

TOGETHER WE ARE REINVENTING THE WHEEL

Through innovation and market development, TSA is committed to helping Australia realise a circular economy for used tyres.



Roads

\$4.2M committed to 24 projects



Research

\$1.2M committed to 11 projects



Civil Engineering

\$1.1M committed to 8 projects



Manufacturing & mining

\$1.1M committed to 8 projects



Rail

\$0.6M committed to 5 projects

We have committed to over \$8 million in more than 56 projects creating real-world outcomes and solutions for Australia's used tyres.

Australia generates on average around 460,000 tonnes of used tyres annually. The valuable resources from these tyres can be recovered and used in value-added products and applications.

Some examples of Australian innovation and ingenuity are featured on the other side of this flyer. If you have a bright idea or want to know more, we'd love to hear from you.

Get in touch: getonboard@tyrestewardship.org.au



TyreStewardship
AUSTRALIA



Masonry pavers

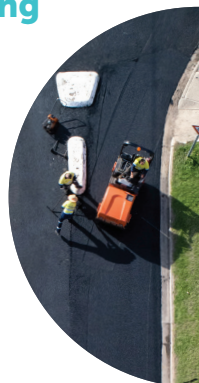
**McKeno Blocks and Pavers
and Curtin University**

Resilient and durable masonry pavement blocks use tyre derived material and aggregates in place of natural aggregates, resulting in a product which is lighter, easier to transport and install, and more cost effective.

Rubber crumb keeping our roads Sun Smart

RMIT University

Researchers from RMIT University have found that rubber crumb provides a 'sunscreen' effect for roads. By incorporating recycled tyres in road bitumen, the impacts of ageing from UV, including cracking, are significantly reduced. The life of road surfaces are extended twice as long as conventional bitumen, and maintenance is drastically reduced. Recycled tyres help us create resilient roads for a harsher and changing climate.



Rubber T-Lok road safety concrete barriers

**University of Melbourne's APTEs
Research Group and SafeRoads**

Adding crumb rubber to concrete road safety barriers delivers an innovative product with enhanced safety benefits and longer lifespan.

It is a cost effective solution for a range of industries which make and use barriers, such as manufacturing, engineering, construction, mining, outdoor event management and government road safety programs.



Golflex cart path and bunkers

**Flexiroc and Environmental
Golf Solutions**

Crumb rubber provides a hard wearing, durable, flexible, and porous surface for cart paths and bunker linings - a perfect solution for golf courses. The cart paths provide a continuous path, with flexibility that protects it against distortion and cracking from tree roots, and it is quick to install by hand or machine.

The Golflex bunker liners provide increased drainage results which improve playability after heavy rain and reduce the maintenance requirements to bunker bases.



Noise acoustic walls

Flexiroc and University of NSW

To reduce the impacts of road and traffic noise, acoustic walls and fences are commonly used along roadsides. Generally, they are constructed from conventional concrete or autoclaved aerated concrete, which are effective at reflecting sound. Using tyre derived materials and glass, Flexiroc and UNSW have developed noise walls that are 30% lighter, reducing the amount of concrete needed in foundations by up to 20% and reduce the impacts of noise through absorption.

Permeable pavement

Porous Lane

Permeable pavement with up to 50% tyre derived aggregate allows water to pass through the surface, reducing stormwater runoff and pollution entering our waterways. Permeable pavement is suitable for a range of uses including car parks, footpaths and around tree bases.



These are just some examples of innovative products and applications using Australia's end-of-life tyres. [Scan the QR code to learn more.](#)