

PROJECT

SimuSafe

SIMULATOR OF BEHAVIOURAL ASPECTS FOR SAFER TRANSPORT

Funding: European (Horizon 2020)

Duration: Jun 2017 - Nov 2020

Status: Complete

Total project cost: €8,739,480

EU contribution: €7,991,600



[CORDIS RCN : 210791](#)

Objectives:

Road transport is known to be the most dangerous of all transport modes and poses a major societal challenge for EU. It has been claimed that 90% of road-traffic crashes are caused by driver error, being a significant factor in traffic accidents. Improving road safety means understanding the individual and collective behaviour of actors involved (drivers, two wheelers, pedestrians) and their interaction between themselves and safety-related systems and services.

The goal of SIMUSAFE (SIMULator of Behavioural Aspects for SAFER Transport) following the FESTA-V model methodology is to develop realistic multi-agent behavioural models in a transit environment where researchers will be able to monitor and introduce changes in every aspect, gathering data not available in real world conditions.

Driving simulators of several vehicles (cars, motorcycles, bicycles) and virtual reality (for pedestrians) will be used to simulate test environments. This will also enable the evaluation of scenarios which are not possible even with naturalistic driving (dangerous conditions, multiple monitored actors in the same scene, under influence of substances etc.). Data collected from simulations will be correlated with naturalistic driving tests, such that the simulation and model aspects are the closest possible to real world data.

From the developed model and collected data, impacting factors causing an event (crash, near-collision, infractions) from the environment and road users will be identified and quantified. Such knowledge will be the base for the development of more effective and pro-active measures for the prevention and mitigation of such factors, with subsequent impact in the safety devices market, regulations and driver education.

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:

Instituto Tecnológico De Castilla Y Leon

Address:

Pol.Ind. Villalonguejar - C/Lopez Bravo, 70
09001 BURGOS
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EU Contribution: €873,125

Partner Organisations:

Europäische Fahrlehrer Assoziation

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ALBOINSTR 56
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EU Contribution: €173,150

Coventry University

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EU Contribution: €675,700

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EU Contribution: €443,125

Prometeo Innovations SIne

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Organisation Website:

<http://www.prometeoinnovations.com>

EU Contribution: €466,875

The University Of Iowa

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EU Contribution: €0

Twente Medical Systems International B.v.

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Organisation Website:

<http://www.tmsi.com>

EU Contribution: €406,188

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EU Contribution: €427,313**Brainsigns Srl****Address:**

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EU Contribution: €351,250**Universidade Do Porto****Address:**

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EU Contribution: €384,375**Maelardalens Hoegskola****Address:**

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EU Contribution: €753,825**Aptiv Services Deutschland Gmbh****Address:**

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EU Contribution: €910,375**Progres 123 Sro****Address:**

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EU Contribution: €0**Institut Francais Des Sciences Et Technologies Des Transports, De L'amenagement Et Des Reseaux****Address:**

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EU Contribution: €664,050

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EU Contribution: €838,500

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EU Contribution: €323,125

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EU Contribution: €300,625

Technologies:

Safety systems
Technologies to improve road safety

Development phase: Research/Invention

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport

Geo-spatial type: Other