

Red Light Camera Trial Christchurch City Council

SNUG WORKSHOP 2018



- Prior to the 2011 Christchurch earthquakes, NZ Police supported and enforced 3 safety cameras within the city.
- The trial seeks to re-establish this capability with the objective of:
 - Reducing death and serious injury (DSI) crashes
 - Meeting Christchurch City Council DSI reduction targets

Underpinned by the Safe System Philosophy

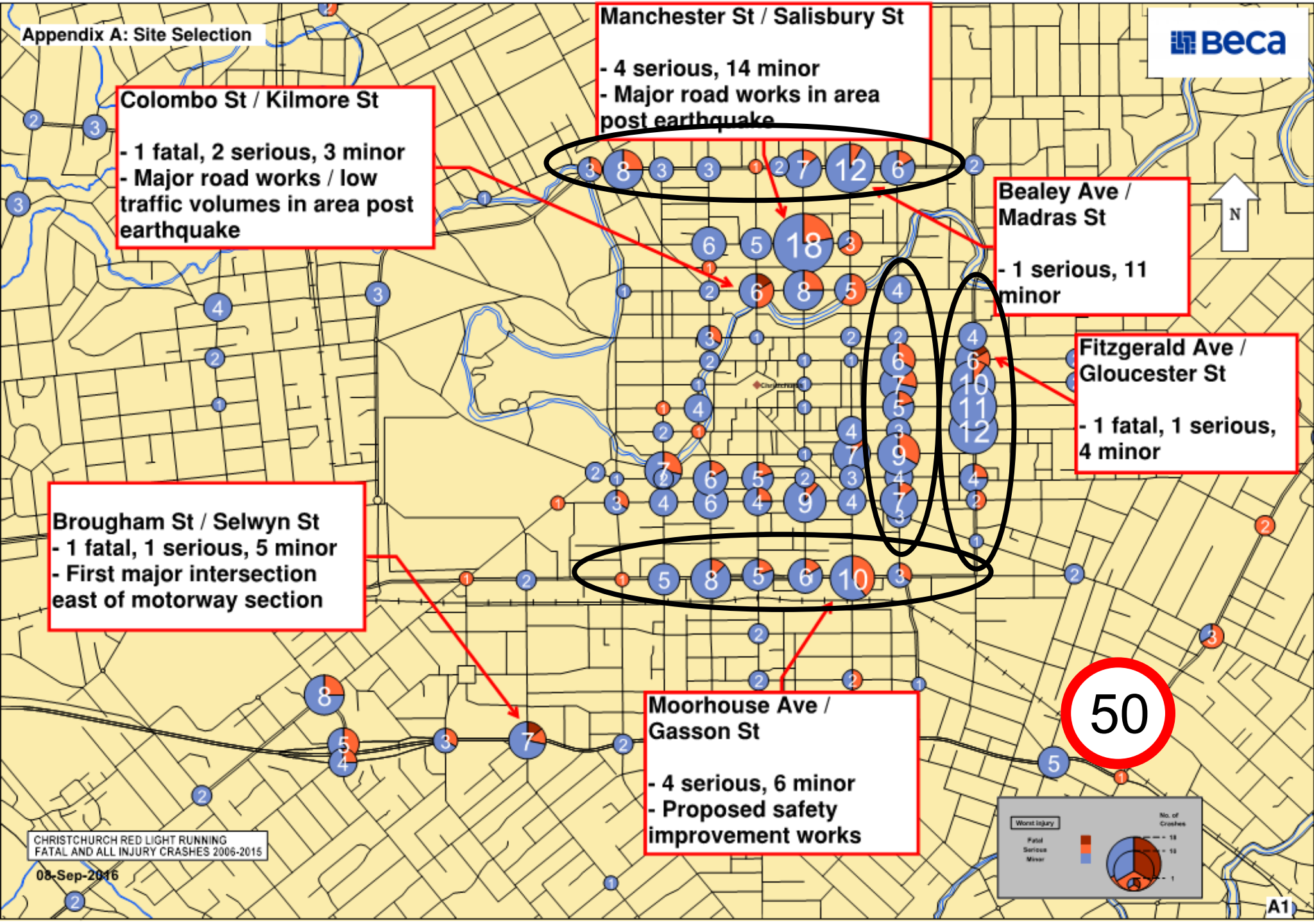


Introduction

Site Selection

Crash History

Prevalence of Red Light Running



Gatso Camera Selection Criteria

- Features
- No intrusive works or tie-in to signal control system
- Adaptability
- Safety in design, simplicity of construction
- Readily available in New Zealand

