The TYROSAFE Project

Manfred Haider
arsenal research
Scientist
manfred.haider@arsenal.ac.at

6th symposium on pavement surface characteristics

SURF 2008

Portorož, Slovenia
Overview

- Project information
- Background and concept
- Objectives of the project
- Project structure
- Work packages
- Impact
Project Information

- Negotiation Phase
- FP7 Coordinated Action
- Consortium:
  arsenal research (Austria), BASt (Germany),
  LCPC (France), RWS-DVS (The Netherlands),
  TRL (UK), ZAG (Slovenia), FEHRL (Belgium)
- Duration: 2 years
- Approximately 1.1M EUR total
- Starting date: 1st July 2008
- Webpage: http://tyrosafe.fehrl.org
Background

Skid resistance (safety)
Rolling resistance (energy)
Noise emission (health)

Interdependencies ??

different ...
- measuring policies
- measuring methods
- measured parameters

Portorož, Slovenia
Portorož, Slovenia

Concept

Identify best practice(s)

Knowledge sharing & awareness raising

Development of new solutions & technologies

Adoption & harmonisation

TYROSAFE
Objectives

- raise awareness, coordinate and prepare
- for European harmonisation and optimisation
- of the assessment and management of essential tyre/road interaction parameters
- to increase road safety and support greening of European road transport
WP1 Policies of EU countries of skid resistance, rolling resistance and noise emissions

WP2 Harmonisation of skid-resistance test methods and choice of reference surfaces

WP3 Road surface properties – skid resistance, rolling resistance, noise emissions

WP4 Environmental effects and impact of climatic change – skid resistance, rolling resistance, noise emissions

WP5 Dissemination and raising awareness
WP1 Policies of EU countries for skid resistance / rolling resistance / noise emissions

- EU policies and standardisation work
- Current position in EU member states
- Differences, advantages/disadvantages of approaches
- Implications for introduction
- Organisation of expert workshops
WP2 Harmonisation of skid-resistance test methods and choice of reference surfaces

- Test methods and surfaces for skid resistance in EU member states
- Differences, advantages/disadvantages of approaches
- Suggest a harmonisation method (reference device and surfaces)
- Road map/implementation plan (2010, 2015, 2020)
- Organisation of expert workshops
WP3 Road surface properties – skid resistance / rolling resistance / noise emissions

- Describe different parameters of road surfaces and tyres
- Identify interdependencies
- Recommendations for optimisation of road surfaces and tyres
- Identify lack of knowledge
- Organisation of expert workshops
WP4 Environmental effects and impact of climatic change

- Identify research areas for possible environmental effects due to optimisation of specific parameters
- Identify possible impact of climatic change on skid resistance, rolling resistance and noise emissions
- Organisation of expert workshop
WP5 Dissemination and raising awareness

- Dissemination of project and related research activities
- Raising of awareness of the project topics and activities to
  - general public
  - public officials
  - interested experts
- Demonstrate the importance of EC research in the field of tyre/road interaction for road safety and environment
- Organisation and management of stakeholder reference group

Portorož, Slovenia
Stakeholder Reference Group

Consensus mechanisms

Workshops/expert working groups WP1 / 2 / 3 / 4 / 5

operative work in WP 1 / 2 / 3 / 4 / 5

TYROSAFE web forum

Workpackage meetings

Project management group meetings

TYROSAFE project consortium

Public
Impacts

- **Recommendations for common European policies and approaches concerning the tyre/road interaction effects**

- **Improving Safety**
  - Reduction of accidents due to safer, comparable roads (better skid resistance)
  - Safer roads allow for increased mobility
  - Comparable road behaviour on European Roads decreases level of human error

- **The Greening of Surface Transport**
  - Recommendations for optimising road surfaces and tyres towards low rolling resistance (reduced CO₂ production) and noise emission

Portorož, Slovenia
Current Activities

- Questionnaire on skid resistance, noise emissions and rolling resistance policies (available from roland.spielhofer@arsenal.ac.at)
- Workshop on policies for skid resistance, noise emissions and rolling resistance
  ➔ 22nd October, Portoroz, 13.00 – 17.30 h
  Participation is free
- TYROSAFE session at Tyre Tech Expo, Feb. 2009 (information: manfred.haider@arsenal.ac.at)
Contact Information

Project Coordinator: Damaris Omasits
damaris omasits@arsenal.ac.at
+43-50550-6228

Interested in project progress?  
Want to participate at Expert Workshops?  
Just send an e-mail, we will keep you updated!