



**Fleet Conference
& Exhibition**
AND FLEET AWARDS

MAY 23-24
ROSEHILL GARDENS
RACECOURSE SYDNEY

ANCAP SAFETY: NEW ASPECTS FOR 2023 AND BEYOND

CARLA HOORWEG
Chief Executive Officer

ANCAP SAFETY

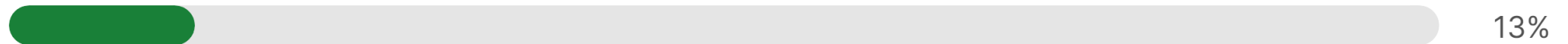
☰ Does your organisation have a specific ANCAP policy in place for vehicle procurement decisions?

Multiple Choice Poll 40 votes  40 participants

Yes - 35 votes



No - 5 votes



ANCAP SAFETY

NEW ASPECTS FOR 2023 AND BEYOND

CARLA HOORWEG
Chief Executive Officer

May 2023





30 YEARS OF VEHICLE SAFETY IMPROVEMENTS

Video Content

RATING COVERAGE
TO HELP MAKE SAFER PURCHASING DECISIONS



1000+

RATINGS PUBLISHED
OVER 30 YEARS

215

CURRENT RATINGS
AVAILABLE FOR NEW MODELS

175 (81%)

CURRENT FIVE-STAR RATINGS
AVAILABLE

108

RATINGS PUBLISHED
FOR ALTERNATIVE-POWERED MODELS

70

CURRENT RATINGS AVAILABLE
FOR ALTERNATIVE-POWERED MODELS

WHAT IS NEW FROM 2023?



Vehicle Submergence

- Door opening without battery power
- Window opening when submerged (Dossier-based assessment)

Child Presence Detection (CPD)

- Indirect & direct

Driver Monitoring Systems (DMS)

- Changes from indirect requirement to direct
- Distraction, fatigue & unresponsiveness

Motorcycle Detection (Powered-Two-Wheeler)

- Auto Emergency Braking
- Lane Support Systems
- Blind Spot Monitoring

Vehicle-to-Vehicle Compatibility

- Modifier (penalty) increases - 4pts to -8pts

Vulnerable Road User Protection

- Minimum pillar threshold increases - 60% to 70%
- aPLI impactor and additional assessment zones

AEB test scenarios

- Night-time
- Backover (reverse) with child pedestrian
- Head-on
- Crossing (T-Bone)
- Junction (turn across path) with cyclist

Cyclist 'dooring' prevention

- Warning and door retention

PILLARS OF ASSESSMENT



ADULT OCCUPANT PROTECTION

Considers the level of protection offered by the vehicle to adult occupants seated in the front and second row in the most common types of serious injury crashes.

	2018-2019	2020-2022	2023-2025
Frontal impact (MPDB)	8	8	8
Frontal impact (full-width)	8	8	8
Side impact (AMDB)	8	6	6
Side impact (oblique pole)	8	6	6
Side impact (far side)	-	4	4
Whiplash (front)	1.5	3	3
Whiplash (rear)	0.5	1	1
AEB City	4	-	-
Rescue & extrication	-	2	4

MAXIMUM SCORE 38 38 **40**

MINIMUM %	2018-2019	2020-2022	2023-2025
★★★★★	80%	80%	80%
★★★★☆	70%	70%	70%
★★★☆☆	60%	60%	60%
★★☆☆☆	50%	50%	50%
★☆☆☆☆	40%	40%	40%



CHILD OCCUPANT PROTECTION

Evaluates the level of protection the vehicle offers to child occupants seated in appropriate child restraints in the rear seats. The ability to effectively accommodate a range of child restraints is also assessed.

	2018-2019	2020-2022	2023-2025
Dynamic tests (frontal & side)	24	24	24
CRS installation	12	12	12
Vehicle-based assessment	13	13	13

MAXIMUM SCORE 49 49 49

MINIMUM %	2018-2019	2020-2022	2023-2025
★★★★★	80%	80%	80%
★★★★☆	70%	70%	70%
★★★☆☆	60%	60%	60%
★★☆☆☆	50%	50%	50%
★☆☆☆☆	40%	40%	40%



VULNERABLE ROAD USER PROTECTION

Assesses the design of the front of the vehicle to minimise injury risk to a struck pedestrian. Vehicles are also assessed for their ability to actively avoid or mitigate impacts with pedestrians, cyclists, and powered two wheelers.

	2018-2019	2020-2022	2023-2025
Head impact (adult, child & cyclist)	24	24	18
Leg impacts (upper & lower)	12	12	18
AEB / AES (pedestrian)	6	7	7
AEB (pedestrian reverse)	-	2	2
AEB / AES (cyclist)	6	9	9
AEB / FCW (motorcycle)	-	-	6
LSS (motorcycle)	-	-	3

MAXIMUM SCORE 48 54 **63**

MINIMUM %	2018-2019	2020-2022	2023-2025
★★★★★	60%	60%	70%
★★★★☆	50%	50%	60%
★★★☆☆	40%	40%	50%
★★☆☆☆	30%	30%	40%
★☆☆☆☆	20%	20%	30%



SAFETY ASSIST

Evaluates the presence and effectiveness of active safety technologies fitted to the vehicle which assist the driver in preventing or minimising the effects of a crash.

