

FACT SHEET:

FAST TRACKING RAIL INNOVATION



Australia is on the cusp of a new wave of rail investment, with \$155 billion expected to be injected into the industry over the next 15 years. But the industry is also at a crossroads. We must urgently build a culture of rail innovation to make the most of the growth ahead and harness new opportunities in the global rail technology market.

This global market opportunity is growing, with a rise in rail innovation in recent years.



\$362 billion
PER YEAR GENERATED BY THE
RAIL TECHNOLOGY MARKET



Increasing innovation WITH THE RATE OF NEW PATENTS RISING



Greater cost recovery
IN MARKETS WITH STRONG
INNOVATION CULTURES

Australia is lagging behind its global counterparts, and are paying the price because of it.

NO GOVERNMENT FUNDING

for rail cooperative research centres or research programs



PRIVATE INVESTMENT FOR EVERY DOLLAR OF PUBLIC FUNDING

Australia UK JAPAN
63 cents \$2 \$20

LOWER PRIVATE INVESTMENT

due to lack of R&D funding certainty



HIGHER SPEND PER KM

and lower rate of cost recovery exacerbated by lack of rail innovation



GLOBAL RAIL PATENTS IN 2019 BY GEOGRAPHY







What's holding us back from rail innovation in Australia?



A fragmented market

resulting from many different national state rail systems



Lack of funding certainty for R&D and commercialisation

Limited cooperation



between innovators and industry operators, reducing the likelihood of innovations being commercialised



State local content requirements reducing the economies of scale that can be achieved by rail manufacturers



Risk averse culture that avoids experimentation



Government procurement

processes that do not consider whole of lifecycle costs To make the most of the next wave of rail investment, we must act now to create a culture of innovation in rail. A three point plan will help achieve this.



MAKE INNOVATION A NATIONAL PRIORITY

Sustained leadership and investment is needed to ensure a national focus on rail technology and innovation.

- A national peak body for rail innovation in Australia
- Invest in R&D so more research can be started and commercialised
- A national strategy to ensure innovation is at the heart of capability and skills development in the rail industry
- An exports strategy to promote Australian rail innovation in the global market



DEVELOP A SINGLE MARKET FOR RAIL TECHNOLOGY

A single, national market with common standards for rail technology would give the rail industry the scale it needs to support innovation and commercialisation.



- A national local content policy that replaces state-based policies and reduces fragmentation
- Standardised training to support a new national focus



BUILD A CULTURE OF RAIL INNOVATION

A culture of rail innovation must be supported at every level of the industry.

- Best practice procurement and contracting by the public sector to accelerate technology adoption
- Smart rail strategies to build the planning pipeline for digital technology
- Build the Australian rail brand to showcase our innovators at global trade shows

WANT TO KNOW MORE?

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