RISMET: Project Overview

Presentation to the Joint SRO1 and CEDR TG Road Safety Meeting

G Schermers
PROJECT CONSORTIUM

- SWOV (Project co-ordinator)
- National Laboratory for Civil Engineering (LNEC)
- Dresden University of Technology (engineering/psychology)
- Austrian Road Safety Board (KfV)
- Institute of Transport Economics, Norwegian Centre for Transport Research (TOI)
- Transport Research Laboratory (TRL)
Background to RISMET

Road Infrastructure Safety Management Evaluation Tools

Responds to general goal of Safety at the Heart of Design

“..improvement of road safety through increased awareness and acceptance to implement joint road safety solutions”

More specifically

“seeks appropriate solutions and measures for rural road throughout Europe”
Problem Statement

• Existing techniques, tools and models for evaluating road safety engineering measure inadequate
• Not suited to measure effect of (elements of) design on behaviour and safety
• Techniques have no/limited predictive ability, at local and/or network level
• Relevance of traditional techniques (accident dispersion)
Rismet objectives

• Define minimum data requirements
• Develop uniform methodology for data collection and analysis
• Assess applicability of existing evaluation tools
• Amend or develop tools for assessing efficacy of safety engineering solutions (road, traffic and drivers)
• Evaluate the applicability of (new) tools
• Formulate good practice guidelines
• Develop criteria for benchmarking safety performance
Overall WORK PLAN

• WP 1: Project management and dissemination
• WP 2: Data systems and requirements
• WP 3: Applicability of existing evaluation tools
• WP 4: Development of new evaluation tools
• WP 5: Guidelines and codes of practice
WP 1 PM and dissemination (SWOV)

• Project Management
  ▪ Project management and financial administration
  ▪ Project meetings; Project Steering Committee and Executive Board meetings
  ▪ Reporting and service delivery

• Dissemination
  ▪ Project Website (http://rismet.swov.nl)
    ❑ Detailed project work plan
    ❑ Short progress reports
    ❑ Interim and final reports
  ▪ External user group (CEDR??)
  ▪ One day seminar
WP 2 Data systems and requirements (KfV)

- Description of variables and type of data
  - Results of road safety studies
  - Description of relationship roadway elements and safety
- Survey among road authorities
  - Baseline of available accident, geometric, traffic, etc data
  - Reliability and coverage
  - Collection and maintenance costs
  - Recording and reporting systems
- Status Quo report
WP3 Applicability of existing tools (TOI)

- Quick scan/overview of existing tools and techniques
- Development of assessment criteria (PEB/NRA’s)
  - Data requirement; standardised procedures; reporting; skill levels; objectivity; updating
- Survey among road authorities/practitioner
  - Type of tool, application and purpose
  - I/O requirements and capabilities
  - Model assumptions etc
- State of the art report (Assessment)
WP 4 Development of evaluation tools (LNEC)

- Selection of appropriate evaluation techniques
  - Pilot applications using country specific data
- Optimisation of APM’s
  - Synthesis of APM development
  - Methodology for APM development
- Model application and testing
- Evaluation
- Country reports
**WP 5 Guidelines and codes of Practice (SWOV)**

- Data requirements/specifications
  - Data acquisition (techniques; sampling, inference etc)
  - Data specifications
- Road infrastructure safety management evaluation tools for higher order rural roads (State of the Art)
  - Reactive approaches (blackspots, conflicts, risk, etc)
  - Pro-active approaches (RSA, RSI, Roadview etc)
  - Accident prediction models (general, specific)
- Future research
Timescales

- Detailed Workplan (end Oct 2009)
- Website (end Jan 2010)
- External user group (end Oct 2009)
- WP2 (end March 2010)
- WP 3 (Oct 2010)
- WP 4 (March 2011)
- WP5 (Aug 2011)
- ERANET seminar (Aug 2011)
• QUESTIONS ????