Why a Safe System?

David Ward Secretary General Global New Car Assessment Programme



3 October 2016 International Transport Forum Paris France









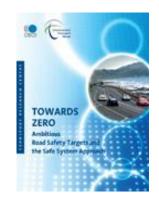
A Global Opportunity for A Visionary Approach

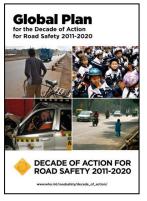
There is now a strong global mandate for the Safe System approach to road injury prevention.

The Safe System Approach was first endorsed by the OECD/ITF in their 2008 Towards Zero report and has been used to formulate the structure and recommendations of the Global Plan for the United Nations (UN) Decade of Action (2011-2020).

Implementation of the Global Plan has been endorsed by both the 2nd High Level Global Conference on Road Safety held in Brasilia last November and by the UN General Assembly in April (A/Res/70/260).

The inclusion of road safety in the Sustainable Development Goals for health and cities with a target to halve the number of global deaths and injuries from road crashes by 2020 is the UN's strongest ever commitment to road injury prevention.















Why The Safe System?

As simple as A, B, C,

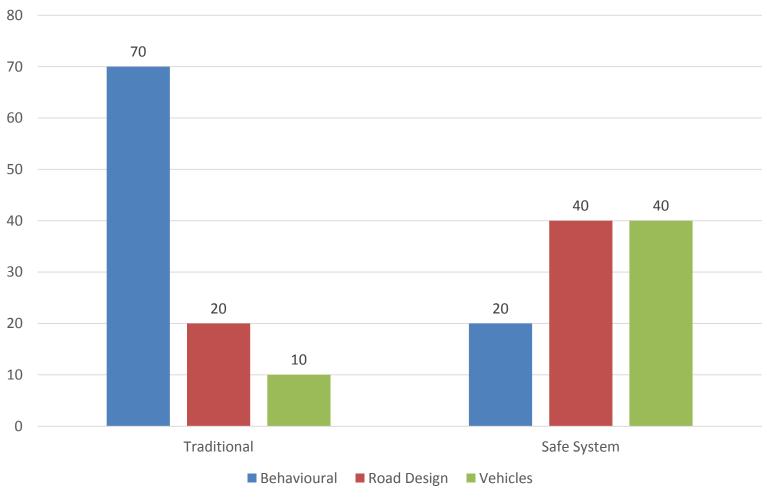
- Avoids default to primary reliance on behavioural measures.
- Builds technology and infrastructure that aims to 'hard wire' sustainable road safety.
- Challenges public lack of demand for safety, poor perceptions of risk, and tolerance of road trauma.
- **D**emands constant improvement (as no level of death is acceptable) so reducing the risk of policy fatigue and complacency.
- Engages all stakeholders in a co-operative, transparent, and shared strategy.
- Future orientated as it encourages innovation and integration of technologies promoting road injury prevention.





Policy Instrument Burden Sharing: 'Traditional' vs Safe System









The Challenges & Opportunities of Policy Rebalancing

Behavioural measures (primarily enforcement) have an immediate impact but are costly and hard to sustain.

Infrastructure measures require 'up front' investment but can achieve permanent reductions in road injury.

Vehicle measures can secure permanent improvements but take at least fifteen years to fully penetrate the vehicle fleet.

Increasingly integration opportunities exist across these three pillars. Overall the ambition should be to gradually reduce the reliance on behavioural instruments.

Shared 'road maps' are needed to encourage a rebalancing of policy instruments in support of a safe system and zero fatalities.











Global NCAP's 2020 Vision...

In 2015 from a total of 68 million new cars as many as 25% fail to meet UN minimum safety standards, lacking air bags, anti-lock brakes, or electronic stability control.





By 2020 at the latest Global NCAP wants all new cars to meet UN crash test standards with air bags, ABS and FSC fitted as standard.

This needs government action to apply UN vehicle safety standards more widely and greater effort to stimulate customer demand for safer motor vehicles.





