






AI-Enabled Regulatory Safety Intelligence Platform for the Australian Heavy Vehicle Sector



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**Got a Question
Find the answer!**

PROJECT OVERVIEW

ANSA (Australian National Safety Assistant) is an AI-enabled digital platform designed to provide heavy vehicle drivers and fleet managers with reliable, structured and accessible regulatory guidance in real time.

Heavy vehicle drivers currently rely on fragmented and often complex sources of information. This includes legislation, regulation, government portals, safety manuals and various standalone applications. Most of these sources are not designed for rapid operational use. They often require interpretation of dense regulatory text. This can create risk and uncertainty in time-critical environments.

ANSA addresses this challenge by delivering structured, context-aware responses to heavy vehicle regulatory queries. All within clearly defined safety guardrails. It integrates deterministic legislative mapping with controlled AI architecture to make sure responses

are accurate, traceable and align with Australian heavy vehicle legislation.

This project will expand ANSA's current working prototype towards regulatory-grade reliability through technical redevelopment and a large Pilot Program.

ANSA has been developed by Stu Gluyas, CEO of Shift Training Pty Ltd, a heavy vehicle transport leader. Stu is a previous HVSI grant recipient - for the successful "4 Points of Contact" safety initiative.



WATCH A SHORT DEMO BY **CLICKING HERE**
ansa.net.au/demo



GENUINE INDUSTRY NEED

Heavy vehicle drivers need reliable information fast.

They require quickly - without having to navigate volumes of complex text that can be hard to interpret in operational settings.

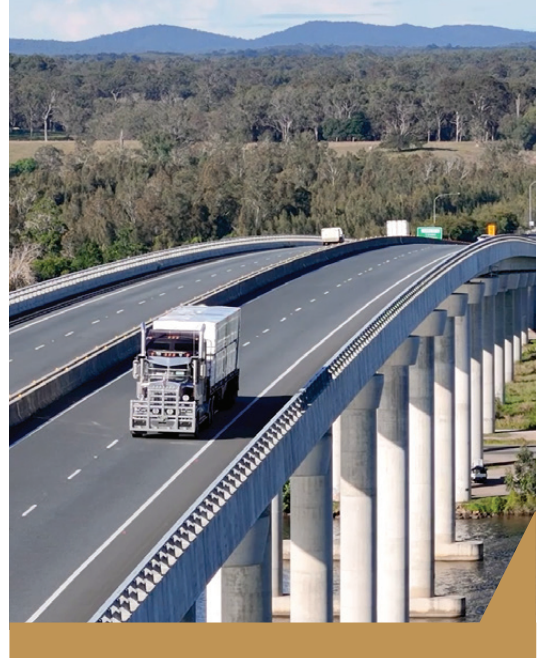
As an added challenge, the sector has a large multicultural workforce. Drivers who have English as a second language (ESL) can often experience additional barriers when interpreting formal language.

Of course, this can lead to critical misunderstandings and non-compliance.

ANSA is designed to:

- Translate structured legislative content into plain-language explanations;
- Embed refusal logic for ambiguous or unsafe queries;
- Provide consistent, traceable responses;

- Improve clarity for ESL participants; and
- Support safer decision-making at the point of need.



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LOOK NO FURTHER

Got a Question Find the answer!

What is a safe parking area in relation to a class 1 heavy vehicle

Search

Your Question
What is a safe parking area in relation to a class 1 heavy vehicle

Plain English Answer
A safe parking area for a class 1 heavy vehicle is a place where the vehicle can be parked legally and safely. It should be a spot where the vehicle does not pose a risk to others. The driver must park there if visibility is too low to drive safely. This helps prevent accidents in bad weather. [Translate](#)

Translation (Hindi)
कक्षा 1 के भारी वाहन के लिए एक सुरक्षित पार्किंग क्षेत्र वह स्थान है जहाँ वाहन को कानूनी और सुरक्षित रूप से पार्क किया जा सकता है। यह ऐसा स्थान होना चाहिए जहाँ वाहन दूसरों के लिए खतरा न बने। अगर दृश्यता इतनी कम है कि सुरक्षित रूप से गाड़ी चलाना संभव नहीं है, तो चालक को वहाँ पार्क करना चाहिए। यह खराब मौसम में दुर्घटनाओं को रोकने में मदद करता है।

Detailed Answer
Under Queensland regulations, a safe parking area for a class 1 heavy vehicle is defined as a location where such vehicles can be parked both lawfully and safely. This is particularly important when visibility is reduced due to conditions like fog, heavy rain, or dust, making it unsafe to continue driving. In such cases, the driver must find the nearest safe parking area and wait until visibility improves. This ensures that the vehicle does not pose a risk to other road users or the environment. The definition emphasizes the importance of safety and legality in choosing a parking spot. It is crucial for preventing accidents and ensuring road safety during adverse weather conditions.

