



Final eHUBs implementation report Leuven

DELIVERABLE 5.1

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Summary sheet

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Project partners

Organisation	Abbreviation	Country
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Promotion of Operation Links with Integrated Services aisbl (POLIS)	POLIS	Belgium
Taxistop asbl	Taxi	Belgium
Autodelen.net	Auton	Belgium
Bayern Innovativ GmbH	BI	Germany
Cargoroo	CA	The Netherlands
URBEE (E-bike network Amsterdam BV)	URBEE	The Netherlands
Gemeente Nijmegen	NIJ	The Netherlands
Transport for the Greater Manchester	TfGM	Great Britain
Stad Leuven	LEU	Belgium
TU Delft	TUD	The Netherlands
University of Newcastle upon Tyne	UN	Great Britain
Ville de Dreux	DR	France
Stadt Kempten (Allgäu)	Kemp	Germany
Universiteit Antwerpen	UAntwerp	Belgium
Mpact vzw	Taxi2	Belgium
Mobipunt vzw	Mobipunt	Belgium
Electricity Supply Board	ESB	Ireland
The Highlands and Islands Transport Partnership	HITRANS	Great Britain
Service Public de Wallonie Mobilité et Infrastructures, Autorité Organisatrice du Transport	SPW MI, AOT	Belgium

Document history

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0.2		City of Leuven	Completed till June 2021	
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1 Introduction

The city of Leuven already had several mobility hubs located at important nodes of public transport, train and/or bus, at the start of the eHUBs project. Shared bikes (blue-bikes) have already been offered at Leuven station since 2015 to encourage multimodal travel behaviour. Leuven is also one of the pioneers in Flanders regarding the provision of shared cars. Since 2005 and 2019 respectively, cambio and Partago have launched shared cars. The shared cars are station-based. From these locations, eHUBS have also grown during this eHUBS project.

The specific goals within eHUBs are to start up 40 new eHUBs in Leuven, and to try out a range of e-mobility services made available on these eHUBS: 30 shared e-bikes, 50 shared e-cargo bikes and 40 additional shared EVs.

The provision of the shared e-cargo bikes was to be provided by cargoroo, a partner within the consortium. The shared e-bikes were to be provided by Urbee, also a partner. The shared EVs will be provided by the car-sharing providers cambio and partago, already recognised in Leuven. No intervention is foreseen for the latter because of the eHUBS project.

In Leuven, peer-to-peer sharing systems are also popular. For instance, more than 60 private cars are shared with others. To date, this offering has not yet been physically or digitally linked to the eHUBS.

Leuven is satisfied with the results achieved. We installed a total of 41 eHUBS. We piloted for 21 months with a fleet of 25-40 e-bikes, unfortunately not with a larger fleet because of limitations with provider Urbee. We gained many insights between July 2020 and December 2022 with a fleet of 9-31 shared e-cargo bikes. We agreed with our 2 EV providers to increase the supply of shared EVs to eHUBS to 26, including 2 vehicles with additional financial support from the city.

2 Overview of installed eHUBs

Stage	Launch date	Accumulative number of eHUBs installed	Accumulative number of EVs offered at installed eHUBs	Accumulative number of e-bikes offered at installed eHUBs	Accumulative number of e-cargo bikes offered at installed eHUBs
1	27/09/20	13	13	30	9
2	1/3/21	18	13	35	9
3	1/5/21	27	15	38	9
4	1/7/21	41	15	38	9
5	6/7/21	41	15	25	15 (+15)
6	31/10/21	41	15	25	24 (+6)
7	1/12/21	41	15	40	30

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8	1/7/22	41	19	0	30
9	31/12/22	41*	26	0	31

Table 1: The eHUBs and their vehicles in Leuven, implemented in consequent stages

*: There are a couple of eHUBs that were installed but aren't operational anymore because of lack of offer (Gasthuisberg, station Leuven and Haasrode II don't have any e-mobility offer anymore since July 2022, when Urbee stopped its offer of e-bikes). These 3 eHUBS are indicated in red in figure 1.

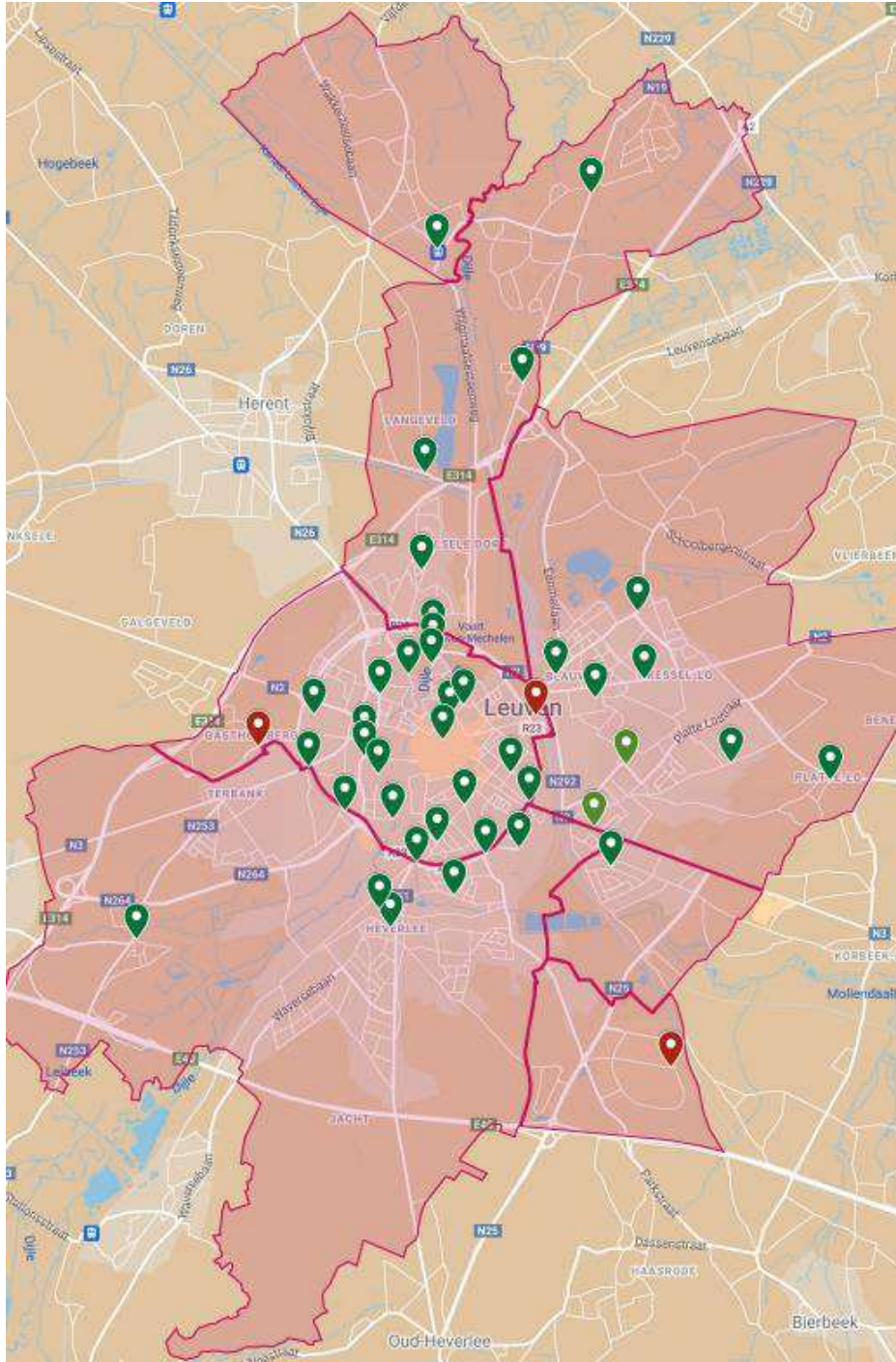


Figure 1: Map overview of all installed eHUBs in Leuven till the end of December 2022

Table 1 below lists the eHUBs that are operational by 31 December 2022, and which services can be found there. This does not include info on public transport offerings. For the full offer of the eHUBs, please refer to <https://www.leuven.be/mobipunten>, where the offer can be consulted from different angles: a map, a list or a specific mobility service..

