

LEVEL CROSSING SAFETY

What the data tells us...

Sue McCarrey

Chief Executive / National Rail Safety Regulator

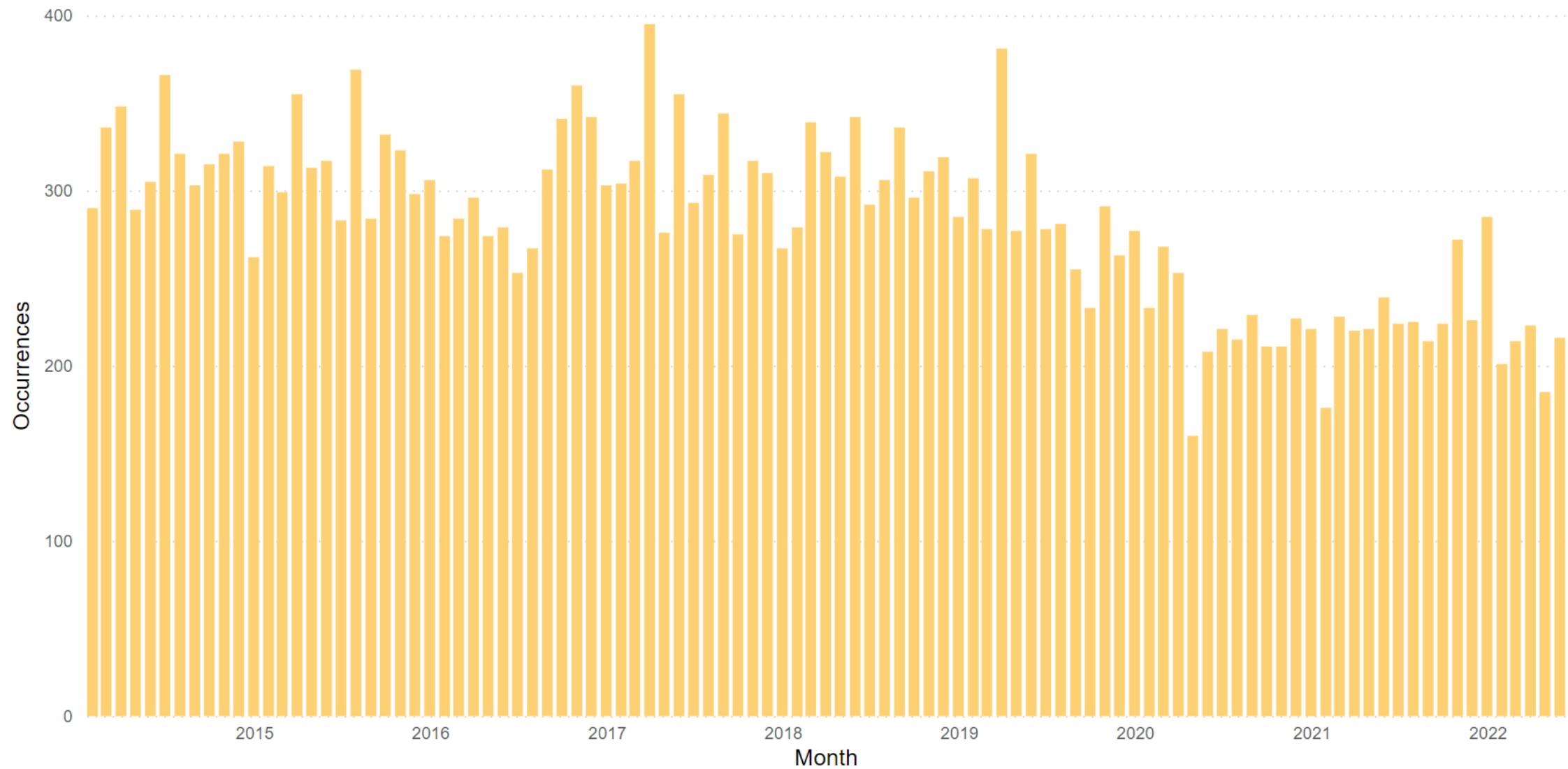
8 August 2022



There are more than 23,000 level crossings in Australia many of which involve interactions between rail operations, road traffic, cyclists and pedestrians every minute of every day.

