

#Fit Safety as Standard

ETSC new film makes the case for Intelligent Speed Assistance on all new vehicles in Europe

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ETSC Network

NEW ETSC report

ETSC PIN Flash 30, March 2016
HOW SAFE ARE NEW CARS SOLD IN THE
EU? AN ANALYSIS OF THE MARKET
PENETRATION OF EURO NCAP-RATED CARS

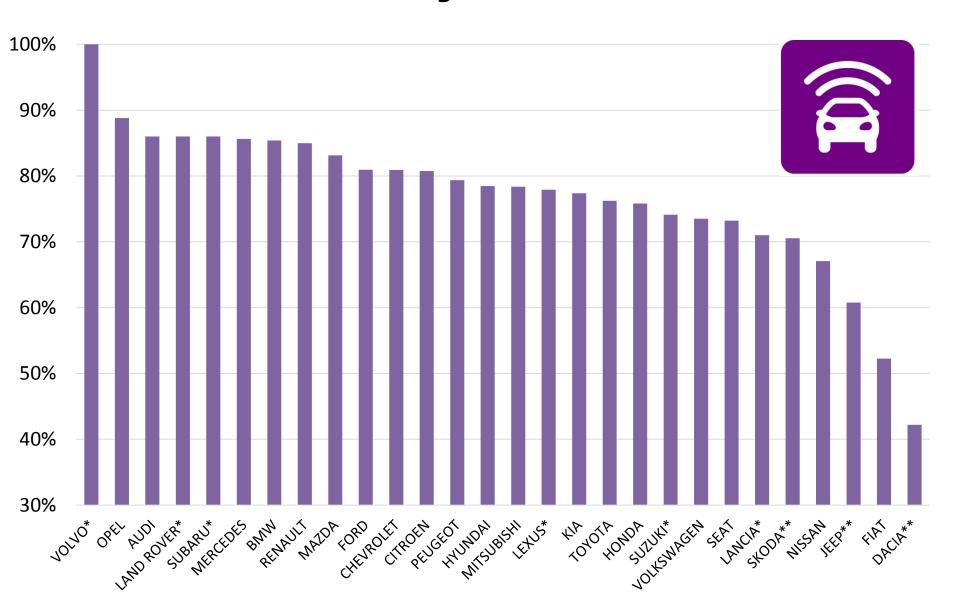


- Improvements in vehicle safety have contributed to reduction in deaths and serious injuries
- Yet vehicle safety innovations are still benefitting too few road users in Europe
- Over-reliance on a voluntary testing programme rather than regulatory standards.

http://etsc.eu/europes-car-safety-framework-needs-overhaul/

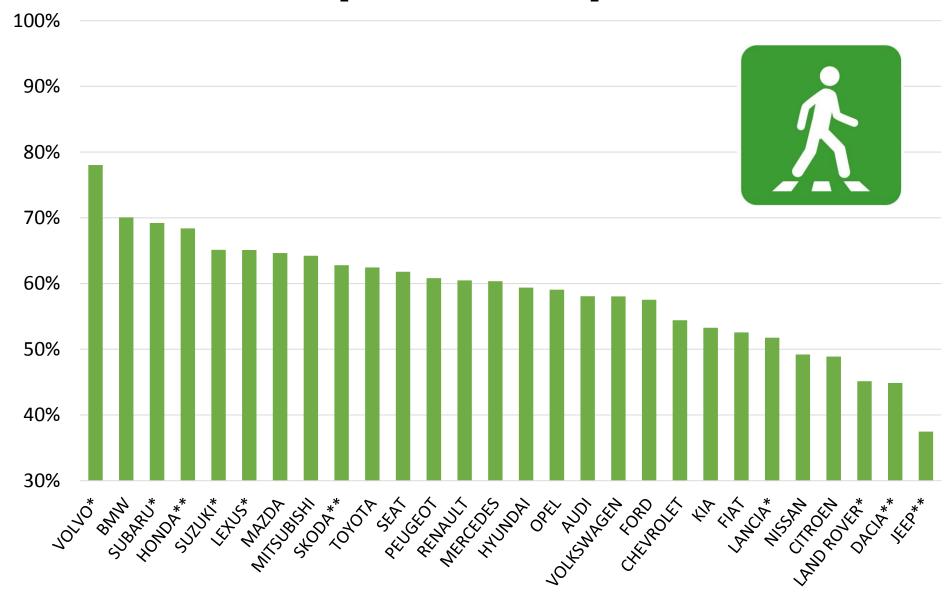
Average score by manufacturers

- Euro NCAP safety assist tests



Average score by manufacturers

- Euro NCAP pedestrian protection tests



VEHICULE SAFETY STANDARDS

- Exclusive competence of the EU (Article 114 of the EU Treaty)
- Last revision of the EU common vehicle safety rules in 2009 with the General Safety Regulation 661/2009 and Pedestrian Protection Regulation 78/2009
- New revision is coming: we need your support!