Camera Location

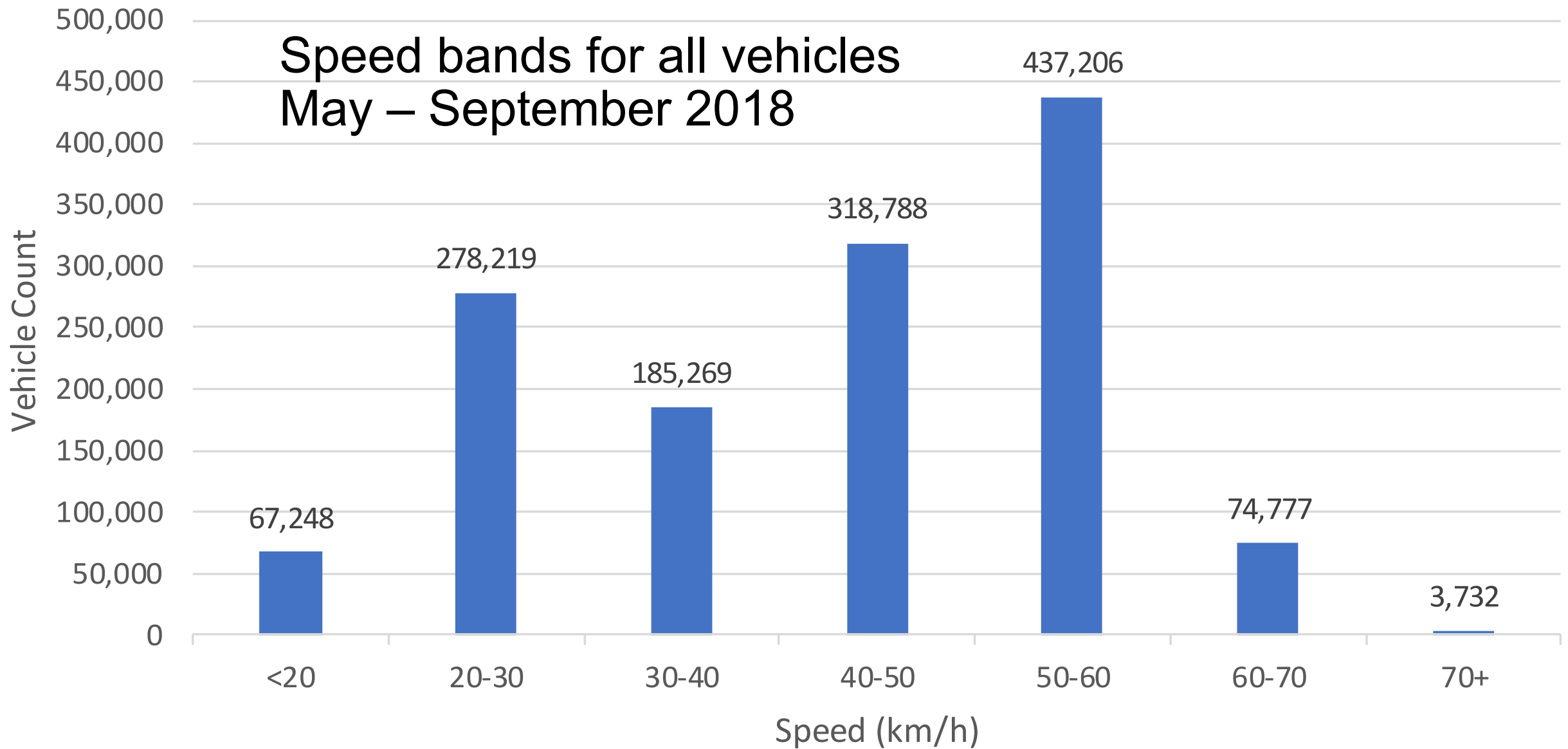


Key Contractors & Involvement

- **Christchurch Transport Operations Centre (CTOC)** – Network camera support
- **SensysGatso** – 3 day camera installation including calibration and maintenance reports
- **Telpower** – Power supply connection and underground ducting to cabinet
- **Traffic Control Systems (TCS)** – Installed cabinet and cable inputs/outputs

