



The TYROSAFE Project

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arsenal research

A Company of Austrian Research Centers

Overview

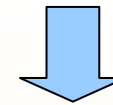
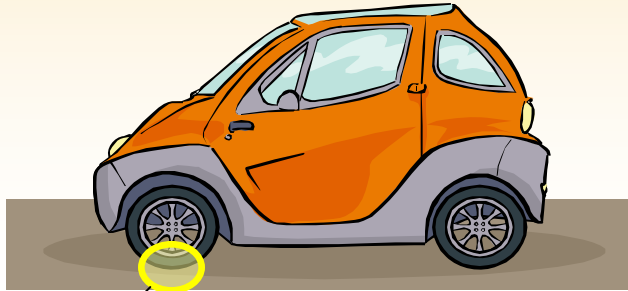
- **Project information**
- **Background and concept**
- **Objectives of the project**
- **Project structure**
- **Work packages**
- **Impact**



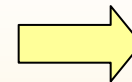
Project Information

- **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)

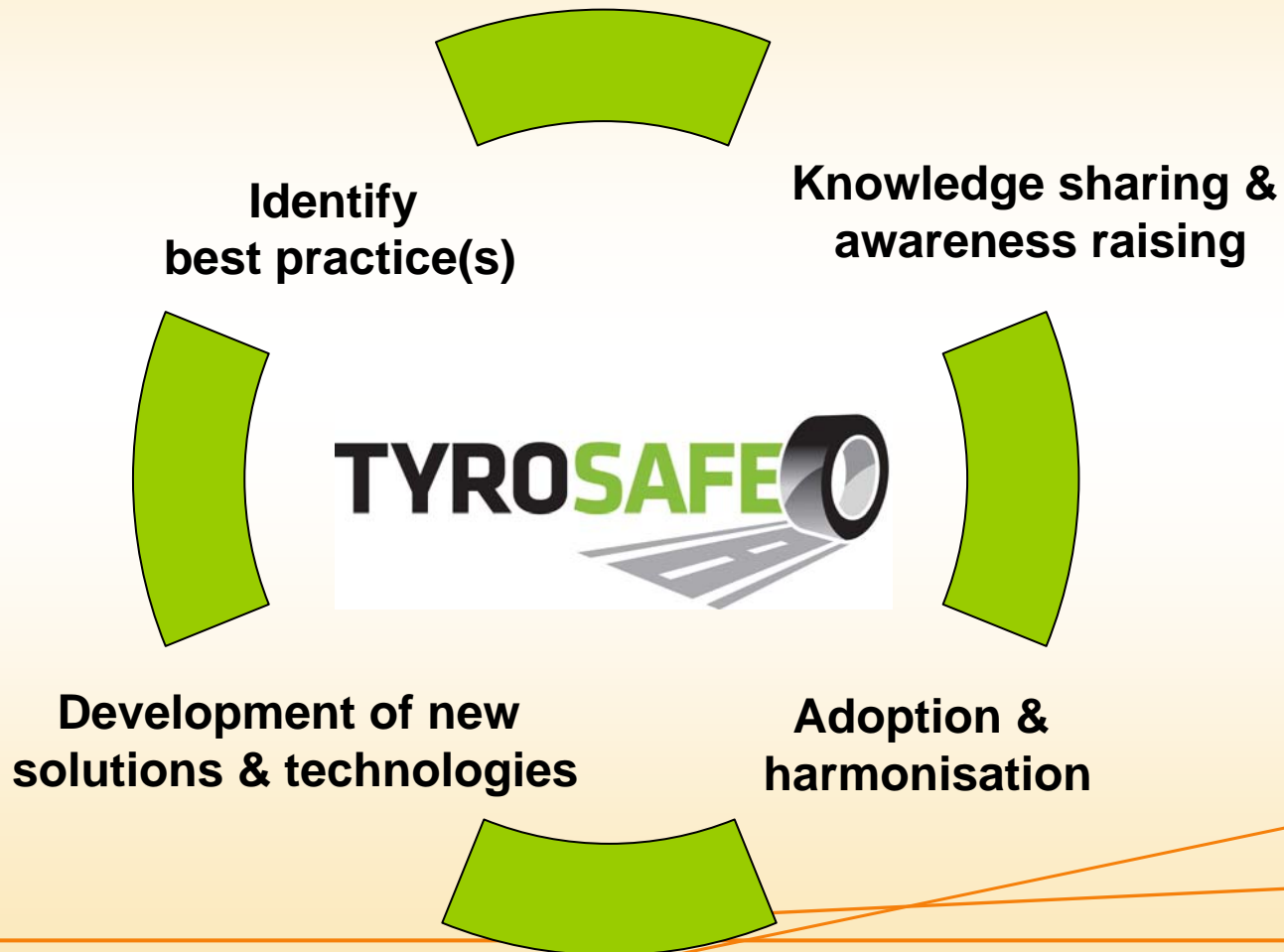


different ...

