ANCAP: not all 5-star cars are created equal

Future requirements and fleet considerations

ANCAP SAFETY

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NRSPP Manager
ARRB Group

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Housekeeping

Webinar is = 45 mins

Question time = 15 mins

+

=

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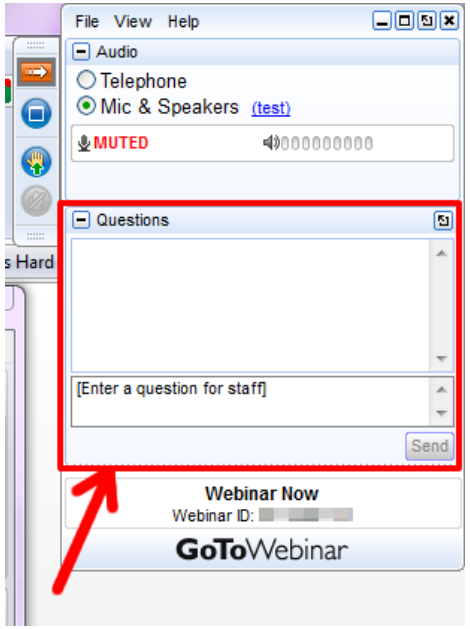
GoTo Webinar functions



Please type your questions here

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Today's presenter

James Goodwin

Chief Executive Officer
ANCAP Australasia Ltd

www.ancap.com.au

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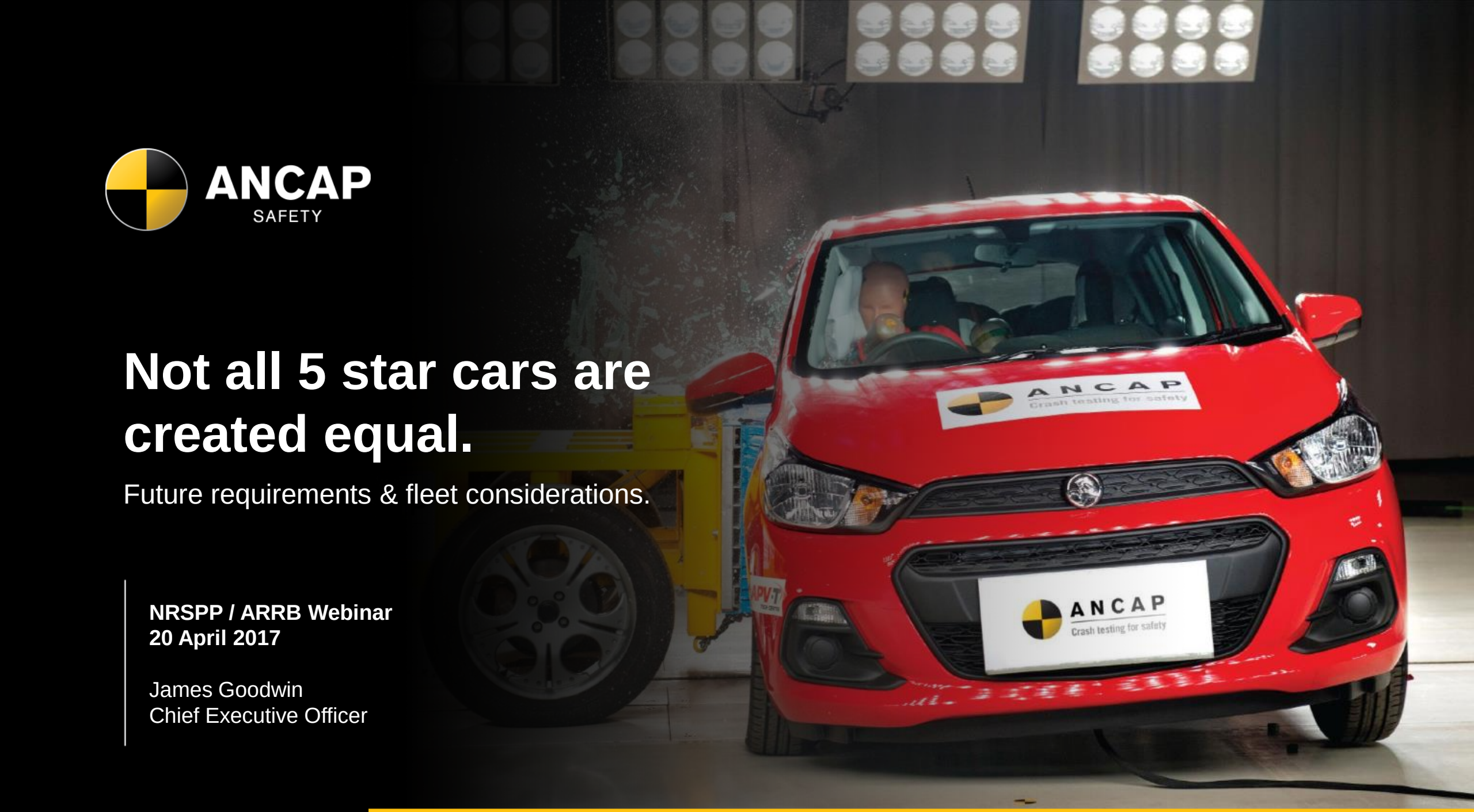
ANCAP
SAFETY

Not all 5 star cars are created equal.

Future requirements & fleet considerations.



NRSPP / ARRB Webinar
20 April 2017

James Goodwin
Chief Executive Officer

ANCAP SAFETY

The employer has a duty to take all reasonably practicable steps to protect the health and safety at work of the employer's employees.

This extends to protecting the health and safety of employees driving work vehicles for work purposes.

The vehicle is a workplace.

Occupational Health and Safety Act 2004 (Vic)

Fleet awareness & influence.

