



RESULTS

Phase II

Latin NCAP GRSP – December, 2011 Geneva









Presentation agenda

- Latin NCAP Phase 2 highlights
- Cars tested in Phase 2
- Latin NCAP frontal offset crash test setup
- Results visualization
- Results Phase 2
- Conclusions





Latin NCAP phase 2 highlights

- Latin NCAP Phase 2 is a part of Latin NCAP's pilot phases.
- From 2011 Latin NCAP allows manufacturers to sponsor cars independently whether the car has been selected or not for testing.
- ◆ Latin NCAP selected 5 cars for Phase 2, based on sales figures.
- 3 of the selected manufacturers sponsored extra cars.
- 1 Manufacturer sponsored a NEW car for Brazil market.





Cars Selected by Latin NCAP







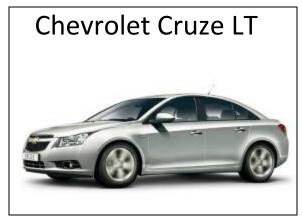


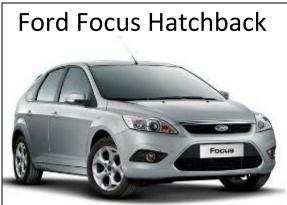






Cars Sponsored by manufacturers







NEW Car Sponsored by manufacturers



Only valid for Brazil



Summary of cars



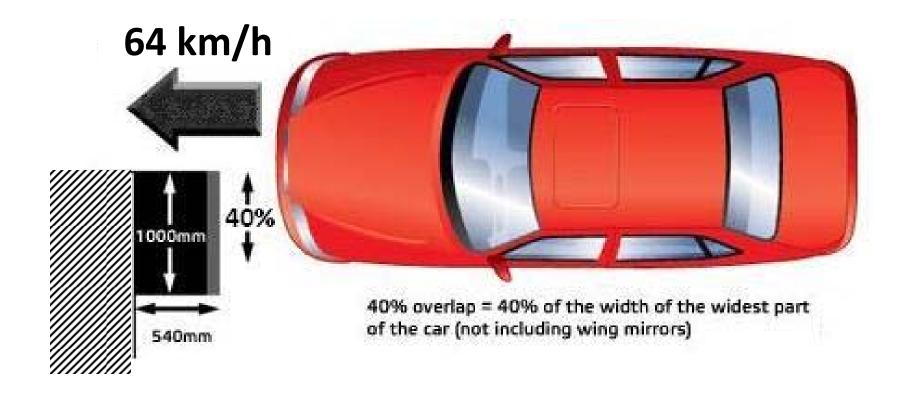
Mfr. and model	Body type	Doors	AIRBAGS			
Cars selected by Latin NCAP						
Fiat Novo Uno	hatchback	5	NO Airbags			
Chevrolet Celta	hatchback	3	NO Airbags			
Chevrolet Corsa Classic	sedan	4	NO Airbags			
Ford KA Fly Viral	hatchback	3	NO Airbags			
Nissan Tiida Full	hatchback	5	DRIVER Airbag			
Cars sponsored by manufacturers						
Chevrolet Cruze	sedan	4	2 Airbags			
Ford Focus Style	hatchback	5	2 Airbags			
Nissan Tiida Extra Full	hatchback	5	2 Airbags			
NEW car sponsored by manufacturers						
Nissan March	hatchback	5	2 Airbags			

Total 8 models and 9 cars





Test: Frontal crash 40% offset





WHO ARE THE OCCUPANTS IN THE CAR?



Adults









P1.5 (18 months old)

50th percentile Hybrid III dummy (x2)





