



Predicting Road Accidents - a Transferable methodology across Europe

European Safety Review Tool

FINAL PROJECT WORKSHOP: 3rd June 2016 - Manchester, UK

The PRACT Project

PRACT is a research project funded by the National Road Authorities of Germany, Ireland, UK and the Netherlands within the Conference of European Directors of Roads (CEDR) 2013 Transnational Research Programme on Safety, which was completed within May 2016. The primary objective of the PRACT Project was **the development of an European accident prediction model structure** that could be applied to different European road networks with proper calibration.

PRACT project provides a **practical Guideline** and a user friendly tool that allows the different road administrations to adapt the basic APM function to local conditions based on historical data, identify the CMFs that could be relevant for the specific application, verify if the selected CMFs are transferable to the specific condition and apply the calibrated model to the specific location to be analysed.

The final outcome of the project is **the PRACT - Repository**, an interactive tool supporting road authorities decision making by offering them the possibility to search among more than 270 Accident Prediction Models and more than 880 Crash Modification Factors with a large number of key search parameters.

The ESReT Project

Various initiatives have been undertaken in Europe, including the development of specific legislation relating to road infrastructure management, to address ongoing road network safety issues. The European Directive 2008/96/EC dealing with Road Infrastructure Safety Management requires road authorities to undertake road safety impact assessments, road safety audits, identification of high accident concentration sections and safety inspections on the trans-European road network. The Directive states that high priority road sections that have a high concentration of accidents should be evaluated by expert teams through site visits.

The Conference of European Directors of Roads (CEDR) funded **European Safety Review Tool (ESReT)** main aim was to build a platform that would enable end-users collate data along poorly performing road network sections using low-cost mobile devices (Smartphones, dashcams) and upload this data to a scalable cloud-based road network platform, where various deficits and treatments could be identified. Core platform modules include; National Design standard definition, geometric element computation, user-tagging, deficit identification, treatment reporting - all based around an intuitive road-safety project management & network mapping interface.

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Workshop Programme

09:00 – 09:30 Welcome Reception

PRACT project:

09:30 – 09:45 Introduction (F. La Torre - UNIFI)

09:45 – 10:10 APM/CMF review and Questionnaire (G. Yannis - NTUA)

10:10 – 10:35 APM/CMF modelling: data need, modelling methods and results of PRACT CMF development (S. Ruhl - TUB)

10:35 – 11:00 Statistical issues of APM/CMF transferability and recommendations (D. Graham - ICL)

11:00 – 11:45 Project results for practitioners I: PRACT Repository (T. Dragomanovits - NTUA)

11:45 – 12:30 Project results for practitioners II: PRACT Tool & Guideline (F. La Torre - UNIFI)

12:30 – 13:15 Lunch Break

ESReT project

13:15 – 13:45 Project Overview: Background, Rationale, Platform (T. McCarty - NUIM)

13:45 – 14:30 Demonstration: Various Modules, Ingestion, Storage, Discovery, Retrieval, Fusion, Visualisation, Analysis, Reporting, Mobile Data Acq. (R. Burke, P. Lewis - NUIM)

14:30 – 15:00 Lessons Learnt, Future Direction, Questions and answers (T. McCarty, R. Burke, P. Lewis - NUIM)

Workshop registration:

send an e-mail till 27th May 2016 to Mr. Stephan Ruhl, s.ruhl@spb.tu-berlin.de

Workshop location: Highways England, Room: 36-38-40, Piccadilly Gate, Store Street, Manchester, M1 2WD England

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