Tyres: from zero to (tracking) millions











What is Tyrewise?

About **40%** of the 6.5 million tyres Kiwis use to keep us moving every year are recycled, repurposed or used as tyre derived fuel. The rest end up stockpiled, dumped, or in landfill.

Together with our network of registered partners, Tyrewise works to end tyre waste in every community in Aotearoa.

What's our goal?



By our fourth year of operation, our goal is that **80%** of collected tyres will be processed in New Zealand and sold into the domestic market. The balance will be exported to approved markets.







How does Tyrewise work?

Tyre enters NZ



Tyre Stewardship Fee charged

Tyre reaches end of life – booked for collection



Tyrewise





Information verified



Payment made



Where does a tyre come from?

Loose tyres imported 1,103,000

> Tyres on vehicles 293,000

> > Other 6,000

> > > Q1 2025, to the nearest 1000







Tyres entering NZ 1,402,000

fortune favours the bold ko māia ko angitu







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60,000 vehicles

293,000 tyres



How many tyres do different classes of vehicle have?

Motorcycle:	2
Moped with three wheels:	3
Car:	4, 4.5, or 5
Omnibus:	5 (probably
Light goods vehicle (under 3.5T):	7 (maybe)



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Now that we know* how many tyres are coming into NZ, how are collections going?











ko māia ko angitu fortune favours the bold

Requ.

20

Actual

Count



The problem with counting

Pictured: four good examples of what 10 tyres can look like



















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fortune favours the bold ko māia ko angitu







Last digit of actual tyre counts







Weight is what really matters

- 1. More accurate measure of material diverted
- 2. Environmental impact is by weight, not count







Hawke's Bay councils to pay \$20m to dig new extension as region's biggest landfill set to be full by 2025

By Gary Hamilton-Irvine

Hawkes Bay Today · 25 Sep, 2022 02:58 PM () 3 mins to read





Putting it together - counts and weights







Actual and estimated weights









Estimated weight is tyre count * a constant value.

Actual weight is entered by a driver at a weighbridge



That's interesting, but what's the point?

Let the system do the work for you by flagging problems in advance



Tyrewise





"250 truck tyres"

2,000





Is a certain tyre type a problem?





		Requ.	Actual
)	Passenger	20	Count
	Off Road (forestry)		Count
	Select tyre size		Select ~
	Solid industrial (forklift)		Count
	Tractors - small		Count
	Light commercials / industrial		Count
	Aircraft		Count
	Motorbike		Count
	Off road ATV		Count



Is a certain group of people a problem?









What we've learnt

- Data relies on people
- People are lazy
- What 'forces' them not to be?
 - System design
 - Educating transport providers
 - Delaying payment until verification
 - Stopping payment?







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