11	171
Total	89	66	123	197	263	294	187	136	1355

How does CAS drive policing activity?

C.R.A.S.H. books

- Since 2001 analysis of CAS data
- Risk profiles allocated to 20 km sectors using qualitative analysis
- Sector analysis used for deployment to risk
- Sectors linear (highways), area or point (mainly urban)
- Infringement notices also sectorised
- Supplied to partner agencies – used to target risk
- Front end pictorial, back end highly detailed
- Not just a “black spot” treatment
- Behavioral vs. locational approach

Linear Sector Example

9259

FROM: Clinton (Bruce St)
To: Kahiku Stream Bridge

1



Length: 15 km Court Code: 005 Scene Station: CO LAOFF Code: 760



Risk Analysis

Look for:

Speed
Fatigue
Fail to keep left
Restraints

Times:

0900-1600, 1800-2200
Night-time
Friday
All seasons

Conditions:

Wet and dry roads during day and night

Locations:

Clifton Rd intersection
At Black Bridge Rd
Robertson Rd to Kuriwao Siding Rd
Moa Hill Rd to Clifton Rd (moderate bend)

Causes:

Farm animals straying
Lost control to left & turning right

Crash History (5 yrs)

0 Fatal	29 Minor Injury
4 Serious	17 Non-injury

See something, Do something...

Intelligence:

Crashes involving graduated license holders are over-represented in this sector. Farmland in this area also causes problems with stock on the road. The sector experiences a high volume of HMV-involved crashes. Speed enforcement in the 6-10kph and 11-15kph band is essential in this stretch of road, and speed approaching corners needs to be addressed. High visibility patrolling and fail to keep left enforcement is also essential in reducing injury crashes in this sector.

Tasking and Coordination

- Police have moved on to a tasking and coordination deployment model
 - Risk profiles are developed at National, District and Area level
 - A wide view based on a range of information – CAS, other agency intelligence (ACC, NZTA etc), enforcement data, local knowledge.
 - Feeds into local area deployment taskings for frontline staff

Safer Journeys - Road Safety Strategy to 2020



Moving forward

- Development of a themed cross-agency approach
- Aligned activity with Safer Journeys key action areas
- Police crash reporting feeds into the *information package* that drives strategic approaches

Thank you



*Road***Policing**