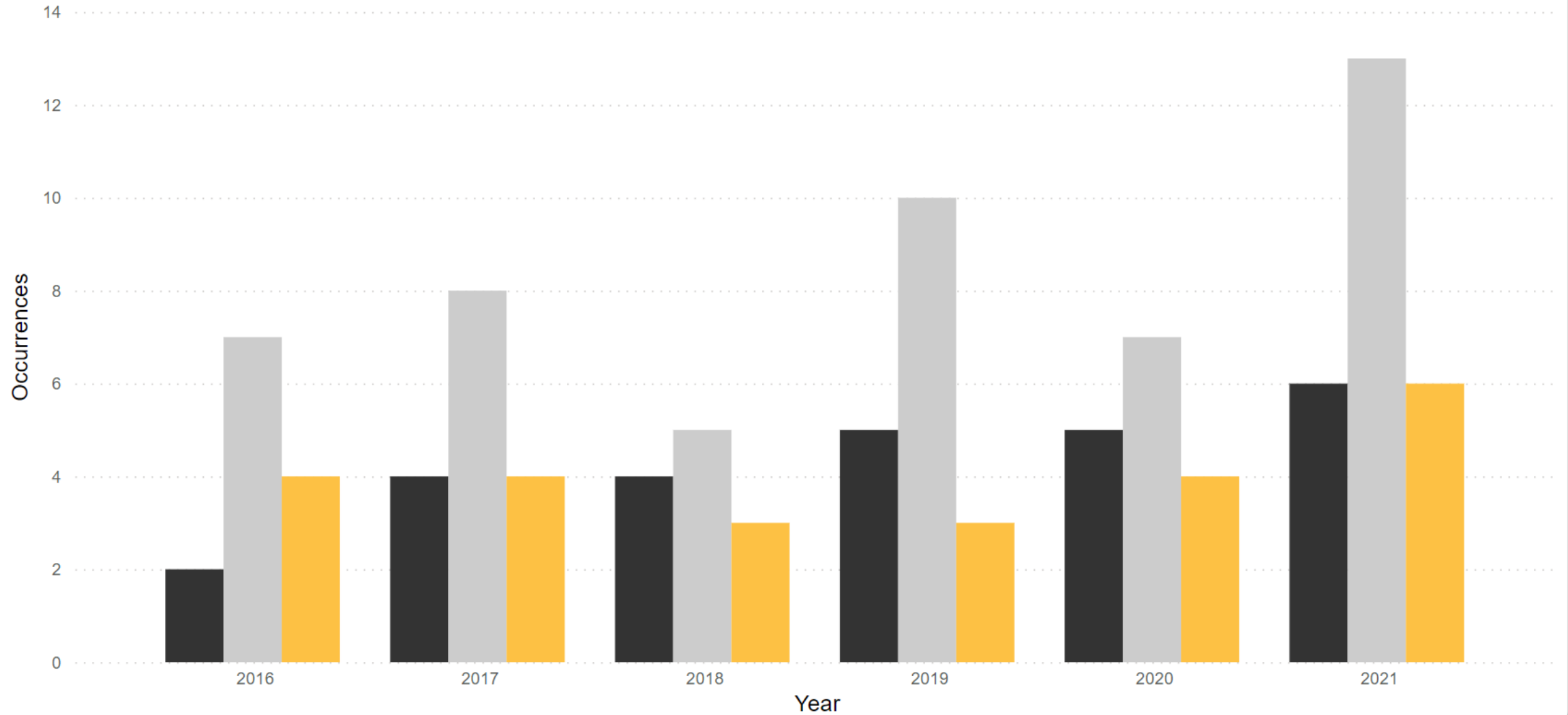
Excluding trespass and suicide, accidents at level crossings account for the largest number of railway-related fatalities involving members of the public.

