An overview of the TYROSAFE project

Tyre and Road Surface Optimisation for Skid Resistance and Further Effects

3rd TYROSAFE Workshop
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Project information

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

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

Interdependencies ??

different …
- measuring policies
- measuring methods
- measured parameters
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
Topics of WP3:

- Describe different parameters of road surfaces and tyres
- Identify interdependencies
- Recommendations for optimisation of road surfaces and tyres
- Identify lack of knowledge and proposals for further research concerning the optimisation of road surfaces and tyres
- Organisation of expert workshops
• matrix / matrices focusing on all properties (no one of the three should be neglected)
• **but:** in practice the 3 properties (skid resistance, rolling resistance and noise emissions) are often weighted differently

example:
Outputs and impact

Expected output and impact

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

• Improving Road 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
Thank you for your attention and interest on behalf of the TYROSAFE team!

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