PROJECT

DREEM

Designing useR centric E-kickscooters & business models for Enhancing interModality

Funding: European (Horizon 2020)

Duration: Feb 2021 - Jan 2023

Status: Ongoing

Total project cost: €2,617,469

EU contribution: €1,925,416

Call for proposal: H2020-LC-GV-2020

CORDIS RCN : 231863

Objectives:

The use of different and optimally combined transport modes in a seamless way is one of the key challenges to achieve greater sustainability in smart cities transport systems. Each mode of transport has its own advantages and satisfies different mobility purposes and needs. The core of the new electrified micro vehicle concept is to combine design and user needs for easier usage within traditional transportation modes (e.g. public transport) in both urban and suburban areas.

The project aims at finalizing and testing a safer and modular electric kick scooter (e-KS) for personal urban and suburban mobility. It presents 2 main innovation levels: on the vehicle side with the development of new features in term of modularity, foldability and improved safety; on the systemic side, the consortium will study and present (a) new business model(s) for a win-win situation for all stakeholders. The consortium relies on the extensive experience of consortium partners, on key learnings of on-going projects (e.g. H2020 STARS, CIVITAS Eccentric, IMOVE, STEVE, EU-LIVE), main partner core business (Bumpair for safety, Elaphe & Domel for in-wheel motor and motor controls) and on the inputs from an Advisory Group within the project that will involve representatives from mobility managers, local and city administrators and standardization and certification bodies.

Once users' needs have been identified and analysed, DREEM aims to test a 3-wheel electric kick scooter in three (3) different pilot cases. Dissemination of key mobility patterns and best practices will be part of the project. While starting with vehicle design and vehicle architecture, the proposal will also explore the feasibility of innovative business models and circular economy.

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)

Other programmes: LC-GV-08-2020 Next generation electrified vehicles for urban and suburban use

Lead Organisation:

Punch Torino Spa

Address:
CORSO CASTELFIDARDO 36
10129 TORINO
Italy

EU Contribution: €558,578

Partner Organisations:

5T S.r.l.

Address:
Via Bertola 34
10122 TORINO
Italy

EU Contribution: €98,700

Elaphe Pogonske Tehnologije Doo

Address:
Teslova Ulica 30
1000 Ljubljana
Slovenia

EU Contribution: €179,463

Tractebel Engineering

Address:
BOULEVARD SIMON BOLIVAR 34 - 36
1000 BRUXELLES
Belgium

Organisation Website:
http://www.tractebel-engineering-gdfsuez.com

EU Contribution: €49,875

Three O'clock

Address:
145 RUE DE PELLEPORT
75020 PARIS
France

EU Contribution: €319,375

Domel Elektromotorji In Gospodinjski Aparati D.o.o.

Address:
OTOKI 21
4228 ZELEZNIKI
Slovenia

EU Contribution: €252,350

Iclei European Secretariat Gmbh

Address:
Leopodring 3
79098 FREIBURG
Germany

Organisation Website:
http://www.iclei-europe.org

EU Contribution: €253,063

Bumpair

Address:
11 RUE DE L'ACADEMIE
67000 STRASBOURG
France

EU Contribution: €156,450

Goeteborgs Universitet

Address:
Vasaparken
40530 Goeteborg
Sweden

Organisation Website:
http://hum.gu.se/institutioner/romanska-sprak/iberoamerikanskainstitutet/personal/rosalba-icaza

EU Contribution: €57,563

Technologies:

Information systems
Sustainable urban mobility planning

Development phase: Demonstration/prototyping/Pilot Production

STRIA Roadmaps:
Transport electrification, Vehicle design and manufacturing, Smart mobility and services

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Societal/Economic issues, Environmental/Emissions aspects, Safety/Security

Geo-spatial type: Urban