



#### **INTRODUCTION**



Consumer groups historically test CRS:

- Consumer information (steering market)
- Influence Regulations

Big achievements, but:

Still room for improvement







#### **INTRODUCTION**

Car manufacturers and CRS
manufacturers have a shared
responsibility for the safe transport
of children





#### **INTRODUCTION**

#### Current situation:

- Children up to 1.35m / 1.50m must be transported in a R44 approved CRS.
- Relatively low number of fatalities
- · Concerns on misuse rates





# **Current Situation**

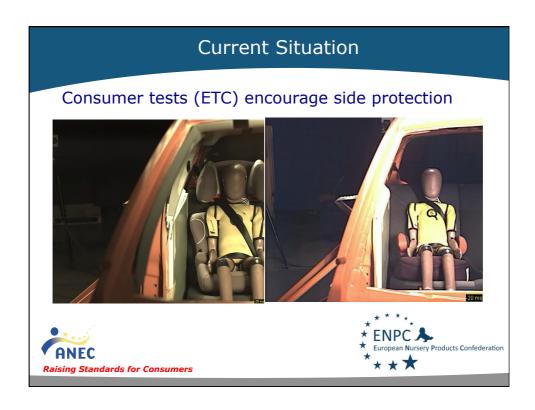
#### Main concerns on R44 raised in GRSP

- No side impact (only frontal)
- Forward facing from 9 kg onward
- Classification difficult to understand -> misuse (universal solutions not very universal)







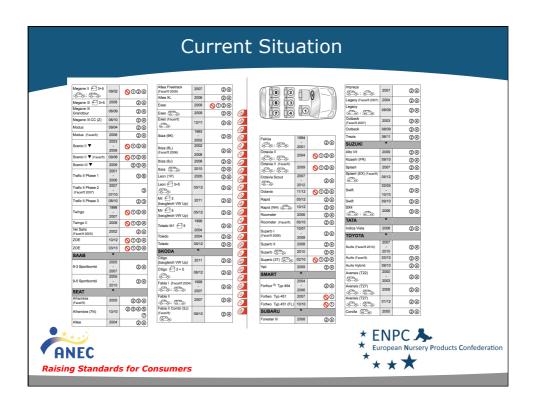




# **Current Situation** Check when buying: • ECE 44 approval label Correct mass group • Fits in your car(s) **EasyFix CabrioFix** ECE R44-04 ECE R44-04 0 - 13 kg (E4) (E<sub>4</sub>) 0444352 04443517 04443522 ANEC Raising Standards for Consumers

### **Current Situation** Table of vehicle handbook information on child restraint systems installation suitability for various seating positions Seating position (or other site) Intermediate outboardMass Group 0 up to 10 kg Group Group 0+ up to 13 kg I 9 to 18 kg Group II 15 to 25 kg Group Group III 22 to 36 kg Nursery Products Confederation Raising Standards for Consumers

various ISOFIX	_							
Mass Group	Size class	Fixture	Vehicle ISOFIX positions					
			Front passenger	Rear outboard	Rear centre	Intermediate outboard	Intermediate centre	Other sites
carrycot	F	ISO/L1						
	G	ISO/L2						
		(1)						
0 – up to 10 Kg	Е	ISO/R1						
		(1)						
	Е	ISO/R1						
0+ – up to 13 kg		ISO/R2						
	С	ISO/R3						
		(1)						
	D	ISO/R2						
	С	ISO/R3						
I – 9 to 18 kg	В	ISO/F2						
7 7 10 10 kg	В1	ISO/F2X						
	A	ISO/F3						
		(1)						
II – 15 to 25 kg		(1)						
III – 22 to 36 kg		(1)						



# **Current Situation**

# Group 0+ (<13kg)



Confusing info on age equivalent:

Manufacturer A: <15 months

Manufacturer B: <18 months



# Raising Standards for Consumers

# **Current Situation**

#### Interface issues:

- Insufficient belt length
- Poor belt geometry
- Interaction with car interior





# **Current Situation**

#### Low Isofix awareness:

- •1% ISOFIX CRS in cars seen,
- >45% of cars is equipped with isofix attachment points.
- •20% drivers know ISOFIX

(CEDRE study, 419 children in 177 cars, aug 08 – jul 09, France)



Raising Standards for Consumers



# Top tether high mis- and non-use rates WHERE CAR SEAT TETHERS ATTACH Top tether anchor Tether anch





# i-Size

#### Improvements compared to R44:

- 1. Rearward facing mandatory up to 15 months *minimally*
- 2. Introduction of side impact test procedure
- 3. Reduced risk of incorrect installation
- 4. Stature based classification
- 5. Improved car-CRS interface
- 6. State of the art test tools



Raising Standards for Consumers



# i-Size

- Stature based classification
- Range to be determined by CRS manufacturer













# i-Size

#### Increased universality

- any i-size CRS can be used on any i-Size seating position in a car
- IMPROVED CAR INTERFACE!

(appreciate OICA cooperation)



Raising Standards for Consumers





# i-Size: **voluntary** for OEM's

#### Euro NCAP:

- Increased attention for car-CRS interface
- Credits for i-Size ready seating positions
- So far encouraging findings, to be fed into regulatory discussions
- Demo



Raising Standards for Consumers



Fair G0/1 in Renault Captur



# R-129 – next steps

#### Phased introduction from 2013 onward

- Phase 1: isofix CRS, integral harness (i-Size)
- Phase 2: non integral CRS (2015 -2016)
- Phase 3: belted integral CRS (2015 2016)





# R-129 – next steps

Phase 2 and 3, belted non integral CRS and belted integral CRS:

- Stature based classification
- frontal and side performance requirements
- NO 'i-size'





# Phase 2: non integral CRS

### Phase 2, non integral CRS (isofix optional):

- · Universal booster seat (<135cm, backrest +sidewings)
- Universal booster (>135, side protection by car)









Raising Standards for Consumers

# Communication to consumers

# Challenges:

- Bridging transitional period for both cars and **CRS**
- Raise awareness on new Regulation
- · Avoid confusion





#### Communication to consumers

#### From ANEC perspective:

- I-Size: the next generation, but don't dismiss R44!
- Emphasise improvements on usability and safety
- Information needed on use in 'old style' R16 approved cars





# Communication to consumers

#### Issue:

- Only few I-size ready labelled seating positions in cars available in the early stages
- -> in practise: when it fits in a car, it can be used in old style 'semi-universal' positions (support leg)





#### Communication to consumers

#### Issue:

- EU Seat Belt Wearing Directive allows only R44
   CRS, and cannot be modified in time.
- ->EC: i-size regulation can be considered as an improvement of R44. EC will communicate this in a 'Commission Interpretation' if necessary



# Communication to consumers

#### Issue:

- for some time two different regimes for CRS approval (mass vs stature based) are operational alongside each other
- -> keep transitional period short





# Communication to consumers

Consumer program ETC will publish test results on i-size CRS as soon as feasible.