Table 2 Overview operational eHubs at the end of December 2022

#	Name eHUB	Submunicipality	Approach (S=Strategic, SP: Strategic + Participation; B= Bottom-up)		Type (= Interregional, R = Regional, L = Local and B= Neighbourhood)	Operational since	type Pillar	Parcel locker	Shared bikes (Blue-Bike)	Shared cars (Cambio)	shared EVs (Cambio)	shared EVs (Partago)	Shared e-bikes (Urbee)	shared e-cargo bikes (Cargoroo)
1	Bibliotheek Heverlee	HEV	S	B	sep/20	medium			4	1				0
2	Bodartparking	HEV	S	R	jun/21	medium	1		1	1				0
3	Bottelarij	LEU	S	L	mei/21	mini			0	1				1
4	Boudewijnstadion	KLO	S	L	jun/21	mini			2	0	1			0
5	Bovenlo	KLO	B	L	mei/21	mini	1		1	0				1
6	Centrale werkplaatsen	KLO	S	B	mei/21	mini			6	2				1
7	Constantin Meunierstraat	LEU	S	B	jun/21	mini			2	1				1
8	De Becker-Remyplein	KLO	S	L	sep/20	medium	3		7	2				1
9	De Bib Leuven - Sporthal Rijschool	LEU	S	L	sep/20	mini			0	0				1
10	De Bron	KLO	B	L	mei/21	mini	2		1	0				1
11	Egenhoven centrum	HEV	SP	L	mrt/21	mini	2		1	0				1
12	Gemeenteplein	KLO	SP	L	sep/20	mini			2	0				1
13	Kaboutermansstraat	LEU	S	B	jun/21	mini			2	0				1
14	Kesseldal	KLO	S	L		mini			2	0				1
15	Korfbalclub (A. Dejonghestraat)	KLO	S	L	jun/21	mini			2	1	1			1
16	Kruidtuin	LEU	S	B	jun/21	mini			4	2				0
17	Matadi buurt	HEV	B	B	mei/21	mini	2		0	0				1
18	Michotte	HEV	SP	L	jun/21	mini			1	0				1
19	Naamsepoort	HEV	S	L	sep/20	medium	2		3	2				0
20	OCMW Leuven (F Lintstraat - Vesaliusstraat)	LEU	S	L	jun/21	mini	2		0	2				1
21	Park De Bruul	LEU	S	L	mei/21	mini	2		2	0				1
22	Parkpoort	HEV	SP	L	sep/20	medium			1	1				1
23	Quinten Metsysplein	LEU	S	B	jun/21	mini			0	0				1
24	Redingenstraat	LEU	S	B	jun/21	mini			2	0				1
25	Refugehof	LEU	B	B	mei/21	mini				0				1
26	Sint-Jacobsplein	LEU	S	L	jun/21	mini			5	1				1
27	Sint-Maartensdal	LEU	S	B	sep/20	medium	2		2	1				1
28	Spaanse Kroon	LEU	SP	L	mei/21	mini			3	0	1			1
29	Sportoase Wilsele-Putkapel	WIL	S	L	jun/21	mini			1	0				1
30	Rector De Somerplein	LEU	S	L	sep/20	geen	1		0	0				1
31	Station Heverlee	HEV	S	R	sep/20	D		12	5	0				1
32	Station Wijgmaal	WIJ	SP	R	jun/21	D	2		2	0				1
33	Tervuursepoort	LEU	S	L	mrt/21	mini	2		5	2				0
334	Tiensepoort	LEU	S	L	jun/21	mini			5	1				0
35	Parking Vaartkom	LEU	S	L	jun/21	mini	2		3	0				1
36	Vaartstraat	LEU	S	B	sep/20	mini			3	1				1
37	Victor Broosplein	LEU	S	L	sep/20	mini	2		0	0				1
38	Wilsele dorp	WIL	S	L	sep/20	medium			1	0	1			1

3 Details of installed eHUBs

3.1 Phase 1: September 2020

We installed 13 eHUBS last September 2020 and opened these officially on Sunday September 27th. The yearly mobility event took then place in Leuven, of course not comparable with previous editions because of Covid-19. Nevertheless, we were proud to welcome the Flemish Minister of Mobility at this launch together with our mayor and alderman of Mobility.

Final signage for most of these eHubs was added in March 2021, such as the placement of information signs pinned on bicycle brackets ([Figure 120](#) gives an example of an information sign pinned on a bicycle bracket) and thermoplastic floor signs ([Figure 125](#) gives an example of the Cargo E-bike signage) because no supplier was known yet in September 2020. Some of the realization photo's in this paragraph show the situation before full implementation of the remaining signage.

Also we prepared everything for a 14th eHUB, i.e. Sint Jacobsplein but due to considerable delays regarding reconstruction works at that place, we stalled the pillar in our depot and distributed the 5 e-bikes that were foreseen for this eHUB amongst the other 5 eHUBs, so that they offer 6 instead of 5 e-bikes. We hope to launch this eHUB at the next phase in February 2021, but still are concerned about that timing. On the map (fig. 1) it is still integrated as it was all prepared and ready for deployment.

N°	ID	Sub-municipality	Type eHUB	Strategic, Bottom-up or Strategic with Participation trajectory	EV	E-bikes	E-cargo-bikes
1	Bibliotheek Heverlee	HEV	B	S	1		
2	De Becker-Remyplein	HEV	L	S	1		1
3	De Bib Leuven - Sporthal Rijschool	HEV	L	S			
4	Gemeenteplein	LEU	L	SB		6	1
5	Naamsepoort	KLO	L	S	3		
6	Parkpoort	HEV	L	SB		6	1
7	Philipssite	KLO	B	S			
8	Rector De Somerplein	LEU	L	S		6	1
9	Sint-Maartensdal	WIL	B	S			1
10	Station Heverlee	HEV	R	S		6	1

11	Vaartstraat	KLO	B	S			1
12	Victor Broosplein	KLO	L	S			1
13	Wilsele dorp	LEU	L	S	1	6	1

Table 3: September 2020 - The eHUBs and their vehicles in Leuven

Figure 2 shows the ehubs implantation during Phase 1 (September 2020) in blue pinpoints. This map can also be accessed via this link: <https://www.google.com/maps/d/u/0/edit?mid=1Vax0jpp-Nt6004zksS1xnRAjYT8vTktH&usp=sharing>

