

Electronic Signs

- improving driver awareness -



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Region 10

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Electronic Cycle Warnings Signs



New Zealand Approach



Case Study 1: SH 60 - Appleby Bridge

- ADDT 12,000
- Heavy Vehicles 7%
- 85% speed 85km/hr
- 100 Cyclists/day
- Bridge Width 7.3m
- 100km/hr



Option Selection



Option Selection

\$55,000 + GST / pair





Installation of loops



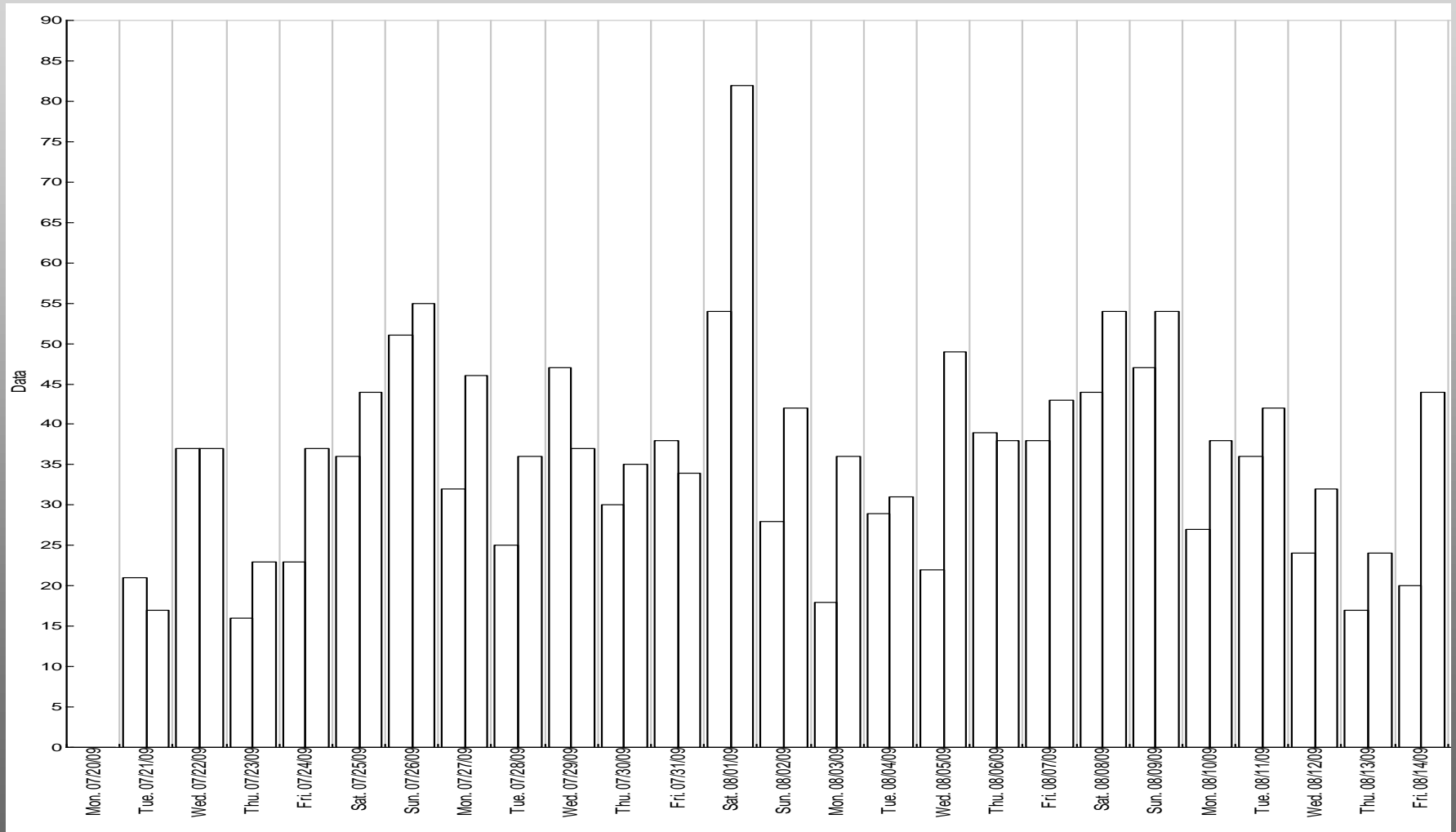
Testing loops for sensitivity

Signs in Action



Case Study 1: SH 60 - Appleby Bridge

Output from the Cycle Count Box



Electronic Curve Warning Signs



Case Study 2: SH 1 – Butter Factor Corner

- SH 1: ADDT 7000
- 70km/h
- Alabama Rd: ADDT 2000



SH 1 - southbound



SH 1 - northbound



**Vehicle entering from
Alabama Rd**

Electronic Sign Option

\$35,000 + GST / pair



Site identification:

Southbound



Northbound



Standby

- **No activation if vehicle is travelling at curve advisory**

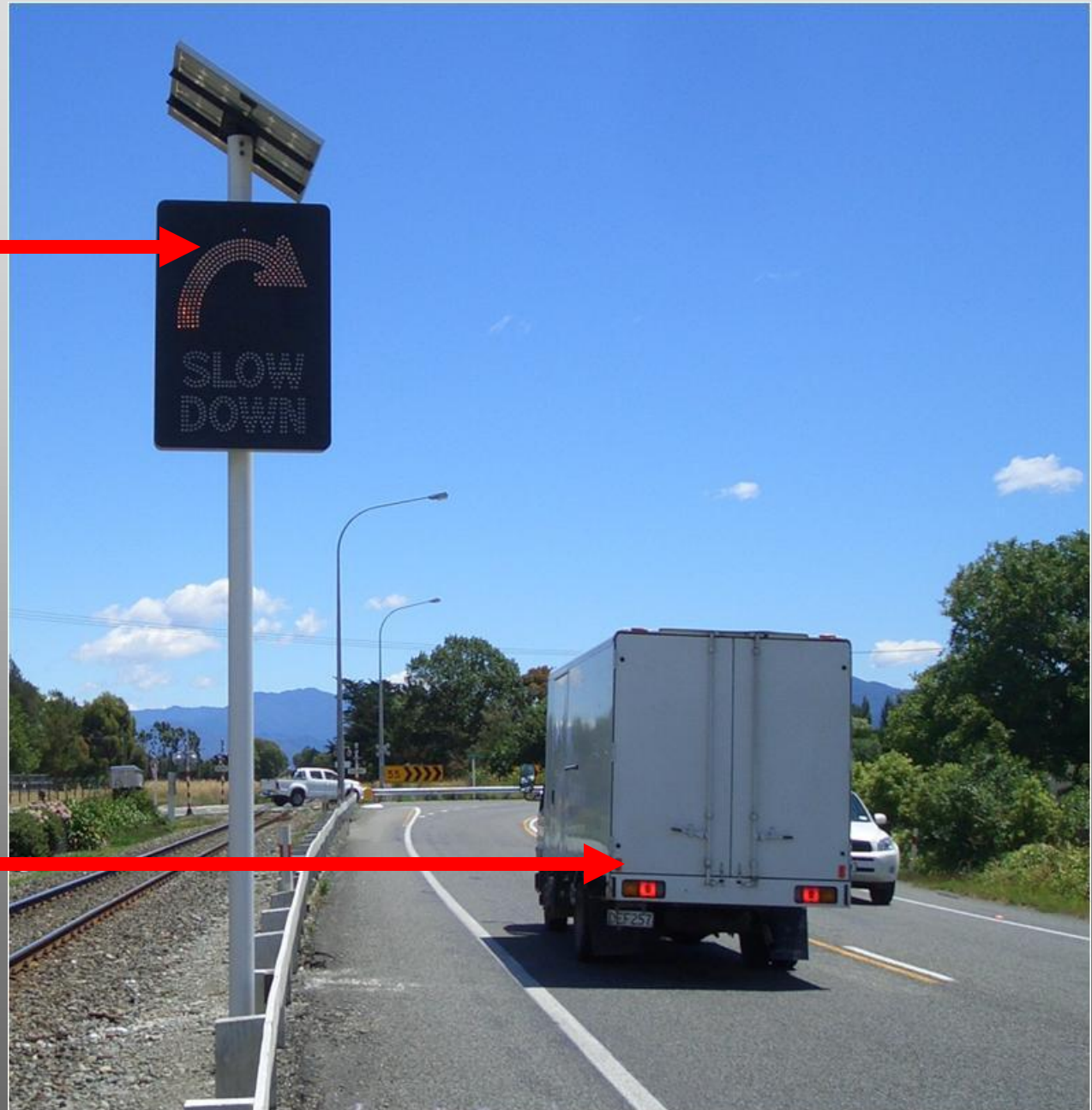


Lower Threshold

- Set at curve advisory



- **Lower threshold**



- **Vehicle braking**

Upper Threshold

- Settings variable



- Upper threshold activated



- Vehicle braking

Case Study 2: SH 1 – Butter Factor Corner

Our findings –

Pre-installation data:

- Tube counts – week long, hourly 85th% mean
Approach speeds: 85th% mean 64-73km/h

Post-installation data:

- Tube counts – week long, hourly 85th% mean
Approach speeds: 85th% mean 66-68km/h

Result – 5km/h drop in 85th% approach speeds

The Future



Any Questions