- Fleets play an **instrumental role** in the safety of our overall vehicle fleet.
- Of the **1.1 million new cars** sold each year, approximately 50% are purchased by fleets.
- Safer purchasing decisions by fleets **translates to safer cars** for general consumers at ‘end of life’.

ANCAP
SAFETY

What is ANCAP?
Why does it exist?

What is ANCAP? and why does it exist?

To eliminate road trauma through the testing & promotion of safer vehicles.

- ANCAP is an **independent**, **non-regulatory**, **consumer information** organisation:
  - provide independent, credible and easily comparable vehicle safety ratings for **consumers**.
  - encourage **vehicle brands** to include a higher level of safety in their vehicles.
- Vehicles are tested & awarded an ANCAP safety rating of between **0 to 5 stars**.
- Australian Design Rules (ADRs) specify minimum regulatory requirements. **ANCAP requirements are higher than ADRs.**

ANCAP = safety beyond regulation.

Since foundation, ANCAP has leveraged its success from its strong and dedicated membership. ANCAP's ability to effect market change and communicate its messages to a wide base of stakeholders is a direct result of its solid member backing and their continued support.

Supported by

twenty three

member organisations across
Australia & New Zealand.

Australian Automobile Association
AA New Zealand
NRMA
RAC For the better
RACQ
RAA
FIA FOUNDATION
Tasmanian Government
Northern Territory Government
Queensland Government
NZ TRANSPORT AGENCY WAKA KOTAHI
Department of Transport
Australian Government
iag
ACT Government Justice and Community Safety
ROAD SAFETY COMMISSION
TAC
NSW Government Transport for NSW
Government of South Australia Department of Planning, Transport and Infrastructure
RACT
RACV
vicroads

Questions

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ANCAP
SAFETY

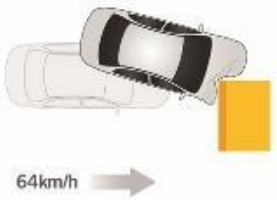
Vehicle selection & the test process.

Vehicle selection.

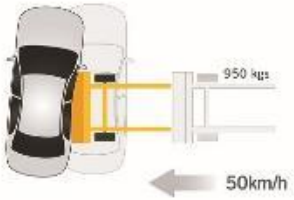
- ANCAP generally selects **popular-selling** models for testing (biggest influence on the market):
    - highlight unusually **good** or **poor performers**
    - **new vehicle brands** entering the market
    - some models put forward for assessment by vehicle brands
- Purchased or selected at **random**.
- **Lowest** safety specification, **unmodified**.
- With information from manufacturers, ANCAP can **extend a rating across certain variants** within that model range.

Current tests & assessments.

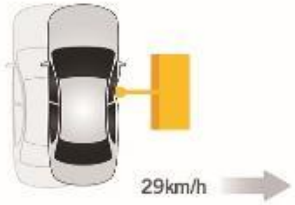
Current:



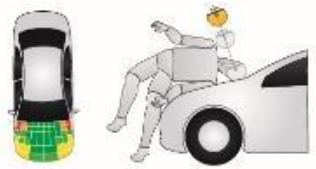
Frontal Offset Test



Side Impact Test



Pole Test



Pedestrian Protection Test

Whiplash Test

SAT Assessment

64

SUZUKI VITARA (2015 - onwards)

5 STAR ANCAP SAFETY RATING

ANCAP
Safety ★★★★★
TESTED 2015

MAZDA MX-5 (September 2015 - onwards)

5 STAR ANCAP SAFETY RATING

ANCAP Safety ★★★★★ TESTED 2016

NISSAN NAVARA NP300 (July 2015 - onwards)

5 STAR ANCAP SAFETY RATING

ANCAP Safety ★★★★★ TESTED 2015

ANCAP
Crash testing for safety
40

16
2015 Mazda
MX-5
SER16017
ANCAP
Crash testing for safety
IIHS
Insurance Institute for
Highway Safety

