



# Safe-T-Cam SA

Presented by

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The slide features the Government of South Australia logo on the bottom right, which includes a circular emblem with a map of Australia. To the right of the logo, the text reads "Government of South Australia" and "Department for Transport, Energy and Infrastructure". The slide has a dark blue background with a decorative horizontal bar at the top consisting of three lines in orange, green, and red, with a stylized "T-C" logo on the right.

## What is Safe-T-Cam?

- Safe-T-Cam is a system designed to monitor the operation of heavy vehicles whilst transiting across SA and NSW for fatigue management purposes.
- The system has two main sub systems;
  - Safe-T-Cam Client
  - TruckScan Client

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## What is Safe-T-Cam? Cont.

- Safe-T-Cam - consists of a series remotely operated fixed infrared camera sites strategically placed on arterial transport routes throughout SA, which are linked to a central server.
- TruckScan - is software that is used by inspectors at checking stations to manually enter inspection or intercept details of a vehicle and to view previous sightings.

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## Objectives.

- Change inappropriate driver and operator behaviour in relation to driving hours and fatigue management.
- Influence change in the way registered operators of heavy vehicles schedule and manage their fleets.

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## Objectives cont'd

- Improve traffic management by generating accurate information on heavy vehicle movements across SA.
- Prevent repeated violations of the traffic law with the ultimate aim of making SA roads safer for all drivers.



## Objectives cont'd

- Improve the efficiency of the TSA's compliance strategies through better use of its Safety Compliance Officers using intelligence led operational activities.



## Driving Hours, Speed & Fatigue

- Under the Road Traffic Act & Driving Hours Regulations, drivers of heavy vehicles are limited:
  - in the number of hours they are permitted to drive/work;
  - to a speed of 100 kilometres per hour;
  - and must have rest breaks.



## What does it do?

- Each time a vehicle passes through a Safe-T-Cam site, a photo is taken that also records the registration details, date, time, place and direction the vehicle was travelling in.
- The system then checks whether that vehicle has passed through any other site.



## Incident definitions

### Incidents

- There are two categories of travel time incidents:
  - **Speeding (exceed average travel time)**
  - **Fatigue**



## Key Differences

### Safe-T-Cam

- Safe-T-Cam consists of a series of fixed infrared camera sites placed on arterial transport routes throughout SA, which are linked to a central computer system.



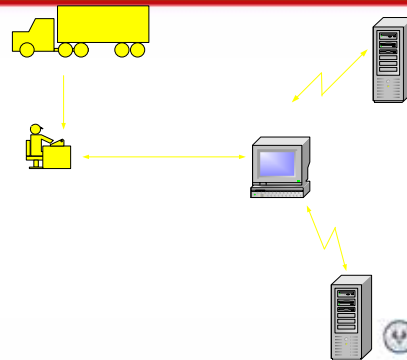
## Key Difference cont.

### TruckScan

- TruckScan is software that is used by inspectors at checking stations to manually enter inspection or intercept details of a vehicle and to view previous sightings.



## TruckScan Process



## System Technology

- The system uses real time proprietary imaging and capture technology.
- It scans the image for the vehicle's number plate, and conducts Optical Character Recognition (OCR) on the plate.
- It then queries DRIVERS and NEVDIS for information about the vehicle



## System Technology cont'd

- The system uses the registered details to determine the configuration of the vehicle i.e; heavy/light.
- The same vehicle is then monitored throughout the Safe-T-Cam network to determine if an incident has occurred.

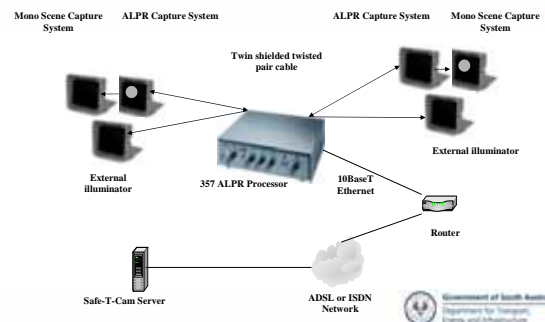


## System Technology cont'd

- The system operates 24 hours a day.
- Not affected by weather.
- Information shared in real time with NSW.
- Can capture vehicles travelling in both directions.
- Capture not dependant upon vehicle lights.



## TSA Camera Configuration







## Camera Controller

- Camera Controller
  - Monitors remote camera sites.
  - Periodically downloads and processes incident files.
  - Monitors any alarms.
  - Secure central database control.
  - Provides several levels of event logging.

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## What's on the horizon?

- Unregistered uninsured detection of all vehicles

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## Questions?

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