

??
?????????????????????????????????130????????????????????(Globe
NCAP)
??
?????????17
?????????????????????????
?????????????????????????20???

???????????????

??????2014?????????????
29?5,092??[1]39?2,735????3,138?????????????13.4%?[2]
?????????????????????????????????????
5.2??????5?????????15?????????????????70%?????????????????????

???1?6?????????1?????????????1?????
??[3]??102?????????????4,748?????102?GDP?3.3??[4]

????
????????
?????????????????
?????????????????????????????
?????????????(1)?????????????????????(2)
?????????????????????????????
?????????????????(3)?????????22.8%?????44.1%??[5]
?????????????????????????????????????

???

?????????

?????????????????1966????????????(Lyndon Johnson)????????????(Highway Safety Act)?????????????????(National Highway Traffic Safety Administration, NHTSA)????????????????????(Federal Motor Vehicle Safety Standards, FMVSS)?[6]?1971???????????

??25

??NCAP

?????????????????1979

????????????????????????????????????

?????????????????????????????56??/?????64??/

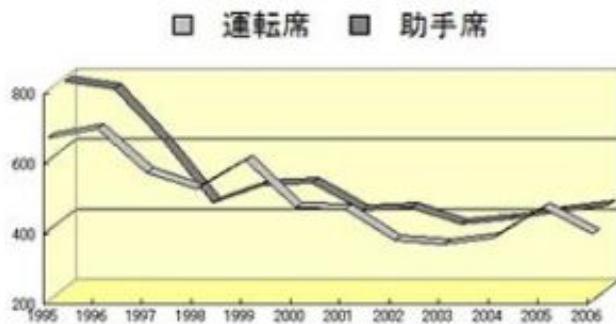
??

??(100 million

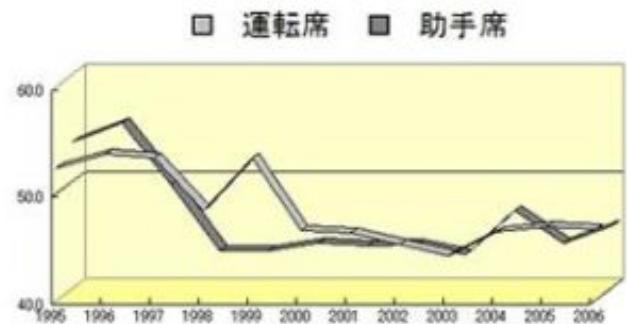
miles)?????????1935??17???1996????1.6??60????????????[7]

???

頭部傷害値 (HIC) の経年変化



胸部に発生する加速度の経年変化



?1:?????????????????????1995-2006?????????????????????????

??9????????????????(torso side airbags)???
11%????????????????????????????(head- protecting airbags)????45%?????[\[9\]](#)



?2?????????????????????????????????source: IIHS

?????????????????

?????????????????????????????2008?????????????30?????13?????????????20
?????????O??? ECE R94/ 95 (United Nations Economic Commission for Europe
)?????????2012???

?????NCAP?????????????????????????2007????????????????????? Brilliance
BS6
?????????
??
[\[10\]](#)?????????????



?3?????BMW 7????????5?????????????????????????????

NCAP????1????????????2007??Source: ADAC

?????2006?????NCAP?????C-

NCAP???

NCAP??10????????2012????C-

NCAP????(2012??)?????????????????64km/h?????????????????(Electronic Stability Control , ESC) ??????????????????????????

?????????????????????????????

????????2018????????????????????? [11] ?2015??1?????C-NCAP????(2015??)?????????????

???

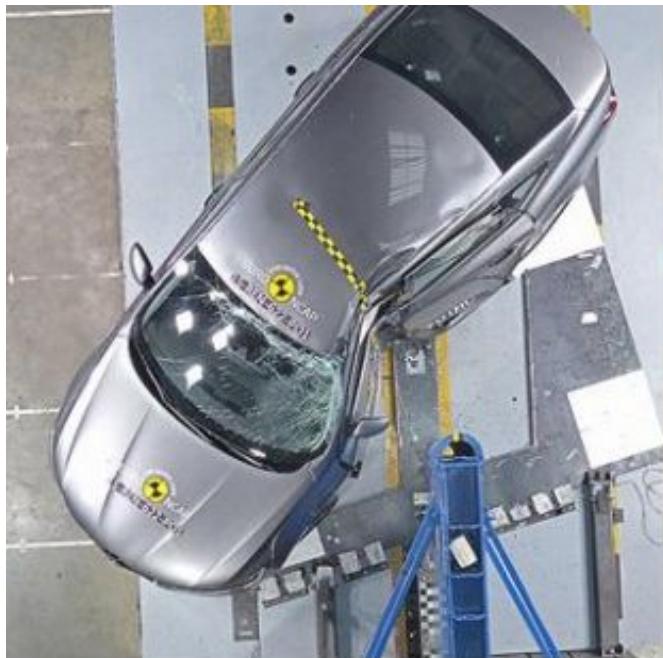
?????????2008????1995????ECE R94/ 95?????????????????????2016?????????????ECE 1995????
 ??
 ???1?????????????????????????????
 ??