Questions

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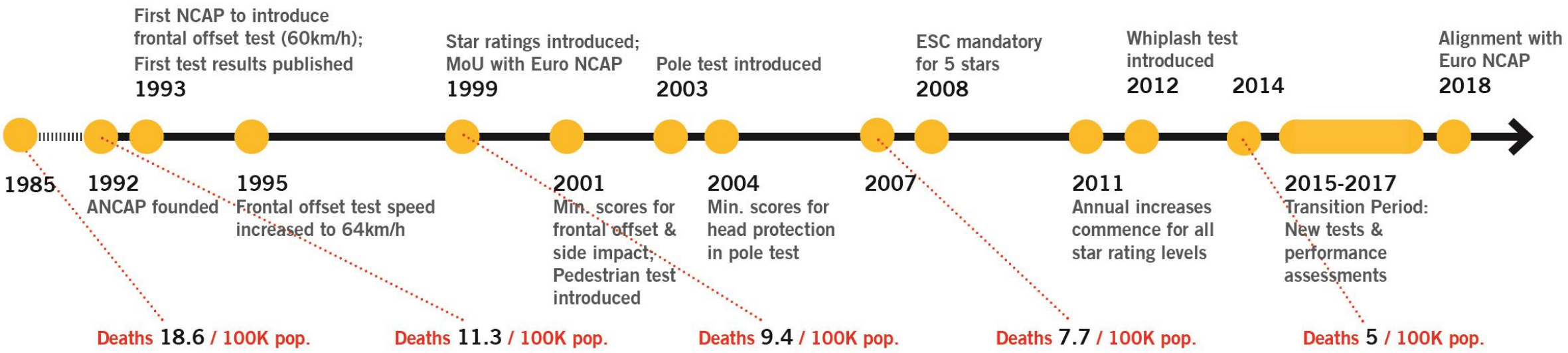
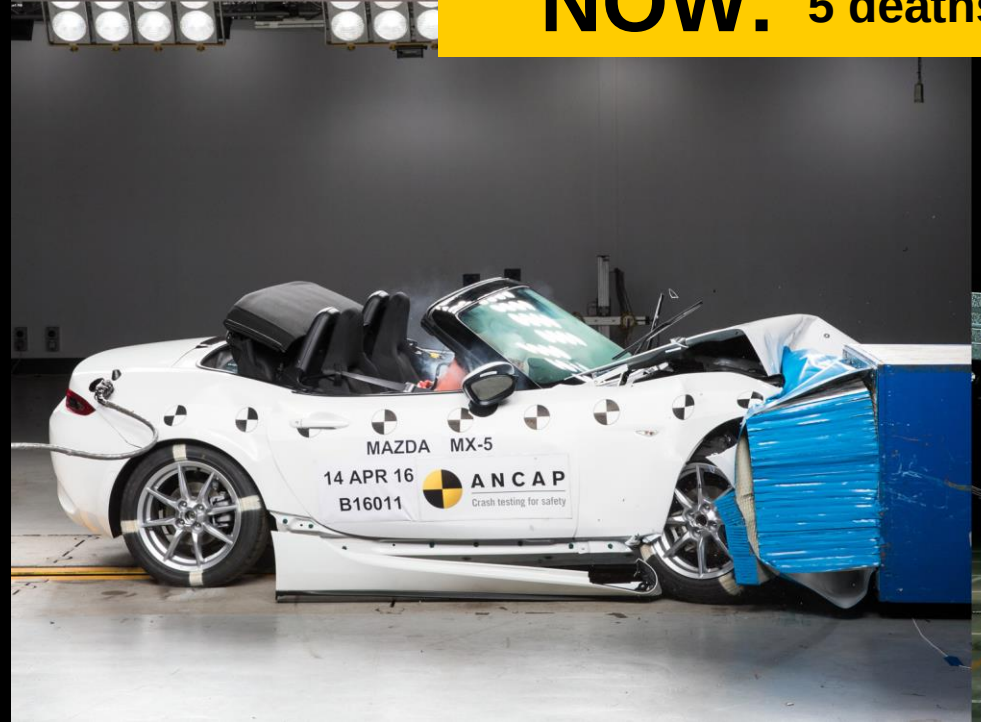
ANCAP evolution.



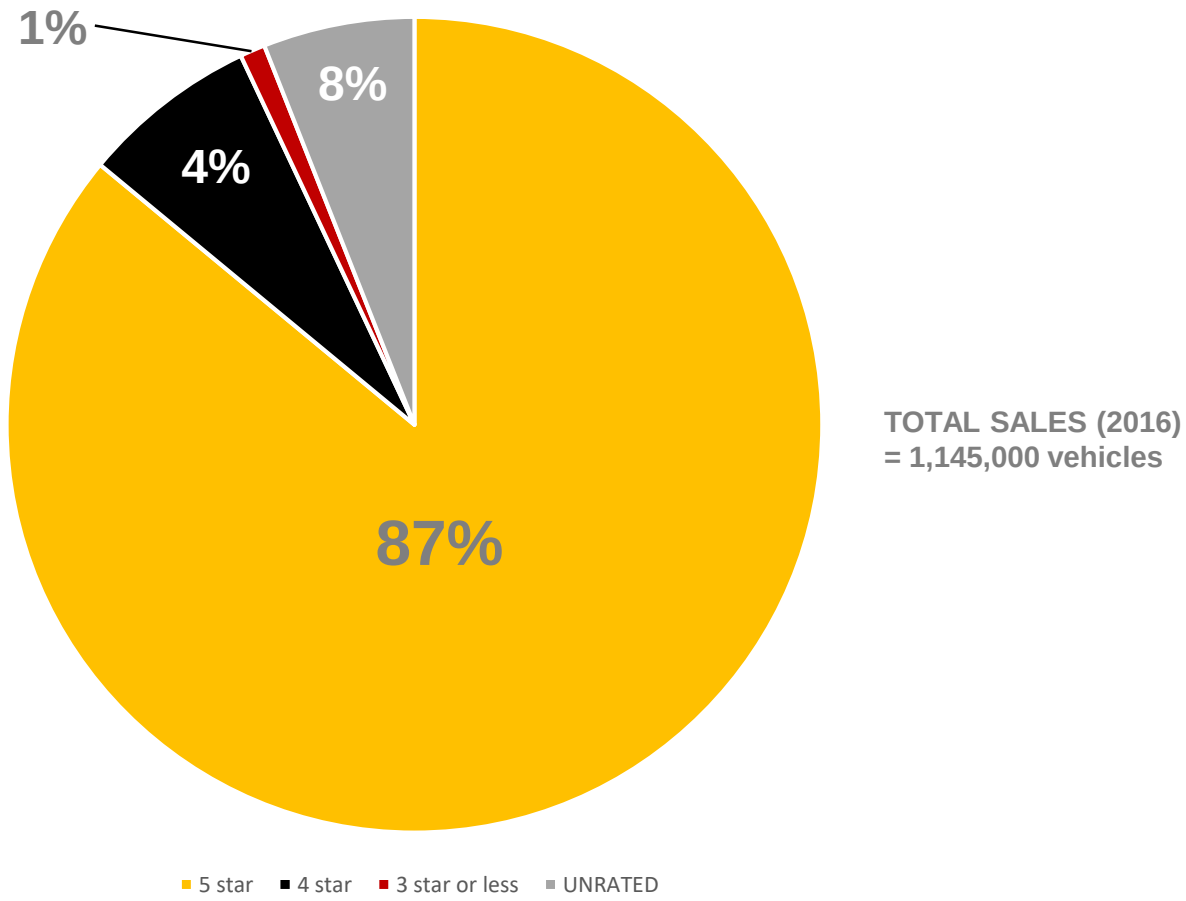
THEN: **>10 deaths per 100,000 population**

NOW: **5 deaths per 100,000 population**



Market penetration.

