



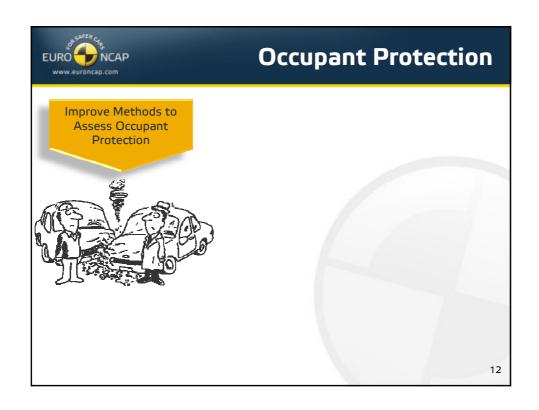


EURO NCAP

Euro NCAP Advanced

- More systems expected in 2011
- Uptake technologies expected in 2013, in particular AEB
- Evaluate first applications with applicants by end of 2010/early 2011

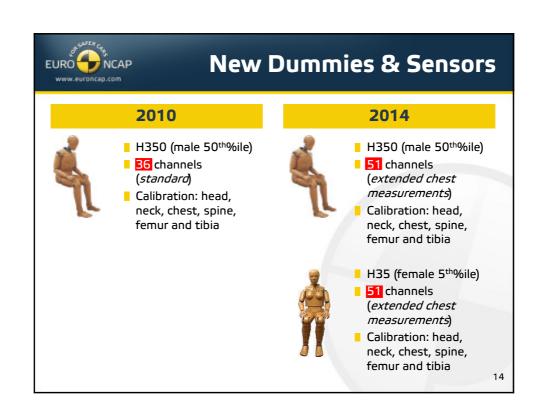




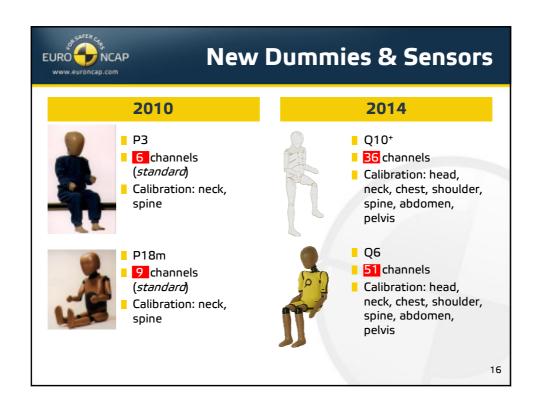


Front and Side Impact

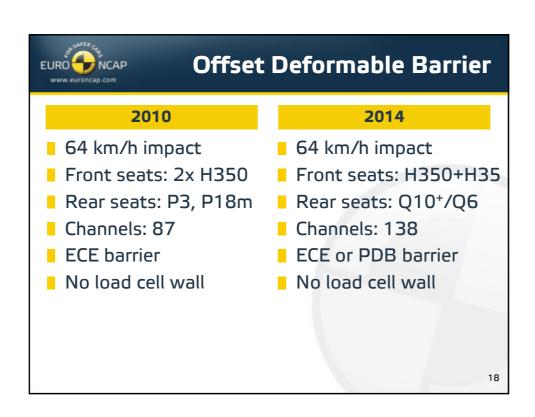
- Board approved new ToR for Front and Side Impact, November 2010
- Two new WGs in 2011
 - ➤ Frontal impact
 - ➤ Side Impact
- Coordination committee: Front/Side/Child

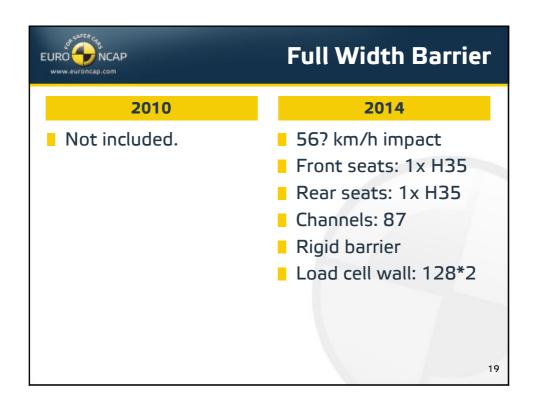




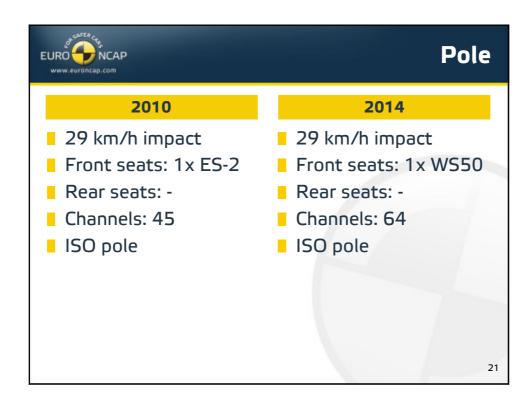








Mobile Deformable Barrier	
2010	2014
 50 km/h impact Front seats: 1x ES-2 Rear seats: P3, P18m Channels: 60 ECE MDB barrier 	 50? km/h impact Front seats: 1x WS5 Rear seats: Q10+/Q6 Channels: 115 ECE MDB barrier
	Alternative to Q10+: WS5F adds 28 channels