	2018-2019	2020-2022	2023-2025
Occupant status (SBR & driver monitoring)	3	3	3
Speed assistance system	3	3	3
AEB Interurban / AES (car-to-car front-to-rear)	3	4	4
AEB / AES Junction & car-to-car crossing	-	2	4
AEB / AES car-to-car (head-on)	-	-	1
LSS (car-to-car)	4	4	3

MAXIMUM SCORE 13 16 **18**

MINIMUM %	2018-2019	2020-2022	2023-2025
★★★★★	70%	70%	70%
★★★★☆	60%	60%	60%
★★★☆☆	50%	50%	50%
★★☆☆☆	40%	40%	40%
★☆☆☆☆	30%	30%	30%

THE OVERALL STAR RATING OF A VEHICLE IS LIMITED BY ITS LOWEST PERFORMING AREA OF ASSESSMENT

7
**PHYSICAL
CRASH TESTS**

12
**ACTIVE SAFETY
TESTS**

PHYSICAL CRASH TESTS



MPDB FRONTAL OFFSET
50KM/H



FULL WIDTH FRONTAL
50KM/H



SIDE IMPACT
60KM/H



OBLIQUE SIDE POLE
32KM/H

PHYSICAL CRASH TESTS



FAR SIDE IMPACT
32KM/H + 60KM/H

