

STEER – Strengthening the Effect of quieter tyres on European Roads

CEDR Programme: Call 2018 – Noise and nuisance

Project Duration: 01/12/2019 – 30/11/2021

Partners: Grolimund+Partner (Coordinator, Switzerland), VTI (Sweden),
BRRC (Belgium), SINTEF (Norway), NOKIAN (Finland)

Project introduction

The main objective of STEER is to provide the **basis for decision makers** allowing them to **develop new guidelines and policies to enhance the impact of quieter tyres on European roads**. The focus is thereby laid on the development of practical solutions that, firstly, improve the noise labelling for tyres with regard to its reproducibility and representativity, and, secondly, on measures that can be implemented by EU and national regulating bodies to create impact on European roads. To ensure that the precious resources can be directed towards targeted work needed to develop these solutions, STEER will compile and **make use of the extensive body of existing knowledge** already generated on the topic (WP 2). This WP takes existing findings and identifies gaps that need improvement to increase impact. The results of WP2 will provide the basis for all subsequent tasks. WP 3 provides an **improved noise labelling system for tyres**. WP4 provides an improved methodology to **ensure the representativity** of the tyre labelling for EU roads. WP5 provides and thoroughly evaluates a **canvas of pathways** for EU and national regulating bodies to enhance the proliferations of quieter tyres. The results of STEER are generalised and prepared in a way, that they **directly address the most important target groups** (WP 6).

The STEER consortium includes a European tyre company as a full partner. This is crucial for such a project, as those who deal with the issues on a daily basis and also with economic and legal consequences may look at things quite differently than academic researchers.

Project novelty

- estimation of uncertainties of the current labelling procedure and establishment and evaluation of improved labelling procedure with enhanced repeatability and representativity without significantly increasing the costs for the tyre industry
- Analysis of the impediments (costs and technical constraints) and options for tyre manufacturers to produce quieter tyres without sacrificing fundamental performances
- impact analysis and an evaluation of the effectiveness of different strategies/scenarios for the proliferation of quieter tyres
- Interpretation of existing business case analyses from NRAs that have quantified the benefits of realistic scenarios for a successful tyre labelling system, in terms of health benefits and avoided costs for noise mitigation
- analysis of the benefits regarding noise reduction up to 2030 due to the impact of Regulation 661/2009 but also an analysis of the possible benefits of implementing a stricter low noise tyre regime

Work Packages

WP	Work Package title	WP responsibility
1	Coordination and project management	G+P
2	Identification and discussion of the problem	SINTEF
3	Solving the reproducibility issues of tyre labels	VTI
4	Improving the representativity of tyre labels for the noise emission on actual European roads	BRRC
5	Impact analysis and scenarios	G+P
6	Conclusions, recommendations and dissemination	G+P