Level crossing related occurrences per month, 1 January 2014 to 31 May 2022

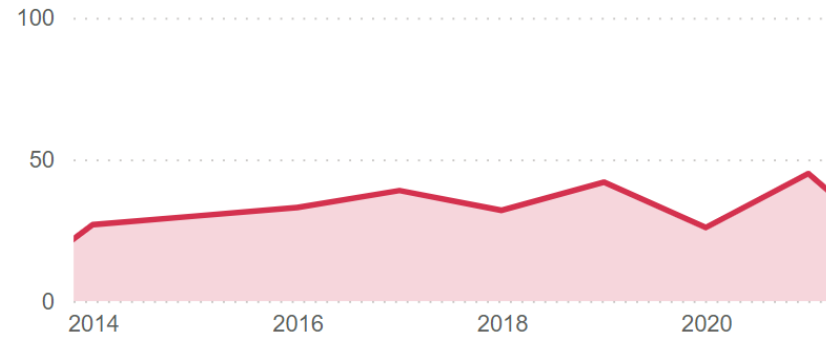


Level crossing occurrence related casualties per month, 1 January 2016 to 30 December 2021

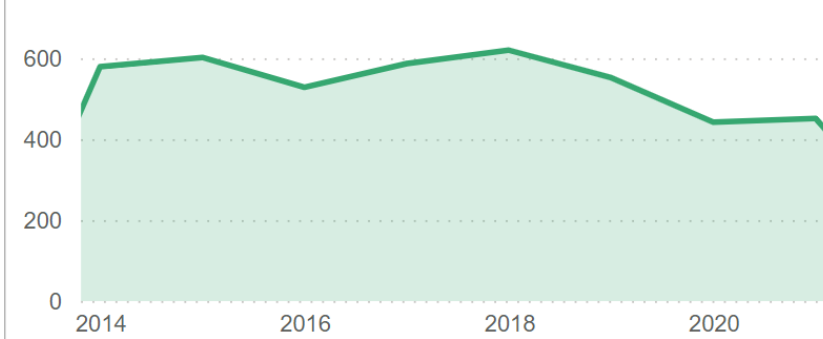
Consequence ● Fatality ● Minor Injury ● Serious Injury



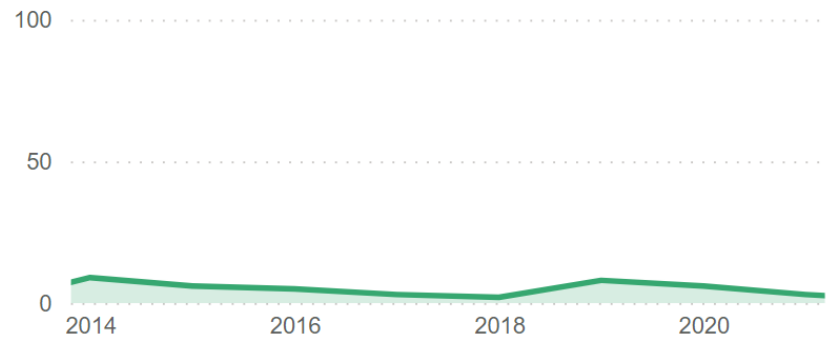
Collisions with Road Vehicles, 2014 2021



