

# Safety in Practice

the Wettenhalls journey

Mike Lean

8 May 2018



# What is safety?

- *Noun*. The condition of being protected from or unlikely to cause danger, risk, or injury.
- Key Points
  - *Protected from, or*
  - *Unlikely to cause*

**Danger, risk or injury**



# What is safety?

- But life is dangerous and can be risky.
- In the transport subset of the logistics industry, the participants generally tend to have a much greater exposure to risk as their workplace (the drivers) means that they are out on their own in an environment that the company (and they) cannot control, unlike a manufacturing plant for example.
- So how do you improve safety outcomes for the drivers?



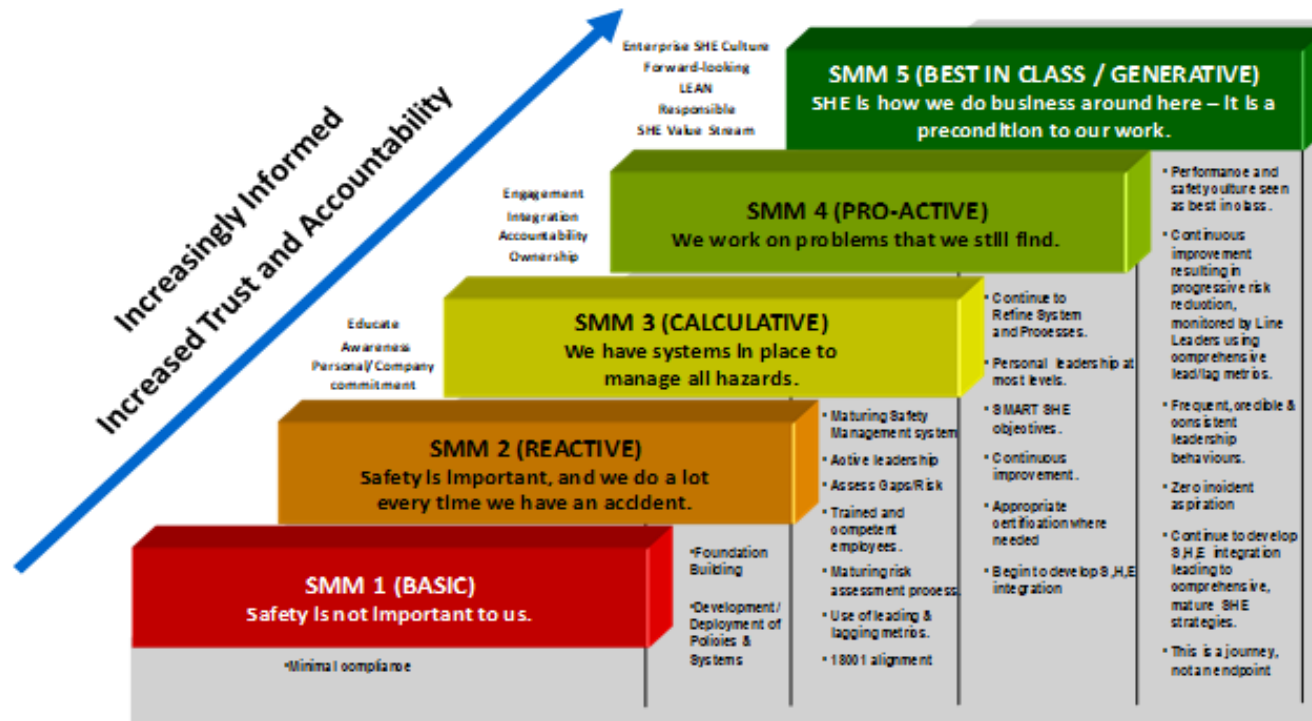
# Our Journey

- The Company has always been committed to strong safety outcomes and in 2015 we set about integrating our safety approach into the DNA of the organisation.
- We assessed our safety performance and made a number of key decisions to help drive the necessary changes to progress our initiative to become an exemplar safety organisation.
- Key business priority
  - “To improve the driver safety environment”



# Our Journey

- **Key Initiatives:**
  - A structured Safety Health Management System



Note: Bullet points are cumulative



# Our Journey

- **Key Initiatives:**
  - Safety a prime consideration for any equipment purchase
  - A commitment that wherever we could find technology to support the drivers in their task we would investigate and utilise where possible
  - Digitising the business to collect and analyse the data for customers and ourselves



# Our Journey



- **Key Initiatives:**
  - Upgrade to a digital hub within the vehicle to support the Company’s safety, communication and IT strategy
  - Implement a training system to allow driver distributed learning including in-cabin training
  - Train driving staff in the use of the Risk Management

## “Take 5” process

- Sticker on vehicle windshields





# Our Journey

- **Training**
  - Purchase of vehicle driving simulator



## Technology

Getting busy in the cabin!!!  
Supporting and training the  
drivers is crucial



# Our Journey

- **Key Initiatives:** Standard Prime Mover Spec
  - Safety is now the Number One determinant for the purchase of a vehicle / trailer. It is an active discriminator and we aren't interested in systems that are overly optioned, it needs to come standard
    - ABS, EBS, ESC, Active cruise control, Driver Comfort
  - “Man Down” pendants for drivers in remote / unattended sites (worked with customer to achieve). Integrated with telematics solution