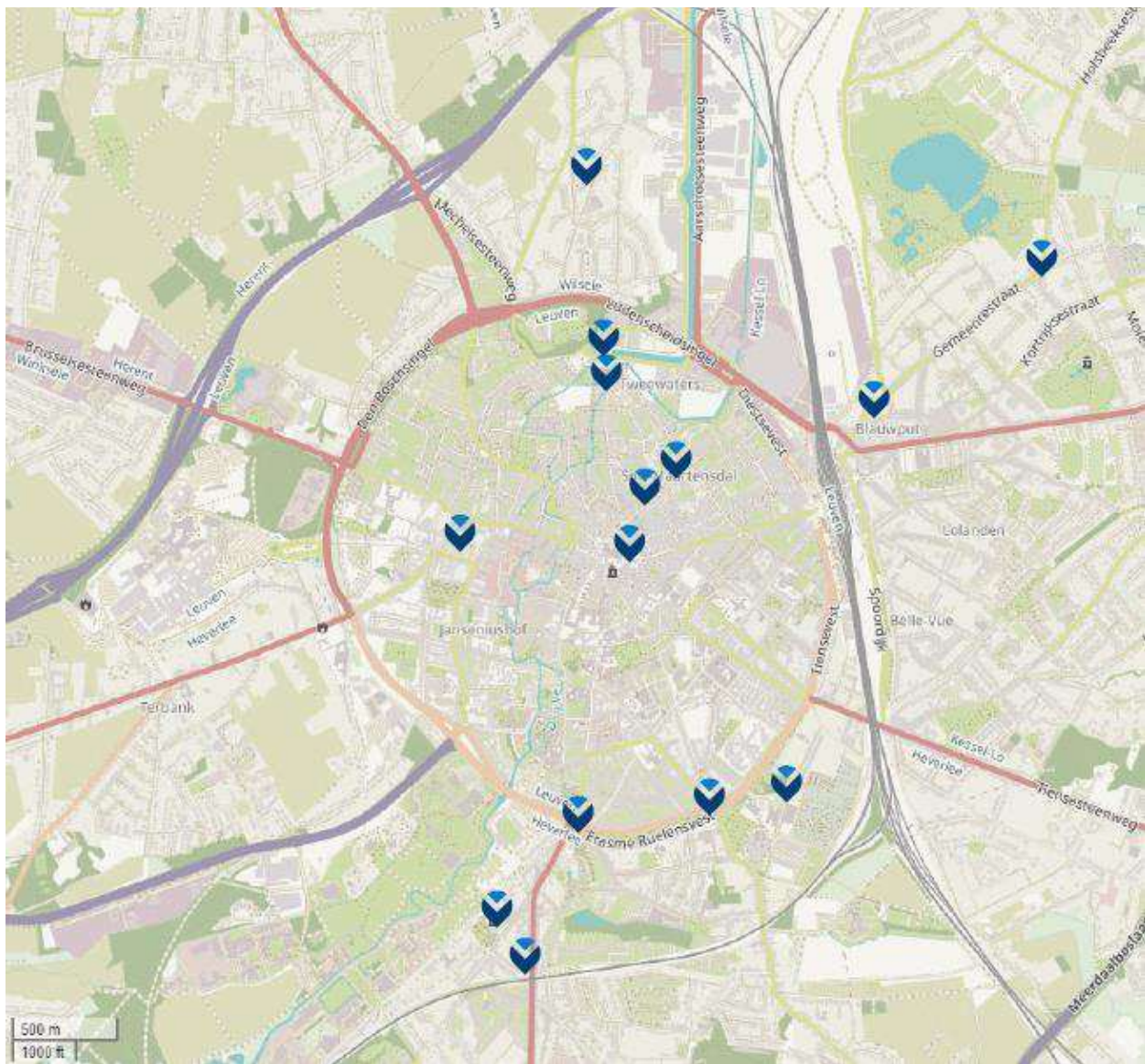


Figure 2: Map eHUBs opened in September 2020

3.1.1 Bibliotheek Heverlee

3.1.1.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Medium	Bus (De Lijn)	4 (Cambio)	1 (Cambio)	/	/	/	Yes	Yes	1 (Allego)

Table 4: December 2021 – The available services at eHUB Bibliotheek Heverlee

3.1.1.2 Plans

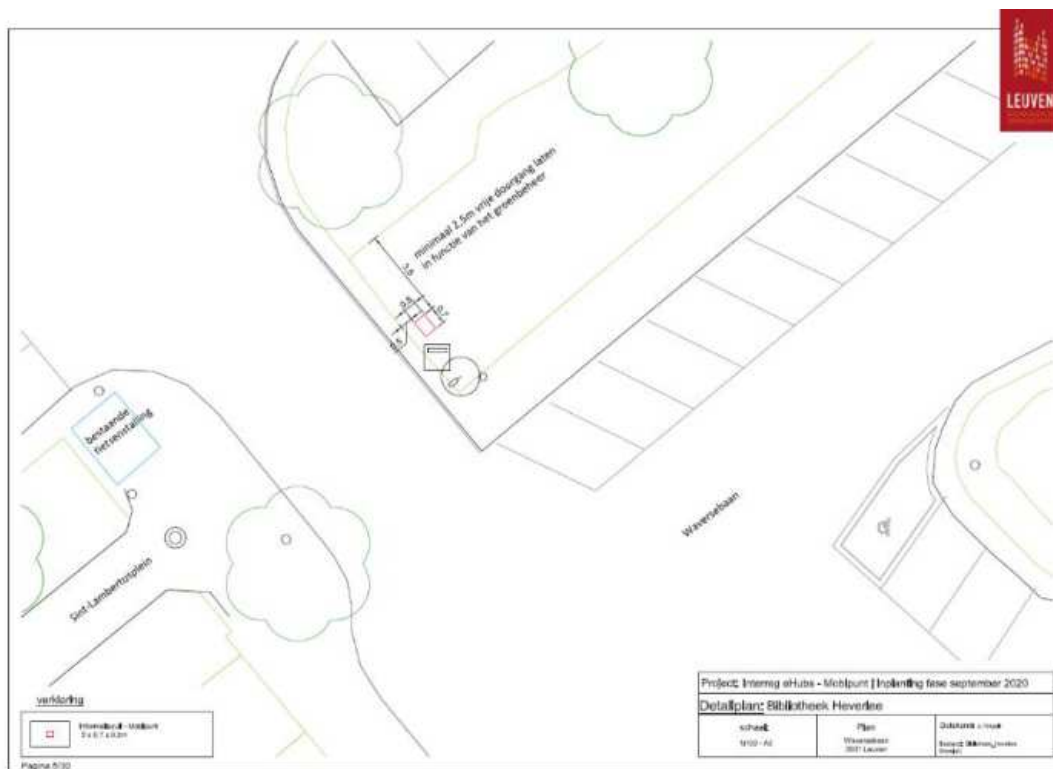


Figure 3: July 2020 - Site plan information pillar of eHUB Bibliotheek Heverlee, implemented since September 2020

