

Performance Based Standards

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NHVR

ARTSA – Global Leaders Summit

Les Bruzsa 8 May 2018 | Melbourne

PBS History

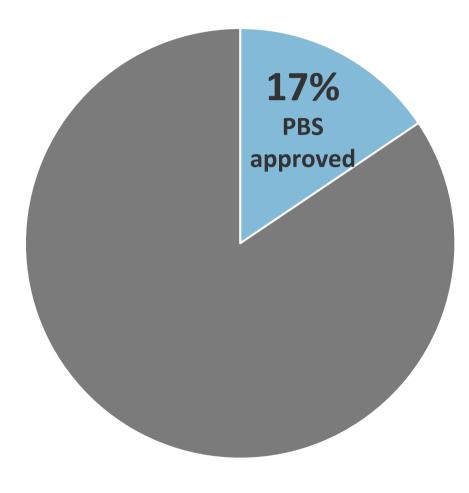
- An alternative, performance driven approach to prescriptive regulation, developed by NTC/Austroads
- 4 infrastructure and 16 safety standards, including stability and swept path, pavement and bridge impacts
- Scheme introduced in 2007, incorporated into the Heavy Vehicle National Law (HVNL) in 2014
- Managed by NHVR since 2013
- Matching the right vehicles to the right roads, vehicle performance determines access level (PBS Level 1-4)
- PBS vehicles are designed under a more rigorous system than prescriptive vehicles



PBS Combinations

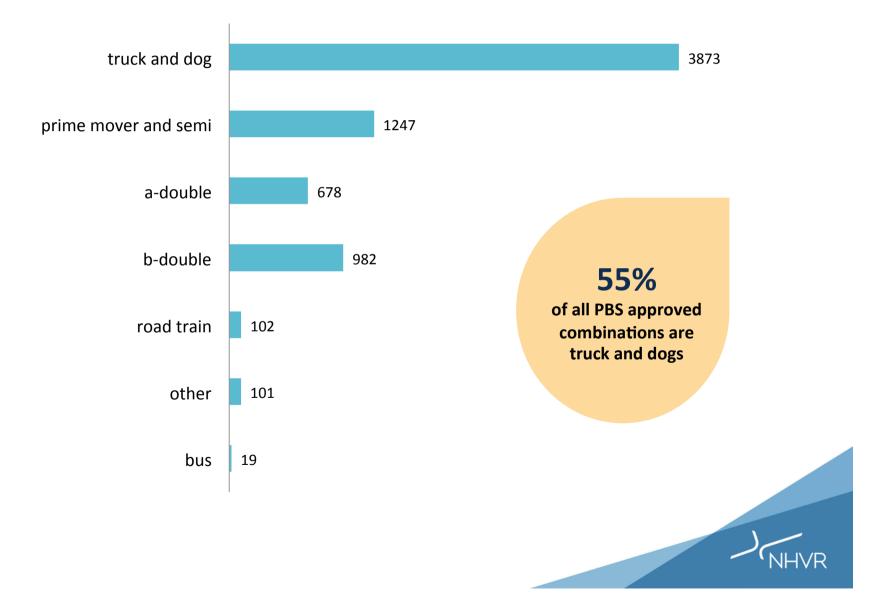
2009-11, 719	7000	
2012, 450	PBS approved combinations on register	
2013, 575		More than 60 trailer
2014, 928		manufacturers 22 truck
2015, 929		manufacturers
2016, 1397		
2017, 1416		
2018, 577 (January to April)		
		NHVR

