

PROJECT

STMS

Smart Tyre Management System for Safer, Greener and More Economic Transport through Innovative Technology for Smart Infrastructure from Silent Sensors Limited.

Funding: European (Horizon 2020)

Duration: Jun 2016 - Nov 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



[CORDIS RCN : 204385](#)

Objectives:

When they're not managed properly, tyres fail. That failure costs lives, money and efficiency. Smart people in the transport business need Silent Sensors smart technology.

The Silent Sensors system manages tyres through every stage from manufacture to maintenance and monitoring for repair, reuse and recycling. By doing so it delivers three things:

- Greater fuel efficiency – when 25% of a haulage company's costs are fuel, small fuel savings become big. With the Silent Sensors tyre management system we estimate between 2% and 6% fuel savings.
- Increased tyre life – by managing your tyres properly, you will achieve a significantly longer life for tyres. Spread over thousands of tyres used annually in a fleet, this leads to more money retained by the business.
- Much safer tyres – 20% of road accidents are caused by tyre failures. When tyres are properly maintained by Silent Sensors systems, there are fewer failures, and much safer transport.

Silent Sensors provides an efficient, easy tyre management system at a low cost using patented RFID technology. It measures tyre pressure, tread and temperature by simply applied sensors, allowing fleet owners to better manage one of their most vital resources. It is a precise, practical and world-leading system.

The skilled, experienced team behind Silent Sensors have brought the system to a point where trials are in progress with a large fleet truck business in the UK. The Phase 1 feasibility study will create an elaborated business case that should support the development and commercialisation of this solution, initially working with our UK trial partner, then trials in Scandinavia and India and eventual expansion to the remainder of Europe and Asia, specifically China. The study will support the next steps which will require the Phase 2 funding to develop the prototype sensor product to a mass manufactured version where economies of production and scale will reduce costs to a level that will make it irresistible.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Silent Sensors Limited

Address:

SUITE 98, 28 OLD BROMPTON ROAD

LONDON
SW7 3SS
United Kingdom

EU Contribution: €50,000

Technologies:

Sensor technologies
NFC and RFID tags for complete lifecycle tracking of
tyres

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Digitalisation, Environmental/Emissions aspects

Geo-spatial type: Other