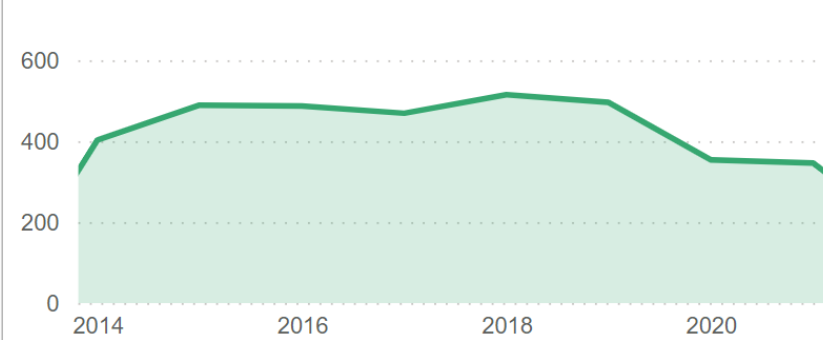
Near Hits with Road Vehicles, 2014 2021



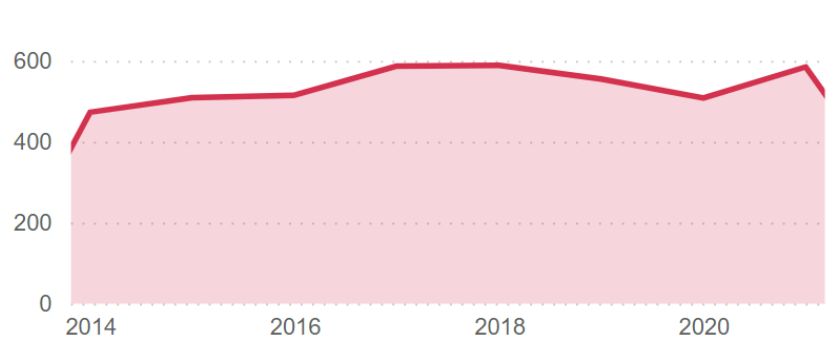
Collisions with Persons, 2014 2021



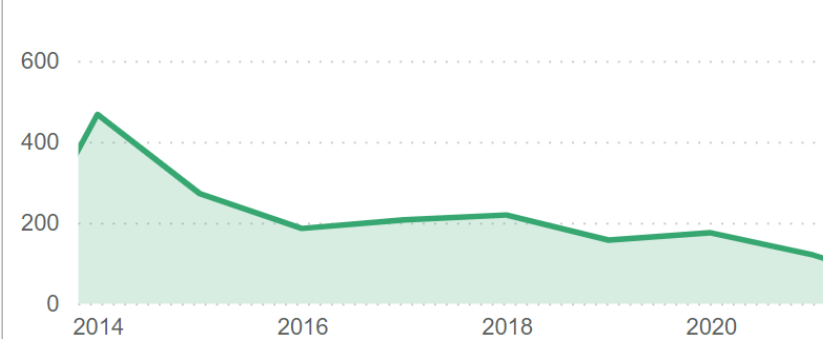
Near Hits with Persons, 2014 2021



Damage / Interference, 2014 2021

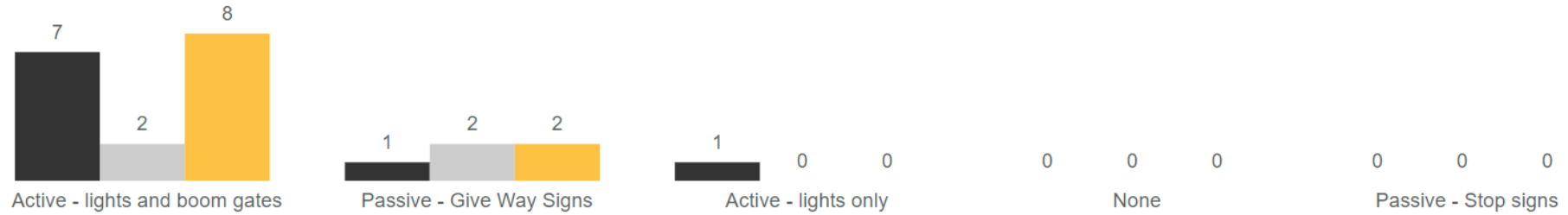


Failures / Defects, 2014 2021