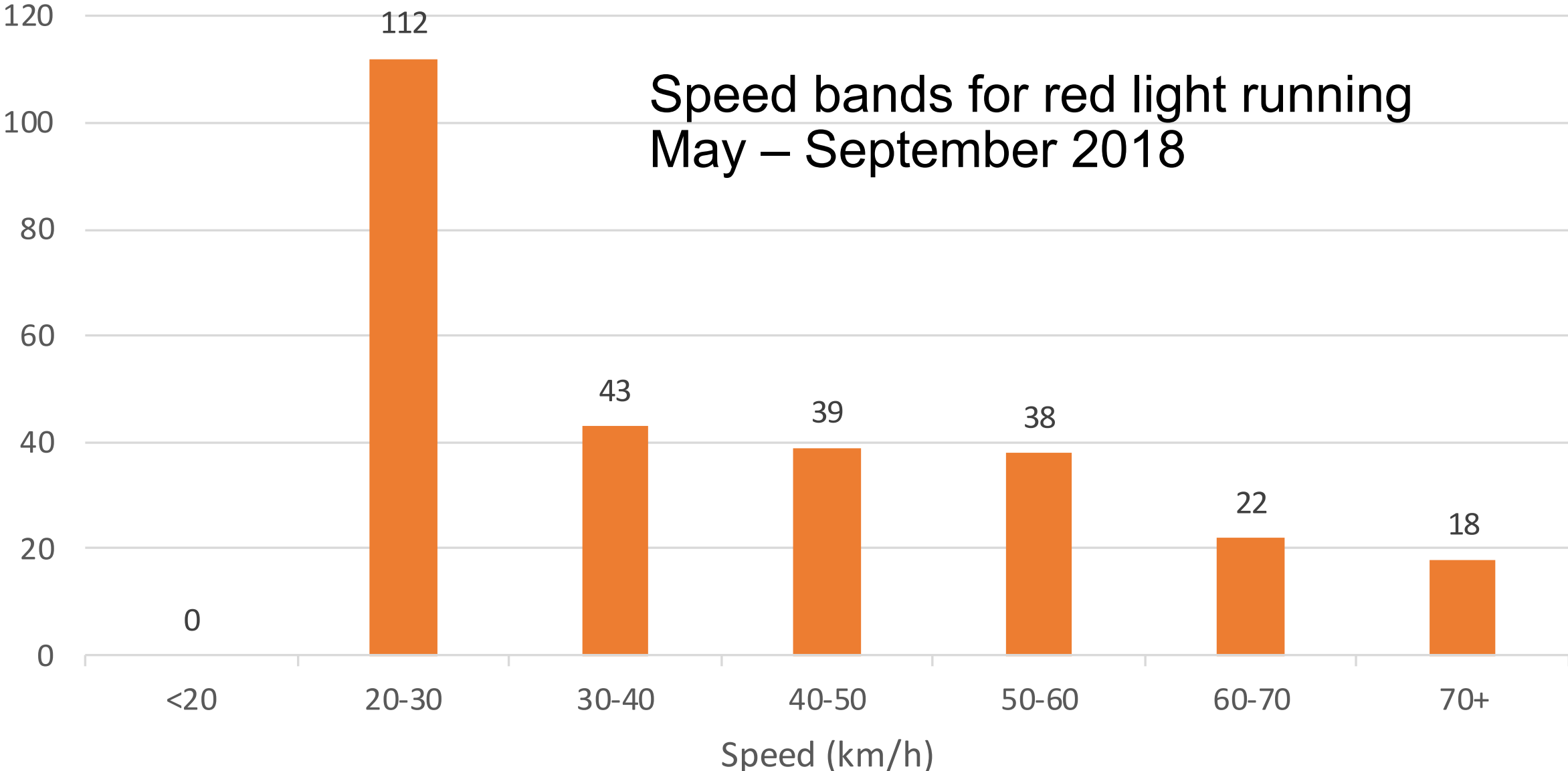


Speed bands for all vehicles May – September 2018

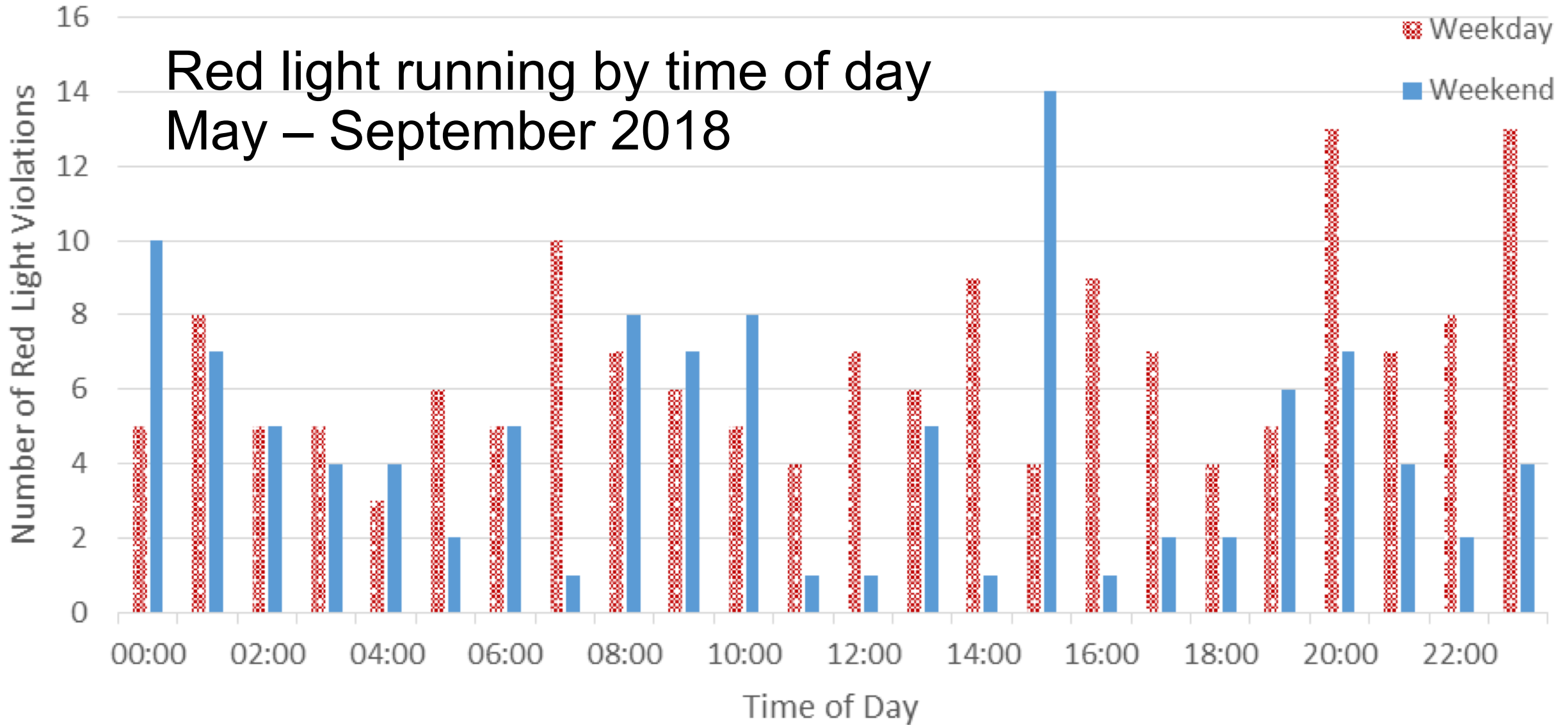


Speed bands for red light running May – September 2018

Vehicle Count



Red light running by time of day May – September 2018

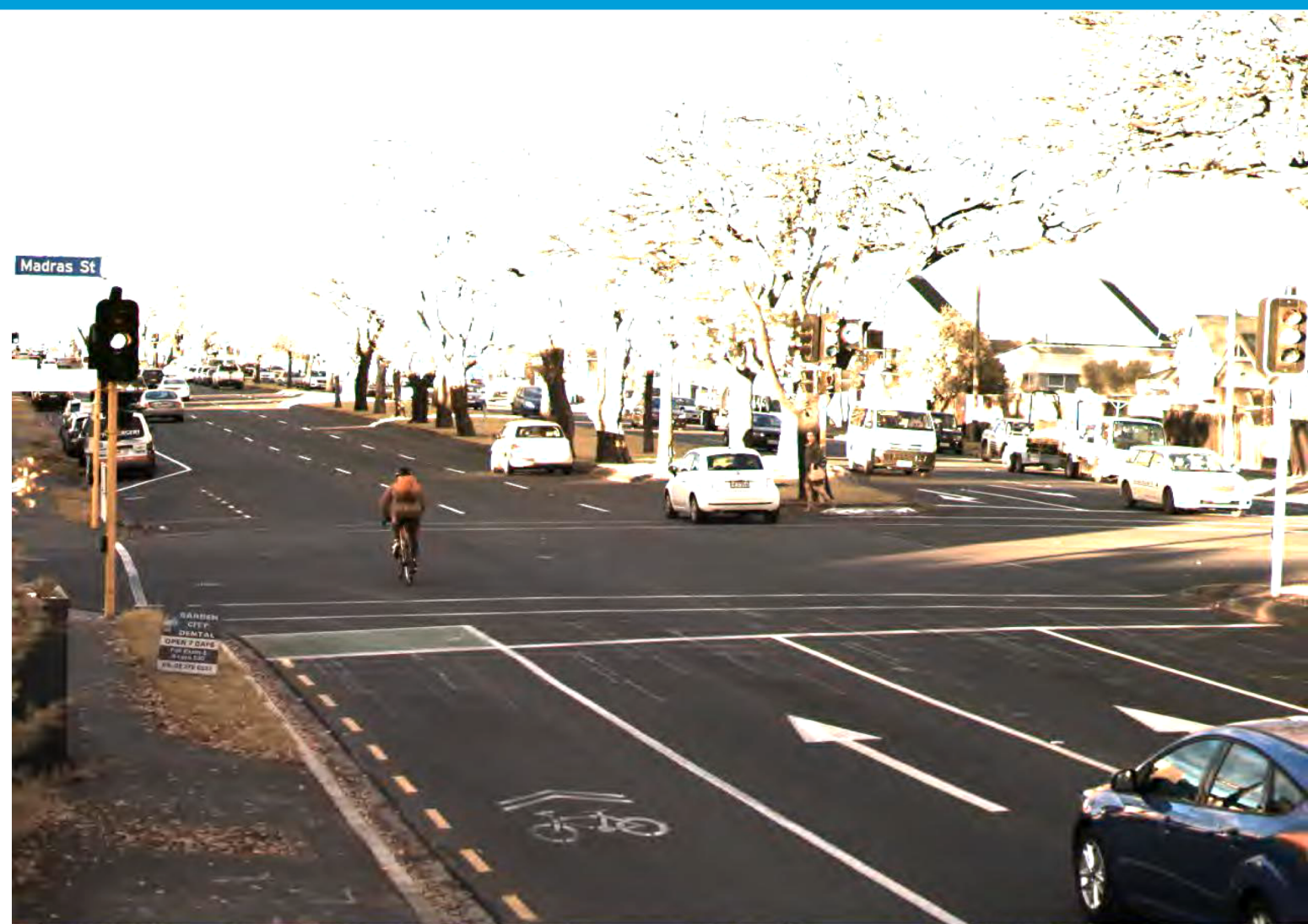


Driver Behaviour

4pm, Thursday afternoon

Speed is 39km/h

1.8s after red light