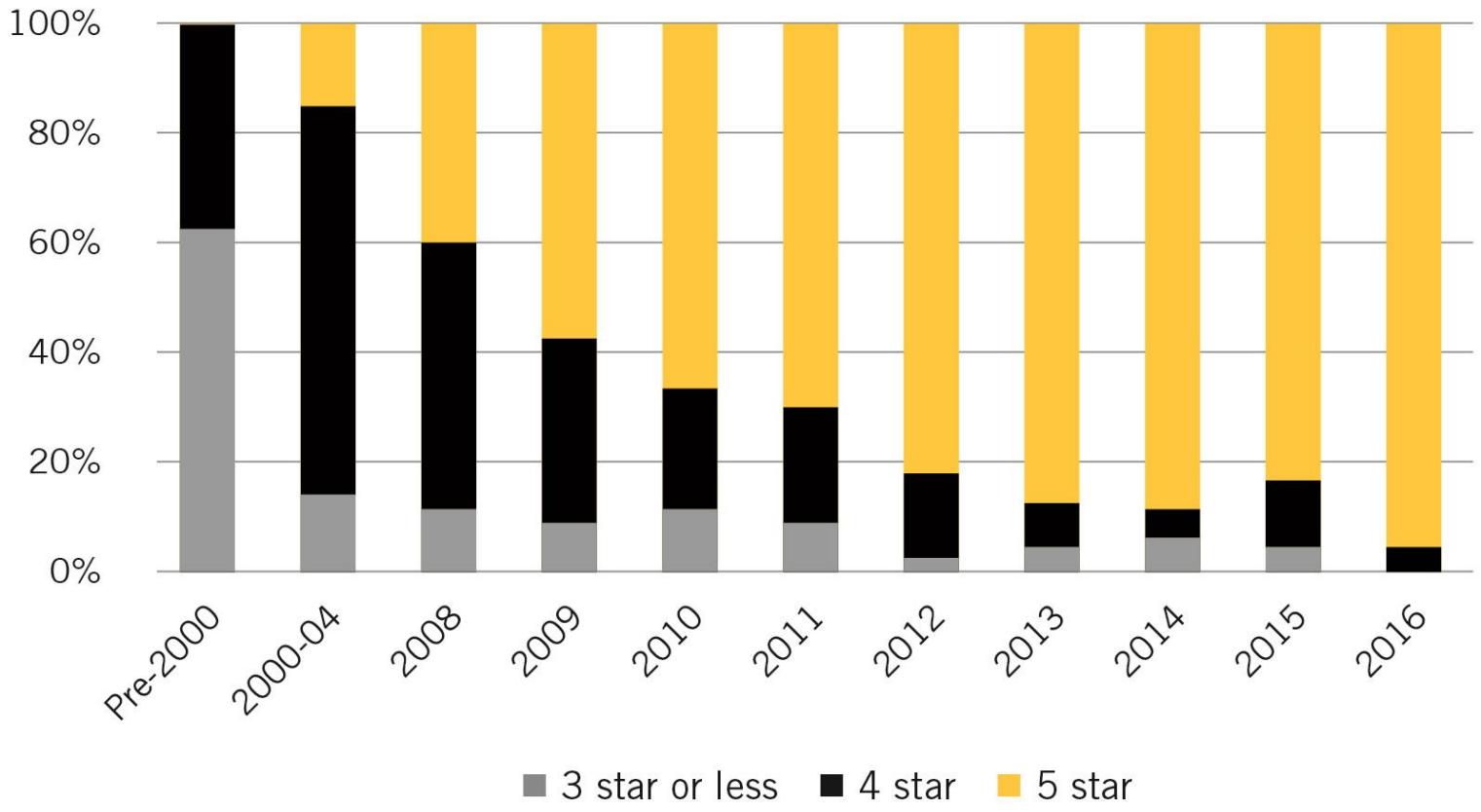
92% of the new vehicle fleet is covered by an ANCAP safety rating.



TOTAL SALES (2016)
= 1,145,000 vehicles

Source: ANCAP & VFACTS New Vehicle Sales Data, 2016

Published ratings.



95% of vehicles rated by ANCAP in 2016 achieved 5 stars.

The shift.

Previously, **passive safety** test performance
(physical crash test results) differentiated the **good** from the **bad**.

Then & Now

2001

2015

This differentiation point has shifted now to
active collision avoidance technologies.