Results

Visualization



Car Brand and model







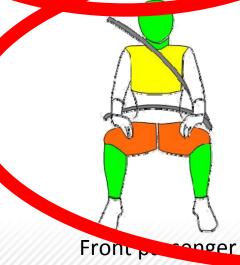
2.28 max. 16.00 - Adult occupan





33.58 max. 49.00 - Child occur at





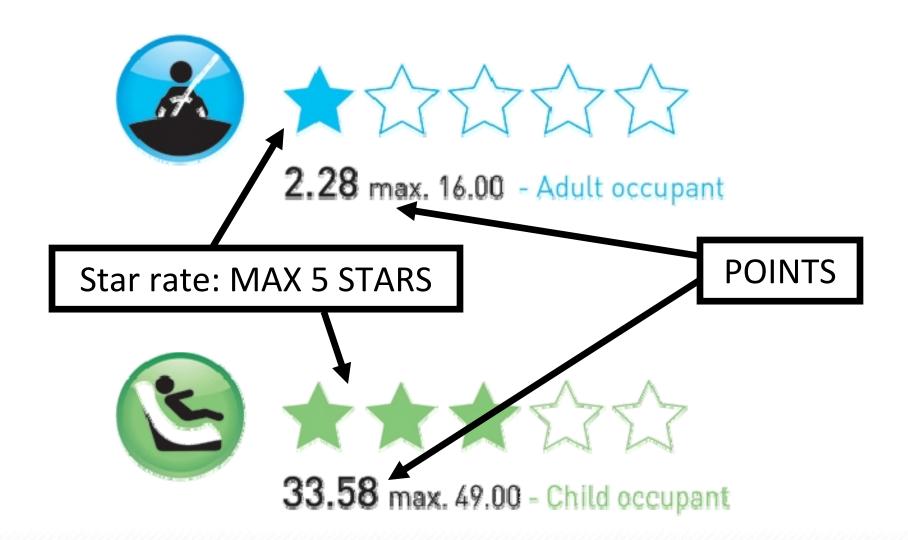






Results

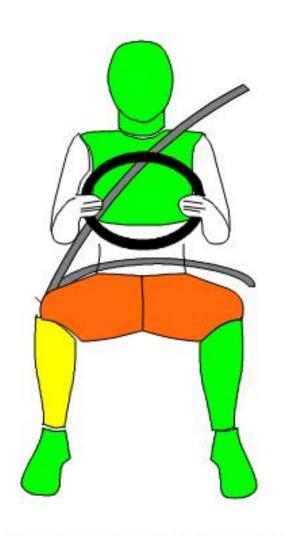








RESULTS codes in dummies



Green Good
Yellow Adequate
Orange Marginal
Brown Weak
Red Poor





Results





Results:

Cars sponsored by Manufacturers





Ford Focus Hatchback + 2 Airbags





13.53 max. 16.00 - Adult occupant





33.68 max. 49.00 - Child occupant













Chevrolet Cruze LT + 2 Airbags





13.18 max. 16.00 - Adult occupant

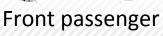




32.59 max. 49.00 - Child occupant









Driver

Good
Adequate
Marginal
Weak
Poor





Nissan Tiida Hatchback + 2 Airbags





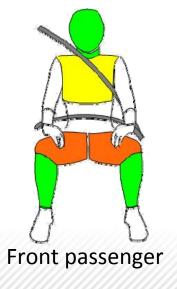
13.12 max. 16.00 - Adult occupant





9.29 max. 49.00 - Child occupant













Results:

NEW Car types sponsored by Manufacturers



Nissan March + 2 Airbags



(Only valid for Brazil Market)





7.62 max. 16.00 - Adult occupant





9.68 max. 49.00 - Child occupant













Results:

Cars selected by Latin NCAP





Nissan Tiida Hatchback + Driver Airbag





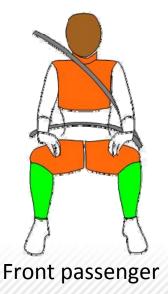
9.54 max. 16.00 - Adult occupant

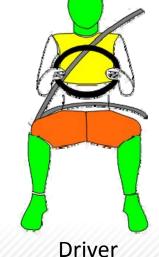




8.00 max. 49.00 - Child occupant













Chevrolet Celta - NO Airbags





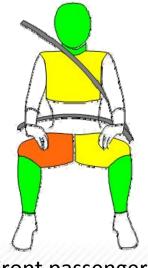
3.82 max. 16.00 - Adult occupant

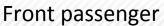




22.68 max. 49.00 - Child occupant









Driver

Good

Adequate

Marginal

Weak

Poor





Ford KA Fly Viral - NO Airbags





2.37 max. 16.00 - Adult occupant





30.52 max. 49.00 - Child occupant













Chevrolet Corsa Classic - NO Airbags





2.28 max. 16.00 - Adult occupant

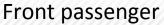




9.16 max. 49.00 - Child occupant









Driver

Good
Adequate
Marginal
Weak
Poor











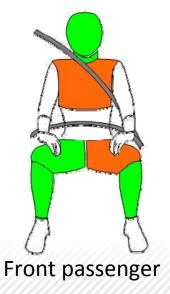
2.00 max. 16.00 - Adult occupant





20.73 max. 49.00 - Child occupant











Summary of results







Fiat Novo Uno — NO Airbags Chevrolet Celta — NO Airbags Chevrolet Corsa Classic — NO Airbags Ford KA Fly Viral — NO Airbags Nissan Tiida Full + 1 Airbag Cars sponsored by manufacturers Chevrolet Cruze + 2 Airbags

NEW cars sponsored by manufacturers

Only Valid for Brazil

Nissan March + 2 Airbags

Ford Focus Style + 2 Airbags

Nissan Tiida Extra Full + 2 Airbags







Summary of results phase 1 and 2



LATING NCAP SELECTED CARS	Geely CK1 1.3 - NO Airbags		★★☆☆☆
	Peugeot 207 Compact 5p 1.4 - NO Airbags	****	★★☆☆☆
	VW Gol Trend 1.6 - NO Airbags	****	★★☆☆☆
	Fiat Palio ELX 1.4 - NO Airbags	****	★★☆☆☆
	Chevrolet Celta – NO Airbags	****	***
	Ford KA Fly Viral – NO Airbags	****	***
	Chevrolet Corsa Classic – NO Airbags	****	★☆☆☆☆
	Fiat Novo Uno – NO Airbags	****	★★☆☆☆
	Nissan Tiida Hatchback + 1 Airbags	****	★ ☆☆☆☆
	Toyota Corolla XEI + 2 Airbags	****	Comparison test
	Chevrolet Meriva GL Plus + 2 Airbags	****	Comparison test
MANUFACTURERS SPONSORED CARS	Ford Focus Style + 2 Airbags	****	★★★☆☆
	Chevrolet Cruze + 2 Airbags	****	★★★☆☆
	Nissan Tiida Hatchback + 2 Airbags	****	★☆☆☆☆
	Fiat Palio ELX 1.4 Emotion + 2 Airbags	****	***
	VW Gol Trend 1.6 + 2 Airbags	****	★★☆☆☆
	Nissan March + 2 Airbags	****	★ ☆ ☆ ☆ ← Only Valid for Brazil
	Peugeot 207 Compact 5p 1.4 + 2 Airbags	******	****





Conclusions





Conclusions: Adult Occupant protection

- Bodyshell integrity is critical for the protection of occupants even in cars fitted with airbags. Four of the five cars selected by Latin NCAP for Phase 2 showed unstable body shells in the crash test.
- In Phases 1 and 2, the absence of airbags showed high risk of life threatening injuries for the passengers in a crash.
- In Phases 1 and 2 the tested cars showed low scores in the leg areas of the adult occupants. In Phase 2 the Ford Focus and the Chevrolet Cruze showed well developed lower leg areas reducing possible injuries to the occupants in a crash.





Conclusions: Child Occupant protection

- In Phases 1 and 2 protection of child occupants is low because of the marginal to poor protection offered by the CRS, the incompatibility car-CRS and the poor CRS installation instructions.
- In Phases 1 and 2 acceptable child protection performance was found in cars with weak structures and less developed restraint systems. Body shell deformation in the front reduces energy transfer to the rear seat passengers. As the structures get more stable, more energy is transferred to the rear passengers. In that case the performance of CRS and restraint systems needs extra attention.
- Chevrolet Cruze was the first car with ISOFIX CRS attachment that was tested by Latin NCAP. The configuration showed good dynamic performance and good child safety. Latin NCAP would welcome when all governments will allow and promote ISOFIX use according to the UNECE technical standards.





Final Comments

- Latin NCAP is pleased about the constructive dialogue with manufacturers.
- Latin NCAP is of the opinion that cars should be fitted with airbags. In case these safety devices are offered as an option the offer should be single and not in packages together with other accessories.





