PROJECT

Silver Stream

Social innovation and light electric vehicle revolution on streets and ambient

Funding: European (Horizon 2020)

Duration: Jun 2015 - May 2018

Status: Complete

Total project cost: €4,573,568

EU contribution: €3,990,111

Call for proposal: H2020-GV-2014

CORDIS RCN : 194903

Objectives:

The SilverStream project addresses the challenges associated with sustainable and affordable personal mobility for the growing and ageing population in congested European cities. The project combines both ergonomic concepts conceived for elderly people and advanced automotive technologies that are quiet, clean, energy efficient and safe. The particular objectives of SilverStream are:

1. specifications related to the needs of urban and ageing population;
2. enhanced vehicle manoeuvrability for urban context;
3. sustainable ergonomics, health monitoring and adaptive HMI for minimum-fatigue vehicle operation;
4. dual voltage 12/48 V power network for modular and scalable E/E architecture;
5. hybrid energy storage system for extended operating life and increased efficiency;
6. compact in-wheel drive units for light urban mobility solutions;
7. maximizing project impact for enhanced European competitiveness.

To achieve these objectives, the SilverStream project brings together 10 committed and complementary European partners that cover the whole value chain, including SMEs, large industry, academia and research institutes. The developed technologies will be driven by a team of expert in the field of medical and cognitive science domain through a top-down approach, and will be demonstrated with a vehicle prototype running in a realistic test environment.

In conclusion, SilverStream will develop and demonstrate a radically new light and affordable vehicle concept (L-category). In doing so, SilverStream provides one possible mobility solution to address the tough challenges faced by Europe in relation to the field of air quality, noise and environmental protection, traffic congestion, competiveness and jobs preservation, as outlined in the specific challenge of the work programme.

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:

Imarine Deniz Teknolojileri Ve Arastirmalari Sanayi Ve Ticaret Anonimsirketi

Address:

GOZTEPE MAH. GOKSU EVLERI MENEKSE SOK. B237B ANADO EYKOZ
34815 ISTANBUL
Turkey

Organisation Website:
http://www.infineon.com

EU Contribution: €439,640

Partner Organisations:

Infineon Technologies Austria Ag

Address:
SIEMENSSTRASSE 2
9500 VILLACH
Austria

Organisation Website:
http://www.infineon.com/austria

EU Contribution: €400,625

Ideas & Motion Srl

Address:
Via Santa Margherita 8
12051 Alba
Italy

EU Contribution: €468,750

Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

Address:
HANSASTRASSE 27C
80686 MUNCHEN
Germany

Organisation Website:
http://www.fraunhofer.de

EU Contribution: €402,418

Elaphe Pogonske Tehnologije Doo

Address:
Teslova Ulica 30
1000 Ljubljana
Slovenia

EU Contribution: €414,250

Jac Italy Design Center Srl

Address:
VIA TORINO 21 B
10044 PIANEZZA
Italy

EU Contribution: €300,250

Fondazione Centro San Raffaele

Address:
VIA OLGETTINA 60
20132 MILANO
Italy

Organisation Website:
http://www.fondazionesanraffaele.org

EU Contribution: €290,000

Maxwell Technologies Sa

Address:
ROUTE DE MONTENA 65
1728 ROSSENS
Switzerland

Organisation Website:
http://www.maxwell.com

EU Contribution: €0

M.t.m. Srl

Address:
VIA LA MORRA 1
12062 CHERASCO
Italy

EU Contribution: €829,750

University Of Surrey

Address:
Stag Hill
Guildford
GU2 7XH
United Kingdom

EU Contribution: €444,429

Technologies:

Road vehicle design and manufacturing
Motion simulation method for ergonomics

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps: Transport electrification, Vehicle design and manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Societal/Economic issues, Safety/Security

Geo-spatial type: Urban