Questions

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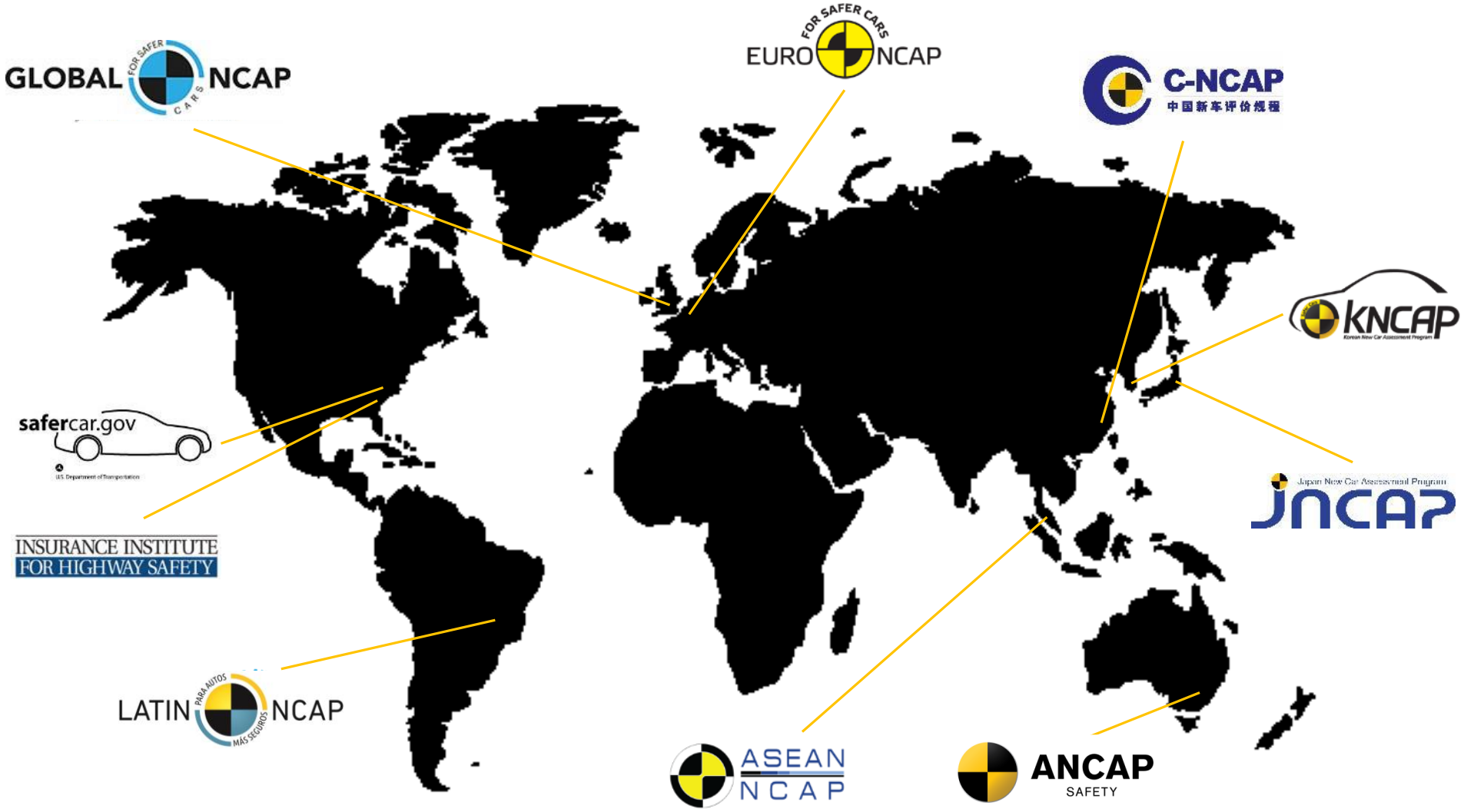
Future tests & assessments.

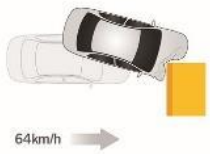
NCAPs worldwide.

ANCAP SAFETY

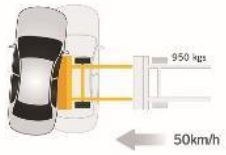


Tests & assessments.

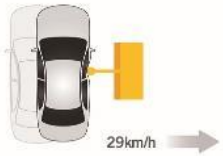
Current:



Frontal Offset Test



Side Impact Test



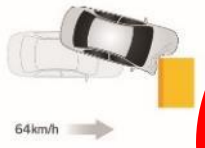
Pole Test

Pedestrian Protection Test

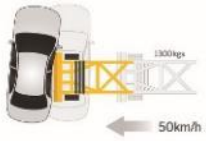
Whiplash Test

SAT Assessment

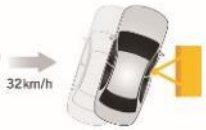
From 1 January 2018:



Frontal Offset Test



Side Impact Test (AE MDB)



Oblique Pole Test

Pedestrian Protection Test

Whiplash Test

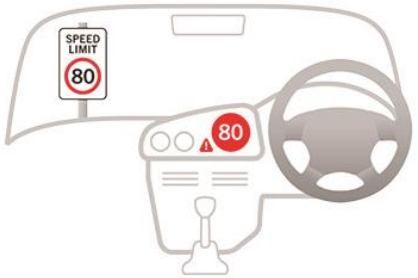
Full Width Frontal Test

SAT Performance Testing

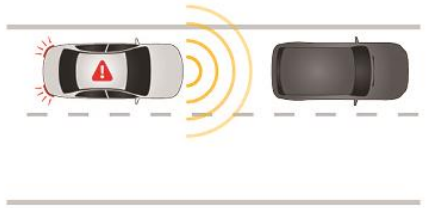
Child Occupant Protection

Safety assist technologies.

The **performance / effectiveness** of the following driver assistance technologies will form part of the ANCAP rating process from 2018:



Speed Assistance Systems (SAS)



Autonomous Emergency Braking (AEB)

Lane Support Systems (LSS)

Thatcham
Research

AEB: What are the safety benefits?

