

TOGETHER WE ARE REINVENTING THE WHEEL

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

We have committed to over \$9.2 million in more than 64 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.

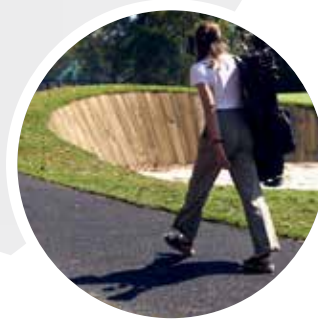
Tyre-derived materials have limitless uses in the real-world, be it for absorbing sound, increasing flexibility or making pathways



porous to rainwater. Some examples of Australian innovation and ingenuity are featured on the other side of this flyer or scan the QR code to see a comprehensive list to learn more.

If you have a bright idea or want to know more about Tyre Stewardship Australia's Market Development funding, we'd love to hear from you.

Get in touch: getonboard@tyrestewardship.org.au



Roads

\$4.7M committed to 28 projects



Research

\$1.4M committed to 13 projects



Civil Engineering

\$1.2M committed to 9 projects



Manufacturing & Mining

\$1.1M committed to 8 projects



Rail

\$0.8M committed to 6 projects



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 APRES Research Group and SafeRoads

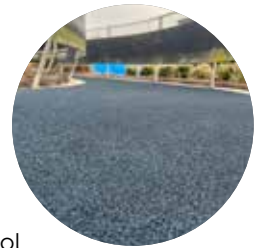
Adding crumb rubber to concrete road safety barriers delivers an innovative product with enhanced safety benefits and longer lifespan. It is a cost effective solution for a range of industries which make and use barriers, such as manufacturing, engineering, construction, mining, outdoor event management and government road safety programs.



Rubber T Coat coloured surfaces

Coloured
Recycle Group

A specialised surface that can be applied to any existing surface for sporting surfaces, stairways, pool surrounds, hospitals and workshops.



C4M baled tyre sandwich wall system

LomWest Enterprise

A low-density void former cast into concrete panels with baled end of life tyres.

Ideal for builds wanting to increase the use of recycled materials and quick construction timeframes, especially in remote areas.



Noise acoustic walls

Flexiroc and University of NSW

Using tyre-derived materials and glass, Flexiroc and UNSW have developed noise walls that are 30% lighter than conventional concrete noise and acoustic walls, reducing the amount of concrete required in foundations by up to 20%.

The inclusion of rubber also takes advantage of rubbers' ability to absorb noise to reduce noise pollution rather than reflect noise as conventional concrete and autoclaved aerated concrete noise walls.

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.

The Golflex bunker liners provide increased drainage results and reduce the maintenance requirements to bunker bases.



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.

Playgrounds, sporting surfaces

A1 Rubber

Soft-fall playgrounds, underlays and sporting surfaces that provide a resilient and flexible surface for indoor and outdoor spaces.

