



GUARDIAN



Why
Seeing
Machines?

The Driver Just has to Drive



Why Seeing Machines?

Assists with Distraction, Fatigue and Driver Welfare



FATIGUE

Restlessness, yawning, tunnel vision, drooping eyelids and micro sleeps.....



DISTRACTION

Driver not looking where they should due to distractions, cell phones, other vehicles etc....



Why Seeing Machines?

Wake the Driver up in Real Time



FATIGUE

A vibration motor mounted on the seat chassis buzzes the driver awake – it feels like a rumble strip



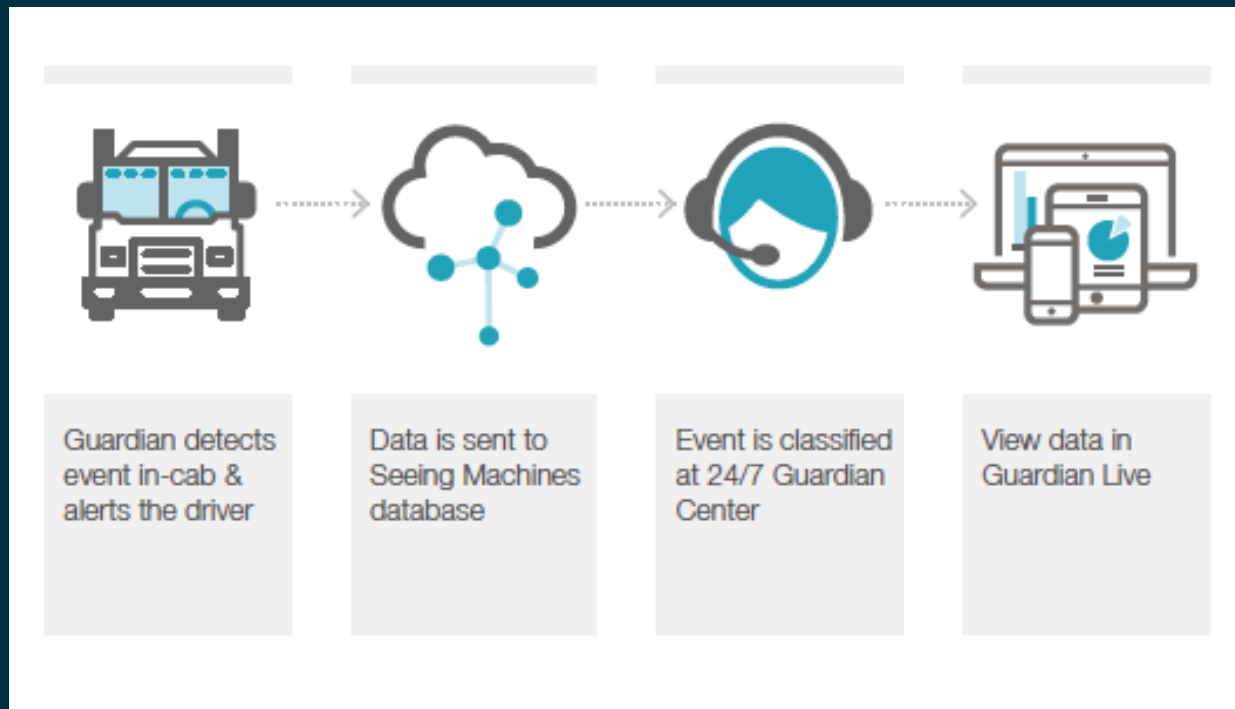
DISTRACTION

The on-dash sensor beeps at the driver to inform them that they are not paying attention to the road



Why Seeing Machines?

Guardian Data Centre Cleanses the Data





Date [\(Clear\)](#)

Event types

Event filter...

Type of event	Time of day	Shift / crew	Speed	Duration
Fatigue - microsleap	Thu 25/04/2019 9:47:04 AM+08:00 (5 days ago)	N/A	111 km/h	1.92s

Fatigue - microsleap

UX

001318 (4.3.0.129228)

Connect Source
Perth



TIME

Thu 25/04/2019 9:47:04 AM+08:00 (5 days ago)

LOCATION (GPS)

[36.2194 S, 140.6095 E](#)
Dukes Hwy, Cannawigara SA 5268, Australia

ACKNOWLEDGEMENT:

Not acknowledged

CONFIRMATION:

Verified
25/04/2019 9:50:20 AM+08:00
Christopher B.