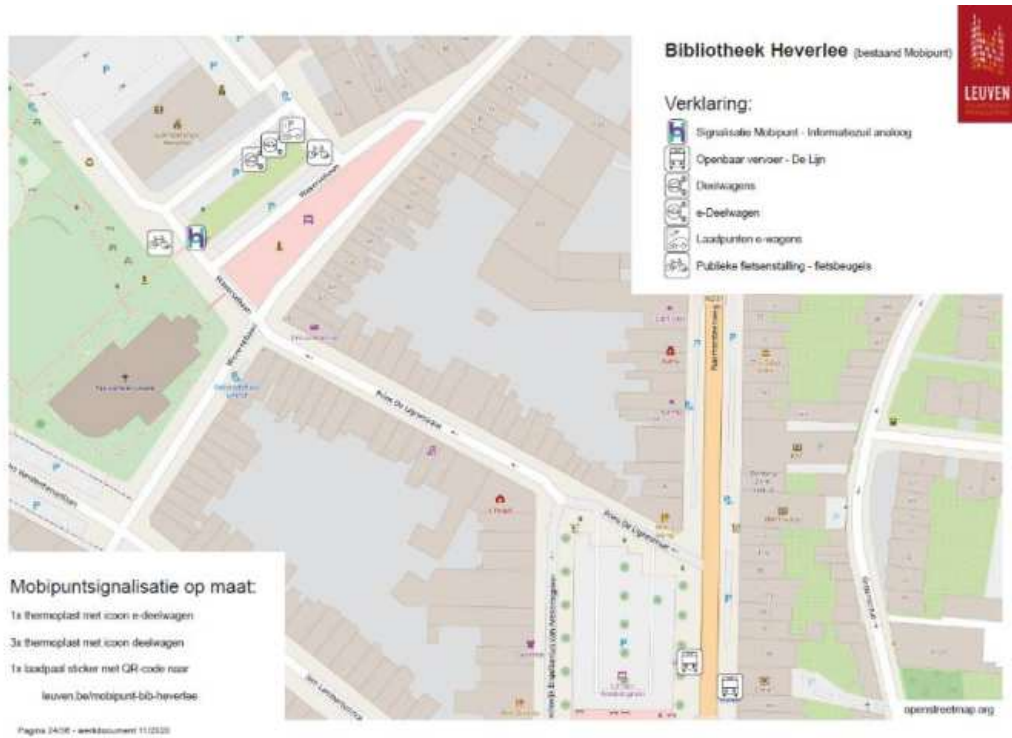


Figure 4: November 2020 - Signage plan of eHUB Bibliotheek Heverlee, implemented in March 2021, final

3.1.1.3 Realizations



Figure 5: September 2020 – Medium information pillar of eHUB Bibliotheek Heverlee



Figure 6: September 2020 – Shared cars (one EV) and charging infrastructure at eHUB Bibliotheek Heverlee



Figure 7 November 2021 – Signage at eHub Bibliotheek Heverlee

3.1.2 De Becker-Remyplein

3.1.2.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Medium	Bus (De Lijn)	6 (Cambio)	1 (Cambio)	/	/	1 (Cargoroo)	Yes	Yes	3 (Allego)

Table 5: December 2021 – The available services at eHUB De Becker-Remyplein

3.1.2.2 Plans

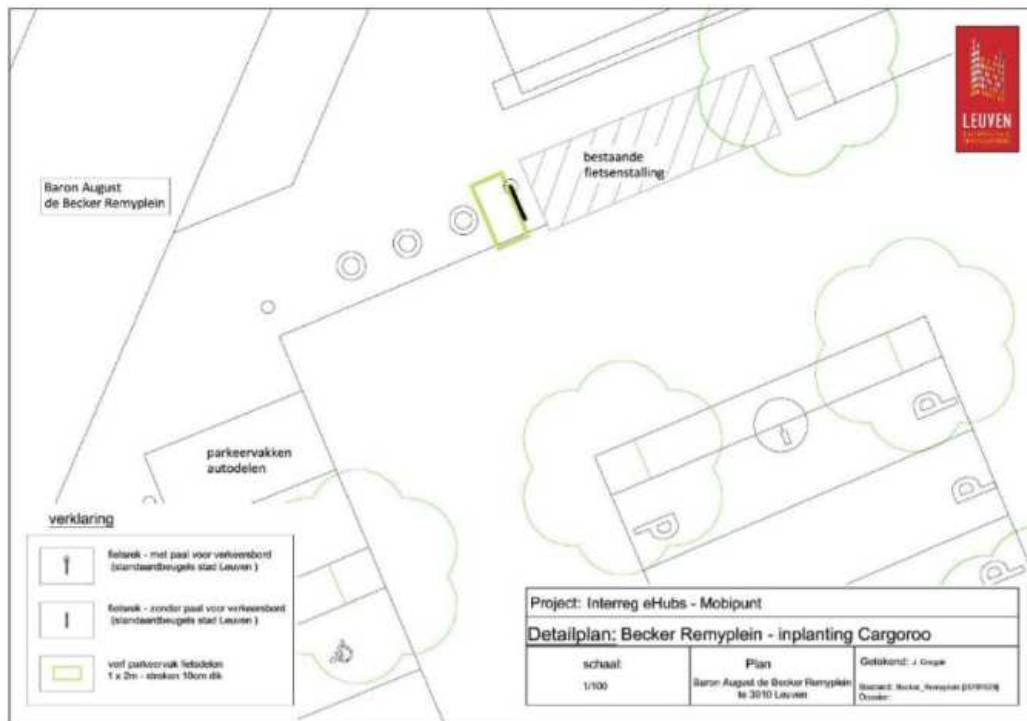


Figure 8: November 2019 - Site plan for shared e-cargo-bike at eHUB De Becker-Remyplein, installed in December 2019

3.1.2.3 Realizations



Figure 11: September 2020 – Medium information pillar at eHUB De Becker-Remyplein



Figure 12: September 2020 – Shared e-cargo-bike at eHUB De Becker-Remyplein



Figure 13: June 2021 – Signage e-cargo-bike at eHUB De Becker-Remyplein



Figure 14: June 2021 – Signage Shared cars at eHUB De Becker-Remyplein



Figure 15 November 2021 – Package hub at eHub De Becker-Remyplein

3.1.3 De Bib Leuven - Sporthal Rijschool

3.1.3.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Medium	Bus (De Lijn)	/	/	/	/	1	Yes	Yes	/

Table 6: December 2021 – The available services at eHUB De Bib Leuven – Sporthal Rijschool

It is necessary to remark that our 9 e-cargo-bikes got operational from the 1st of July. During the first 3 months (July till September), there was a Cargoroo bike at this eHUB. Unfortunately, because of delivery delays at the side of Cargoroo, we could not get any more Cargoroos in September so that we relocated 4 Cargoroos. This bike moved to the eHUB station Heverlee. As soon as Leuven gets new Cargoroos, this eHUB also gets one.

