

## *Annex 16*

### **PTW Black/White Spots - a Pan-European Road Hazard Report Form**

Please refer to this report as follows:

Delhaye, A. (2015), **PTW Black/White Spots - Using ICT for developing a Pan-European road hazard report form**, Annex 16 of the EC/MOVE/C4 project RIDERSCAN

**GRANT AGREEMENT NUMBER** MOVE/C4/SUB/2010-125/SI2.603201/RIDERSCAN

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**Project Start date:** 01/11/2011

**Duration** 42 months

**Organisation name of lead contractor for this deliverable:**

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<b>Due date of deliverable:</b>	<b>30/04/2015</b>	<b>Submission date:</b>	<b>30/04/2015</b>
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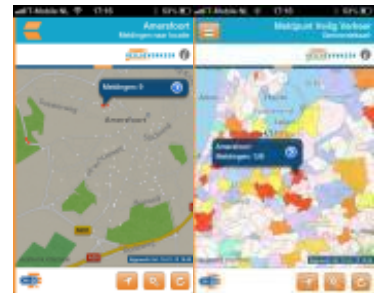
**Project co-funded by the European Commission**

**Dissemination Level: public**

# 1. Using ICT to improve road safety audits

## 1.1. The Dutch Road Safety Report System (RSRS)

In the Netherlands, a *Road Safety Report System* [*Meldpunt Veilig Verkeer*] was developed by VIA.nl in collaboration with the Dutch road safety organisation Veilig Verkeer Nederland (VVN) with the objective of *improving road authorities' insight into unsafe road traffic situations* and encouraging citizen involvement, *making road users active participants* in their own safety.

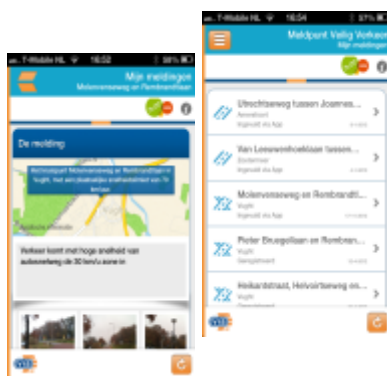


Recently, thanks to financial support from the Dutch Ministry of Transport, the *Road Safety Report System* has been expanded to encourage citizens (“community involvement”) to actively collaborate in road safety projects in their own neighbourhood, on a particular stretch of road or in a specific area. Today, the collaborative system enables citizens to report unsafe situations and to undertake specific projects (with the support of a helpdesk), with the overall aim of remedying the identified road safety issue. The software enables the setting up of *Citizen Roundtables* that allow citizens to undertake specific projects (independently or in cooperation with road authorities, police forces, or other partner organizations). Such projects are then supported by local, regional and national government bodies (road authorities), the police and road safety organisations.



Community involvement

This innovative collaborative approach provides authorities with a better overview of existing local initiatives and solutions to local road safety problems. It exploits activities in sectors close to citizens (e.g. users' organisations, the mobility sector, local media) to focus on the right target groups. Together the *Report System* and the *Roundtables* provide road authorities with a library of road safety issues and solutions to address them at local level or to plan strategic national action.



