

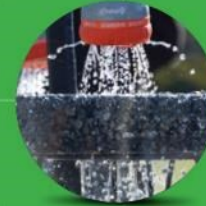
Towards Net Zero 2050 do TYRES play a role?

Lina Goodman

Chief Executive Officer – Tyre Stewardship Australia

Our vision is a circular economy for end-of-life tyres which contributes to a sustainable society.

Our mission is to collaboratively ensure the sustainable management, recycling and productive use of end of life tyres.





When it goes wrong.

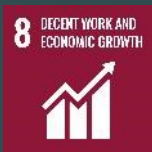
'Mountain' of illegally dumped tyres remains in Gold Coast cane field after two months

ABC Gold Coast / By Bern Young, Josie Sargent, and Kimberley Bernard

Posted Fri 8 Apr 2022 at 6:59am, updated Fri 8 Apr 2022 at 9:46am



WATCH
17s







Registered vehicles

20M+

Approx. tyres in use

85M+

Over the past five years, Australia annually imported on average:

23 million new tyres loose and 7 million tyres on vehicles



passenger & motorbike tyres

17 million
'loose tyres'

5.6 million
'on vehicles'



truck & bus tyres

5.5 million
'loose tyres'

700 thousand
'on vehicles'



off-the-road tyres

500 thousand
'loose tyres'

700 thousand
'on vehicles'



What is the problem that needs to be solved?

Figure 1. Average Australian annual tyre imports by tyre group



29.3 million new and used tyres imported into Australia

22.3 million loose tyres

7 million on vehicles

16.2 million

5.7 million

5.6 million

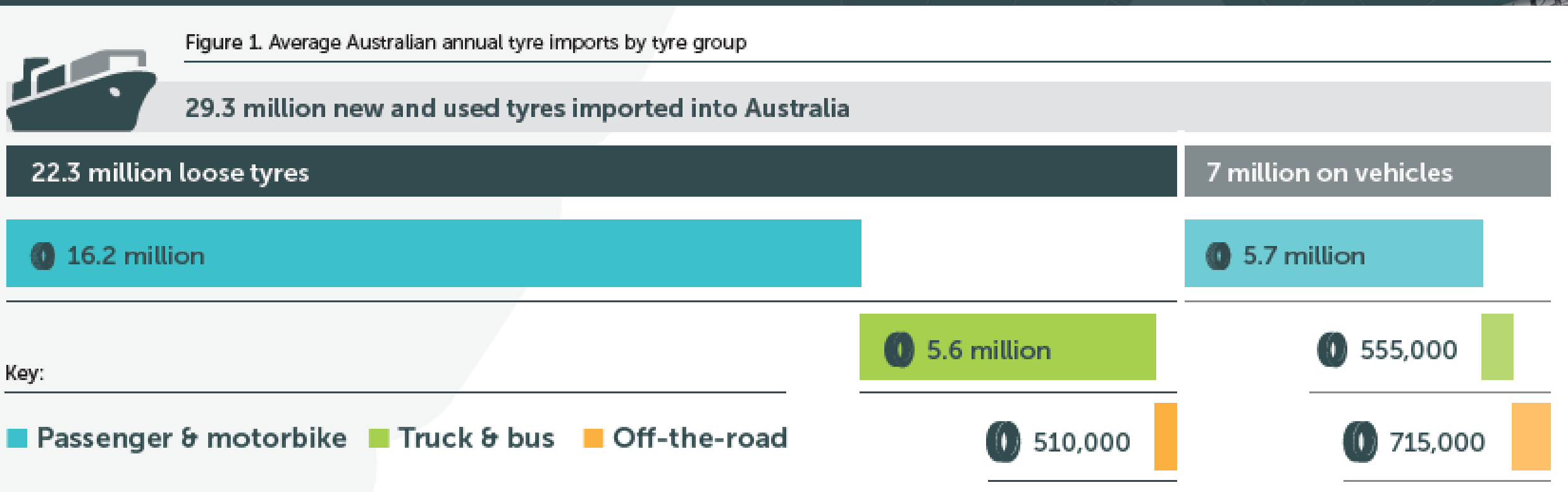
555,000

Key:

Passenger & motorbike Truck & bus Off-the-road

510,000

715,000



Who is Tyre Stewardship Australia?

The role of Product Stewardship

Can we (the collective we) really make a difference?



Who is Tyre Stewardship Australia? What is the purpose of the organization?

Who is TSA?

- An industry-led VOLUNTARY Product Stewardship Scheme.
- Three objectives:
 - 1. Create and facilitate new markets from tyre derived material.
 - 2. Ensure and mitigate against the mismanagement of end of life tyres
 - 3. Raise awareness of the issues, solutions and opportunities



What is the purpose?

- To be the custodians of our own waste.
- Drive sustainable outcomes for end of life tyres.
- Facilitate the commercialization of opportunities



Who is Tyre Stewardship Australia? What is the purpose of the organization?

Tyre Stewardship Australia

Established as an industry led Voluntary Scheme in 2014.

Accredited Voluntary Arrangement

2021, the Commonwealth endorses TSA as an Accredited Arrangement.

Ministers Priority List

October 2022, Federal Environment Minister announces tyre on the waste priority list.



Australian
Government
Accredited
Product
Stewardship
Scheme

Who is TSA? What is the purpose?