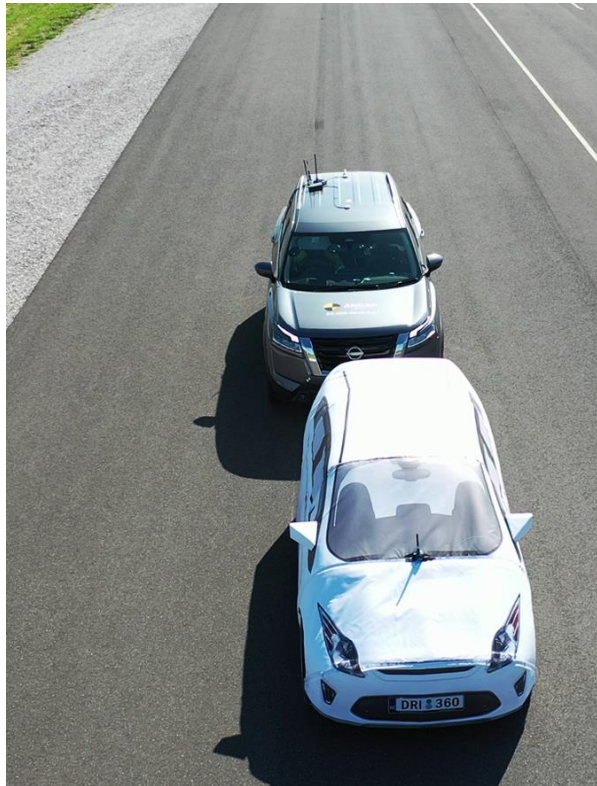


PEDESTRIAN PROTECTION
40KM/H



WHIPLASH PROTECTION
16KM/H

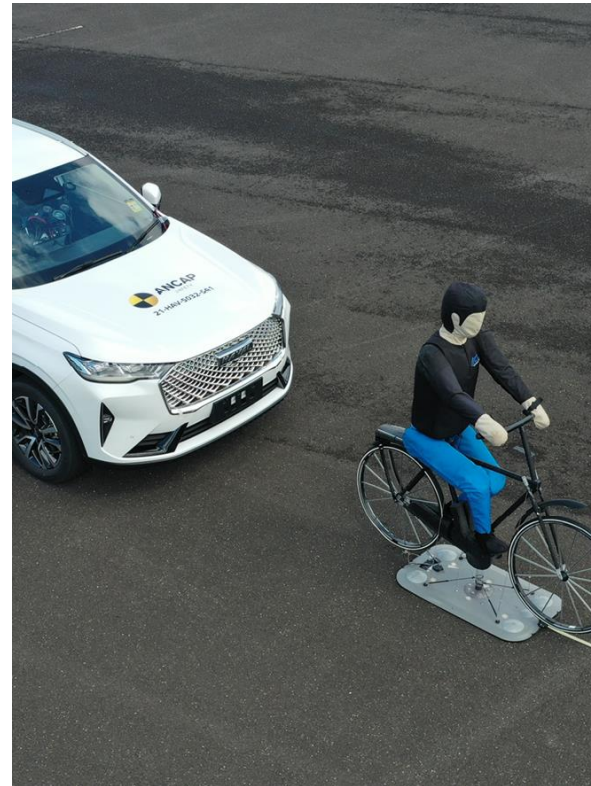
ACTIVE SAFETY TESTS



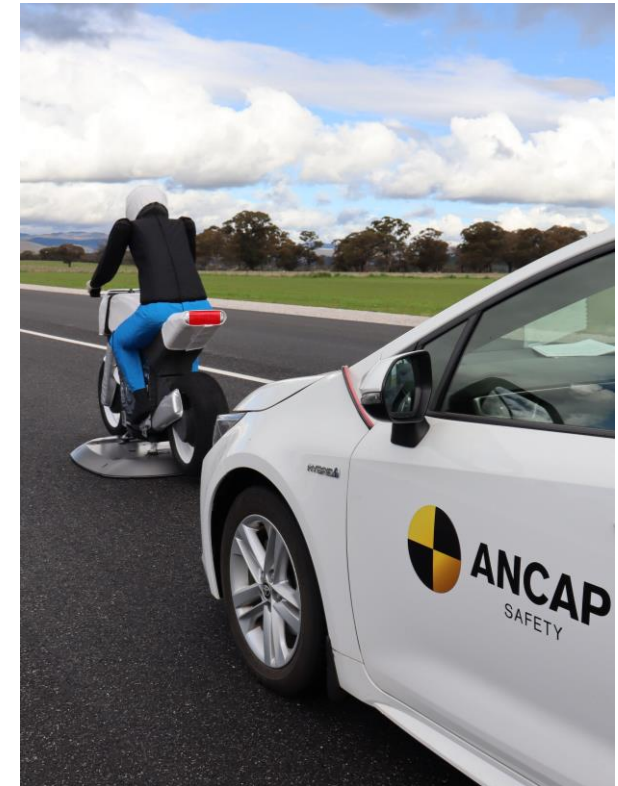
AEB CAR-TO-CAR
10-80KM/H



AEB CAR-TO-PEDESTRIAN
10-80KM/H



AEB CAR-TO-CYCLIST
10-80KM/H



AEB CAR-TO-MOTORCYCLE
10-60KM/H

ACTIVE SAFETY TESTS



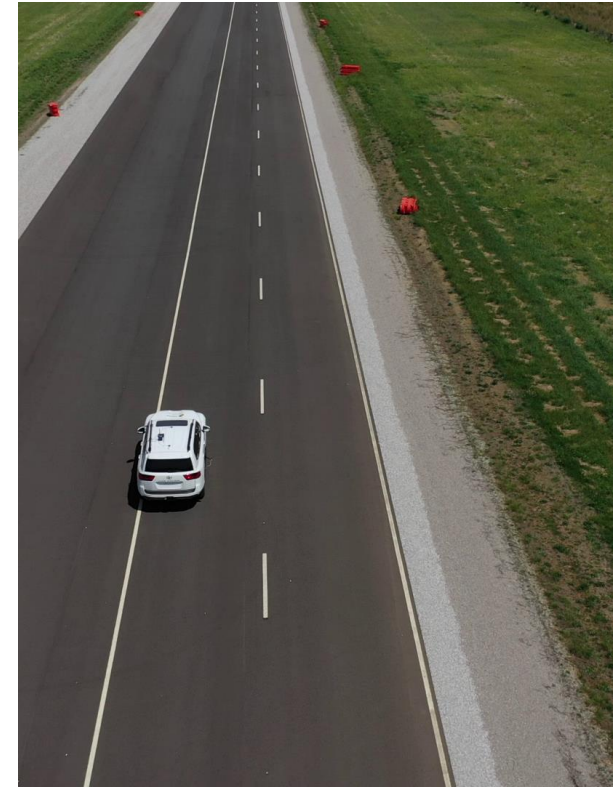
AEB BACKOVER (REVERSE)
4-8KM/H



AEB JUNCTION
20-60KM/H



EMERGENCY LANE KEEPING (ELK)
72KM/H



LANE KEEP ASSIST (LKA)
72KM/H

ACTIVE SAFETY TESTS



ANTI-DOORING
10-15KM/H



SPEED ASSISTANCE SYSTEMS
50, 80 and 110KM/H

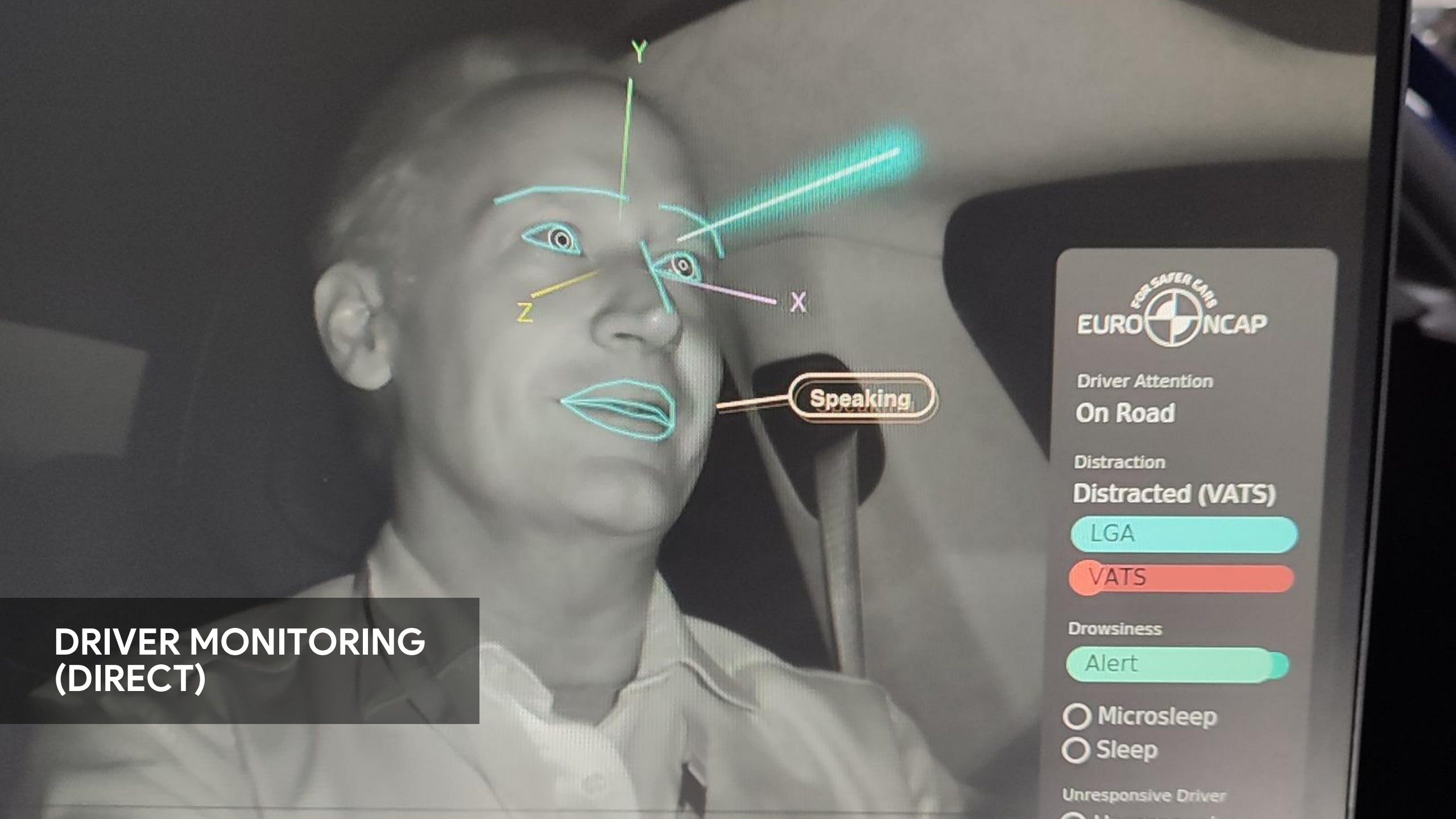


CHILD PRESENCE DETECTION



VEHICLE SUBMERGENCE

DRIVER MONITORING (DIRECT)



Driver Attention
On Road

Distraction
Distracted (VATS)

