

????????

????????????????2014????????????

29?5,092??[1]39?2,735????3,138????????????13.4%?[2]

????????????????15????????????

????????

????????????????10

2????????????????4,748????????102?GDP?3.3??[3]????????????44.1%?[4]????????????



機車撞擊測試：模擬市區平均時速 50km/h，側撞、遭追撞，都將對騎士頭頸部造成嚴重傷害。(圖片: Polish Police, DEKRA)

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2014????????	????????????????	?????	?????
??	32,928	1,593	483
??	163,446	3,990	244
??	890,703	19,922	223
??	6,405,778	102,484	159
??	13,735,994	161,416	74

??????

????????????????????(powered two wheelers,

PTW)

??

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

(1)??????

??
????????????????????15%?[5]????????????????????2016????????????????????(advanced
braking system)????????????????(antilock braking systems, ABS)????????????(combined
braking systems, CBS)????????????????



搭載 ABS 之機車，緊急情況可縮減煞車距離，
且可保有控制能力，閃避障礙物。

(圖片來源：Central European University)

????????????????ABS??IIHS????????????ABS
????????????????????31%????????????22%????????????20%?[6]????????????2006?2009
????????????????????ABS????????????29%????????34%????????????2003?2012
????????????????????ABS????????????29%????????42%?[7]

????????????????????????126CC????????2019????????????????????ABS????125CC????????2019
????????????????????ABS????????????CBS
??
??

(2)????????????

????????????????
????????????????????????????????
??60????????????????????????[8]
??



騎士超車不當，跨越雙黃線標線時輪胎打滑轉倒，遭後車碾壓重傷。

(圖片：台灣蘋果日報)

??
 ??[12]??

(1)
 ???????????
 ?????????????????????????????
 ???400????????????????????[13]
 ???45BPN (British Pendulum Number,
 BPN)???[14]????????????????????????65BPN?[15]????????????45- 70BPN?[16]

????????????(Slip Resistance Group, UK
)????????????45BPN????????????????????65BPN????????????[17]
 ?????????????????????????????

??[18]
 ???????????
 ?????????????????????????
 ???65BPN????????????????????????????????????

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

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

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

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

[5] European Commission, "Making roads safer for motorcycles and mopeds" (Sep. 12, 2015) http://ec.europa.eu/transport/road_safety/users/motorcyclists-mopeds/index_en.htm (last visited June 03, 2016)

[6]Eric R. Teoh, Effects of Antilock Braking Systems on Motorcycle Fatal Crash Rates: An Update (IIHS, May 2013), pp. 1- 4.

[7]??2015?8?28??

[8] Directorate-General Transport and Energy, Powered Two Wheelers(Brussels: European Commission, 2009), p. 31..

[9]Harriet Wise, "Scooter Wheel and Tire Size" 27 February 2016.
<<http://reviewall.biz/2016/02/scooter-wheel-and-tire-size/> > (last visited, 28 May 2016)

[10]????????10????????????12????????????12, 13????????????????????

[11]"????????????250?????"????2016?6?4??

[12] Directorate-General Transport and Energy, Powered Two Wheelers(Brussels: European Commission, 2009), p. 38..

[13]陳慰慈。"標線抗滑係數低
騎士頻「犁田」"自由時報。 <<http://news.ltn.com.tw/news/local/paper/773145>
>(2014年4月23日)。

[14]??104?12????32?

[15]?????????????
????????????????????????????<
<http://www.appledaily.com.tw/realtimenews/article/new/20150510/607704/> >(2015?5?10?)?

[16]陳慰慈。“標線抗滑係數低 騎士頻「犁田」”前揭書。

[17]??2008?12?????38?

[18]??31?

[19]??

[20]Jensen Beeler, “European Motorcycle Sales Show Signs of Life,” Visordown&ANCMA, April 03, 2014.

[21]“Top 10 fastest-growing European bike markets,” Visordown, 23 March 2016, <http://goo.gl/iz75JP> (02 June 2016)

[22]The International Council of Clean Transportation, European Vehicle Market Statistics: Pocketbook 2013 (Washington DC: ICCT, 2013), p. 11.

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