

HERMES – Innovative, Highly-Efficient Road Surface Measurement and Control System

About the Project

Contract Number

FP7-SME-2012-315029

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Project Website

www.hermesroadmeasurement.eu

EU Contribution

1,228,353 EUR

Project Start Date

1st August, 2012

Duration

24 months



Project innovation

One of the most important aims in today's transport systems is the security they provide. Even though in air and rail transports we have managed to have extremely low accident and death rates, this is not the case with road transport. The majority of the EU countries are now heading towards the "Vision Zero" philosophy in which road deaths become as unacceptable as they are in a factory, in the air or on a railway. However, in order to reach this aim, several improvements are needed in numerous areas including cars, driving habits and the quality of roads

In response to this demand, the **HERMES** project aims at improving the road infrastructure by introducing a novel road quality measurement solution based on a pioneering approach

The system under development enables measurements of both the longitudinal and transversal profiles of a road to be simultaneously undertaken from a specially-equipped vehicle travelling at normal road speeds and at a low infrastructure cost. This approach represents a significant advancement in the state-of-the-art by eliminating the requirement for an inertial reference level whilst, additionally, improving accuracy of measurements by providing a solution for resolving errors otherwise resulting from the dynamics of a moving vehicle. Moreover, within the **HERMES** project, the road profile measurements will be integrated with their precise geographical location, while an innovative toolset for data analysis will be developed so as to allow efficient processing of the huge amounts of data collected by the measurement vehicles.

Project Partners

Ardoran OÜ



Wing Computer Group



MobileMedia



Prometeo Innovations



National Institute of R&D for Optoelectronics



Tallinn University of Technology



Electronics Design



Telecommunication Systems Institute