Smart applications linked to Social Media functionalities

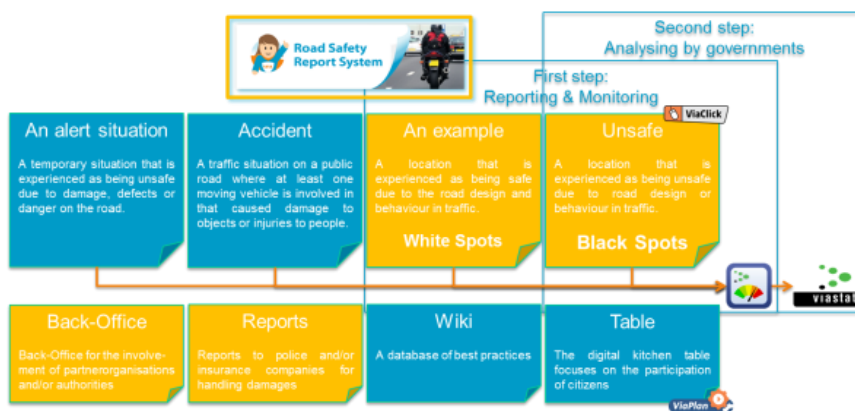
The *Road Safety Report System* uses the Dutch ‘PODOE method’ (Problem-Cause-Goal-Solution-Evaluation). It is an IT platform combining ICT and social media. The platform provides statistics and allows accurate analyses for different purposes and services. The Road Safety Report System's software system offers extensive options. In principle, every module can be implemented individually and an entirely unique structure can be created for a specific Road Safety Report System. The software also enables an integrated and systemic approach.

## 1.2. Towards a European Subjective Road Safety Database (EUSRSDB)

Upcoming developments of the system include the adding of a *European dimension* to the reporting system, along with the involvement of *specific road user groups* in the collection of data and identification of possible solutions. Turning the Dutch Road Safety Report System into a *European Subjective Road Safety Database (EUSRSDB)* is the logical next step.

To this end, cooperating with EU organisations with a common interest in improving road safety would not only increase the reporting and benchmarking capacity of the *Report System*, but would also improve *understanding of specific road user groups' needs* while fostering the setting up of a *common reporting system*, including *all modes of transport and age groups, monitoring and addressing dangerous traffic situations* in Europe.

In this context, the RIDERSCAN project/FEMA decided to collaborate with a view to including a PTW-specific dimension in the *EUSRSDB*, providing a specific understanding of PTW characteristics. More specifically, the FEMA and VIA.nl objective was to collaborate to enhance the data collection process and integrate all relevant motorcycling safety information into the *EUSRSDB*, while involving the European PTW user community in the data collection process; FEMA will also make use of and promote the use of *EUSRSDB* by road authorities and other relevant safety stakeholders throughout Europe.



More specifically, in the context of the RIDERSCAN project, the collaboration intended to specifically work on setting up the necessary tools allowing the riders' community to actively contribute to identifying

hazardous situations (black spots) for PTWs and successful installed solutions (white spots) in the scope of Deliverable 3 - *Reporting problems, existing solutions and identifying standardization needs*.

But despite every effort from both sides to set up the application in the course of the project, the time and effort required for technical issues, including the need to synchronize with existing similar IT developments among FEMA members, prevented the RIDERSCAN project from benefiting from this unique partnership. Nevertheless, following a broad consultation of FEMA member organisations and a review by Peter Saleh (AIT) and Kris Redant (BRRC), the RIDERSCAN D3 reference experts, the *PTW-specific Black/White spot form* is now ready for use.

## 2. A Pan-EU PTW Road Hazard Report Form

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### **Road Layout and Infrastructure Blackspot Identification:**

Use the following questionnaire to construct your report as accurately as possible.

#### **1. Where is the location of your road safety concern?**

Report your unsafe location on the map. Use your street, postal code and/or city name to search.

#### **2. I am reporting an unsafe road layout or infrastructure situation from the perspective of an operator of the following class of PTW:**

- Adventure/Trail
- Commuter
- Custom
- Electric
- Enduro/Cross
- Scooter/Moped (inc. 3-wheelers)
- Sport Tourer
- Supermotard
- Supersport
- Touring
- Trials
- Trike
- Other

#### **With an engine displacement of:**

- Below 125cc
- 125cc – 400cc
- 401cc – 700cc
- 701cc – 1000cc
- Above 1000cc

#### **3. What is your age?**

\_\_\_\_\_

#### **4. How long have you been riding PTWs?**

\_\_\_\_\_

#### **5. How long have you held a PTW licence?**

**6. My report of an unsafe road layout and/or infrastructure problem was due to:**

**(N.B. multiple choice)**

***(a) Traffic Management***

- Priority regulation
- Traffic lights
- Signage
- Road markings
- Busy traffic
- Road repairs
- Other