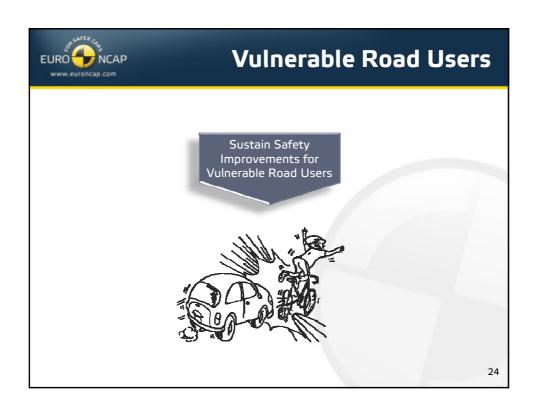




Front & Side Impact

- Proposals represent estimated 60% increase in crash test expenses (cars not included)
- Unlikely to be affordable with current sponsorship model
 - WGs to review options for cost reduction as part of mandate
 - ➤ Board to review (new) membership forms







Pedestrian Safety

Current issues

APP protocol (Assessment Of Active Pedestrian Protection Systems) accepted at November 2010 BoD



- ➤ New protocol addition addresses pop-up bonnets
 - forthcoming test protocol 5.2
- >Ad-hoc group on "Active Systems" is adjourned

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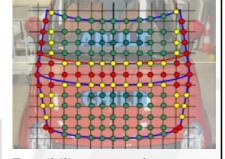
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Pedestrian Safety

"Grid" method

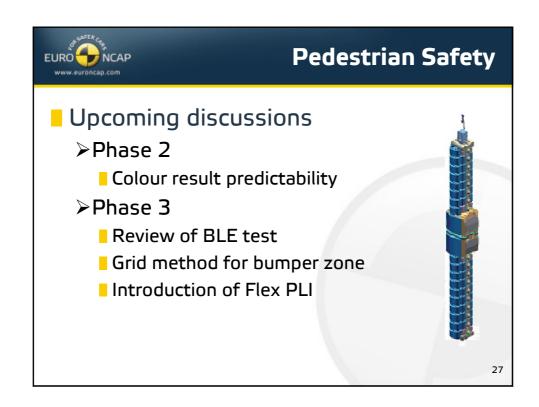
- ➤Predefined grid
- >Manufacturer's assignment of colours

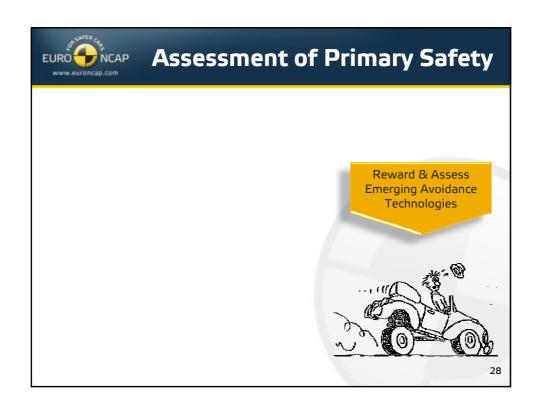
Green HIC < 650
Yellow 650 < HIC < 1000
Orange 1000 < HIC < 1350
Brown 1350 < HIC < 1700
Red 1700 < HIC



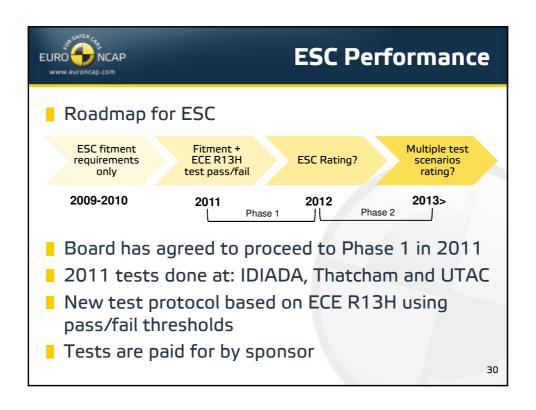
Feasibility currently evaluated on actual vehicles

- ➤ Selected points are tested to verify assignment test variability
- ➤ All points included in score











Intelligent Speed Assistance

- Extension of SLD protocol
- Principles
 - ➤ Driver has the responsibility
 - >Map and camera data is a support
 - ➤ Complete & reliable speed information not be available for many years
 - ➤ Give credit to vehicle manufacturers introducing ISA-systems

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Collision mitigation

- Collision mitigation
 - ➤ First systems assessed by "Euro NCAP Advanced" PreSafe©, CMBS, etc.
 - ➤ Development of generic methods Car-2-car & Car-2-Pedestrian
 - "vFSS", "ASSESS" and "AEB"
- First independent PNCAP reviews in 2011







