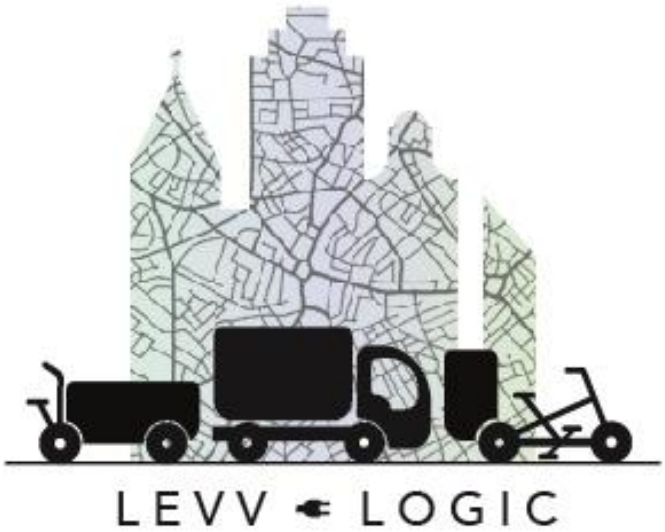
Amsterdam University of Applied Sciences

SiA

Introduction

LEVV-LOGIC project

Project type: Dutch RAAK-mkb project
Project duration: September 2016 – August 2018
Coordinator: Walther Ploos van Amstel (lector City Logistics)
Project leader: Susanne Balm
Contact: levvlogic@hva.nl
Dutch website: www.hva.nl/urban-technology/projecten/expertise-projecten/item/levv.html



1. Introduction

The LEVV-LOGIC project explores the use of Light Electric Freight Vehicles (LEFVs) for the distribution of goods in cities. In this project the Amsterdam University of Applied Sciences and the Rotterdam University of Applied Sciences develop knowledge on logistics concepts and business models with LEFV. This is done in close collaboration with logistics service providers, shippers, vehicle suppliers, network organizations, knowledge institutions and municipalities. The goal: a cost-effective use of LEFV for city logistics.

The two-year study is co-funded by the RAAK-mkb grant. This grant is intended to enhance the innovative capacity of SMEs through knowledge development and diffusion.

With the use of LEFV, the 29 project participants share the ambition to contribute to regional, national and European targets to make urban freight transport more efficient and more sustainable. The project therefore contributes to the Green Deal Zero Emission City Logistics.

(Research) Question:
How can LEFVs be used cost-effectively for city logistics?

An increasing number of logistics service providers, shippers and vehicle suppliers are interested in this question. The logistics service providers want to use LEFVs, but do not know how to do this cost-effectively, because the current logistics processes in the industry are tailored to delivery vans and trucks. Before switching to LEFVs the processes (planning, sorting, loading, invoicing) need to be organized differently, because the vehicles are smaller in size and have different charge and power supplies. In addition, it is not yet clear for which city logistics flows LEFVs are suitable. Next, shippers are not certain whether the same price and service level can be guaranteed with the use of LEFVs. Vehicle suppliers want to develop LEFVs, but are unsure of the technical requirements that must be met to use these vehicles in a competitive way.

2. Approach

The participants in LEVV-LOGIC:

1. Examine the potential of LEFVs for specific city logistics flows (including food, internet shopping, and facility deliveries);
2. Design new logistics concepts with LEFVs for the distribution of goods from sender to receiver;
3. Turn logistics requirements into technical designs and adjustments to existing LEFVs;
4. Experiment with new LEFV concepts in practice;
5. Develop scalable business models with LEFVs.

3. Partners

Leading Party: Amsterdam University of Applied Sciences, Faculty of Technology, Research program Urban Technology

Consortium members: Rotterdam University of Applied Sciences, DOET, Fietsdiensten.nl, LeanCargo (SME) and Deudekom (SME)

Other SME participants: 2Wielkoeriers, Foodlogica, MSG Post & Koeriers, MyPup, Bubble Post, CityHub, Leen Menken, 4Wieler, EasyGo Electric, Noorenz, Urban Arrow, Greenolution, Maproloc, The Office Service, Het Lokaal

Other participants: PostNL, EVO, Municipality of Amsterdam, Municipality of Rotterdam, KnowledgeMile, TNO, Outspoken Delivery, Connekt

4. Contact

For more information on the project, upcoming events and cooperation opportunities please contact: Susanne Balm (Project Leader) at levvlogic@hva.nl or +316 211 577 71.

5. Partners

Consortium:

Participants:

In cooperation with:

6. More about our Partners

Universities of Applied Sciences	
Amsterdam University of Applied Sciences	*http://www.hva.nl/urban-technology*
Rotterdam University of Applied Sciences	*http://www.rdmcoe.nl/futuremobility*
Logistics service suppliers and shippers (sme)	
Deudekom	*http://www.deudekom.nl/*
2Wielkoeriers	*http://www.2wielkoeriers.nl/*
Foodlogica	*http://foodlogica.com/*
MSG post & Koeriers	*www.msg.eu/*
Mypup	*https://www.mypup.nl/*
Bubble Post	*http://bubblepost.eu/*
Cityhub	*https://cityhub.com/*
Leen Menken	*http://www.leenmenken.com/*
Outspoken Delivery (UK)	*http://www.outspokendelivery.co.uk/*
PostNL *(no sme)*	*http://www.postnl.nl/*
Het Lokaal	*http://hetlokaal.nl/*
The Office Service	*https://www.theofficeservice.com/*
Vehicle suppliers (sme)	
Easy go Electric	*http://www.iyyo.eu/*
Stint	*http://www.stint.nl/*
Urban Arrow	*http://www.urbanarrow.com/*
4Wieler	*http://www.4wieler.nl/*
Greenolution	*http://greenolution.nl/*
Maproloc	*http://www.maproloc.nl/*
Knowledge and advice	
LeanCargo Consultancy	*http://leancargo.nl/*
Fietsdiensten.nl	*http://www.fietsdiensten.nl/*
TNO	*https://www.tno.nl/nl/*
Network organizations	
DOET	*https://www.doetdoet.nl/*
EVO	*https://www.evo.nl/*
Connekt	*http://www.connekt.nl/*
Knowledge Mile	*http://knowledgemile.org/nieuws*
Municipalities	
City of Amsterdam	*https://www.amsterdam.nl/*
City of Rotterdam	*http://www.rotterdam.nl/gemeenterotterdam*