3.1.3.2 Plans

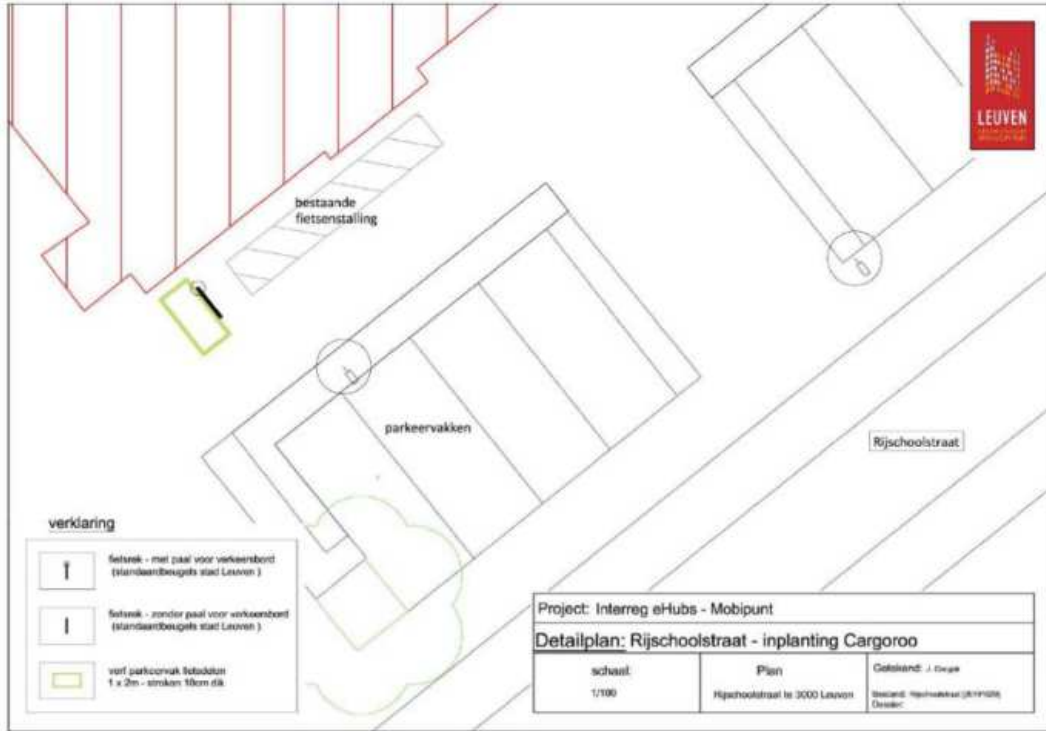


Figure 16: November 2019 - Site plan for shared e-cargo-bike at the eHUB De Bib Leuven – Sporthal Rijschool, installed in December 2019

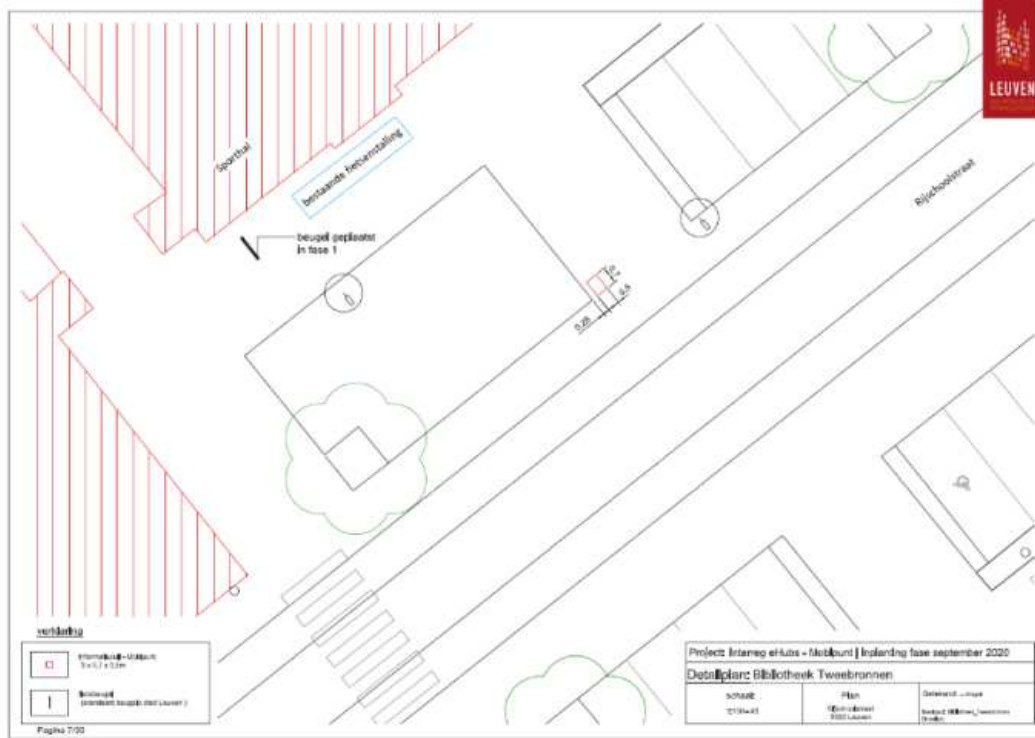


Figure 17: July 2020 - Site plan for information pillar at eHUB De Bib Leuven – Sporthal Rijschool, implemented since September 2020

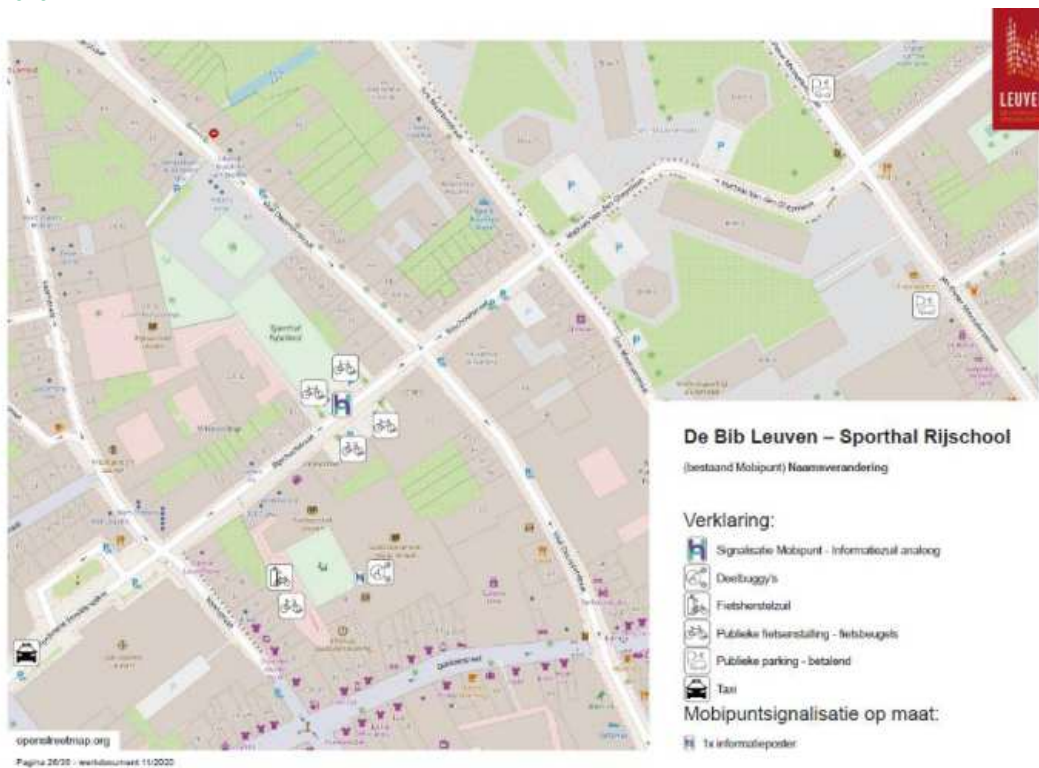


Figure 19: November 2020 - Signage plan of eHUB De Bib Leuven – Sporthal Rijschool, to be implemented in February 2021