LGA

VATS

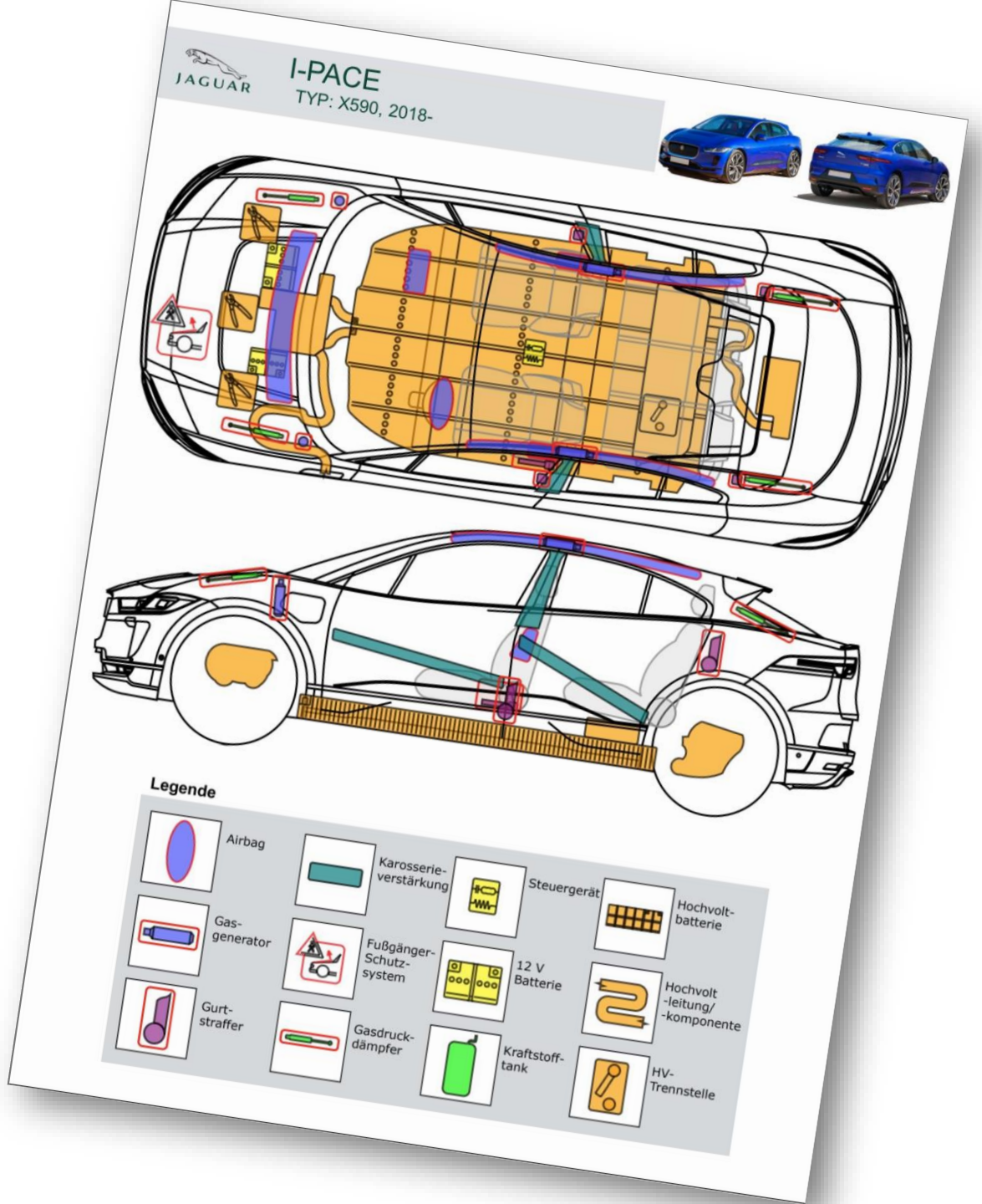
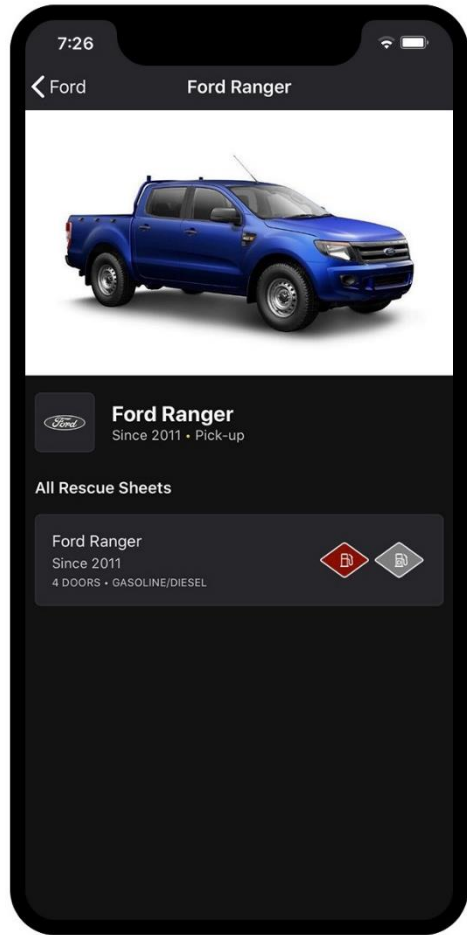
Drowsiness

Alert

- Microsleep
- Sleep

Unresponsive Driver

'ANCAP RESCUE' APP





**WHAT SHOULD FLEETS
LOOK FOR?**

AUSTRALIAN CONSUMERS & FLEETS EXPECT FIVE STAR SAFETY



ANCAP
SAFETY

TESTED
2023



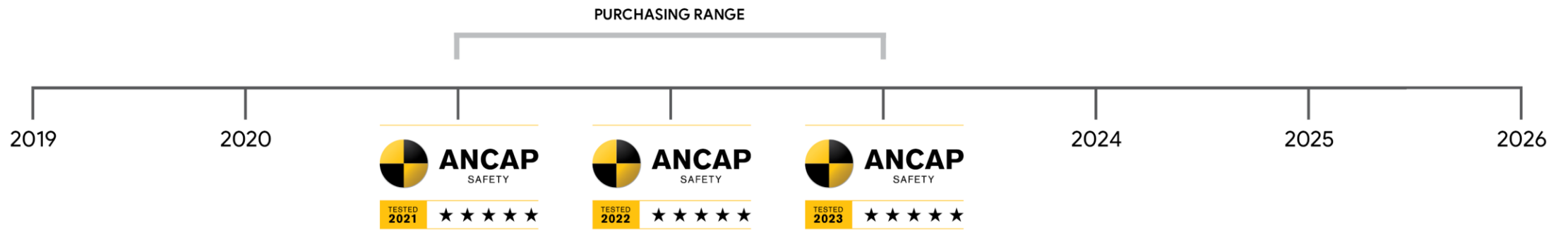
Of the 41 ratings published in 2022:

- 37 (**90%**) were 5 star
- 4 (**10%**) were 4 star
- 0 were 3 stars or less

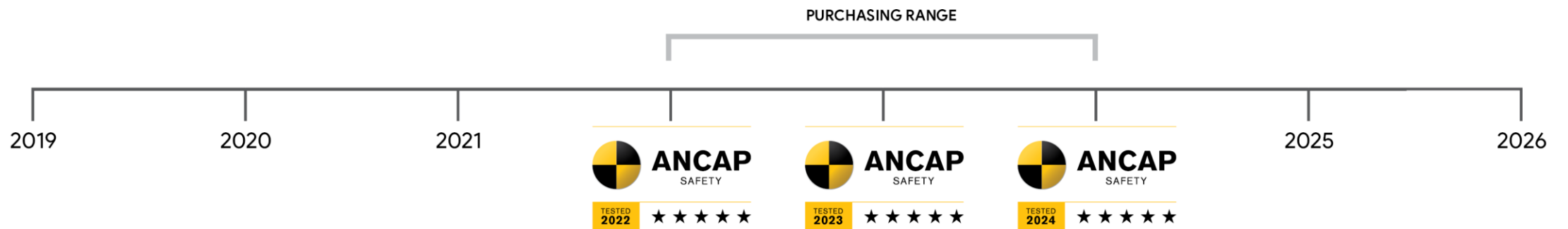
FLEET PURCHASING GUIDE



IF PURCHASING IN 2023



IF PURCHASING IN 2024





ISSUES AFFECTING SUPPLY
OPPORTUNITY FOR FLEETS



RATING VALIDITY (AKA RATING LIFE)

ANCAP RATING VALIDITY (EXPIRY)



In 2018, ANCAP adopted common test and rating protocols with Euro NCAP.

This saw the introduction of a **six year rating validity period**, where all vehicles rated by ANCAP and/or Euro NCAP from January 2018 are subject to a six year period of validity (based on its rating 'datestamp').

Once a rating has been current in the market for more than six (6) years, the rating then **expires**. Any **newly built** vehicles are '*unrated*' from that time.

This provides vehicle manufacturers with the option to:

- a) Upgrade the safety specification of that model & seek re-assessment to current rating criteria; or
- b) Remove that model from the market (replace with new generation or retire).



ANCAP RATING VALIDITY (EXPIRY)



Ratings with a **2018 datestamp (or later)** are valid for maximum of 6 years.

However, vehicles rated by ANCAP prior to introduction of common protocols with Euro NCAP in 2018 were not subject to rating expiry.

To bring vehicles with existing ANCAP safety ratings in line with current protocols/policies, from December 2022 ANCAP began **expiring** those older ratings.

- Ratings with a **2015 datestamp (or earlier) expired** as at 31 December 2022
- Ratings with a **2016 datestamp** will **expire** as at 31 December 2023
- Ratings with a **2017 datestamp** will **expire** as at 31 December 2024

BENEFITS OF RATING VALIDITY (EXPIRY)



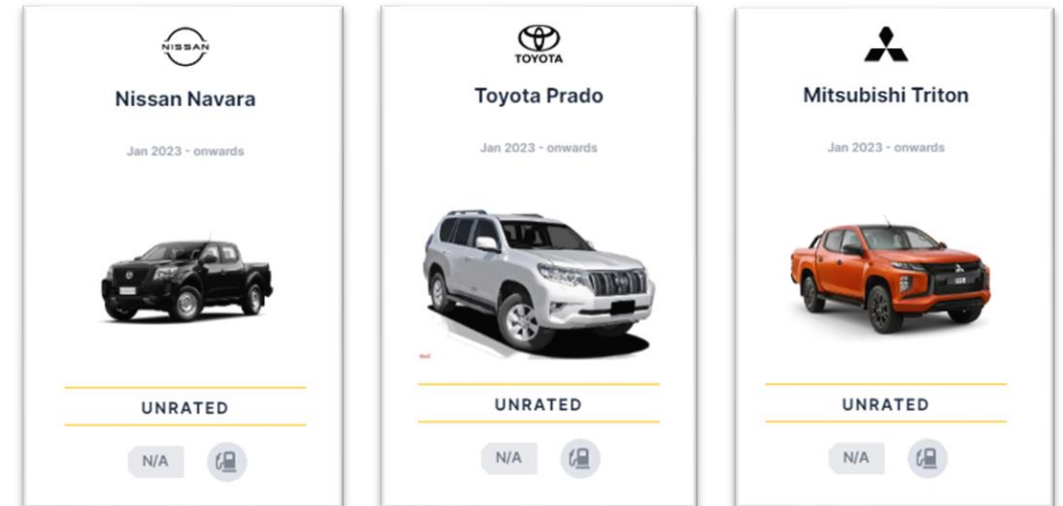
- Introduces consistency in rating validity (6 years) across all ANCAP safety ratings.
- Aligns the validity of ANCAP safety ratings with the typical average model lifecycle of passenger cars and SUVs.
- Allows consumers to more accurately compare the relative safety of vehicle models.
- Encourages manufacturers that hold models with longer product lifecycles to upgrade the safety specification of those existing models.
- Establishes clear guidance to assist manufacturers in product planning and model introduction timing.
- **Encourages fleet buyers to select models which hold a more recent datestamp and hence improved safety specification.**

EXPIRED RATINGS

NEWLY-BUILT MODELS THAT ARE NOW 'UNRATED'



- Fiat 500
- Foton Tunland
- LDV G10
- LDV V80
- Mahindra Pik-Up
- Maserati Ghibli
- Mazda 2
- Mazda CX-3
- Mini Cooper
- Mercedes-Benz V-Class
- Mercedes-Benz Vito
- Mercedes-Benz Valente
- Mitsubishi ASX
- Mitsubishi Pajero Sport
- Mitsubishi Triton
- Nissan Navara
- Renault Kangoo
- Suzuki Vitara
- Toyota Prado
- Volkswagen Passat
- Volkswagen Tiguan



Fleet buyers should prioritise the purchase of models that hold a VALID five-star ANCAP safety rating.

