

TSA Circular Economy Collaborators



Supporting consumers of Australian tyre derived material for a sustainable society

TSA envisions a sector where resources from end-of-life tyres (EOLT) are used as feedstock for new value-added products, boosting new industries, creating new jobs and finding alternate uses for this valuable resource in Australia.

This is reflected in the TSA vision where a circular economy for EOLT - which keeps tyre-derived products and materials circulating in the economy and regenerating, contributes to a sustainable society. When a product reaches the end of its life, its materials are kept within the economy wherever possible. For TSA and our focus on the sustainable management of EOLT, the elements of circular economy that resonate with our vision include:

► Elimination of waste and pollution

- Reducing the amount of EOLT negatively impacting the environment via landfill, stockpiling, illegal dumping or undesirable export

► Circulating tyre-derived products (within the economy)

- Increasing the recycling rate of EOLT
- Supporting a thriving market for tyre-derived products and materials (to create new industries and jobs)
- Utilising tyre-derived material to enhance the performance, benefit and longevity of new products

► Recyclability/EOL management of tyre-derived products

- Ensuring manufacturers of tyre-derived products and materials consider elimination of waste (by their design). This may include design to ensure they are fit-for-purpose, have longevity (minimise degradation/dispersal to the environment) and can be readily recycled by end users at EOL (for recirculation into the economy where possible)

TSA Circular Economy Collaborator

TSA Circular Economy Collaborators are those organisations that are playing a vital role in consuming tyre derived material in Australia and whose activities align with the TSA vision by contributing to a sustainable society.

Such organisations can include:

- Manufacturers of finished products to market that contain tyre derived material from Australian generated waste tyres.
- Manufacturers that are extending the life of a used tyre through retread.
- Entities that make a committed effort to utilise tyre derived material, such as municipalities in roads, pavements and buildings.
- Research organisations that are delivering a methodology for the use of tyre derived material in the Australian market.

Whilst the purpose of recognition as a TSA Circular Economy Collaborator is intended for those who do not currently meet the criteria of TSA participant categories, as defined by the [Scheme Guidelines Parts C to I](#), this recognition can (at the discretion of TSA) be applied to existing participants where (and if) applicable.

Organisations can apply to become a TSA Circular Economy Collaborator in one of three categories (Manufacturer / End User / Researcher) via an online application form including supply of any required documentation. Applications will be reviewed and approved by TSA.

- Review jointly by TSA Sustainability Manager and Market & Business Development Manager, followed by review/approval by Accreditation Committee (refer to Board, as required)

Specific commitments

TSA Circular Economy Collaborators commit, and are required, upon obtaining endorsement, to:

- A. Demonstrate and report on use of Australian generated used tyre material, as prescribed by TSA's online reporting platform;
- B. Agree to be included on TSA website and other promotional materials;
- C. Complete annual Employee Entitlements Declaration and/or participate in surveys, as required by TSA;
- D. Complete an annual declaration to ensure the organisation continues to meet commitments as per endorsement under this program;
- E. Deal ethically and transparently with Participants, specifically in relation to the final destination and therefore the environmentally sound use of EOLT (including advising TSA of any changes to activities);
- F. Consider participation in TSA initiatives, such as ecolabelling program; and
- G. If the organisation is required to complement their Australian generated tyre derived material with imported material the following will be required:
 1. A commitment to shift the percentage of Australian tyre derived material over imported crumb over time
 2. Provide % split data of volume imported vs volume purchased locally
 3. Work with TSA on barriers to increasing the volume of Australian generated tyre derived material.



A highly innovative sub-surface protection system made with end-of-life tyres. It is free draining and can be used in tandem with any sports surface to achieve new standards of shock absorbency.



An innovative manufacturer transforms end-of-life tyres into crumb rubber to deliver a hard-wearing, durable, flexible and porous surface. It is the perfect solution for cart paths and bunker linings on golf courses.

Selection criteria

To obtain recognition, organisations will be required to demonstrate the following via completion of online application form and agreement with relevant Commitments, including:

- A. Resources from EOLT are used as feedstock for new value-added products, boosting new industries, creating new jobs and finding alternate uses for this waste stream. Details of product and its application and/or intended use, such as:

Manufacturer

- Manufacturing of finished product to market containing tyre derived material from Australian generated waste tyres.
- Extending the life of used tyres (such as through retread).

End User

- Utilising tyre derived material such as within municipal projects.

Researcher

- Delivering a methodology for the use of tyre derived material in the Australian market.

- B. Utilisation of Australian sourced EOLT in the creation of sustainable products / outcomes:

- For the purpose of TSA reporting, who they purchase from (volume from AU, other volume if required).
- Demonstrated roadmap to work towards increased uptake of tyre derived material from Australian generated waste tyres.
- Estimate of EOLT volume recovery.
- Road map % of Australian generated material v imported material.

- C. Demonstration that the Organisation is striving for circular economy in aspects of their business, including recyclability, design and management of products at their end of life. A consideration for recognition status may include where organisations have extended producer schemes in place for their own products.

As part of being a TSA Circular Economy Collaborator, TSA will promote approved organisations and may extend use of TSA Australian Government Accredited Product Stewardship Scheme (AGAPSS) branding where applicable (and in accordance with user guidelines).

Additionally, approved organisations may benefit from connection opportunities with the tyre supply chain to increase and enhance sustainable outcomes for EOLT.

Organisation types

Organisations that TSA would encourage to apply to become a TSA Circular Economy Collaborator, include (but not limited to) the following:

Manufacturers

- ▶ Rubber flooring and mat products
- ▶ Sports and equine track systems
- ▶ Wall panel systems
- ▶ Permeable pavement
- ▶ Road and rail products
- ▶ Road spray and asphalt applications
- ▶ Tile adhesives
- ▶ Golf bunkers and pathways
- ▶ Moulded products
- ▶ Agricultural mats
- ▶ Silages covers
- ▶ Retreaders

End Users

- ▶ Local councils
- ▶ Building companies
- ▶ Golf courses
- ▶ Equine and athletics track owners
- ▶ Property developers
- ▶ Gyms
- ▶ Sporting clubs
- ▶ Schools
- ▶ Day-care facilities
- ▶ Private businesses
- ▶ State and federal governments
- ▶ Farmers

Researchers

- ▶ Universities
- ▶ Other relevant research institutions (public or private)



Using state-of-the-art manufacturing, manufacturers utilise rubber from old tyres to form new Australian made rubber flooring products like playground surfacing, pavers, gym tiles and underlays.



A spray on cementitious mix designed by an innovative manufacturer, made with tyre-derived crumb rubber and composite fibers, is designed to be blast, ballistic and fire-resistant.



A patented horse racing substructure providing an engineered base with intrinsic elastic and stability properties with excellent drainage. Easy to install and cost effective providing increased track utilisation whilst ensuring a safe racing surface.



Crumb rubber from end-of-life tyres are being used in high value applications such as road surfacing, ensuring a flexible, porous and long-lasting surface.



Permeable pavements, unlike conventional asphalt paving, allows water to pass through the surface, reducing storm water runoff and pollution in waterways.