




BP4: Specified Highway Remedial Measures

Reference: BP4 010	Title of Project:	International Road Assessment Programme Road Safety Toolkit
Version: 1	Website:	http://www.irap.net/toolkit/
Brief Description of Project:	<div style="display: flex; align-items: flex-start;">  <div> <p>The International Road Assessment Programme (iRAP) has produced a searchable toolkit for road safety specialists, to assist in the identification of appropriate collision remedial measures by road user or by location.</p> <p>Within the Toolkit there is a section dedicated to motorcyclists and the link to this site is ; http://www.irap.net/toolkit/</p> <p>The ‘Motorcyclist’ pages contain guidance on key environmental causation factors:</p> <ul style="list-style-type: none"> • Interaction with larger vehicles (cars, trucks) • road surface issues (such as roughness, potholes or debris on the road) • water, oil or moisture on the road • excessive linemarking or use of raised pavement markers • poor road alignment • presence of roadside hazards and safety barriers • number of vehicles and other motorcyclists using the route. <p>There is also an interactive list of possible counter-measures which provides photographs, comparative cost information and an assessment of likely effectiveness.</p> </div> </div> <div style="margin-top: 20px; text-align: right;">  </div>	



The Toolkit also provides guidance on non-engineering counter measures along with reference websites.

- Alternative non-engineering measures**
- Helmet wearing campaigns and enforcement (campaigns to increase the use of appropriate safety helmets for riders and passengers, and police enforcement to back up these campaigns) See the GRSP [Helmet Manual](#)
 - Speed limit enforcement (enforcement of the desired speed limit, especially during high-risk times) See the GRSP [Speed Management Manual](#)
 - Speed media campaigns (promoting safe driver speeds, particularly in areas of high motorcycle usage) See the GRSP [Speed Management Manual](#)
 - Blood alcohol/drugs content testing (for both motorcycle riders and other motorists, especially at night) See the GRSP [Drinking and Driving Manual](#)
 - Fatigue management campaigns (including campaigns to promote the need for adequate sleep before driving, and rests during driving), e.g. [US guide on fatigue](#), [Information from Victoria](#), [Australia on fatigue](#)
 - Road rules enforcement (for both motorcycle riders and other motorists, especially where poor compliance with rules is observed), e.g. [penalty system in New Zealand](#), [ADB guidance on traffic police and enforcement](#)
 - Improved rider training (see e.g. [Bikesafe](#))

The Toolkit is searchable by mode or by collision type:

- Head on: <http://www.irap.net/toolkit/default.asp?p=crash&i=10>
- Intersections: <http://www.irap.net/toolkit/default.asp?p=crash&i=27>
- Lane Change: <http://www.irap.net/toolkit/default.asp?p=crash&i=14>
- Manoeuvring: <http://www.irap.net/toolkit/default.asp?p=crash&i=25>
- Rear End: <http://www.irap.net/toolkit/default.asp?p=crash&i=13>
- Run Off Road: <http://www.irap.net/toolkit/default.asp?p=crash&i=18>
- Vehicle-pedestrian: <http://www.irap.net/toolkit/default.asp?p=crash&i=8>

Monitoring Data:	The iRAP Toolkit is based on collision data studies and the analysis and identification of effective counter-measures. The recommended treatments are aligned with collision studies such as MAIDS and the DfT In-depth Study of motorcycle Accidents.
Results:	iRAP's Road Safety Toolkit is already in use, allowing road safety professionals access to good quality, appropriate advice.
Key Effective Conclusions:	iRAP's Road Safety Toolkit provides useful guidance for road safety professionals planning specific remedial measures. Used in conjunction with advice given by IHIE and ACEM in their Guidelines, this presents a potentially effective package to help identify appropriate PTW collision counter-measures.

Projects for Comparison:	IHIE Motorcycling Guidelines (BP2 012). ACEM PTW Road Design Guidelines (BP2 011). 'Positioned for Safety' (BP2 009). Norwegian PTW Handbook (BP2 007).
Justification:	The iRAP Toolkit provides guidance on the implementation of effective PTW specific collision counter-measures. It appears to contribute to the eSUM WP3, BP4 objectives.