3.1.3.3 Realizations



Figure 20: September 2020 – Medium information pillar of eHUB De Bib Leuven



Figure 21: June 2021 – bike infrastructure at eHUB De Bib Leuven



Figure 22 November 2021 – e-cargo-bike at eHUB De Bib Leuven (e-cargo-bike installed since July 2021)

3.1.4 Gemeenteplein

3.1.4.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Small	Bus (De Lijn)	1 (Cambio)	/	/	/	1 (Cargoroo)	Yes	Yes	4 (Allego)

Table 7: December 2021 – The available services at eHUB Gemeenteplein

3.1.4.2 Plans

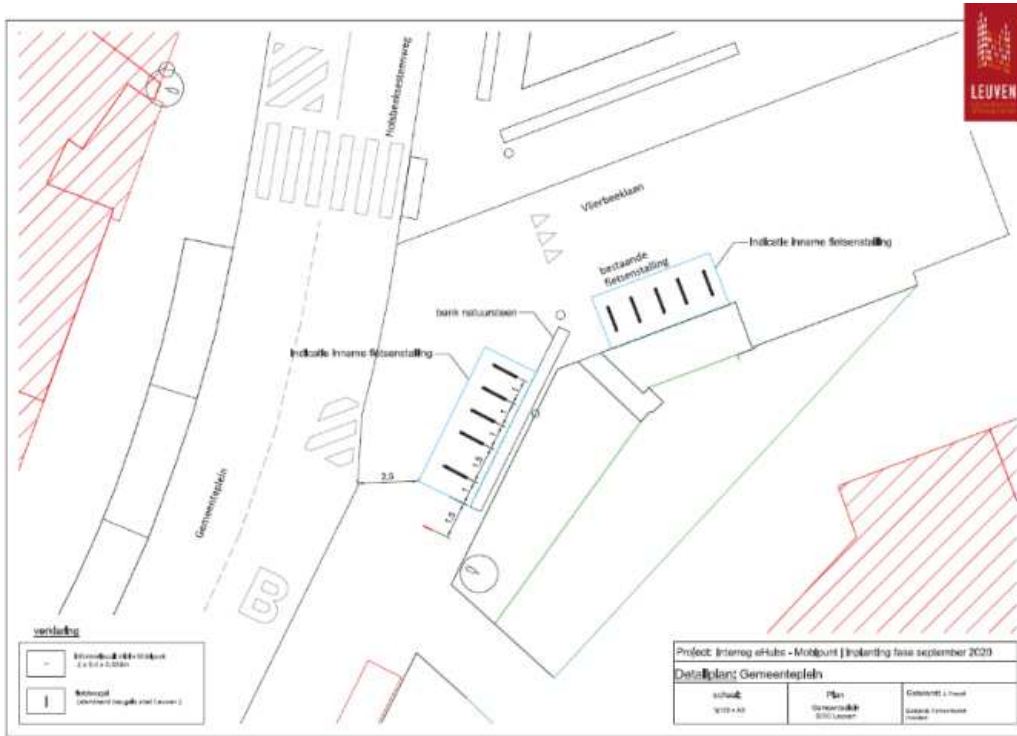


Figure 23: July 2020 - Site plan for information pillar and stations for shared e-bikes and shared e-cargo-bike at eHUB Gemeenteplein, implemented since September 2020



Figure 24: November 2020 - Signage plan of eHUB at Gemeenteplein, to be implemented in February 2021

3.1.4.3 Realizations



Figure 25: September 2020 – Small information pillar, shared e-bikes and shared e-cargo-bike at eHUB Gemeenteplein



Figure 26: June 2021 – Small information pillar, shared e-bikes and shared e-cargo-bike at eHUB Gemeenteplein



Figure 27 June 2021 – Information bike sticker at eHUB Gemeenteplein

3.1.5 Naamsepoort

3.1.5.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Medium	Bus (De lijn)	3 (Cambio)	3 (2 Cambio 1 Partago)	/	/	/	1	1	3 (Allego)

Table 8: December 2021 – The available services at eHUB Naamsepoort

3.1.5.2 Plans

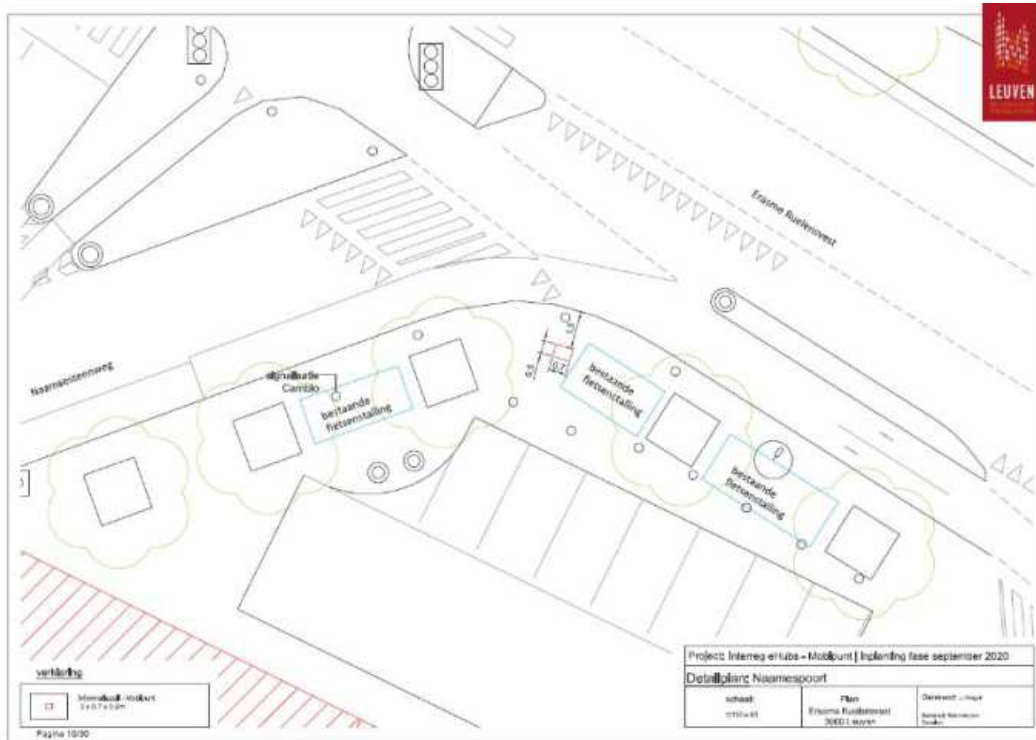


Figure 28: July 2020 - Site plan for information pillar at eHUB Naamsepoort, implemented since September 2020