HELPING FLEETS & CONSUMERS





Mitsubishi ASX | Safety Rating & x +
ancap.com.au/safety-ratings/mitsubishi/asx/b01ac7

ANCAP SAFETY

Mitsubishi ASX^x Search Search by brand Help me choose

Mitsubishi ASX



Build Dates Jan 2023 - onwards	On Sale Dates Jan 2023 - onwards	Vehicle Type Small SUV
Engine/Fuel Type Petrol / diesel vehicles	Price Bracket N/A	ANCAP Safety Rating Unrated
Rating Expires Expired		


UNRATED

Nissan Pathfinder | Safety Rating x +
ancap.com.au/safety-ratings/nissan/pathfinder/8ab95b


ANCAP SAFETY

Nissan Pathfinder^x Search Search by brand Help me choose

Nissan Pathfinder



Build Dates Jul 2022 - onwards	On Sale Dates Dec 2022 - onwards	Applies To All variants
Vehicle Type Large SUV	Engine/Fuel Type Petrol / diesel vehicles	Price Bracket Various
Rating Year/Datestamp 2022	ANCAP Safety Rating ★★★★★	Rating Expires Dec 2028

 TESTED 2022 ★★★★★

EXPIRING RATINGS

EXPECTED TO EXPIRE IN DECEMBER 2023



- **Alfa Romeo Stelvio**
- **Audi Q5**
- **BMW 5 Series**
- **BMW 6 Series GT**
- **BMW iX3**
- **BMW X3**
- **BMW X4**
- **Citroen C3**
- **Ford Mustang**
- **Jaguar E-PACE**
- **Jaguar F-PACE**
- **Jeep Cherokee**
- **Kia Stinger**
- **Land Rover Discovery**
- **Land Rover Range Rover Velar**
- **Mazda CX-5**
- **Mazda CX-9**
- **Mini Countryman**
- **Mitsubishi Eclipse Cross**
- **Renault Koleos**
- **Skoda Karoq**
- **Skoda Kodiaq**
- **Subaru Impreza**
- **Toyota C-HR**
- **Toyota Landcruiser Cab-Chassis (70 Series)**
- **Volkswagen Arteon**
- **Volkswagen T-Roc**
- **Volvo XC60**

* List subject to change. Check with manufacturer.



PRIORITISING ELECTRIC VEHICLES



Safe & Green

ALTERNATIVE-POWERED MODELS
BY SAFETY RATING & POWERTRAIN



MAKE & MODEL	VEHICLE TYPE	ADULT OCCUPANT PROTECTION	CHILD OCCUPANT PROTECTION	VULNERABLE ROAD USER PROTECTION	SAFETY ASSIST	ANCAP SAFETY RATING	POWERTRAIN
Alfa Romeo Tonale	Small SUV	84%	87%	67%	80%	★★★★★ 2022	🔋
Audi e-tron	Medium SUV	91%	88%	71%	79%	★★★★★ 2019	🔋
BMW 3 Series	Medium Car	87%	87%	87%	77%	★★★★★ 2019	🔋
BMW i4	Medium Car	87%	88%	71%	82%	★★★★★ 2021	🔋
BMW iX	Medium SUV	91%	88%	73%	78%	★★★★★ 2022	🔋
BMW iX3	Medium SUV	93%	84%	70%	58%	★★★★★ 2017	🔋
BYD Atto 3	Small SUV	91%	84%	69%	80%	★★★★★ 2022	🔋
Citroen C4	Small Car	76%	81%	87%	82%	★★★★★ 2021	🔋
Cupra Born	Small Car	89%	88%	68%	80%	★★★★★ 2021	🔋
Cupra Formentor	Small SUV	90%	88%	68%	80%	★★★★★ 2022	🔋
Cupra Leon	Small Car	91%	88%	71%	80%	★★★★★ 2021	🔋
Fiat 500e	Light Car	78%	79%	67%	67%	★★★★★ 2020	🔋
Ford Escape	Medium SUV	90%	88%	82%	77%	★★★★★ 2021	🔋
Ford Mustang Mach-E	Small SUV	90%	86%	69%	82%	★★★★★ 2021	🔋
Genesis GV60	Small SUV	89%	89%	63%	88%	★★★★★ 2022	🔋
GWM Haval H6	Medium SUV	90%	88%	72%	81%	★★★★★ 2022	🔋
GWM Ora	Small Car	88%	89%	81%	85%	★★★★★ 2022	🔋
GWM Tank 300	Large SUV	82%	77%	72%	69%	★★★★★ 2022	🔋
Honda HR-V	Small SUV	88%	87%	63%	89%	★★★★★ 2021	🔋
Hyundai IONIQ 5	Medium SUV	91%	88%	71%	79%	★★★★★ 2022	🔋

🔋 BATTERY ELECTRIC 🔌 HYBRID OR PHEV ⚡ HYDROGEN FUEL CELL ELECTRIC

PAGE 2



ANCAP SAFETY RATINGS FOR
ALTERNATIVE-POWERED MODELS

MAY 2023
v1.6



SAFE AND GREEN FLEET & CONSUMER GUIDE

Environmental outcomes should not come at the cost of safety.

ANCAP is prioritising ratings for low and zero-emission vehicles – to support fleet purchasing.