ALARMS

Audio, Vibration

DURATION

1.92s

BEARING

124°

TRIP TIME (H.M.S)

02:12:03

TRAVEL

59 metres

AGE

5 days

SPEED

111 km/h

TRIP TRAVEL TIME

02:12:03

GPS COVERAGE

100%

TRACKING

90%

TRAVEL DISTANCE

225.49 km

STATIONARY TIME

00:00:00

• Attention off road - distracted driving	Tue 23/04/2019 5:23:58 AM+08:00 (7 days ago)	N/A	112 km/h	1.80s
Fatigue - microsleap	Wed 17/04/2019 9:45:21 AM+08:00 (13 days ago)	N/A	102 km/h	1.88s

10 items per page

1 - 3 of 3 items

Call Centre will Alert Owner of a Potential Issue

Fatigue

GUARDIAN

Microsleep

Arie Hilux

P04025-S00001318 (4.3.0.129228)

(CS) Connect Source

(UTC+08:00) Perth

Time: Thu 25 Apr 2019 09:47:04
Location: 36.2194 S, 140.6095 E

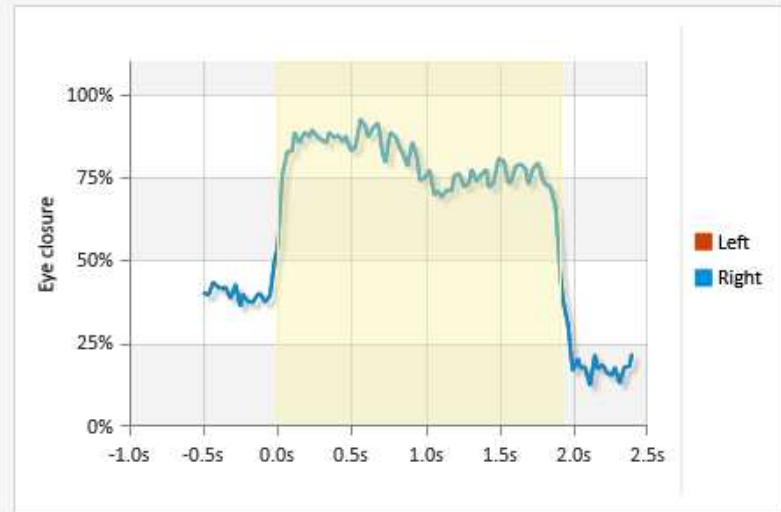
Shift / Crew: Not applicable
Bearing: 124°

Speed: 111 km/h
Trip time (h:m:s): 02:12:03

Duration: 1.92s
Trip distance: 225.49 km

Travel: 59 metres
Detection frame: 474415

Alarms: Audio, Vibration
Verified: Thu 25 Apr 2019 09:50:20 by Christopher B.



Eye closure chart

Timeline

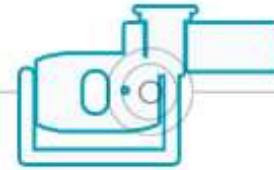
- 25/04/2019 9:47:04 AM Detect event Fatigue (1.92 seconds) detected in Arie Hilux at 25/04/2019 9:47:04 AM.
- 25/04/2019 9:48:14 AM Register event Registered fatigue (1.92 seconds), 1 min 10 secs after detection in Arie Hilux at 25/04/2019 9:47:04 AM.
- 25/04/2019 9:48:14 AM Process log Processed disk log 'P04025-S00001318_2019-04-24-23_35_01_00474415_00_275b9b68eacc70b9264d6dec6ba49ad0.eod' for fatigue (1.92 seconds) in Arie Hilux (1 min 10 secs after event detected).
- 25/04/2019 9:50:20 AM Confirm event Fatigue (1.92 seconds) in Arie Hilux confirmed by Christopher B.. Classified as microsleep.

Why Seeing Machines?