UN Forum for Harmonization of Vehicle Regulations



The Global Plan supports wider application of the most important global standards available under the 1958and 1998 agreements of the UN World Forum for Harmonisation of Vehicle Regulations (WP29).*

These are:

Reg. 14	Seat belt anchorages

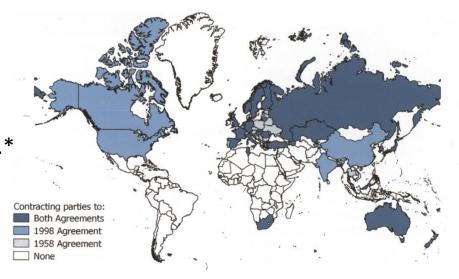
Reg. 16 Safety belts & restraints

Reg. 94 Frontal collision Reg. 95 Lateral collision

Reg.13H (GTR 8) Electronic stability control

Reg.127 (GTR 9) Pedestrian protection

Reg. 44/129 Child restraints









^{*}or equivalent national standards (eg: FVMSSs)

WHO Global Road Safety Status Report 2015 - Vehicle Safety

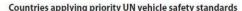
The 2015 Status Report:

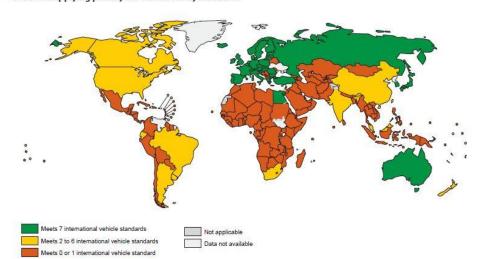
- Reveals "worrying data" showing that only 40 out of a total of 193 UN Member States fully apply the seven most important UN safety regulations and these are overwhelmingly highincome countries.
- Says "there is an urgent need for these minimum vehicle standards to be implemented by every country".
- Warns that "regulations helping to protect occupants withstand front and side impact crashes are poorly implemented globally" and also calls for mandatory fitment of electronic stability control.











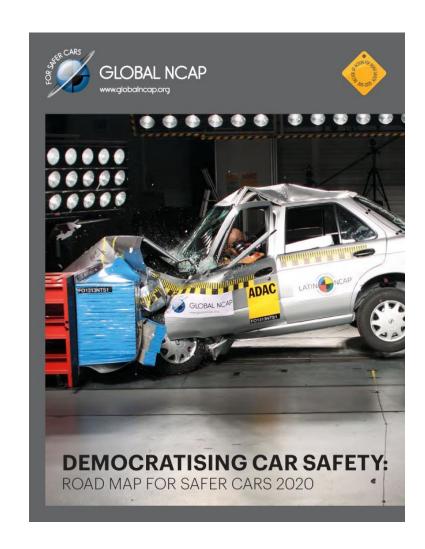




Democratizing Car Safety: A Road Map for Safer Cars 2020

Global NCAP's Road Map for Safer Cars was launched in March 2015 and :

- Calls for the combination of stronger consumer information and universal application of minimum UN standards for crash protection and avoidance.
- Ten key recommendations including the application to all new cars of the UN's front, side and pedestrian impact crash tests and the anti-skid system, electronic stability control, by 2020 at the latest.
- Global NCAP updated the Road Map in November 2015 to include Automatic Emergency Braking and anti-lock brakes in motorcycles.







	Road Map for Safer Vehicles 2020 UN Regulations* for:	All New Vehicles Produced or Imported	All Vehicles Produced or Imported
CRASH TESTS	Frontal Impact (No.94) Side Impact (No.95)	2016	2018
SEAT BELTS	Seat Belt & Anchorages (No.14 & 16)	2016	2018
ELECTRONIC STABILITY CONTROL	Electronic Stability Control (No. 13H / GTR. 8)	2018	2020
PEDESTRIAN SAFETY	Pedestrian Protection (No.127 / GTR. 9)	2018	2020
ANTI-LOCK BRAKES	Motorcycle Anti-Lock Brakes (No. 78 / GTR. 3)	2016	2018
AUTONOMOUS EMERGENCY BRAKING	Autonomous Emergency Braking Systems	Highly Recommended	Highly Recommended





Crash Avoidance Systems Starting Going Global

Three key crash avoidance systems are today's priority technologies for passenger cars, buses, commercial vehicles and motor cycles:

Electronic Stability Control (ESC) anti-skid system with capacity to reduce up to 40% of run-off road crashes. Now mandatory in most high income countries.

Autonomous Emergency Braking (AEB) automatically applies the brakes if the driver does not react and can cut collisions at low speed by 20%. Pedestrian systems are also appearing and will become an important injury prevention technology.

Motorcycle Anti-lock Brakes (ABS) improves stability and braking performance. Motorcycles equipped with ABS have rate of fatal crashes 37 per cent lower than same models without.



