



#### The eSUM project european Safer Urban Motorcycling WP3 Best practices

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- PTW casualty situation
- eSUM Project overview
- Identification of Best Practice
- Initial results
- Next steps.





#### EU current objective & performance





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European Safer Urban Motorcycling

eSUM

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#### eSUM Project Overview



- A consortium of urban and national authorities, PTW manufacturers, ACEM and road safety investigators
- Coordinated by Barcelona Municipality, eSUM develops best practice from the experiences of cities from 4 EU countries with high levels of PTW use / proven experience in developing good PTW road safety
- EU manufacturers of innovative, safer PTW models (C1, MP3) participate along with ACEM.



Work Package	Deliverable Name	Lead Partner	Start Date	Completion Date
WP1	Project Administration	Barcelona	Jun 08	Ongoing
WP2	Diagnosis of Urban PTW Safety	Rome	Jun 08	Apr 09
WP3	Best Practice Guidance for Improving Urban PTW Safety	London	Aug 08	Feb 09
WP4	Demonstrations for Improving Urban PTW Safety	Barcelona	Jan 09	Aug 10
WP5	Monitoring and evaluation	Uni Athens	Jan 10	Oct 10
WP6	Transfer & Marketing	ACEM	Jan 10	Sept 10
WP7	Dissemination	Barcelona	Jun 08	Jan 11

#### **Project Completion Jan 2011**







# Work Package 3

- Led by Transport for London
- Identifying Best Practice to reduce PTW casualties in urban areas.









6 key areas to identify Best Practice:
BP1 Rider training and awareness campaigns
BP2 Dedicated highway features to improve PTW safety
BP3 Effectiveness of targeted enforcement
BP4 Specific remedial measures at 'blackspots'
BP5 Improved PTW design
BP6 Potential for 'soft' street furniture to reduce PTW injuries.









# Methodology

- Detailed web searches
- Research and academic institutions
- Partner Input
- Questionnaire.



#### Can you help improve motorcycle safety?



The European Safer Urban Motorcycling Project (eSUM) is a collaborative initiative between industry and local authorities of some of Europe's principal motorcycle cities to identify, develop and demonstrate measures designed to deliver safer urban motorcycling. Two-thirds of all accidents occur on roads in urban areas, where 80% of citizens live.

As one of the eSUM partners, Transport for London is leading on the work package which focuses on benchmarking best practice in urban motorcycle safety. We need your help in identifying successful projects aimed at reducing powered two wheeler casualties in urban areas. The six themes we are assessing are:

Theme	Description	If you are aware of a motorcycle		
BP1	Assessing the potential of driver and rider training and awareness campaigns to reduce urban motorcycle collisions.	safety project in any of the themes please contact us on: <u>motorcycle-projects@tfl.gov.uk</u> .		
BP2	Assessing the potential contribution of PTW dedicated highway features, such as access to bus lanes, priority at signals and surface treatments, to collision reduction.	We will email a simple question- naire for you to provide details of the projects. We will then 'showcase' examples of best practice as a resource for road		
BP3	Review and assess the effectiveness of high levels of targeted enforcement on collision reduction.	safety practitioners acros Europe. Thank you. www.esum.eu		
BP4	Evaluate the contribution of specific PTW remedial measures at collision 'blackspots' in urban areas.			
BP5	Assess the potential of improved PTW design in the reduction of collisions in urban settings.			
BP6	Evaluate the potential contribution of the introduction of frangible or 'softened' street furniture to reducing PTW injuries.			







## Methodology

- Initial appraisal using standard assessment form
- Key features of project listed
- Was monitoring data collected?
- What were the main outcomes?
- Shortlist of potential 'best practice' projects.









#### **BP1 – Training and Awareness**

- Initial Rider Training Programme (FEMA, ACEM, FIM)
- Honda Rider Simulator
- UK Bikesafe
- "Kill Spills" campaign
- Norwegian Rider Training Curriculum
- ACEM's "Lucky 13" campaign
- ACEM's Integrated Helmet Campaign.







**Initial results** 

## **BP2 – Highway Features**

- PTWs in bus lanes
- Moving mopeds from cycle lanes to the road (Netherlands)
- Strategic Motorcycle Safety Programme (Australia)
- IHIE Guidelines
- Road Safety Audit.













## **BP3 - Enforcement**

- Enforcement of Italy's helmet law effects on injuries
- Rider risk reduction courses UK
- ACPO Motorcycle Enforcement Strategy UK
- Netherlands moped helmet enforcement.







#### **Helmet Use in Fatal Accidents**



#### Catalonia

🛶 Greece 🛶 Portugal 💻 Spain 🐥 Catalonia









### **BP4 – 'Blackspots'**

- Shiny Side Up Partnership UK
- Victoria Motorcycle Blackspot Programme
- Involvement of PTW groups in Highway Design.











## **BP5 – PTW Design & Rider Protection**

Correct Stitching

- Motorcycle airbag systems
- Airbag jackets
- Motorcycle helmet standards
- ABS and advanced braking systems
- Tyre pressure monitors
- Standards for protective clothing
- Daytime Running Lights.















#### Total Vehicle design approach:

- What evidence exists that these models are safer?
- Concerning the analysis of PTW models, where the number of cases is limited by the short time in circulation (e.g. Piaggio's MP3) data is collected for additional cities with high model sales
- BMW's C1 model the only PTW designed from crash-worthiness design principles. 30,000 units sold since 1990s. Considers accident data from different countries, comparing C1 against similar cc model performance in urban (& interurban) areas.





## **BP6 – 'Soft' Highway Features**

- 'Super flexi poles' (Hulme City Australia)
- More identified which are applicable to rural routes
- 'Declutteriing' of the street environment.









- We still require YOUR input!
- More detailed analysis of projects identified as potential 'best-practice'
- Demonstration and transfer Best practice identified in the partner cities (and beyond)
- Successful interventions shared with transfer cities
- Wider transfer of best practice through eSUM website.





#### Motorcycle-projects@tfl.gov.uk

#### www.esum.eu