Electrified vehicles (including battery electric, fuel cell and hybrid-electric vehicles) are subjected to the same ANCAP crash protection and crash avoidance tests as all other vehicles.

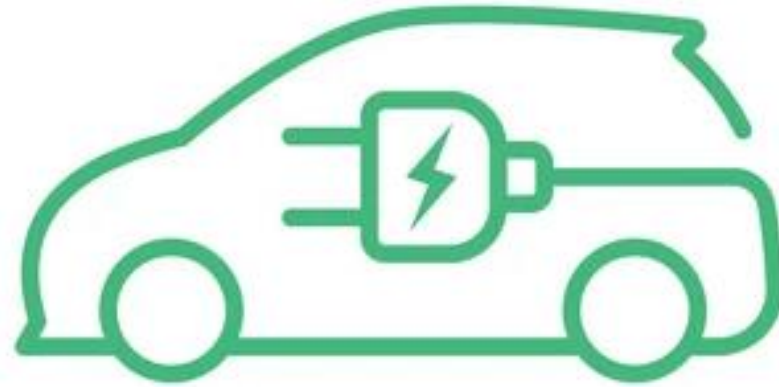
ANCAP safety ratings can be filtered by powertrain.

91% of alternative-powered models rated by ANCAP that are currently available to purchase as new hold the maximum five-star safety rating.

[ancap.com.au/safeandgreen](https://www.ancap.com.au/safeandgreen)

SAFE AND GREEN

ALTERNATIVE-POWERED MODELS WITH
FIVE-STAR ANCAP SAFETY RATINGS



LIGHT
CARS

2

SMALL
CARS

11

MEDIUM
CARS

6

LARGE
CARS

4

SMALL
SUVs

22

MEDIUM
SUVs

16

LARGE
SUVs

9

UTES
& VANS

0



**EXPANDING
FOCUS**

COMMERCIAL VAN SAFETY COMPARISON

- Focus on ADAS availability and performance.
- Market segment not previously examined by ANCAP.
- Allows fleets to make informed purchasing decisions where a star rating may not be available.
- Encourages vehicle brands to prioritise ADAS in commercial van segment.
- Laden to 50% of their carrying capacity.
- www.ancap.com.au/vans



COMMERCIAL VAN SAFETY COMPARISON
FEBRUARY 2022



COMMERCIAL VAN SAFETY COMPARISON 2022

ADAS Performance Test Results

The current model Renault Traffic ticks a number of important ADAS safety systems, including any form of AEB and LKA. A detailed speed limiter and driver seatbelt reminder are the only active safety systems fitted.

Renault Traffic
(July 2019 - onward)
All variants

Overall Performance: 11% (RECOMMENDED)

OVERALL PERFORMANCE

- PLATINUM: Equal or better than 80%
- GOLD: Equal or better than 60%
- SILVER: Equal or better than 40%
- BRONZE: Equal or better than 20%
- NOT RECOMMENDED: Below 20%

LIGHT COMMERCIAL: Vans 2500-3500kg GVM (Light Goods Vehicles - Category NA)

Vehicle	Star Rating	Overall Performance
Hyundai Staria-Load* (August 2021 - onward) Adaptive variants	5 stars	90% (PLATINUM)
Toyota HiAce* (February 2019 - onward) All variants	4 stars	77% (SILVER)
Mercedes-Benz Vito (January 2021 - onward)* All variants	3 stars	61% (GOLD)
Ford Transit Custom (September 2019 - onward) All variants	3 stars	58% (SILVER)
Volkswagen Transporter (August 2021 - onward) T6.3 van variants	3 stars	55% (SILVER)
Peugeot Expert (March 2019 - onward) All variants	2 stars	44% (SILVER)
Mitsubishi Express (June 2020 - onward) All variants	1 star	11% (RECOMMENDED)

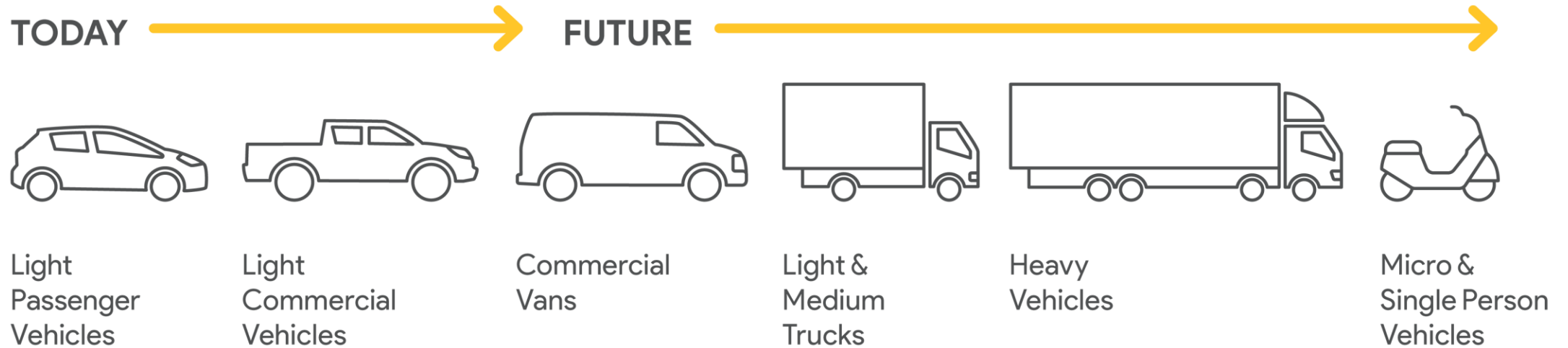
2030 ROADMAP

FUTURE VIEW ON TESTING & ASSESSMENT: An expanding focus to 2030



- Published in November 2022
- Aligned with Euro NCAP Roadmap (*Vision 2030*)
- Outlines new pillars of assessment from 2026
- Establishes 3-year protocol windows
- Explores expansion into assessment of additional vehicle types
- Available on ANCAP website: www.ancap.com.au

