National Heavy Vehicle Regulator

Our Journey to a National Approach

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Chief Executive Officer

Our purpose

> “To enable safe and efficient heavy vehicle movements for the benefit of all.”

Becoming a national regulator

- Working closely with states and territories to transition delivery of frontline heavy vehicle regulatory services.
- Achieving the NHVR's mandate to be the single, national regulator for heavy vehicles in Australia.
- Transition program commenced in 2016, with the first phase beginning in South Australia.
- Planned for completion early 2024, with transition of services in Queensland.

Inform, educate and enforce

- We seek to influence safety in the industry by identifying high risk, unsafe behaviours and deterring non-compliance.
- We do this by informing, educating, monitoring and enforcing the Heavy Vehicle National Law (HVNL).
- At the NHVR, a strong focus is placed on educating heavy vehicle drivers and operators.
- Fatigue is one of the leading factors that affects safety and heavy vehicle crashes. We ensure to dedicate time to educating industry on fatigue management and requirements.

Leading the way with data science

- We have matured our data capabilities by building several algorithm engines and risk profiles.
- Algorithm engines identify mechanical, fatigue, access, mass, and crash risks.
- They establish profiles of high-risk operators, vehicles, drivers, the supply chain and infrastructure.
- Our latest crash engine tool incorporates multiple data sources to make predictions on a heavy vehicle crash risk.

Risk assessment and management

Operators

Vehicles

Drivers
(Paused)

Supply Chain

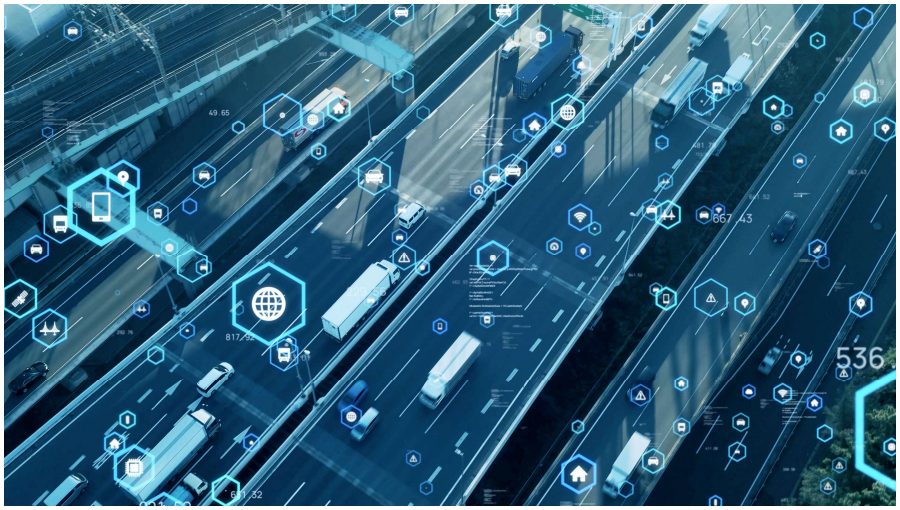
Infrastructure

Early Warning Systems and Predictive Analytics

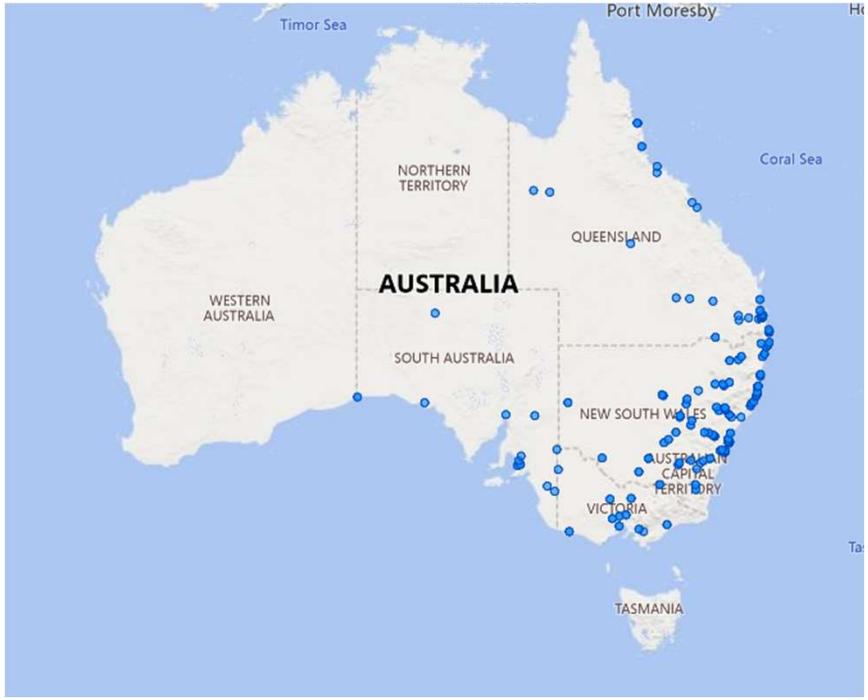
- Early Warning Systems (EWS) are designed to detect and signal the emergence of potential risks or adverse events at an early stage.
- By analysing the data and applying predefined algorithms or thresholds, EWS can generate alerts or notifications to notify relevant stakeholders.
- Predictive Analytics involves the use of statistical modeling, machine learning algorithms, and historical data to forecast future outcomes or behaviors.
- By analysing patterns and relationships within the data, predictive analytics aims to predict the likelihood of specific events or risks occurring.