- measuring policies
- measuring methods
- measured parameters

Interdependencies ??

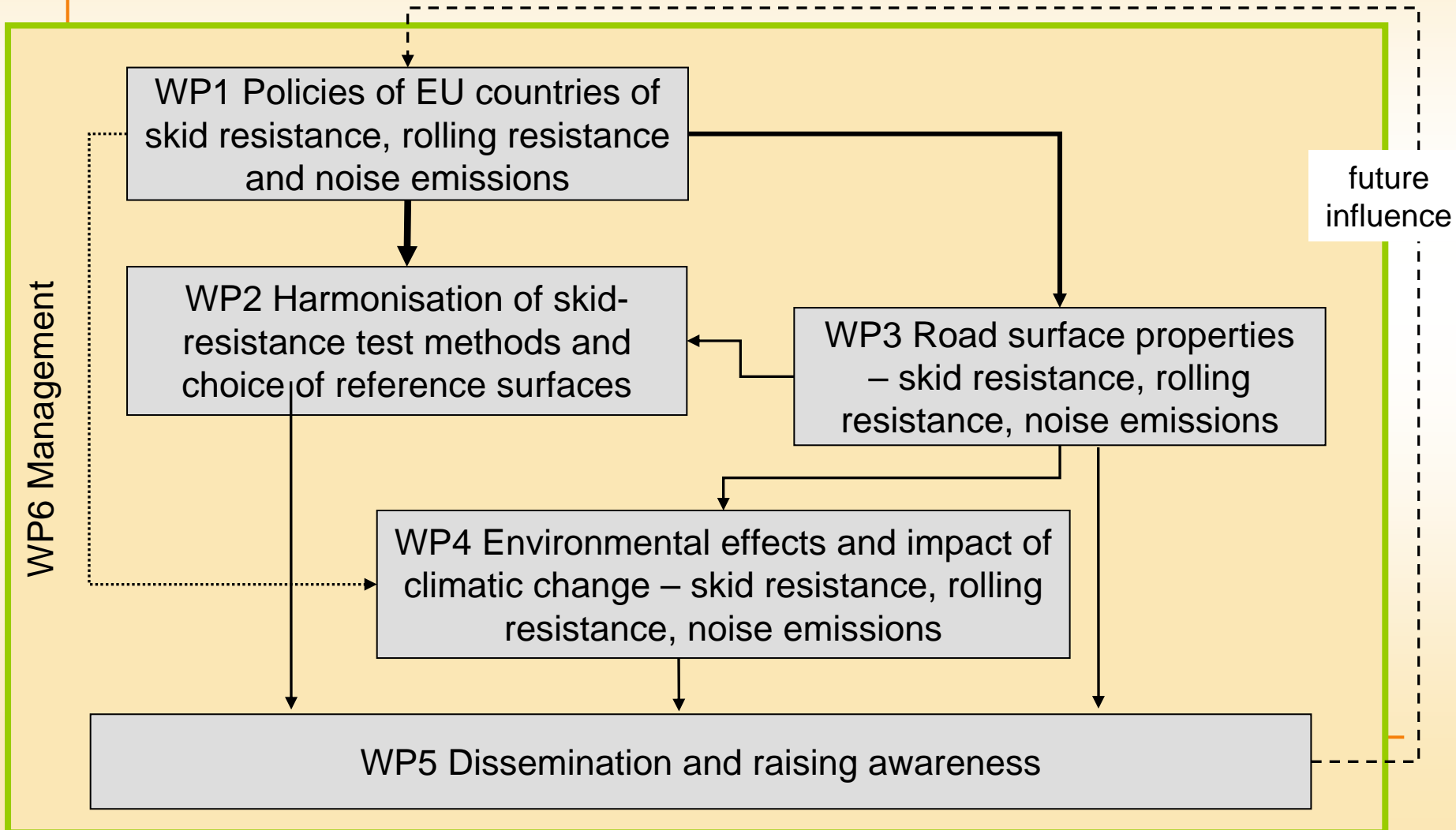
Concept



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**

Work Packages



WP1 Policies of EU countries for skid resistance / rolling resistance / noise emissions