General Conclusions - Recommendations

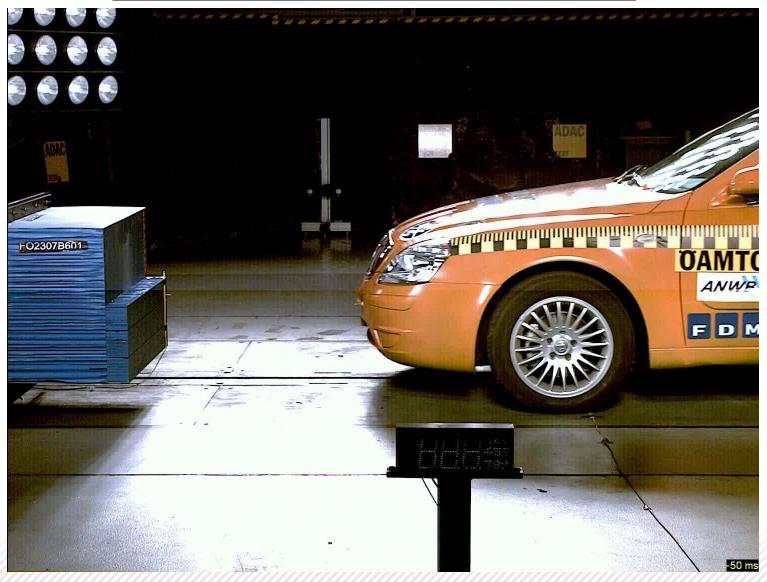
- Latin NCAP recommends all governments to make the requirements of UNECE94 (technical standard) mandatory for all cars. Currently no car without airbags will pass UNECE94.

 Only airbag requirement is not enough.
- Latin NCAP recommends all governments to make CRS use and technical standard approval for CRS mandatory.
- Latin NCAP promotes the use of CRS in cars and strongly recommends closer cooperation between car manufacturers and CRS manufacturers.
- Latin NCAP recommends Automobile clubs, Consumer organizations, car and CRS manufacturers as well as governments to work on better adult and child occupant protection in road vehicles.





Only airbag requirement is not enough.







General Conclusions - Recommendations

- Latin NCAP recommends all governments to make the requirements of UNECE94 (technical standard) mandatory for all cars. Currently no car without airbags will pass UNECE94.
 - Only airbag requirement is not enough.
- Latin NCAP recommends all governments to make CRS use and technical standard approval for CRS mandatory.
- Latin NCAP promotes the use of CRS in cars and strongly recommends closer cooperation between car manufacturers and CRS manufacturers.
- Latin NCAP recommends Automobile clubs, Consumer organizations, car and CRS manufacturers as well as governments to work on better adult and child occupant protection in road vehicles.





Thank you very much for your attention.

















Summary of results phase 1 and 2



LATING NCAP SELECTED CARS	Geely CK1 1.3 - NO Airbags		***
	Peugeot 207 Compact 5p 1.4 - NO Airbags	****	★★☆☆☆
	VW Gol Trend 1.6 - NO Airbags	****	★★☆☆☆
	Fiat Palio ELX 1.4 - NO Airbags	****	★★☆☆☆
	Chevrolet Celta – NO Airbags	****	***
	Ford KA Fly Viral – NO Airbags	****	***
	Chevrolet Corsa Classic – NO Airbags	****	★☆☆☆☆
	Fiat Novo Uno - NO Airbags	****	★★☆☆☆
	Nissan Tiida Hatchback + 1 Airbags	****	★ ☆☆☆☆
	Toyota Corolla XEI + 2 Airbags	****	★ ☆ ☆ ☆ Comparison test
	Chevrolet Meriva GL Plus + 2 Airbags	****	★ ☆ ☆ ☆ Comparison test
MANUFACTURERS SPONSORED CARS	Ford Focus Style + 2 Airbags	****	***
	Chevrolet Cruze + 2 Airbags	****	***
	Nissan Tiida Hatchback + 2 Airbags	****	★公公公公
	Fiat Palio ELX 1.4 Emotion + 2 Airbags	****	***
	VW Gol Trend 1.6 + 2 Airbags	****	★★☆☆☆
	Nissan March + 2 Airbags	****	★ ↑ ↑ ↑ ↑ Only Valid for Brazil
	Peugeot 207 Compact 5p 1.4 + 2 Airbags	****	***