What are the benefits?

- Proactive Risk Management
- Timely Decision-Making
- Resource Optimisation
- Improved Efficiency
- Evidence-Based Decision-Making



Sightings camera network



Existing NSCN locations

Fixed ANPR Camera Network

- The National Safety Camera Network (NSCN) comprises 221 fixed camera locations
- Provides a rich data source that allows for high-risk journey identification
- Insights into heavy vehicle journeys
- Complimentary to NHVR mobile camera assets

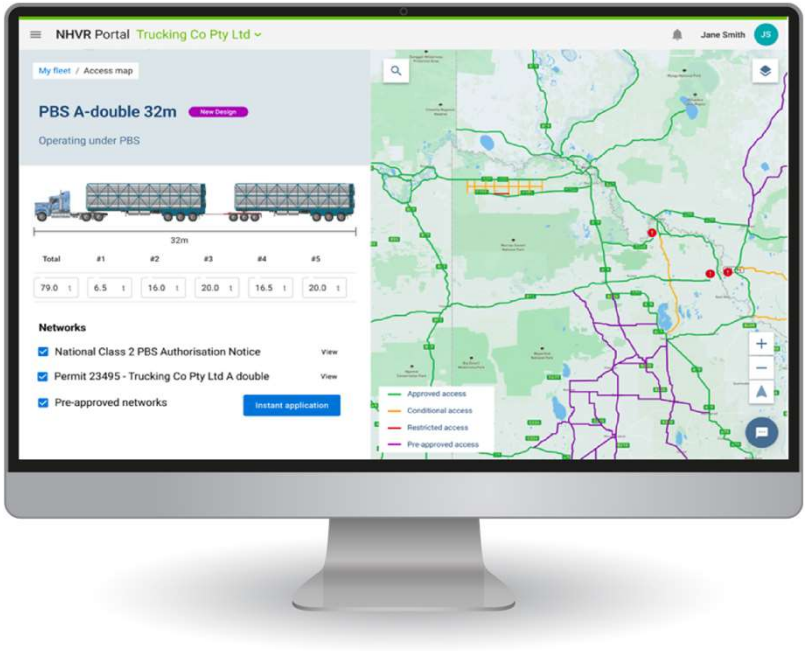
Mobile ANPR Camera Trial

- NHVR analysis identified a potential gap was a lack of visibility of vehicle movements and an inability to target intercepts of high-risk heavy vehicles based on available camera data
- To reduce this gap, the NHVR sought funding from the Heavy Vehicle Safety Initiative (HVSI) to conduct a trial of mobile cameras to determine their effectiveness in identifying and addressing safety risks

The future of compliance as a modern regulator

- Our Regulatory Compliance Mobility Solution (RCMS), is our proprietary, cloud-based mobile application used by our Safety and Compliance Officers (SCOs).
- SCOs have access to driver and vehicle information, can target high-risk offenders, administer digital notices, and send intelligence data back to the database.
- SCOs can obtain information like mass and dimension, loading, fatigue, vehicle standards, roads and traffic, permits and performance-based standards.
- By using RCMS, our officers are saving approximately 15 minutes per intercept.

Delivering services online



- The portal is our digital platform that transforms the way we deliver our services.
- It is the heavy vehicle business centre.
- The aim of the portal is to improve accuracy, consistency and timeliness of route planning for industry.
- Currently in the process of transitioning heavy vehicle network maps from all HVNL states & territories to the portal.
- Heavy vehicle industry will have one designated place, encompassing all information needed to plan routes for their entire fleet.

Spreading the message of road safety

- 'We ALL Need Space' provides simple tips for road users, on how to share Australian roads safely with trucks.
- The campaign features the faces of celebrities – so far we have welcomed popular comedian Jimmy Rees, WA truck driver Glenn 'Yogi' Kendall, country music star James Blundell and SA truck driver Casuarina Smith.
- Don't #uck With A Truck targets our youngest road users, to raise awareness of the risks of driving around trucks.
- The campaign attempts to close in on a knowledge gap within this age cohort and develop positive long-term behaviours.

Thank you

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