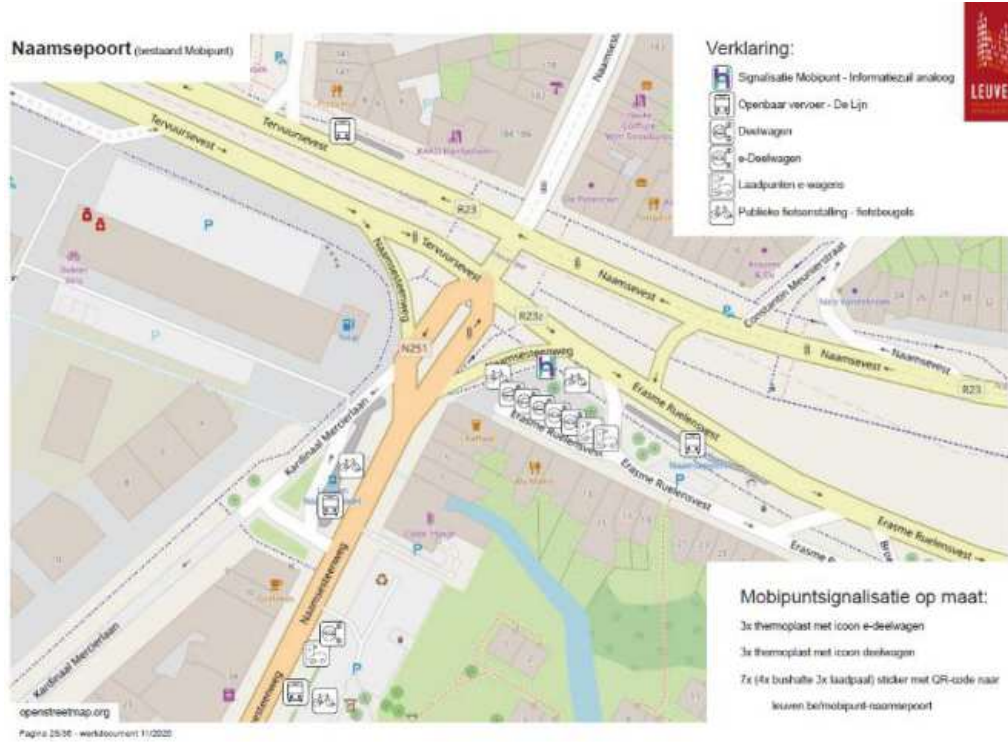


Figure 29: November 2020 - Signage plan for eHUB Naamsepoort, to be implemented in February 2021

3.1.5.3 Realizations



Figure 30: September 2020 – Medium information pillar at eHUB Naamsepoort



Figure 31: September 2020 – Shared EV car and charging infrastructure at eHUB Naamsepoort



Figure 32: September 2020 – Shared cars (two EV's) and charging infrastructure at eHUB Naamsepoort



Figure 33: June 2021 signage infrastructure at eHUB Naamsepoort



Figure 34 November 2021– Package hub at eHub Naamsepoort

3.1.6 Parkpoort

3.1.6.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Medium	Bus (De Lijn)	1 (Cambio)	1 (Cambio)	/	/	1 (Cargoroo)	Yes	Yes	3 (Allego)

Table 9: December 2021 – The available services at eHUB Parkpoort

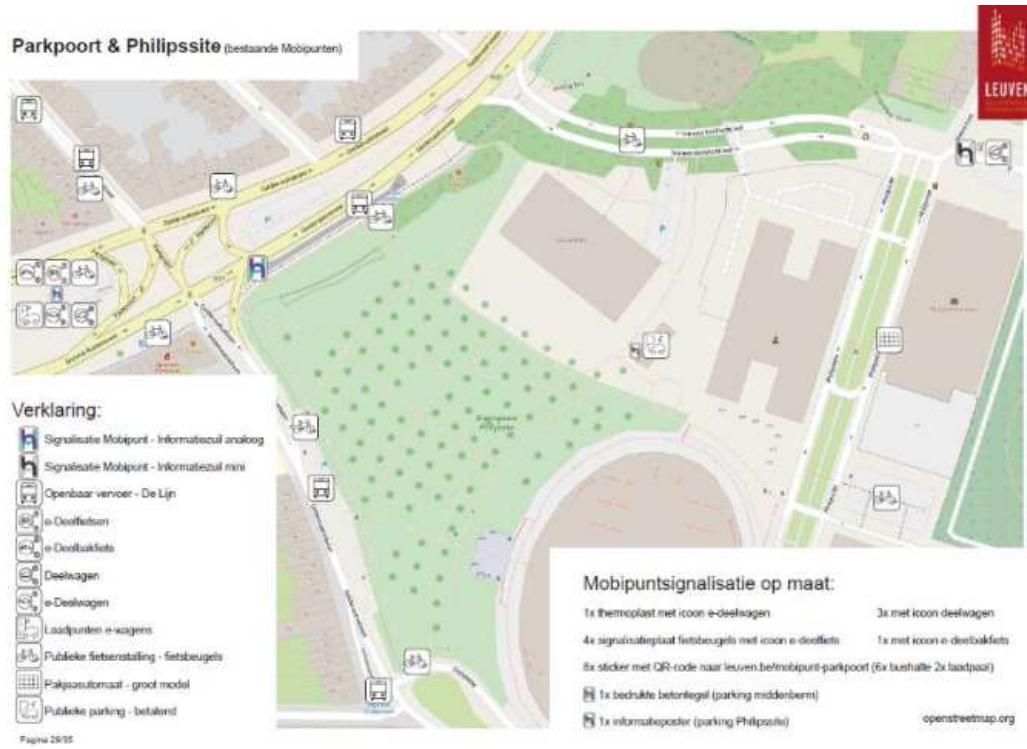


Figure 37: November 2020 - Signage plan for eHUB Parkpoort and Philipssite, to be implemented in February 2021

3.1.6.3 Realizations



Figure 38: September 2020 – Medium information pillar at eHUB Parkpoort



Figure 26: September 2020 – Shared e-bikes and shared e-cargo-bike of eHUB Parkpoort



Figure 39: June 2021 – Shared e-bikes and shared e-cargo-bike with signage plates and stickers of eHUB Parkpoort

3.1.7 Philipssite

3.1.7.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Small	Bus (De Lijn)	2	/	/	/	/	Yes	Yes	6