Vehicles Manufactured 2017

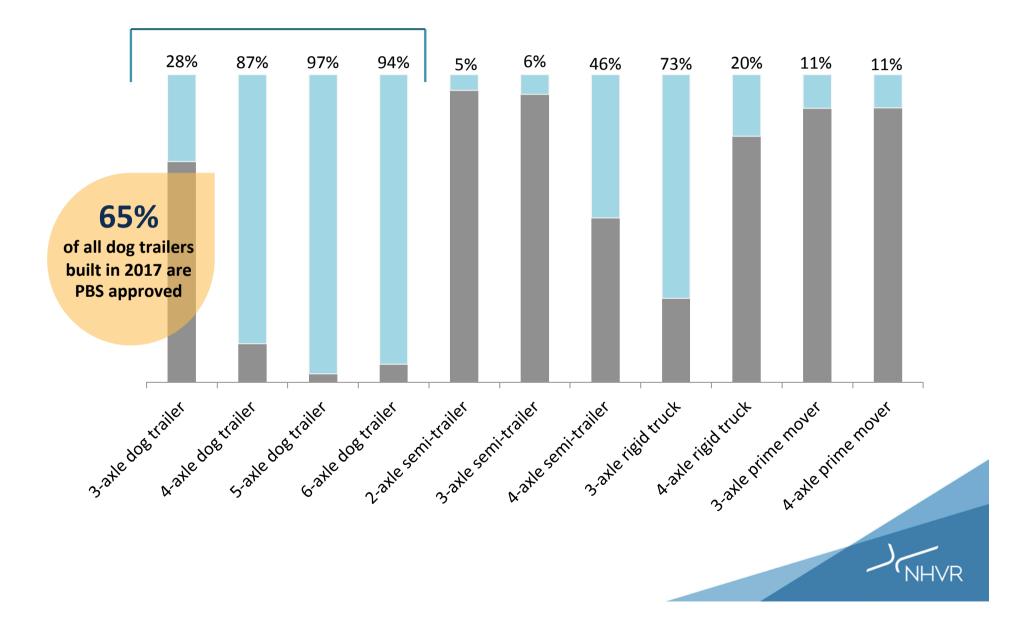




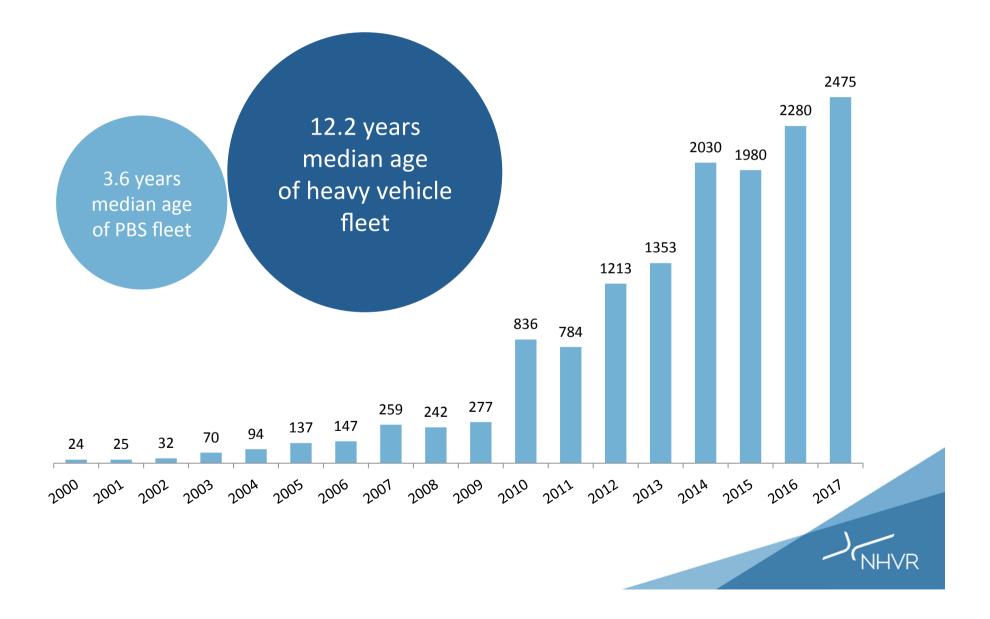
Australian PBS Fleet



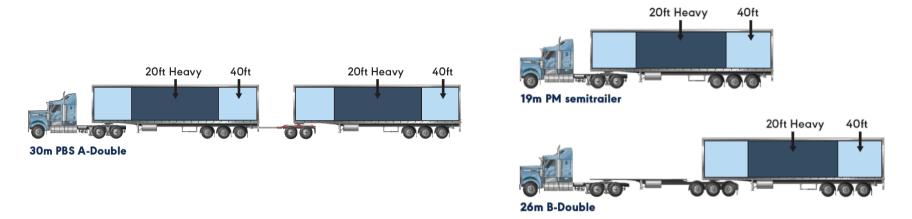
PBS Vehicles Manufactured 2017



Year of Manufacture PBS fleet



Case study: 30m PBS A-double (Toowoomba to PoB)



