

????????

????????????????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](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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