- **38% reduction** in real world rear end crashes.
  ANCAP, Euro NCAP, DoIRD research by B. Fildes, 2015

- Est. **20-25% reduction** in fatal crashes.
  Centre for Automotive Safety Research, 2013

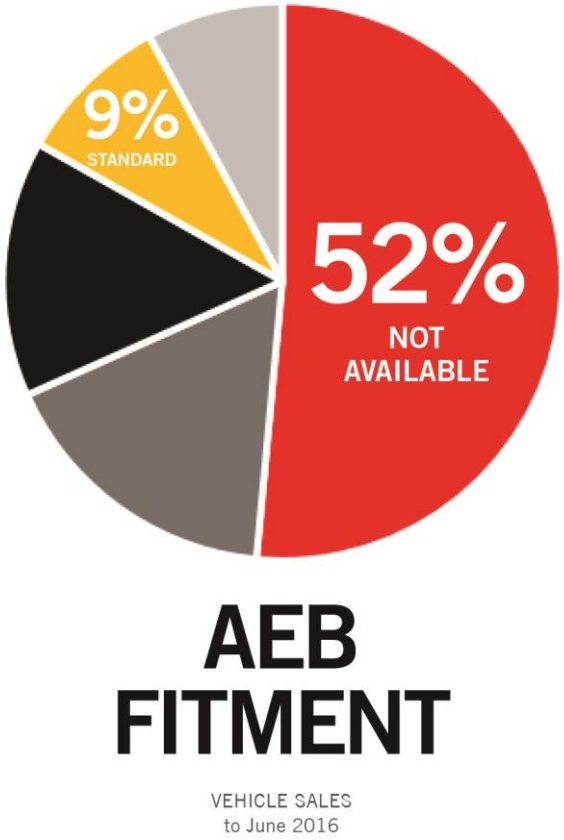
- **27% reduction** in fatal crashes.
  Euro NCAP, 2012

- Reduces the risk of real world rear end crashes in
  - **metro** areas by **54-57%**
  - **all** areas by **35-41%**
    ICROBI study by M. Rizzi, A.Kullgren, C. Tingvall, 2014

How ‘available’ is AEB?

40% of new car buyers rated autonomous technologies such as **autonomous emergency braking (AEB)** and **blind spot monitoring (BSM)** as safety must-haves.

However, only 13 of the top 100 selling models in Australia offered AEB as standard (9% of all sales).



Questions

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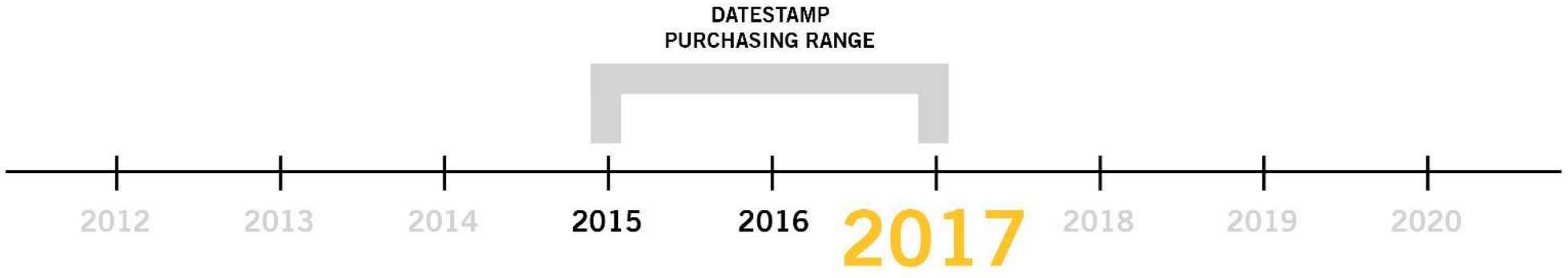
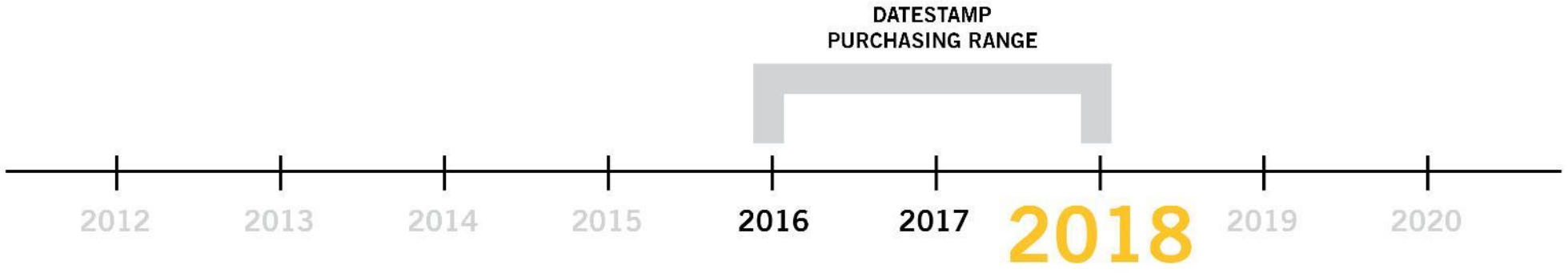
What should you look for?

Ratings are datestamped.

Fleet purchasing consideration.





You choose...

ANCAP SAFETY

ANCAP Safety ★★★★★ TESTED 2011

ANCAP Safety ★★★★★ TESTED 2014

ANCAP Safety ★★★★★ TESTED 2016

You choose...

