

The National Heavy Vehicle Regulator



877,651km

of roads



275,021 registered operators



Our vision is to have a safe, efficient and productive heavy vehicle industry serving the needs of Australia.



556,000+

FTEs employed in Australian road transport industry



1,060,525

registered heavy vehicle units



536 road managers



Australian road freight challenges





77%

road freight task growth over 30 years



242b tkm

of heavy vehicle travel across Australia's road network in FY23



59

Natural disasters in 2023

lives lost in 2023 from crashes involving heavy vehicles

212

38%

of total transport emissions are from heavy vehicles

Freight task modeshare









14.51% 0.04%

2020 29.03% 2050 40.92% 11.89% Change

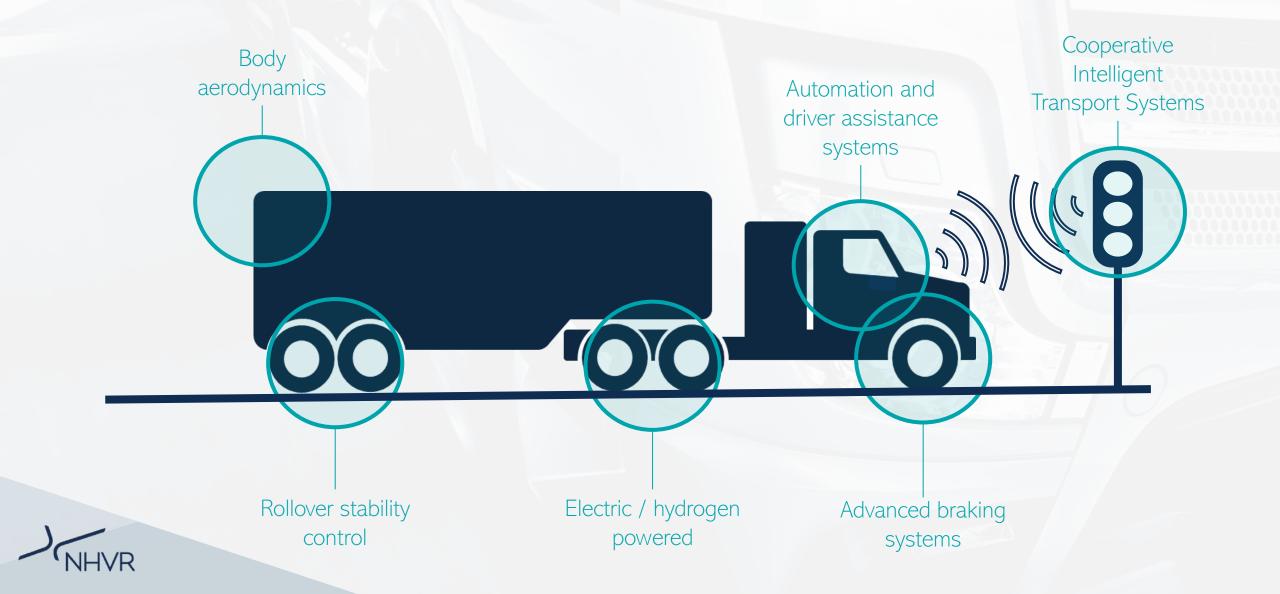
56.41%

47.58% 11.44% -8.84% -3.06%

0.06%