# Our Journey

- **Key Initiatives:**
  - Installation of Guardian Driver Safety System across the fleet
  - Have now been using the system for over 2 years and we consider it to be an ***essential*** aid to driver safety
  - I wouldn't operate a fleet without this type of system



# Our Journey

- From March 24, 2016 to May 1, 2016, we monitored 8 vehicles in our fleet to detect baseline levels of dangerous driving. Alarms were fitted to the trucks, but not activated. The following events were detected.
- Across the sample of the drivers, there were:
  - –59 fatigue events: driving with eyes closed for 1.5 seconds or longer. One event was at 98km, eyes closed for 10.5 seconds and travelled 287metres. **WITH HIS EYES SHUT!!!**
  - –330 Perceived Risk events: An event where the driver has closed their eyes for a reason other than fatigue such as yawning.
  - –63 Distraction events: driving while looking away from the road for 4 seconds or longer.



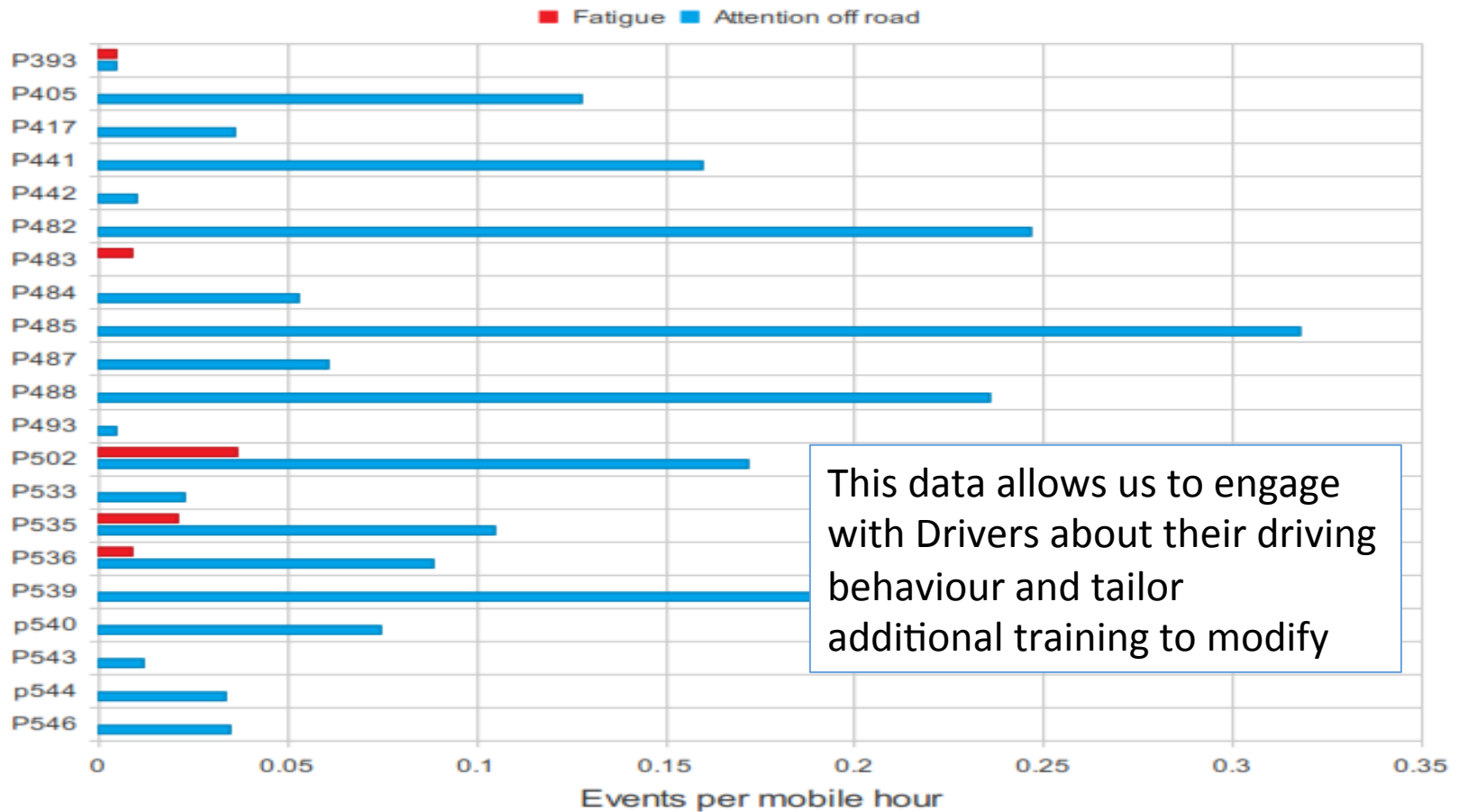
# Our Journey

Statistics	Phase 1 (39 days)	Phase 2 (28 days)
Total Fatigue Events	59	6
Perceived Risk Events	330	116
Average Fatigue Events Per Day	1.5	.21
Fatigue events on nightshift (6pm to 6am)	37 (63% of total events)	4 (67% of total events)
Distance travelled while fatigued	4,572 metres	306 metres
Distance per Fatigue	77.5 metres	51 metres
Mobile Hours	1,927.4	3,129
Frequency of Events (hours to event ratio)	33:1	522:1