PROJECT READINESS

ANSA has progressed beyond concept stage through significant founder-led investment.

Over the past eight months:

- 480 hours of development has been undertaken in areas such as legislative research, governance design and AI systems;
- In-kind contributions of approximately \$72,000 have been made;
- A working prototype environment has been developed and fine-tuned;
- Legislative framework has been mapped in a structured way;
- Safety refusal logic architecture has been designed; and
- Extensive consultation has been held with the industry.

This prior investment significantly reduces project risk and demonstrates a genuine commitment to delivery.



The screenshot displays the ANSA website's search interface. At the top, there is a navigation menu with links for Videos, Resources, Safety, Test your knowledge, About, and Contact. The main content area features the ANSA logo with the tagline "LOOK NO FURTHER" and a large heading "Got a Question Find the answer!". Below this is a search input field containing the text "how much rear overhang can you have on a truck" and a "Search" button. The search results are displayed below the input field, including a "Your Question" section with the same text, a "Plain English Answer" section explaining the 60% rule, and a "Detailed Answer" section providing more specific regulatory information. At the bottom, there is a "Primary sources referenced:" section with several links to relevant regulations and manuals.

PROJECT SCOPE

The proposed HVSI-supported project will:

- Rebuild the Ai architecture towards regulatory-grade reliability;
 - Embed appropriate guardrails, Ai safety boundaries and refusal logic controls to boost accuracy;
 - Assist in the development of ANSA to current and emerging Ai capabilities;
 - Implement deterministic legislative corpus structuring;
 - Integrate “real world” structured safety calculators and compliance tools;
 - Conduct stringent stress-testing and validation; and
- Deploy a wide-scale Pilot Program to further boost reliability and “real-world effectiveness” by encouraging extensive user feedback.



The first year will operate as a structured pilot (with a target of 1,000–1,500 participants). This will be followed by a controlled expansion in Year Two.

The screenshot shows the ANSA website interface. At the top, there is a navigation bar with links for Videos, Resources, Safety, Test your knowledge, About, and Contact. The main content area features the ANSA logo with the tagline "LOOK NO FURTHER" and the heading "Got a Question Find the answer!". Below this is a search bar with the text "What if I ask for something you don't know" and a "Search" button. The results section shows "Your Question" and "Plain English Answer" (No definitive legislative match has been identified). Below that is the "Detailed Answer" (No definitive legislative match has been identified). At the bottom, there are "Primary sources referenced" with links to legislative documents: Heavy Vehicle National Law Act 2012 (p.402), Heavy Vehicle National Law Act 2012 (p.394), Transport Operations (Road Use Management-Vehicle Standards and Safety) Regulation 2021 (p.78), Transport Operations (Road Use Management-Vehicle Standards and Safety) Regulation 2021 (p.78), and Heavy Vehicle National Law Act 2012 (p.239).

BROADER INDUSTRY IMPACT

ANSA will:

- Provide fleet managers with a structured compliance tool supporting Chain of Responsibility obligations;
- Generate anonymised analytics to identify emerging regulatory confusion trends;
- Support targeted education and risk mitigation initiatives; and
- Improve regulatory understanding across a diverse workforce.

While initially focused on heavy vehicle regulation and road safety, ANSA's scalable architecture allows for the future integration of additional features. These could include compliance utilities, permit management tools and structured learning modules.



The screenshot shows the ANSA website's 'Stopping Distance Calculator' tool. The interface is dark-themed with orange accents. At the top, the ANSA logo is on the left, and navigation links for 'Videos', 'Resources', 'Safety', 'Test your knowledge', and 'About' are on the right. The main content area is divided into several sections:

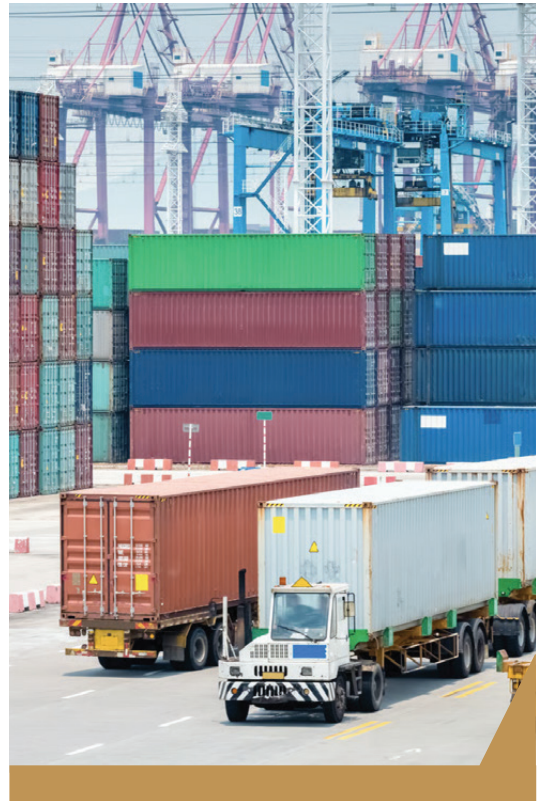
- Stopping Distance Calculator:** A header section with a truck icon and a brief description: 'Calculate total stopping distance based on speed, road conditions, reaction time, and vehicle type. See how speed affects safety.'
- Vehicle & Speed:** A section with a speed slider set to 60 km/h and a dropdown menu for 'Vehicle Type' set to 'Car (brake efficiency: 100%)'.
- Conditions:** A section with a dropdown for 'Road Condition' set to 'Dry bitumen (friction: 0.8)' and a reaction time slider set to 1.5 seconds. A note below states: 'Average reaction time is 1.5 seconds. Fatigued or distracted drivers may have 2.5+ seconds.'
- Results:** A section titled 'Results' showing a 'Stopping Distance Breakdown' bar chart. The bar is divided into a blue segment for 'Reaction distance' (25.0m) and a red segment for 'Braking distance' (17.7m). Below the bar, three boxes display the values: 'Reaction Distance 25.0 m', 'Braking Distance 17.7 m', and 'Total Stopping Distance 42.7 m'. A note at the bottom states: 'That's about 9.5 car lengths (1 car length = 4.5 metres)'.

ALIGNMENT WITH HVSI OBJECTIVES

ANSA directly supports HVSI priorities by:

- Leveraging innovation to improve heavy vehicle safety;
- Improving regulatory comprehension at the driver level;
- Supporting multicultural workforce inclusion while boosting road safety;
- Delivering measurable behavioural and knowledge outcomes; and
- Providing structured, evidence-based safety insights.

ANSA is positioned not only as an information tool. It's designed from the ground up to generate demonstrable improvements in regulatory compliance, understanding and improved industry safety.



Document Library

22 PDFs 342 Questions

Recent Documents

- Load Restraint Guide 2025.pdf
292 pages
- Transport Operations (Road Use Ma...
430 pages
- Heavy Vehicle National Law Act 201...
712 pages

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Document Name	Pages	File Size	Upload Date	Status	View	Ask	Delete
Load Restraint Guide 2025.pdf	292 pages	45.30 MB	Uploaded 2/13/2026	Active	View	Ask	Delete
Transport Operations (Road Use Management—Road Rules) Regulation 2009.pdf	430 pages	14.93 MB	Uploaded 2/13/2026	Active	View	Ask	Delete
Heavy Vehicle National Law Act 2012.pdf	712 pages	4.52 MB	Uploaded 2/13/2026	Active	View	Ask	Delete
Transport Operations (Road Use Management—Vehicle Standards and Safety) Regulation 2021.pdf	194 pages	3.03 MB	Uploaded 2/13/2026	Active	View	Ask	Delete
Transport Operations (Road Use Management—Driver Licensing) Regulation 2021.pdf	380 pages	2.74 MB	Uploaded 2/13/2026	Active	View	Ask	Delete
Transport Operations (Road Use Management—Dangerous Goods) Regulation 2018.pdf	184 pages	1.42 MB	Uploaded 2/13/2026	Active	View	Ask	Delete

INDUSTRY SUPPORT FOR ANSA

ANSA has evolved as a result of decades of engagement with workers, trainers and managers in the heavy vehicle sector.

This ongoing relationship has helped produced a powerful but practical tool that simplifies compliance, strengthens safety, and directly supports Chain of Responsibility obligations.

ANSA's overarching aim is to help fleet managers, drivers and operators manage their responsibilities more effectively - including fatigue, risk, compliance and safety.

It's a practical, and much-needed way, to boost compliance at a time when Australia is struggling with supply chain issues in the heavy vehicle transport sector.



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As a transport operator, we understand how difficult it can be for drivers to quickly find clear answers to questions about heavy vehicle rules and safety requirements.

After reviewing the ANSA concept and demonstration, we believe the platform has the potential to be a valuable tool for drivers and fleet managers.

If the ANSA project proceeds to a pilot stage, we would be interested in supporting the initiative and would make the platform available to our drivers as a reference tool to help reinforce safety awareness within our operations.

**Tony Stemm
Simmons Logistics**

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I have been involved in the transport industry for over 35 years as both a truck driver and driver trainer. One thing that has always been difficult for drivers, especially new drivers, is understanding the different rules and regulations that apply to heavy vehicles.

After seeing what ANSA is trying to do, I believe it has the potential to make a real difference in the industry.

Having a tool that allows drivers to quickly look up information about regulations, safety requirements and compliance responsibilities could be very good.

I support the development of ANSA.

**Michael Spurrier
Heavy Vehicle Driver and Driver Trainer**



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