***(b) Road design and layout***

**(i) What type of road surface does the reported road section have?**

- Asphalt
- Concrete
- Bituminous surface or chipseal
- Stone slabs
- Gravel
- Brick
- Cobblestone or sett paving
- Dirt road
- Other

**(ii) With the identified problem being:**

- Inadequate road width
- Dangerous bend (e.g. small radius following a large bend radius etc.)
- Adverse camber
- A visual obstruction
- An obstruction in the road (e.g. manhole cover on the trajectory, construction works)
- The road restraint system (missing, guardrail posts, cables, no Motorcyclist Protection System etc.)
- Road lighting
- A speed bump/width restriction/chicane
- Confusing road layout
- Junctions

***(c) The condition of the road surface***

**(i) What type of road surface does the reported road section have?**

- Asphalt
- Concrete
- Bituminous surface or chipseal
- Stone slabs
- Gravel
- Brick
- Cobblestone or sett paving
- Dirt road
- Other

**(ii) With the identified problem being:**

- Slippery road surface from extraneous factors (e.g. film of asphalt binder appears on road surface etc.)
- Slippery road markings
- Unevenness
- Rutting (from high volume of HGV traffic etc.)
- Potholes
- Cracks in the road
- Fluids on the road (diesel/chemical spills etc.)
- Loose gravel or other foreign bodies on the road
- Poor/unfinished road repairs
- Other

**7. The selected problem affects the following vehicles:**

**(N.B. multiple choice)**

All vehicles

Only PTWs (inc. 3-wheelers)

All two wheelers (inc. bicycles)

All road users (inc. pedestrians)

**8. When does this unsafe road problem occur?**

***(a) It happens especially:***

All year round

In the spring

In the summer

In the autumn

In the winter

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In January  
In February  
In March  
In April  
In May  
In June  
In July  
In August  
In September  
In October  
In November  
In December  
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In fine weather conditions  
In wet conditions  
In conditions of reduced visibility  
In icy conditions  
In very hot conditions  
In windy conditions

**(b) On:**

A daily basis  
Workdays only  
Weekends only  
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Monday(s)  
Tuesday(s)  
Wednesday(s)  
Thursday(s)  
Friday(s)  
Saturday(s)  
Sunday(s)

**(c) And during:**

The entire day  
In the hours of daylight  
In the hours of darkness  
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Early morning (03:00h – 07:00h)  
Morning (07:00h – 11:00h)  
Lunchtime (11:00h – 15:00h)  
Afternoon (15:00h – 19:00h)  
Evening (19:00h – 23:00h)  
Night-time (23:00h – 03:00h)

**9. How unsafe do you find this location?  
(Scale of 1 – 5, very safe to very unsafe)**

**10. Have you:**

Fallen off/crashed here

Seen other PTW riders fall off/crash here

Not had or seen an accident involving a PTW here (go to Q11)

**(a) If so, was it:**

A single vehicle accident

Involve another vehicle (inc. bicycles)

Involve a pedestrian

**(b) And was it an error by the:**

PTW rider

The other party/parties

No fault by either party/parties

**11. How does this situation affect you and/or your riding behaviour?**

I am extra alert

I change my riding style

It concerns me however I do not take action

It does not bother me

I avoid this location

I inform others

**12. Have you ever been in contact with anyone concerning the safety issue at this location?**

**(a) Yes, with:** \_\_\_\_\_

**(b) From:**

A municipality

The police

The province

The relevant government department (e.g. transport/infrastructure/environment)

The road authority/operator

The press/social media

Another institution

**13. Are you willing to help improve road safety at this location?**

I am willing/not willing to help improve the unsafe road traffic situation that I have reported. I therefore give/do not give consent for the road safety organisation or government authority to use my personal details when dealing with my report