0.02%

A heavy vehicle is not just a platform for technology

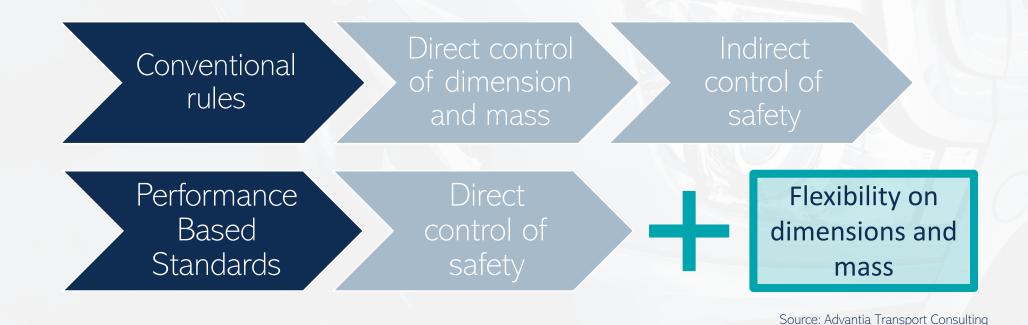


A heavy vehicle is not just a platform for technology — it is technology



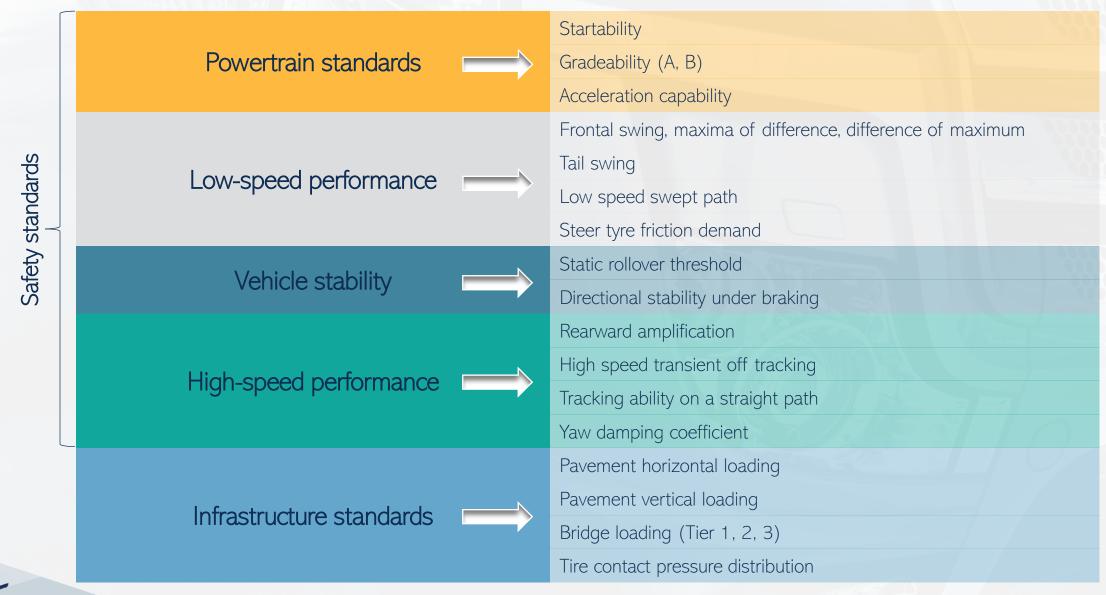


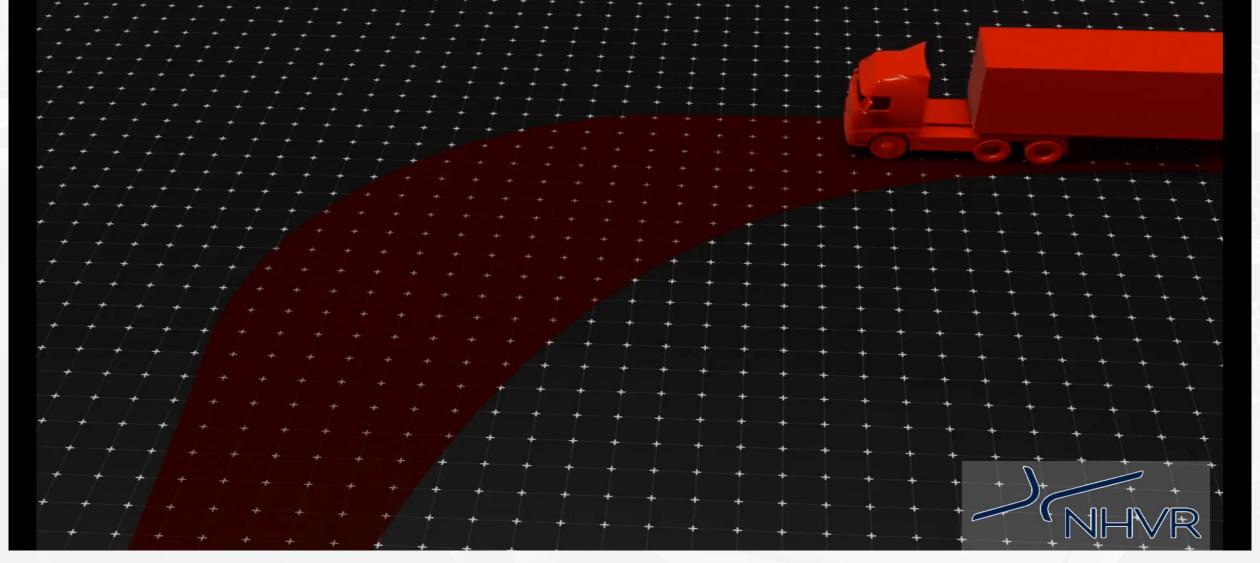
The Performance Based Standards (PBS) scheme optimises vehicle designs to boost productivity and safety, while minimising environmental and road infrastructure impacts





Standards to evaluate vehicle performance





Low speed swept path demonstration

The PBS Scheme changes how we view trucks

– not by size or weight –

but by their on-road performance



PBS A-double benefits compared to a conventional B-double over a million-tonne kilometer freight task



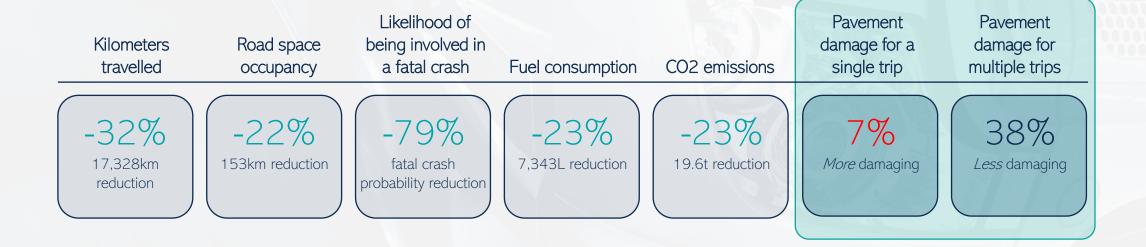
Vs

26m Conventional B-Double (General Mass Limits)