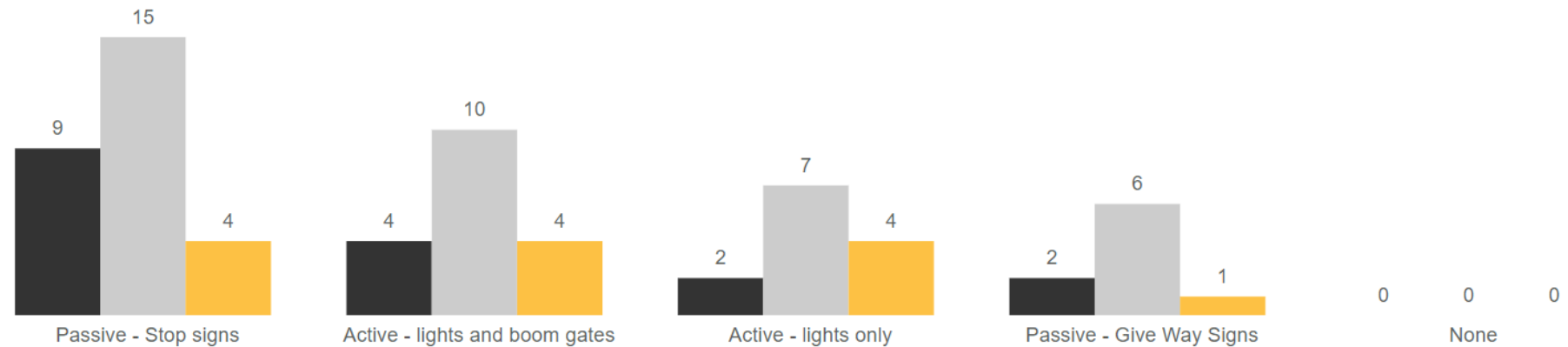
Collision with person related casualties by LX Control Type, 1 January 2016 to 30 December 2021

Consequence ● Fatality ● Minor Injury ● Serious Injury



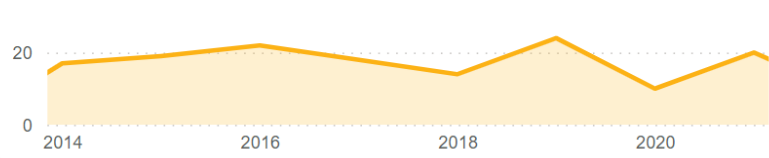
Collision with road vehicle related casualties by LX Control Type, 1 January 2016 to 30 December 2021