ANCAP SAFETY

ANCAP Safety ★★★★★ TESTED 2011

ANCAP Safety ★★★★★ TESTED 2014

ANCAP Safety ★★★★★ TESTED 2016

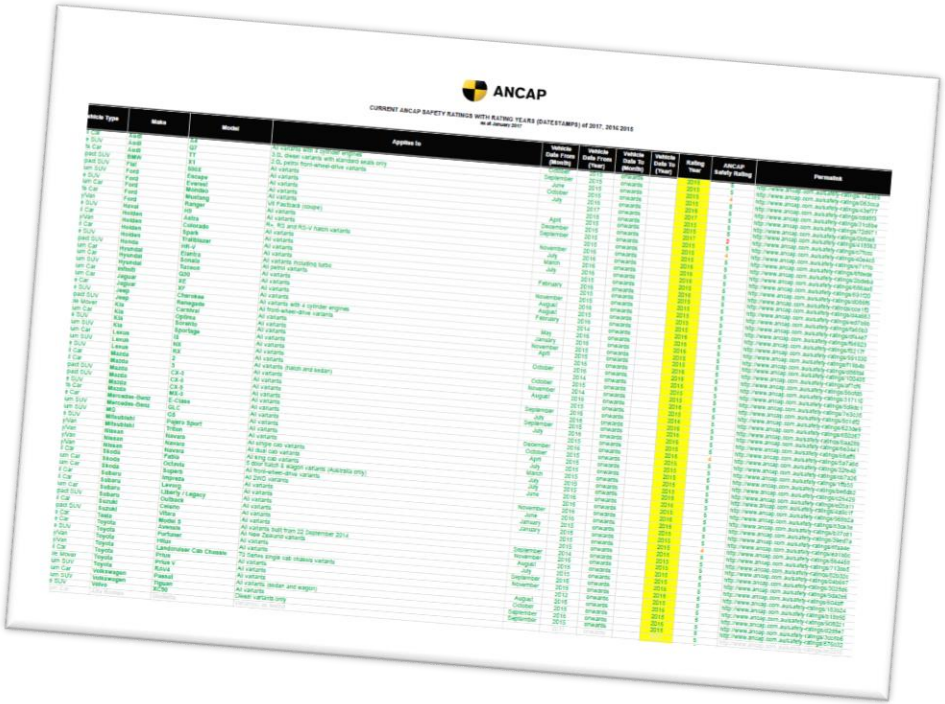
Local market applicability.

No ‘NCAP’ rating applies in Australia / New Zealand unless or until it is published by ANCAP.

- Key to this is **vehicle specification**.
- **Identical** specification =
  - Euro NCAP test results utilised
  - Published / branded as an **ANCAP safety rating**
- **Differing** specification =
  - Technical evidence required from vehicle brand; *or*
  - Additional local testing required; *or*
  - Vehicle left ‘unrated’.

Availability of 5 star cars from 2018.

- Increasingly stringent criteria may see some adjustment in the ratings mix in coming years.
- However, vehicle brands acknowledge the ‘value’ and competitive advantage of a 5 star car.
- Responsible brands are keeping pace.
- Of the 233 ‘current’ ANCAP safety ratings:
  - **65 models** have been rated to the **most recent criteria*.**
  - **92%** (60) of these **held a 5 star ANCAP safety rating**.



** 2017, 2016 or 2015 datestamp.*

Questions

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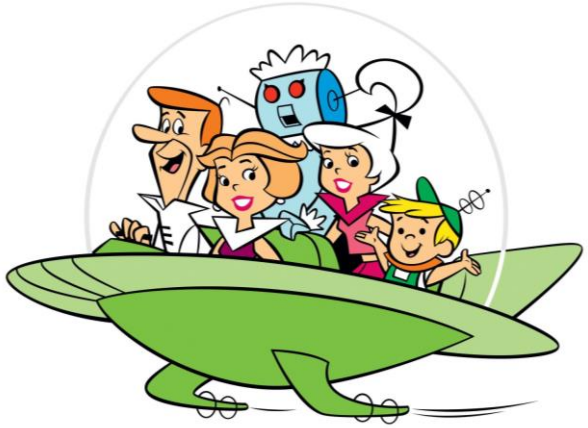
What does the future hold?

What is the car of the future?