- o EU policies and standardisation work**
- o Current position in EU member states**
- o Differences, advantages/disadvantages of approaches**
- o Implications for introduction**
- o 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

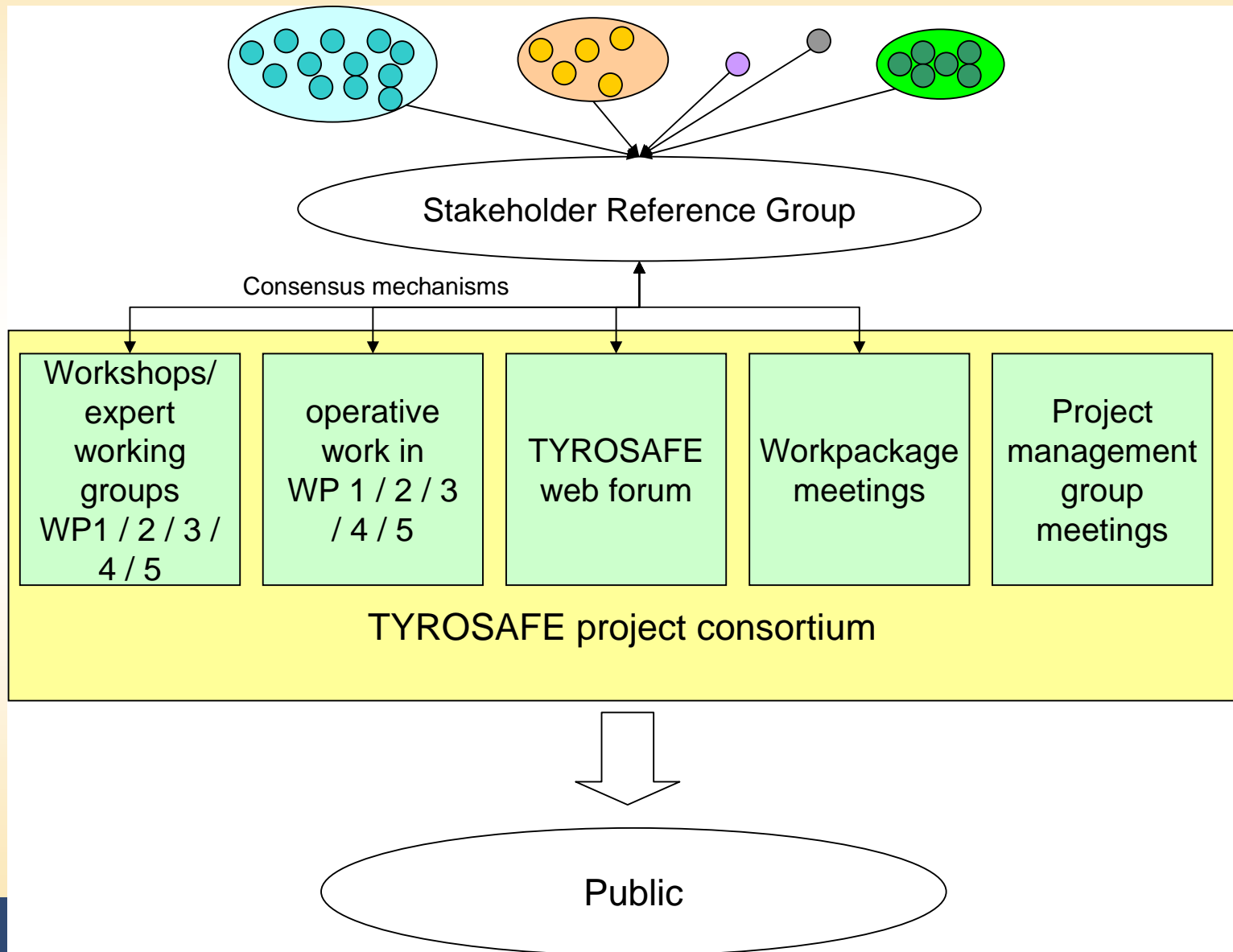
- Describe different parameters of road surfaces and tyres**
- Identify interdependencies**
- Recommendations for optimisation of road surfaces and tyres**
- Identify lack of knowledge**
- Organisation of expert workshops**

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**



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

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**
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Contact Information

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