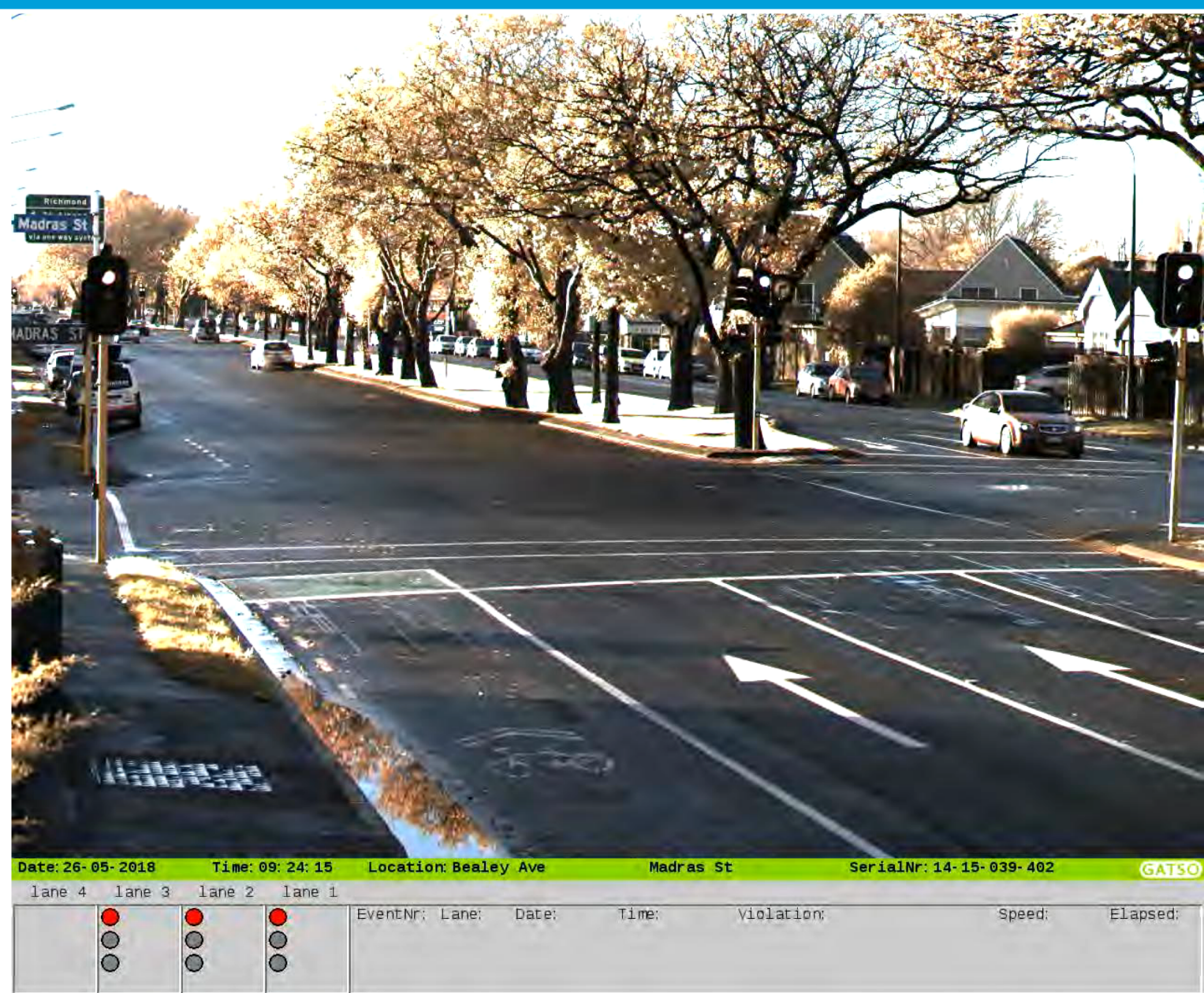
Date: 21-06-2018				Time: 16:13:57		Location: Bealey Ave		Madras St		SerialNr: 14-15-039-402		GATSO	
lane 4	lane 3	lane 2	lane 1	EventNr:	Lane:	Date:	Time:	Violation:	Speed:	Elapsed:			
●	●	●	●										
●	●	●	●										
●	●	●	●										

Driver Behaviour

9am, Saturday morning

Speed is 23km/h at stop line

8s after red light



Driver Behaviour

9pm, Tuesday night

Speed is 95km/h

1.8s after red light



Date: 29-05-2018 Time: 20:52:58 Location: Bealey Ave Madras St SerialNr: 14-15-039-402 GATSO

lane 4	lane 3	lane 2	lane 1	EventNr:	Lane:	Date:	Time:	Violation:	Speed:	Elapsed:
	● ● ●	● ● ●	● ● ●							

Cyclist Behaviour?

8pm, Saturday night

Speed is 20kph

11s after red light



Date: 26-05-2018				Time: 20:03:11		Location: Bealey Ave		Madras St		SerialNr: 14-15-039-402		GATSO	
lane 4	lane 3	lane 2	lane 1	EventNr:	Lane:	Date:	Time:	Violation:	Speed:	Elapsed:			
	●	●	●										
	●	●	●										
	●	●	●										

Identifying Minor Works

- Advanced vehicle detection on approach to the intersection
- Traffic signal operation
- Smart traffic signal systems (MOVA Traffic & Control)
- Intergreen signal timing (amber to red signal length)
- Reviewing of crash data and crash severity risk