Consequence ● Fatality ● Minor Injury ● Serious Injury



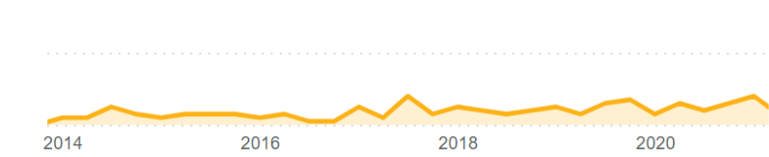
Collisions by Train Type

Commercial Passenger Trains



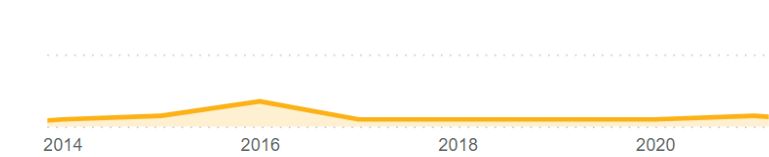
152

Freight Trains



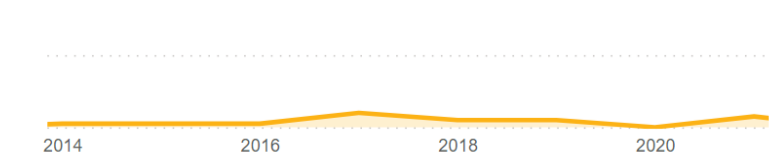
131

Track Maintenance/RRV/Other Trains



24

Tourist & Heritage Passenger Trains



14

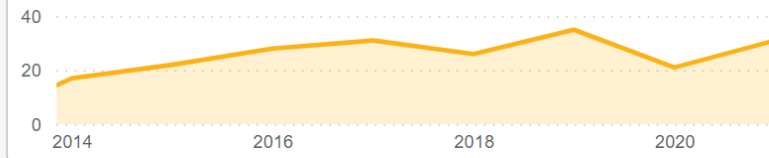
Light rail vehicles



8

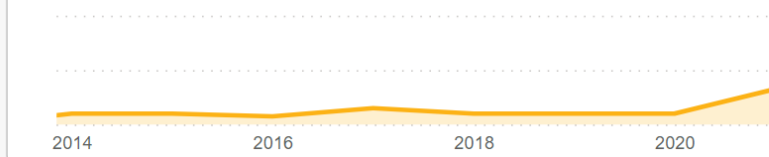
Collisions by Road Vehicle Type

Light passenger vehicle



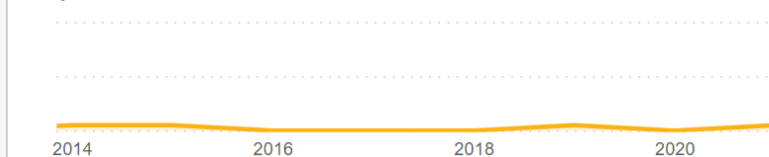
223

Heavy freight vehicle



44

Bicycles



8

Special purpose machinery



5

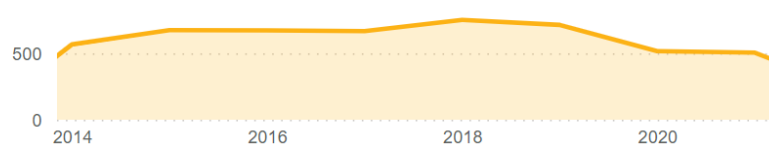
Other



9

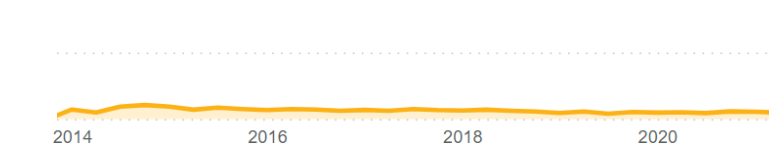
Near Hits by Train Type

Commercial Passenger Trains



5288

Freight Trains



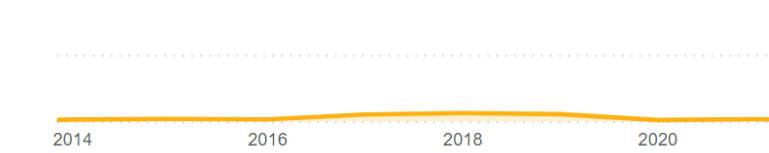
2152

Track Maintenance/RRV/Other Trains



370

Tourist & Heritage Passenger Trains



261

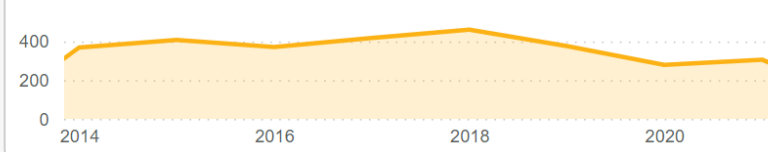
Light rail vehicles



132

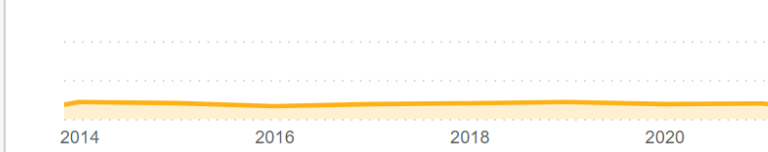
Near Hits by Road Vehicle Type

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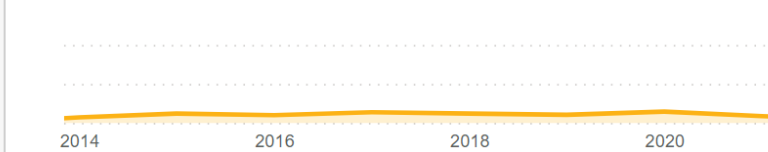
3091