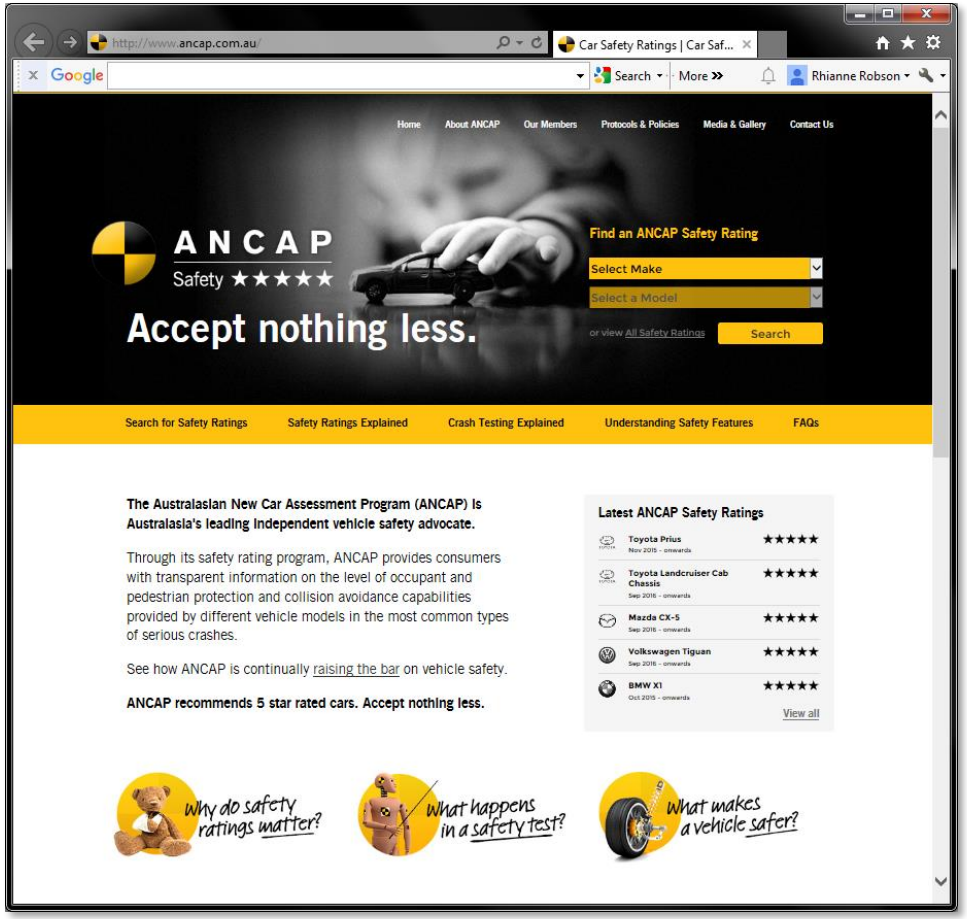


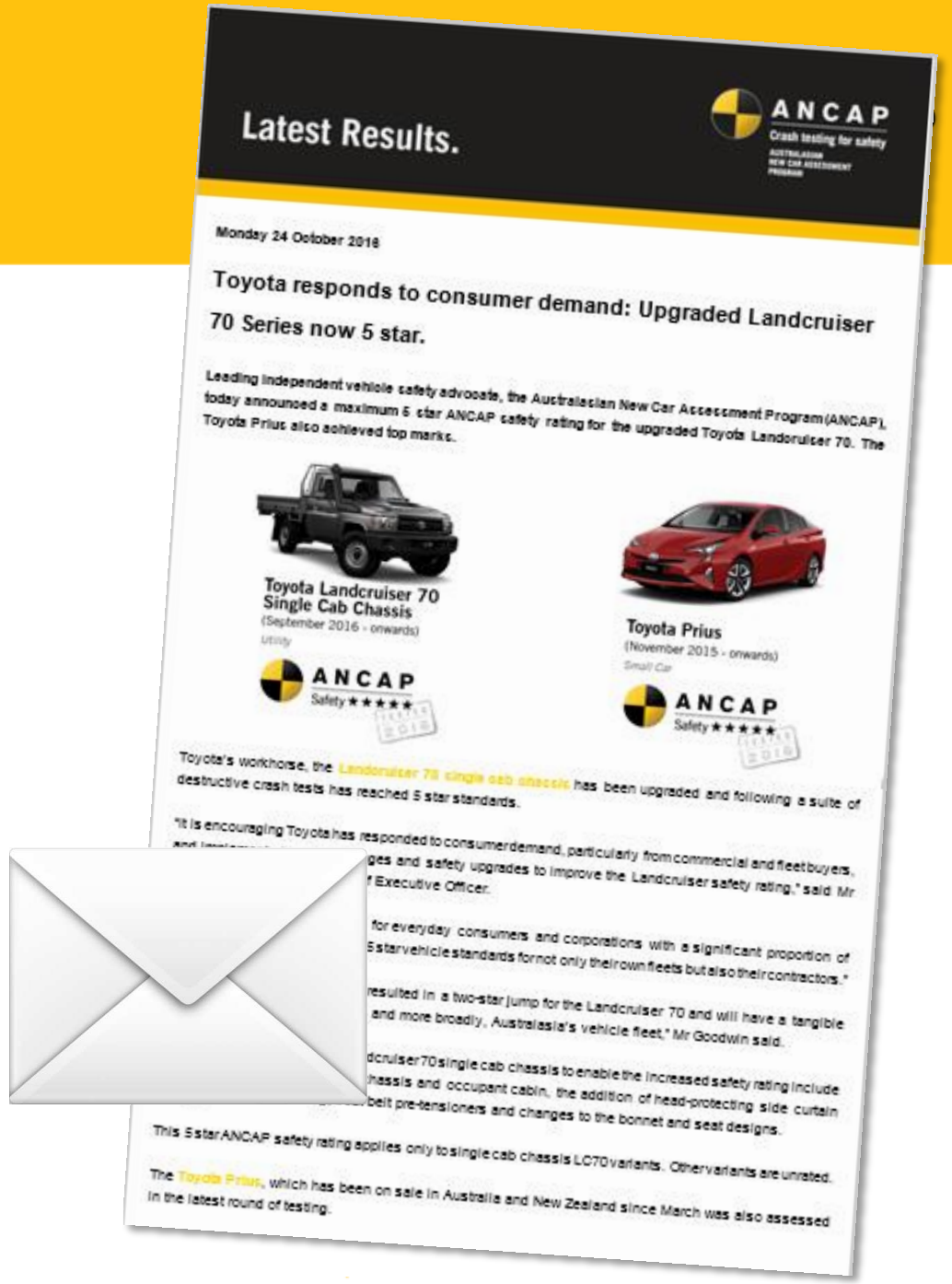
Cars of the future.

The “future” car will most likely look very similar to the cars we are driving today…

…with autonomous technology.

Stay informed.





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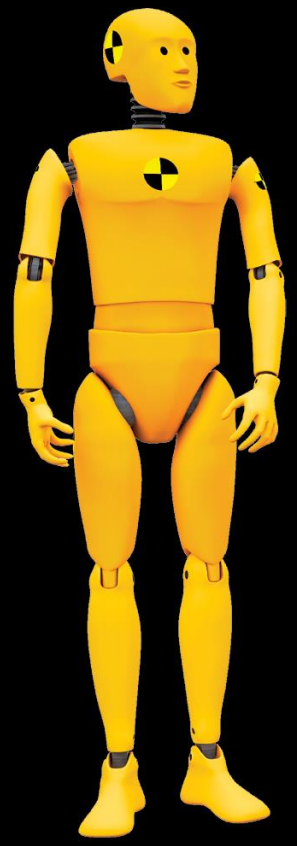

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Thank you for your participation today

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Road Design 101 online series

Thu, Apr 27

2:00 PM - 3:30 PM AEST

Meets 5 times

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