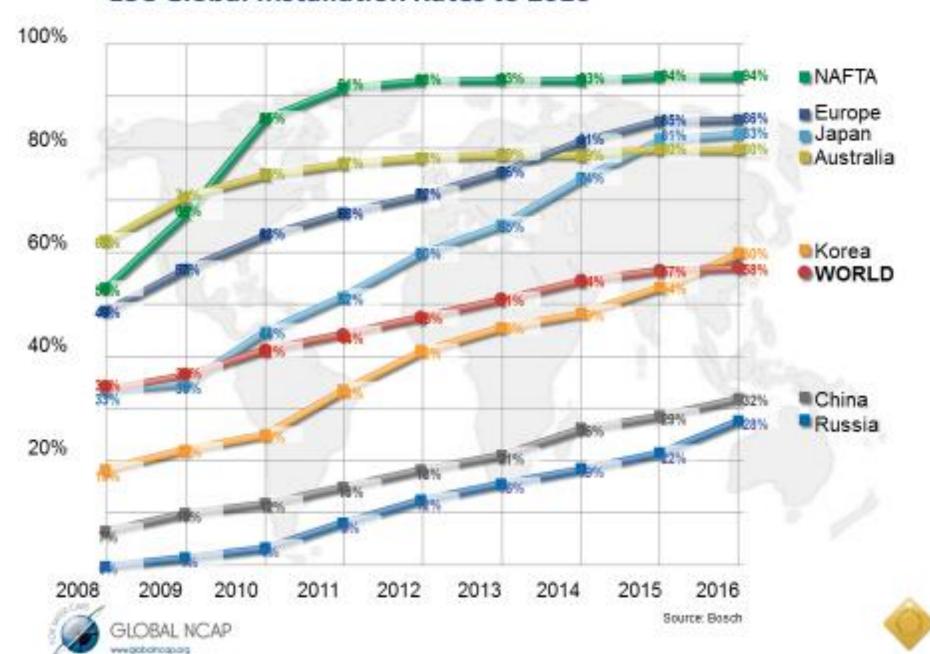




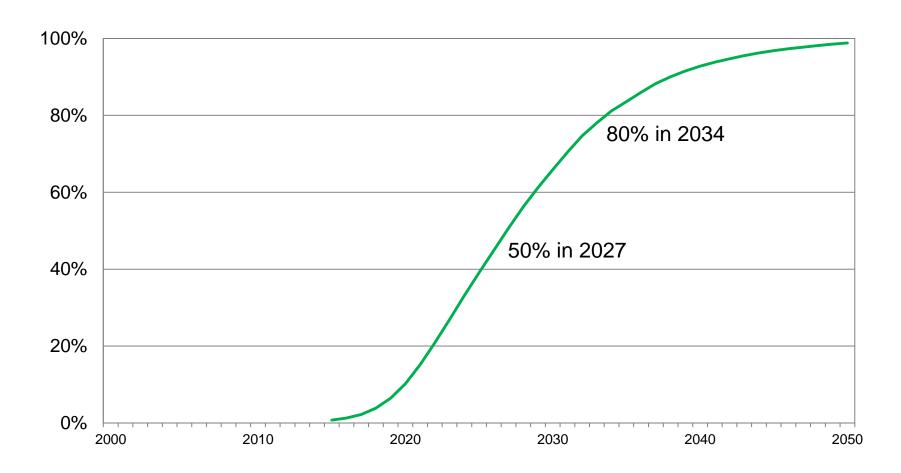




ESC Global Installation Rates to 2016



IIHS Prediction of US Registered Vehicles with Autonomous Emergency Braking (with 2022 Voluntary Commitment)







Autonomous Cars and Zero Fatalities...Decades Away

Self Driving Cars Forecast Global Sales by 2035: 11.8 Million or just 2.68% of the global light duty fleet. (IHS Automotive 2015)

So self driving cars will make no positive impact at all on road injury prevention by 2030. The policy priority should be driver assistance systems that are already in use and which are pathways towards more autonomous vehicles. These include:

- Electronic Stability Control
- Autonomous Emergency Braking
- Intelligent Speed Assistance

There is a real risk that 'hype' about self driving cars will divert policy makers from mandating the technologies that can greatly contribute to road injury reduction to 2030 and beyond.











Global NCAP is pleased to acknowledge support from:







Thank You!