Heavy freight vehicle



671

Bicycles



371

Special purpose machinery



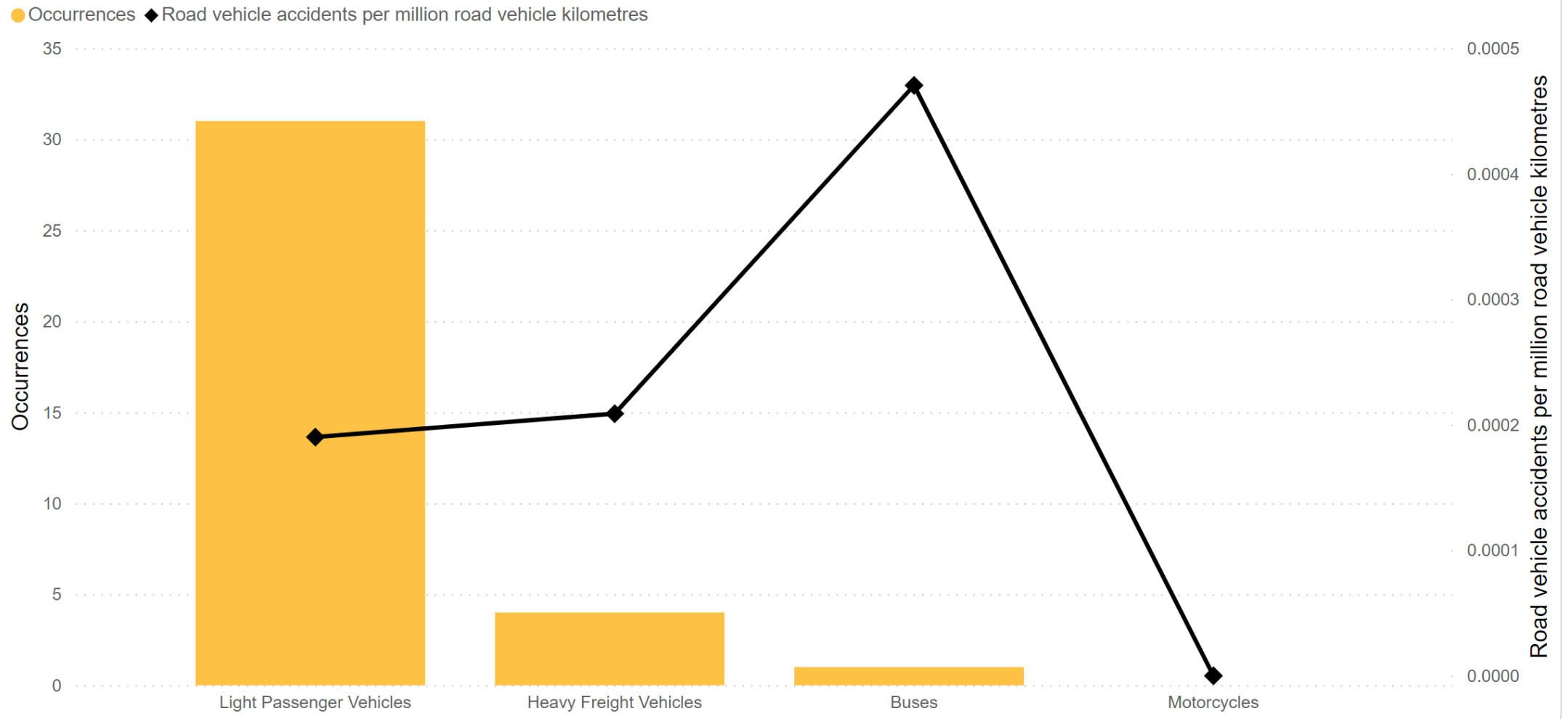
86

Other



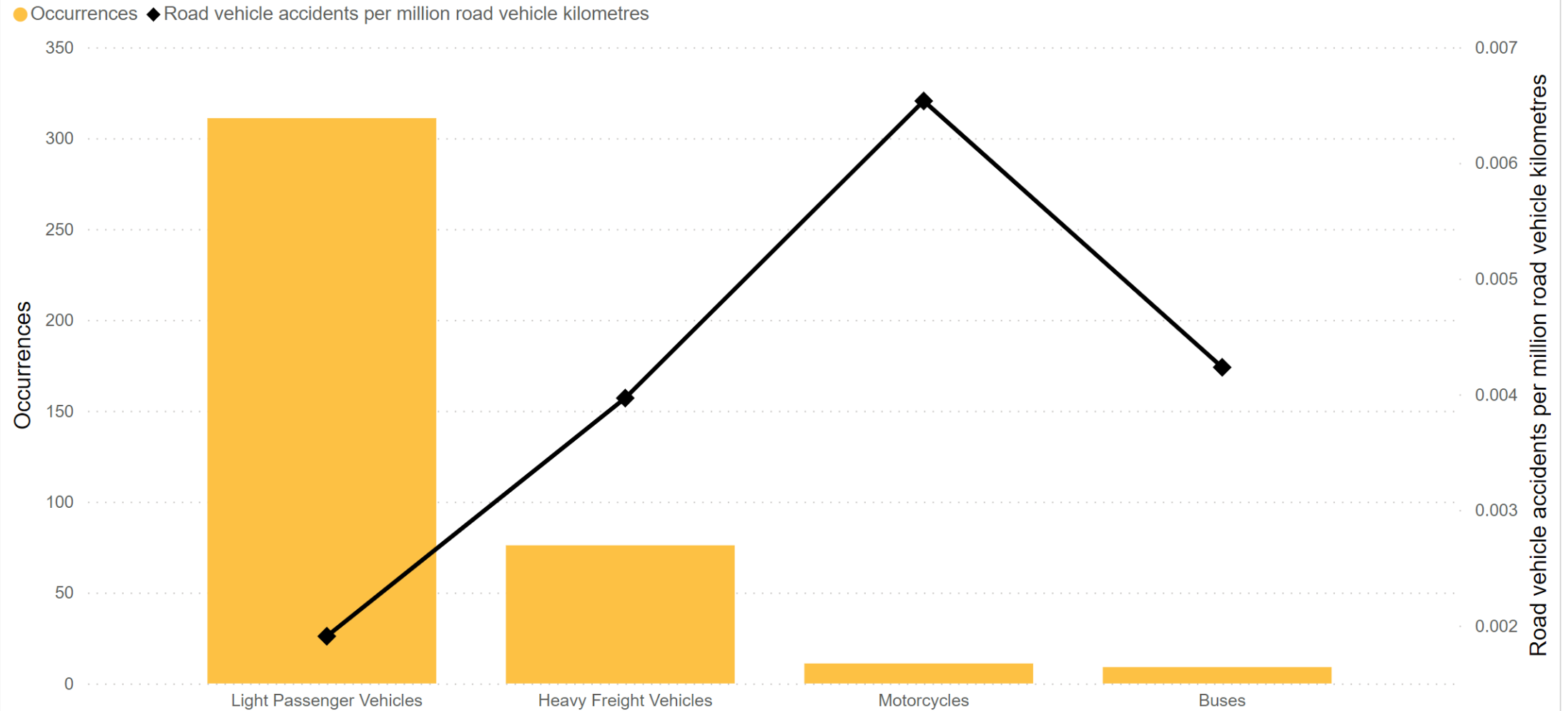
269

Collisions with Road Vehicles per million road vehicle kilometres (2019-20)



Note: Road vehicle kilometers was sourced from the ABS, Survey of Motor Vehicle Use, Australia, for the period ending June 2020

Near Hits with Road Vehicles per million road vehicle kilometres (2019-20)



Note: Road vehicle kilometers was sourced from the ABS, Survey of Motor Vehicle Use, Australia, for the period ending June 2020

ONRSR's LX ACTIONS

- > National Priority – Level Crossings (regional)
- > National Level Crossing Reporting Portal (NLXP)
- > Enforcement of Interface Agreements
- > Support for:
 - > National Level Crossing Safety Strategy
 - > Regional Australia Level Crossing Safety Program
 - > State Government initiatives in big data, tech solutions
 - > Budget announcement
- > Train visibility...



TRAIN VISIBILITY

2021 saw increase in activity and publicity – at all levels

- Major focus for ONRSR in 2022
- Review of research and best practice complete
- Trials of “possible” controls underway
- Independent oversight via Monash University
- ONRSR coordinating with FORG
- Regular stakeholder communication



FURTHER INFORMATION



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The ONRSR Way



ONRSR Annual Report 2020-2021
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QUESTIONS?

SAFE RAILWAYS FOR AUSTRALIA