LEVERAGING OUR INFLUENCE

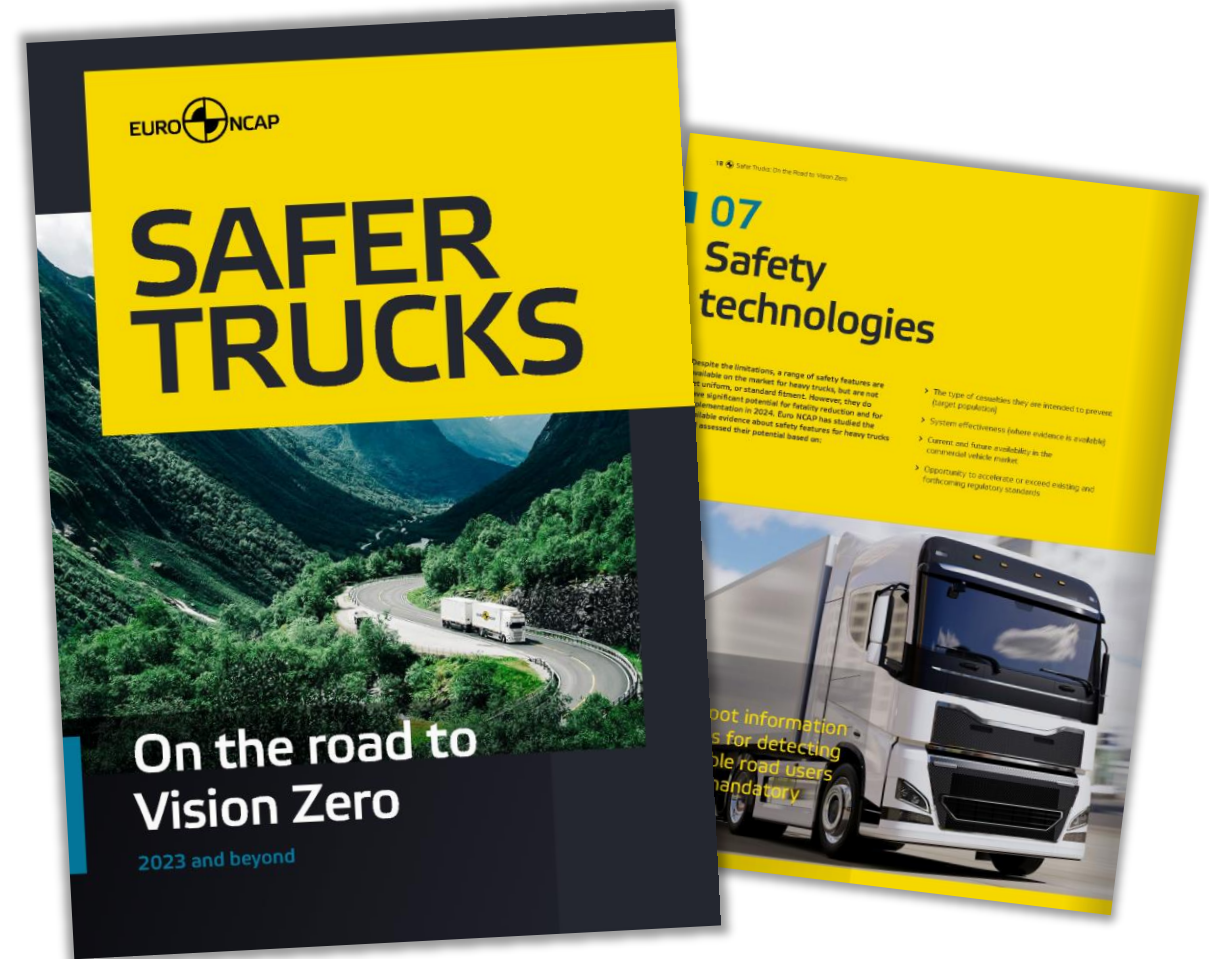


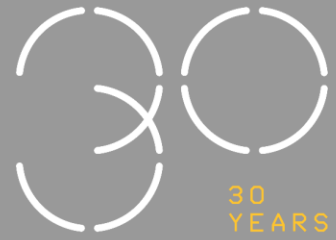
- ANCAP is looking at expanding its assessment program to cover a greater range of vehicle categories.
- Different approaches will be needed for different vehicle categories.
- Large utilities and light trucks can potentially be covered by existing (commercial van) protocols.
- Heavier vehicles may need a more nuanced approach.

EURO NCAP'S SAFER TRUCKS ON THE ROAD TO VISION ZERO



- 'Safer Trucks' paper released April 2023
- Proposes dual rating for city and highway environments
- Protocols expected Q3 2023
- ANCAP consulting with stakeholders regarding applicability to Australia and New Zealand







Audience Q&A Session [slido](#)

- Is there any plans to score common accessories. i.e., bulbar's on Hilux' etc.
- Are there plans to make the star rating system less confusing regarding time stamps? Why not just increase the stars?
- When are OEM autonomous driving systems going to be part of ANCAP's testing regime?
- Will the child monitoring detection include pets?
- Will ANCAP prioritise vehicles just over the 3.5 Tonne (e.g., Landcruiser 79 series cab chassis) in terms of compliance? The 3.5 to 4.5 T GVM is a no person's land.
- How often are the van ratings factsheet updated/published?
- How will EV conversions affect ANCAP safety ratings?
- Is ANCAP looking to update its van testing to reflect new van testing protocols noting eurocap has?
- Have you considered publishing a forecast of what models will be test over the coming months?
- What about ISA, will we see that as a requirement in AUS soon?
- When will vehicles that have had their rating expire be tested again?



Session Details

ANCAP SAFETY: New aspects for 2023 and beyond
Wed, 24/5

Safety
Breakout 1

Add session

[SESSION FEEDBACK](#)



Fleet Conference
& Exhibition
AND FLEET AWARDS

MAY 23-24
ROSEHILL GARDENS
RACECOURSE SYDNEY

Download the Cvent App



2023 Australasian Fleet Conference

LOOK FOR THE SESSION
AND CLICK THE
SESSION FEEDBACK