?1 ??????????????					
????	??	??	??	??	??
	Euro NCAP	IIHS	J- NCAP	C- NAP	
????	64 km/h	64 km/h	64 km/h	64 km/h	56 km/h (?)
??40%					
????	50 km/h	50 km/h	55 km/h	55 km/h	50 km/h
????	?	?	?	?	?
??????					
??????	?/ ??	?/ ??	?/ ??	?/ ??	?
??????	?	?	?	?	?
??????	?	?	?	?	?
??????	?????29km /h	?????????????	?????????????	?	?
????	???	???	???	???	???
????	???	???	???	???	??/ ???
??64km/h ??????? 56km/h ? 30%?????????????					

?????????????????????????????

12.8+%? [\[12\]](#)??2014?????????401?????5?270????

???



?4???E- NCAP?????????

步行者保護性能評価



【頭部保護性能試驗】

- 車が時速44kmで歩行者と衝突した際のボンネット等の加害性を評価する試験です。

?5?????????????????????????

?????????????????2014???401?????5?270????

?????J- NCAP

???????????????

????????????????????????????(ARTC)????????????????(VSCC)?????????????????????
??? ARTC????????????????????????????????

??

1.??
??

2.??

ARTC?????????1985?3?15

??1990

????????????????????????26%????????????????? [\[13\]](#)

????????????????????????? [\[14\]](#)

??
????????????????????????

3.??
????

4.??
????????????????????? [\[15\]](#)????????????????????????O????????????????????????????????

5.??
??
??

6.?????(Democratising Car

Safet)????????????????????????????????NCAP???Global
NCAP)??(Democratising Car Safety: Globe Polivy
Update : Road Map for Safer
Vehicles)

????????????????????????????

?????????????????????????130????????????? [\[16\]](#)

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7.?? NCAP ?????????????????????????????

NCAP

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????????????????????????NCAP????????????NCAP

??NCAP

??
?????????????????????????20???

8.?????????????
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?????????????????NCAP
???



?????????(NCAP)?????????????

2014????401????5?270???? J- NCAP

Update : Road Map for Safer

Update : Read Map for Safer Vehicles)

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22222222

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?? NCAP ?????????????????????????????????

NCAP

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註解：

[1]?????????????066?????????????104?4?15????1?

[2]?????????103?????????????????2016?1?12????54
?????????????????????24???

[3]?????"?????4,750?"?????????????2014?8?21???

[4]????????????

[5]?????????????066?????

[6] American Iron and Steel Institute, Vehicle Crashworthiness and Occupant Protection,(Michigan: Automotive Application Committee, American Iron and Steel Institute,2004), p. 2.

⁷ American Iron and Steel Institute, Vehicle Crashworthiness and Occupant Protection, Ibid.

[8]?????????????<<http://www.mlit.go.jp/jidosha/anzen/02assessment/analysis.html>>?????2016?3?23??

[9] IIHS, " In real-world crashes, side airbags with head protection are saving lives" IIHS News, Aug. 23, 2003.
<http://goo.gl/axvnux> ?last viewed: Mar. 22, 2016?

[10]Alex Nunez, "In German crash test, China's Brilliance BS6 sedan fails miserably" <<http://goo.gl/Cj4K9G>> (last visited: Mar. 24, 2016)

[11] "How C-NCAP and China's passive safety regulations will catch up with Europe by 2018
, December 5, 2014 <<http://goo.gl/ai3Xui>> ((last visited: Mar. 22, 2016))

[12]????????????????????????????????????2-3?

[13]?????????????102?????????????????2012?????1?

[14]
ARTC?????????????????????????ARTC?????????2012?????2015
???

[15]

[16] Global NCAP, *Democratising Car Safety: Global Policy Update : Road Map for Safer Vehicles*(London: Global NCAP, 2015), pp. 1-2.