Call Centre will Alert Owner of a Potential Issue



Fatigued driver



Event detection



Alarm sounds and seat vibration



24/7 safeguard center

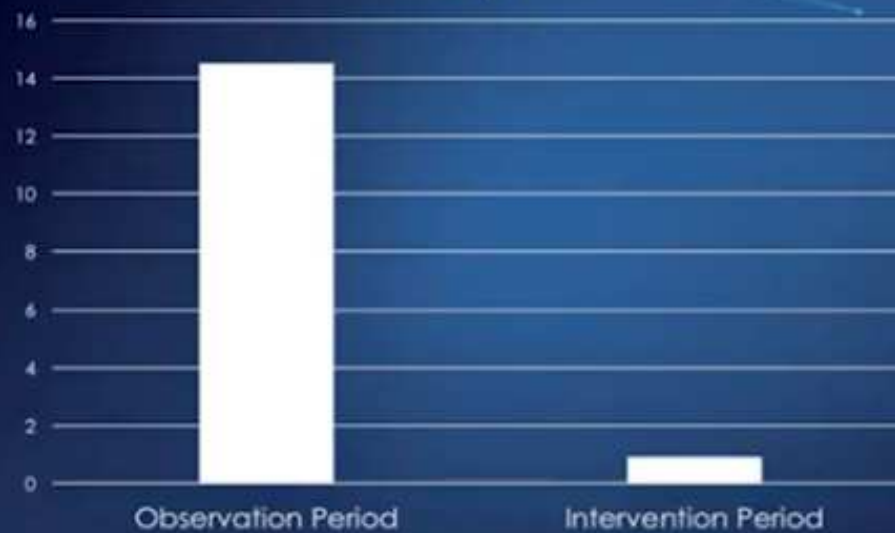


Fatigue intervention plan



Ongoing safety optimisation

Average No of Fatigue Events Per Day



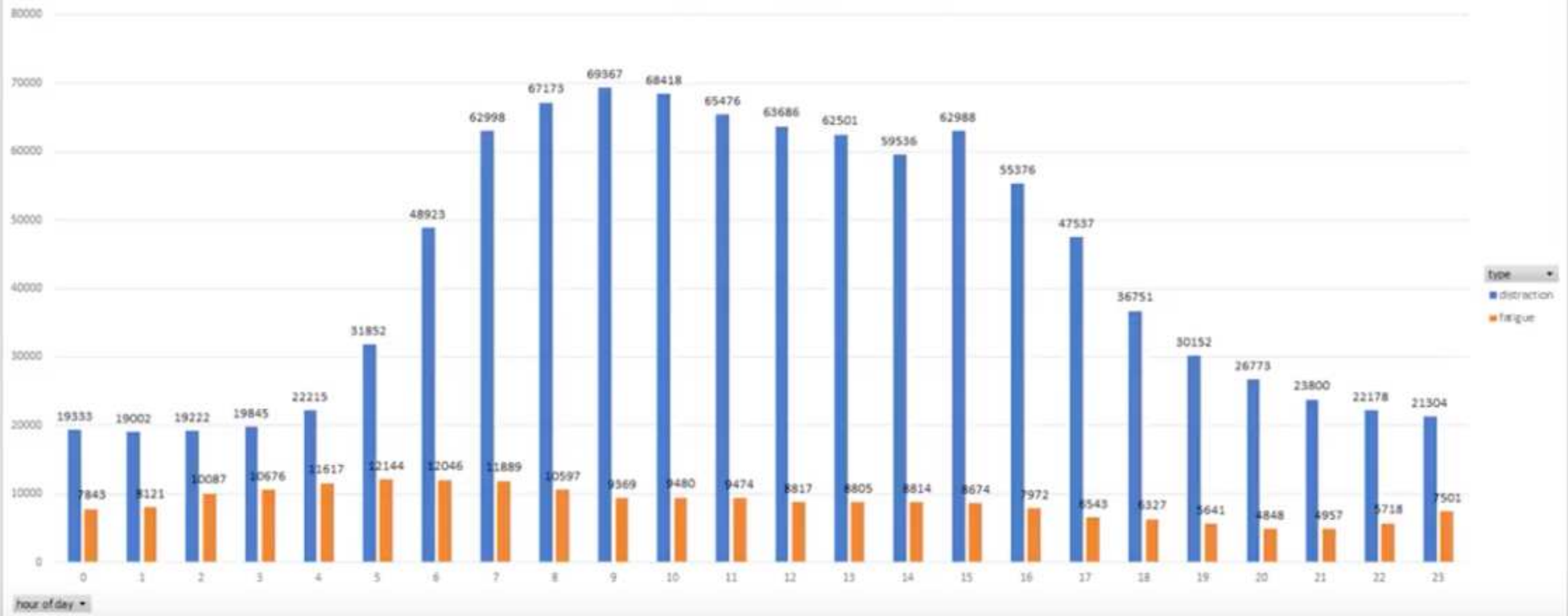
93.6%

Reduction in fatigue events

And then what?

Sum of event count

Confirmed Events (Fatigue/Distracted)



Guardian Demonstration



THANK YOU

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