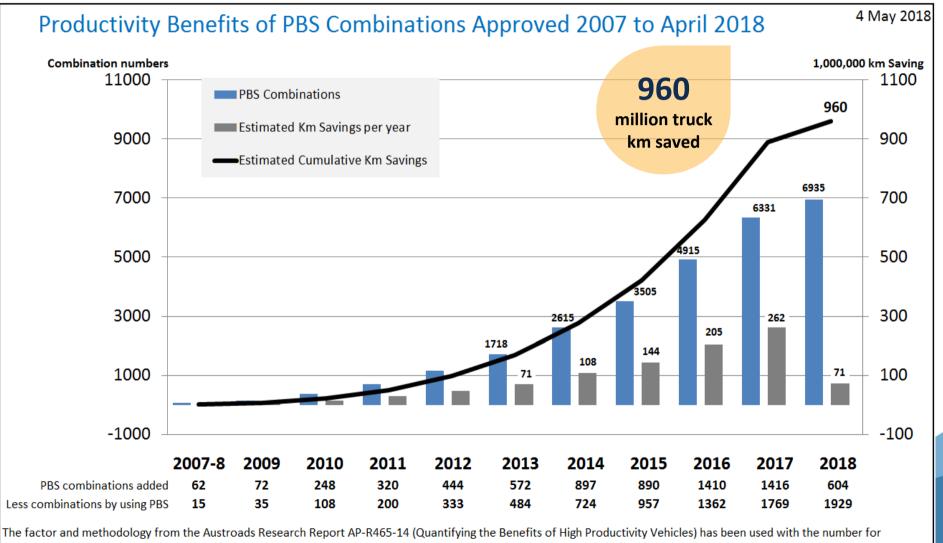
100% productivity improvement for specific freight tasks



- 30% average growth/year for Adoubles
- 27% increase in freight movements in Port of Brisbane
- 16% increase in truck numbers
- Overall decrease in truck trips per TEU container

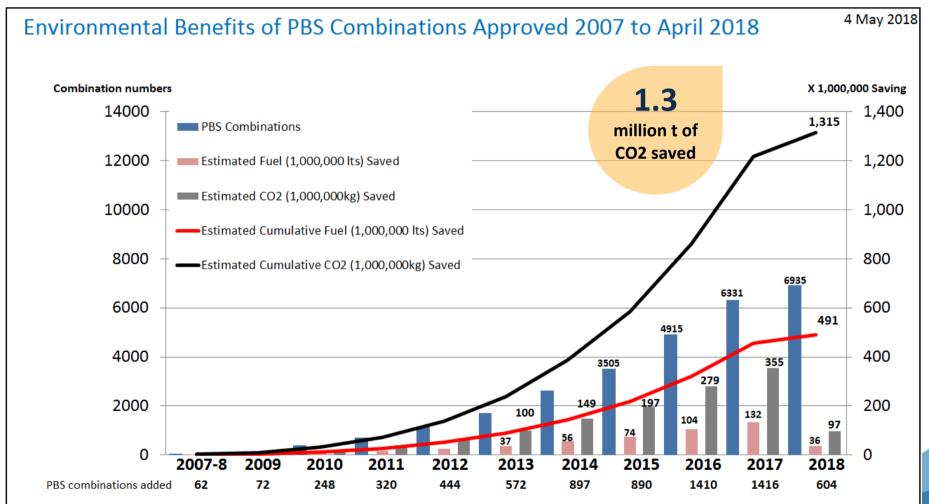


PBS productivity benefits



approved PBS combination to quantify the benefits achieved from PBS.

PBS environmental benefits



1. The factor and methodology from the Austroads Research Report AP-R465-14 (Quantifying the Benefits of High Productivity Vehicles) has been used with the number for approved PBS combination to quantify the benefits achieved from PBS.

2. Rated fuel burn used from ATA - TAPs - Truck Impact Chart September 2016.

3. Diesel to CO2 conversion rate of 2.68 kg per lt used.

Challenges

- Access network certainty
- Lack of PBS knowledge
- Technical complexity
- Review of standards, rules, guidelines