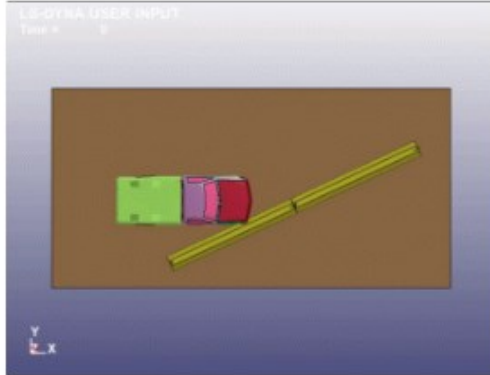
TSA Levy Contributors

49%



7%

EXAMPLES of solutions



Concrete road barriers

Use of TDP in concrete barriers to improve impact resistance. This project investigates the application of waste tyre crumb...



Permeable Pavement

Field trial of permeable paving in real life loading conditions (with comprehensive instrumentation testing). The building of...



Crumb Rubber Capacity Expansion (for Spray Seal in Qld)

The project delivers an isolated product path in order to remove the risk of cross contamination at load out of other paving...



Equine Air Pakenham Racing Club Project

The project will provide a new benchmark for an engineered free-draining racetrack for the thoroughbred racing industry in...

The Eco-System to enable change

Importance of FLEET procurement :

- Supporting good operators eliminates stockpiling, dumping and promotes local investment.

FLEET
Use only accredited participants



Accreditation:

- Commercial incentive to operate ethically, within the law and meet the Scheme guidelines.
- Formal audit process to ensure recycler is adhering to:
 - Council requirements
 - The law
 - The scheme
- TSA has suspension and revocation processes in its tool kit to enforce compliance. But the retailers are the enforcer.

Tyre Importers
Environmental sound disposal of EOLT

Recyclers / Collectors
Maintain accreditation

Tyre Importer:

- Environmental Sound Management of EOLT's
- Supporting accredited recyclers/ collectors.
- Contributing financially to the Scheme

So, what now?

Making a difference is as easy as....1, 2, 3.



How procurement makes a difference

1. Procurement linked to product stewardship

- Request your supplier to be a TSA Accredited participant
- Fleet provider – the impact to change if they are accredited with TSA
- Tyre provider – a TSA tyre importer who contributes to the Scheme
- Vehicle manufacturer – a quarter of the problem, only 7% responsibility
- Repair, retail network – how are they working within the Scheme?
- Retread -higher ranked in the waste hierarchy.



How procurement makes a difference

2. Re-evaluate priorities in a tender

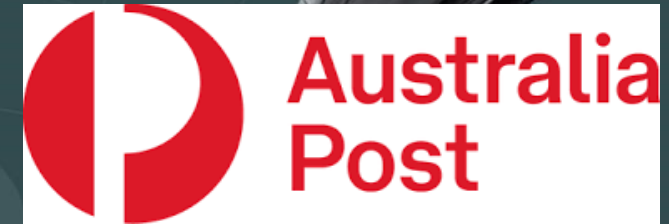
- Are we really serious about net zero?
- Product stewardship alliance and tender weightings
- Sustainability initiatives, how prominent is the discussion



How procurement makes a difference

3. Encourage and educate

- Examples of accredited Fleet organisations
- Work with your suppliers on engaging with TSA
- Consider who is driving your procurement outcome
- Engage and educate



Easy as 1, 2, 3

Keeping Tyres Top of Mind in Fleet Procurement

1. Procurement



2. Net Zero

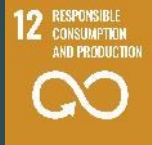
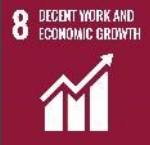


3. Educate



When tyres are not top of mind..

Fleet Management practices that do not have tyres in mind.



You can make a difference

Examples where net zero was not driving the procurement process

- **Tender specification** for TSA participant, but choose alternate based on price.
- Source **single use** tyre over retread. Driver was price
- Government procurement not supporting Commonwealth **circular economy**
- **Australian Design Rules** – should we be using them?
- **Export ban** in place – support those that are supporting new markets.



What are some net zero impacts from working with TSA accredited participants

Some numbers to think about on your net zero journey

- With every \$1M TSA commits to funding, the sector invests \$4M
- For every T of tyres that are recycled compared to landfilled the following saving is made;
 - 1.07 T of CO2 Emissions
 - 64.08 GJ of Energy and
 - 52.25 kL of water
- Retreading a truck/bus tyre can:
 - Increase its lifespan by up to 3 times
 - Only requires 1/3 of the oil to manufacture compared to new
- In Australia, sales of truck and bus tyres are 1/3 of new sales.
- 9.8 jobs are created for every 10,000T of material recycled, compared to 2.8 jobs for every tonne that is landfilled.




FLEET CAN MAKE A DIFFERENCE TO OUR TYRE PILE

National Fleet Policy is IMPACTFUL

- Seek reform in the process, are the weightings supporting net zero.
- Is there alignment with Product Stewardship
- There are clear GHG impacts when done right – are you aware of them?
- TSA is doing this as an accredited voluntary arrangement, fleet alignment is key
- Get in touch - can we help?



Get in touch

 +61 3 9977 7820

 2/59 Keele Street, Collingwood, Vic 3066

 getonboard@tyrestewardship.org.au

 www.tyrestewardship.org.au

