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

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.

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.
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.

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
Processing incidents

- The Matching Operator allows verification of incidents which have been generated Safe-T-Cam.
- The information presented to an operator allows them to determine whether an incident should be accepted as valid, rejected as invalid or has an incorrect number plate associated with it.
- Rejected Incidents are discarded.

Safe-T-Cam Locations in SA

1. Port Wakefield Road Globe Derby
2. Gawler Bypass
3. South East Freeway Crafers
4. Highway one Port Augusta
5. Sturt Hwy Yamba fruit inspection station
6. Pinaroo
7. Eyre Hwy Border village Fruit inspection station
8. Dukes Hwy Bordertown
9. Barrier Hwy Yunta
10. Stuart Hwy Marla
11. Dukes Hwy Keith
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.

What’s on the horizon?

- Unregistered uninsured detection of all vehicles

Questions?