62.5t Gross combination mass 37.28t Payload

30m PBS A-Double (Higher Mass Limits)

85t Gross combination mass 55.07t Payload

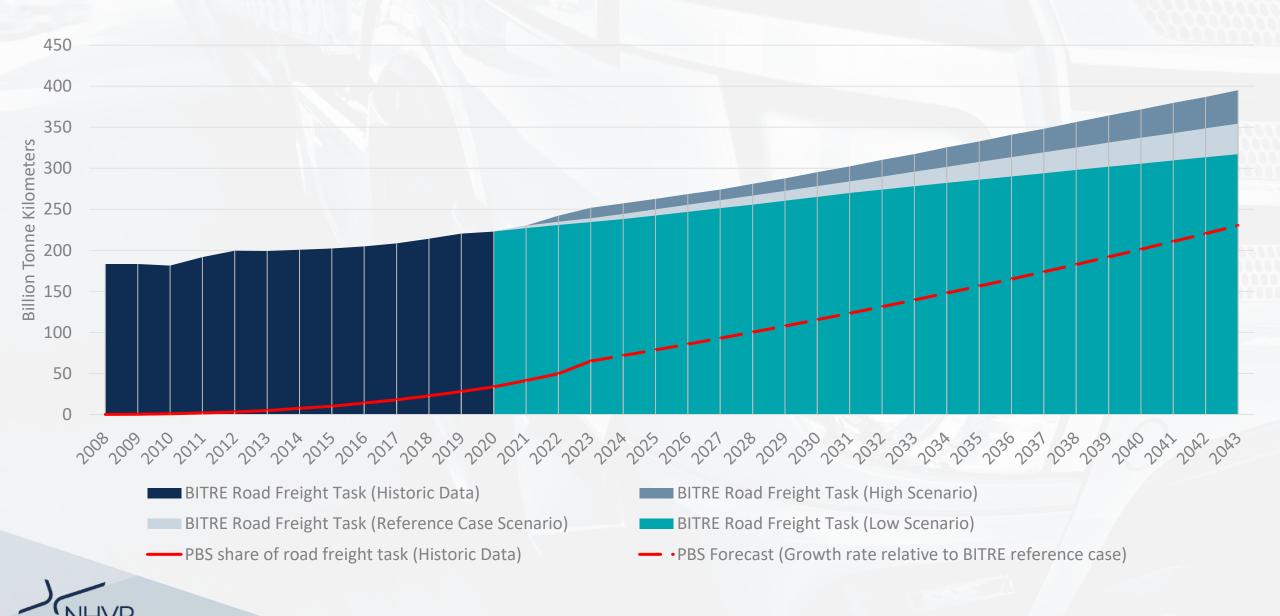


NHVR's <u>Freight PASS</u> tool compares the relative impacts of different vehicle combinations across 14 productivity, safety, and sustainability measures

NHVR's <u>Pavement Impact Comparison Calculator</u> compares the pavement wear and cost impacts of different vehicle combinations and mass distributions



PBS popularity in Australia's road freight task



PBS projected benefits: 2008 - 2043



28,000 - 34,000

trucks displaced from roads



45 - 49b km

Reduction in truck distance travelled



53 - 57mt

Reduction in CO₂ emissions







\$194 - \$195m 1,800 - 1,900

Saved in air and noise pollution costs

Lives saved

19 - 21b L

Reduction in fuel consumption

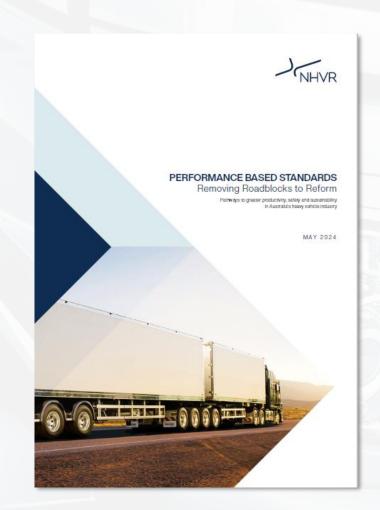
\$9 - \$10b

Economic costs avoided by preventing over 11,700 crashes



Where to from here?

- Advocating for law changes to allow for mature and proven PBS vehicles to transition into the everyday fleet
- Work with road managers to eliminate access permit requirements
- Administrative and operational process improvements
- Updating the performance standards
- Increase understanding and acceptance





DRAFT HEAVY VEHICLE PRODUCTIVITY PLAN

2024-2029

Delivering safe, productive, and sustainable heavy vehicle movements that enhance community liveability, drive Australia's economy, and support a resilient supply chair

August 2







Thank you

For more information:

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