VEHICLE SAFETY - ETSC PRIORITIES linked to the three main killers



Overridable assisting ISA on all vehicles



 Alcohol interlocks on professional vehicles and a standard interface for all vehicles



Seat belt reminders for all passenger seats



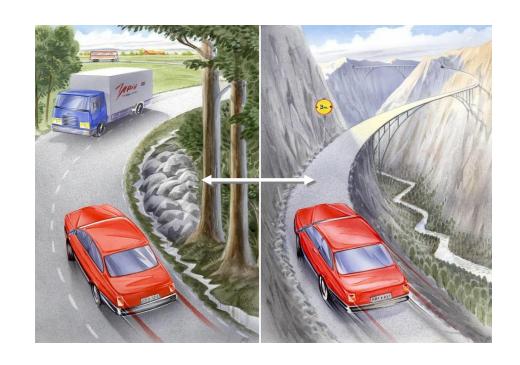


 Event Data Recorders (and require the data to be made available for accident investigation)

We know a lot about speed and risk

"Speed remains a very important risk factor. It has a greater effect on the number of accidents and injury severity than almost all other known risk factors."

Rune Elvik, The Power Model of the relationship between speed and road safety: Update and new analyses (2009)



Speeding used to be glamour



Sixt old posters
"There are many cars. Try overtakifew".





INTELLIGENT SPEED ASSISTANCE

ISA COULD CUT COLLISIONS BY 30% AND DEATHS BY 20%





EuroNCAP awards extra points to cars fitted with ISA



78% of road users 64% of car drivers say they support in-vehicle speed limiters (SARTRE 2012)



ETSC film

https://www.youtube.com/watch?v=SoZLrZTnUGs

• The film includes a demonstration of the system by Oliver Carsten of the University of Leeds in a production Ford Galaxy factory-fitted with ISA.

It also features expert contributions from

- Aled Williams of Euro NCAP
- Dr Áine Carroll a leading expert in post-crash rehabilitation,
- Koen Ricour of the European Traffic Police Network TISPOL and
- Ellen Townsend of ETSC.

Evaluation study report

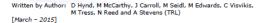


Benefit and Feasibility of a Range of New Technologies and Unregulated Measures in the fields of Vehicle Occupant Safety and Protection of Vulnerable Road Users

Final Report

The European Commission commissioned the Transport Research Laboratory (TRL, in the UK) to:

- assess feasibility of a range of new technologies
- for possible inclusion in the revised regulations on vehicle safety (General Safety and Pedestrian Protection)
- Report published in March 2015





TRL Evaluation study on GSR

Active Safety					
Code	Measure	Feasible?	BCR	Legislate?	Recommendations/Notes
AEB	Expansion and enhancement of AEB, BAS and LDW to avoid or mitigate collisions, including inter-urban, city and those with VRU	✓	~1	•	Greatest casualty benefit for AEBS is for M1 then N1 vehicles, although cost-benefit less clear than for N2/N3. System cost estimates suggest 'city safety' systems may be getting to the breakeven cost point
ISA	Speed limiters controlled by road speed limit (speed assist, intelligent speed adaptation)	✓	>1	•	BCR>1 for 6 Member States, for voluntary activation (switched on/off by the driver) and mandatory activation, and public acceptability of the systems considered to be growing. BCR higher for mandatory activation system, but both have positive BCR

Positive Benefit / cost ratio (BCR)
Public acceptability growing
Rated green for legislation

Comparison of predicted outcomes

GB collisions from 2010 to 2070

ISA GB trial 2011-2006 Oliver Carsten

	Slight collisions	Serious collisions	Fatal collisions
Market Driven scenario	4%	8%	13%
Regulation scenario	15%	25%	30%

- Benefit to cost ratios (accidents + fuel + CO₂):
 - Market Driven scenario 3.4
 - Regulation scenario 7.4

Much of the potential of ISA, e.g. to replace traditional and costly traffic calming, was not counted

CONCLUSIONS

- ISA is a well-proven technology with very significant safety benefits
- ISA is a building block for automated cars
- Regulation is necessary to maximise the impact of ISA on casualties reduction
- Require all new vehicles to be fitted with ISA system: overridable, assisting and switched on by default

#SafetyAsStandard

ISA in reality

 Several vehicles currently in showrooms already feature the technology including the Ford S-Max and Galaxy and Volvo XC90.





 Euro NCAP awards additional points to cars fitted with Speed Assist Systems. In 2015, 38 cars tested.
 Only 3 had no SAS

http://www.euroncap.com/en/vehicle-safety/the-rewards-explained/speed-alert/

Some recommendations to EU countries

 'Be the market' for safety: buy, lease or rent only 5-star cars with ISA



 Include strict criteria for safety (4 or 5-star NCAP cars) to green car tax schemes.