# Our Journey

Event performance by vehicle



This data allows us to engage with Drivers about their driving behaviour and tailor additional training to modify



# Our Journey



Are there patterns of fatigue that can be the subject of an intervention program?

We have actually found that fatigue events will be seen in clusters relating to time rather than location.

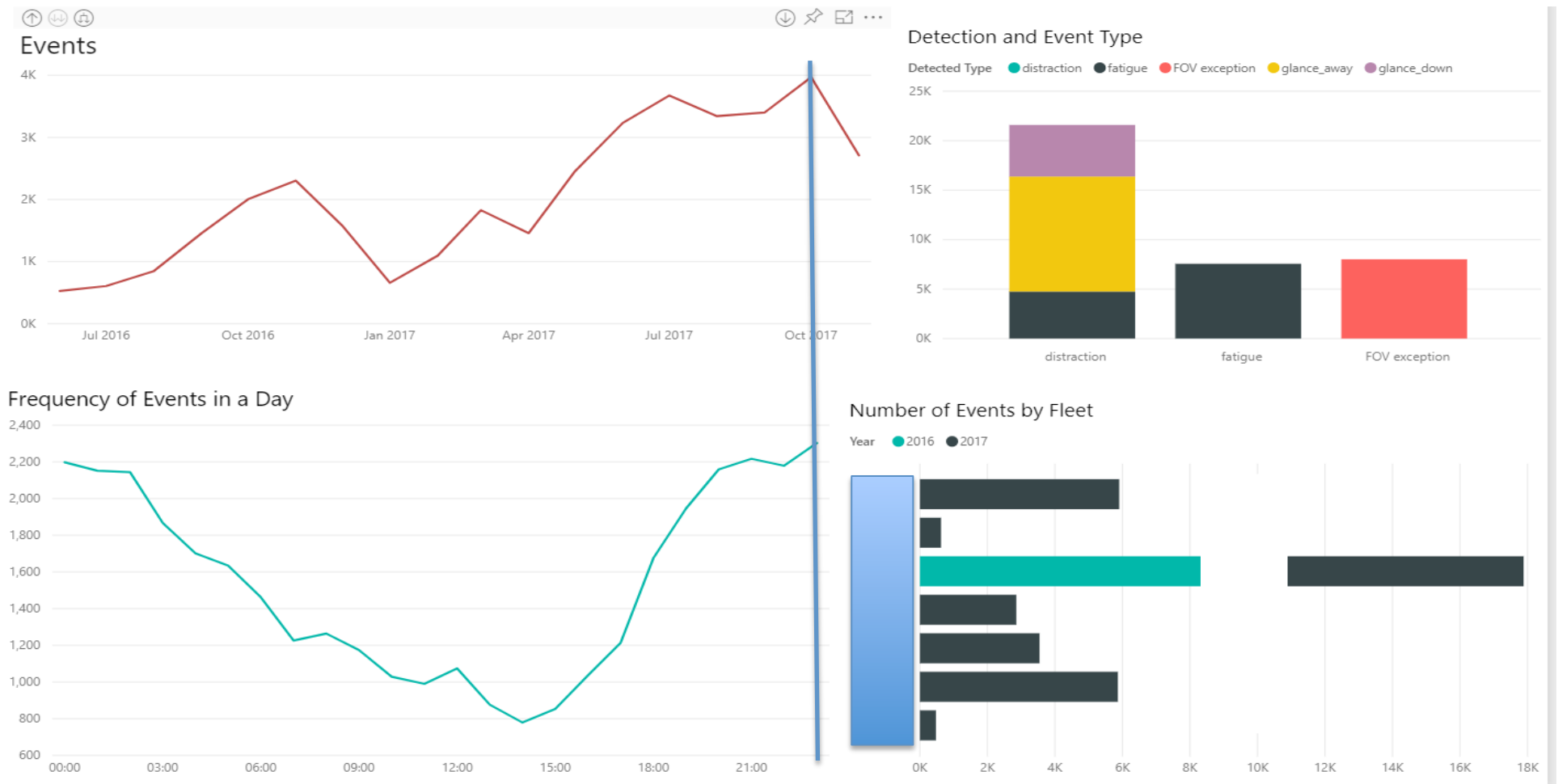
Environmental factors are driving distraction.





# Our Journey

- Use the data to intervene and improve your safety outcomes. We wouldn't have been able to quantify the risk without this data. I know for sure it has prevented 8 major accidents to date



Thank You