Table 10: December 2021 – The available services at eHUB Philipssite

3.1.7.2 Plans

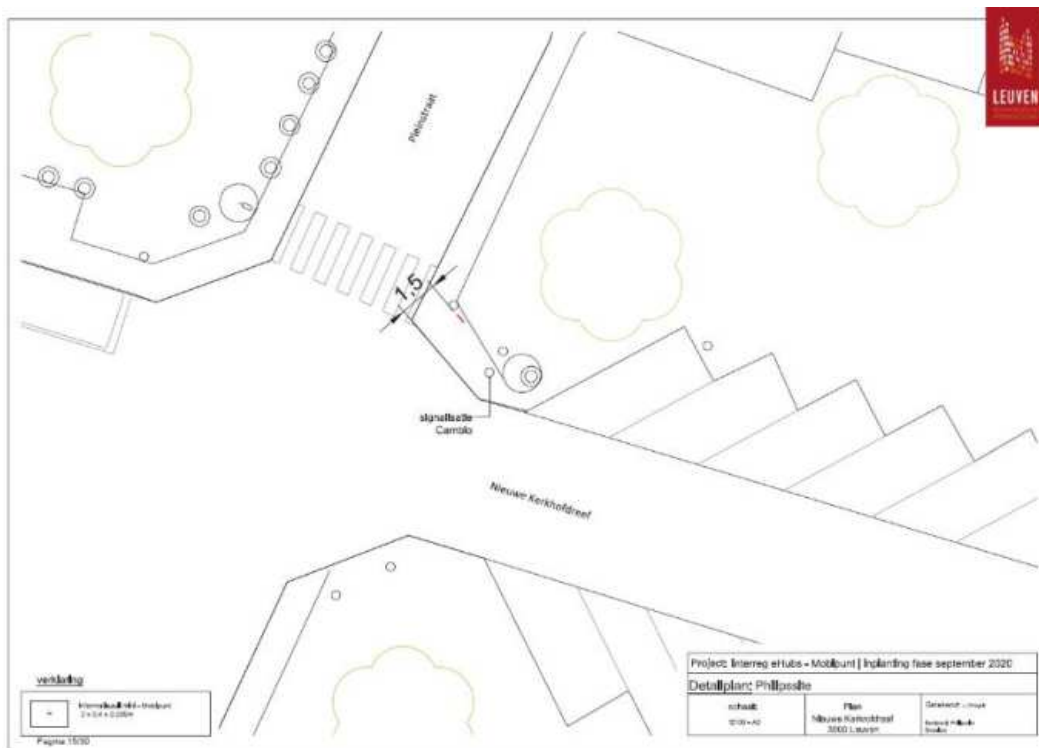


Figure 40: July 2020 - Site plan for information pillar at eHUB Philipssite, implemented since September 2020

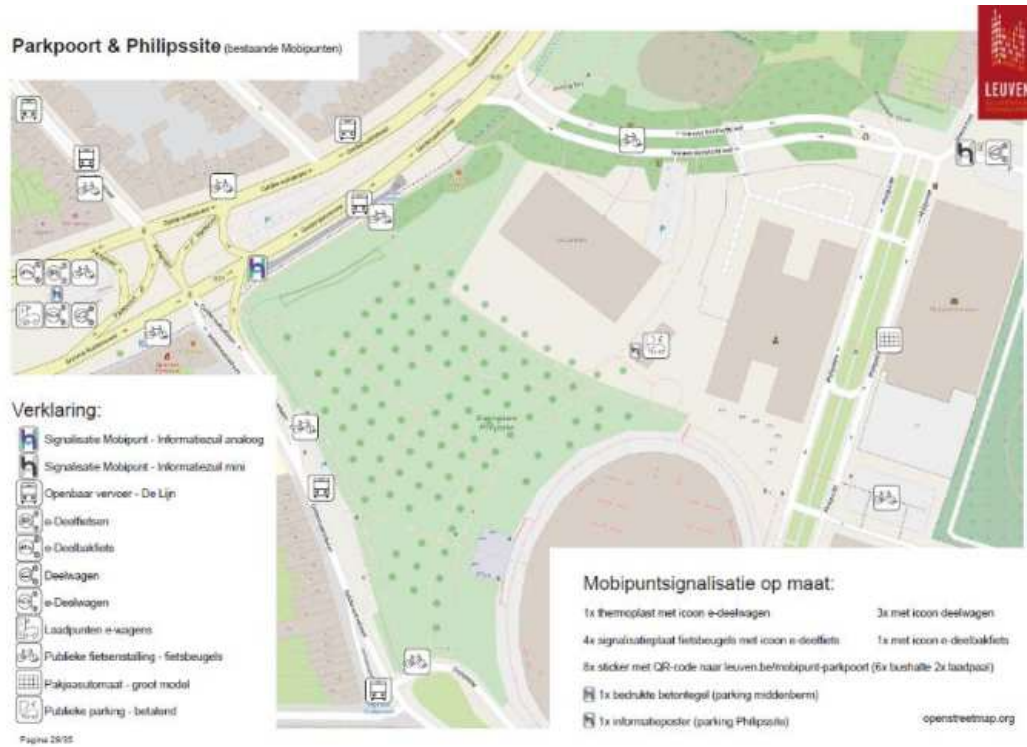


Figure 41: November 2020 - Signage plan for eHUB Parkpoort and Philipssite, to be implemented in February 2021

3.1.7.3 Realizations



Figure 42: June 2021 – Shared cars of eHUB Parkpoort¹

¹ Photo of Small information pillar to be complemented

3.1.8 Rector De Somerplein

3.1.8.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
custom	bus	/	/	/	5 (Urbee)	1 (Cargoo)	No	Yes	/

Table 11: December 2021 – The available services at eHUB Rector De Somerplein

3.1.8.2 Plans

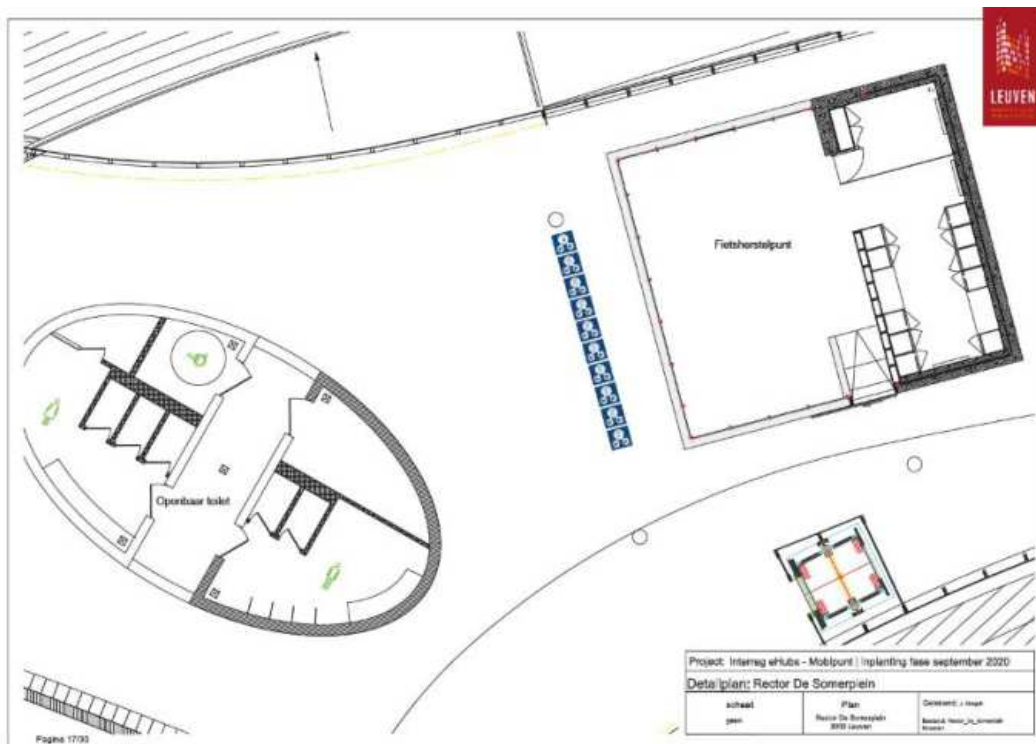


Figure 43: July 2020- Site plan for shared e-bikes and shared e-cargo-bike station at eHUB Rector De Somerplein, implemented since September 2020

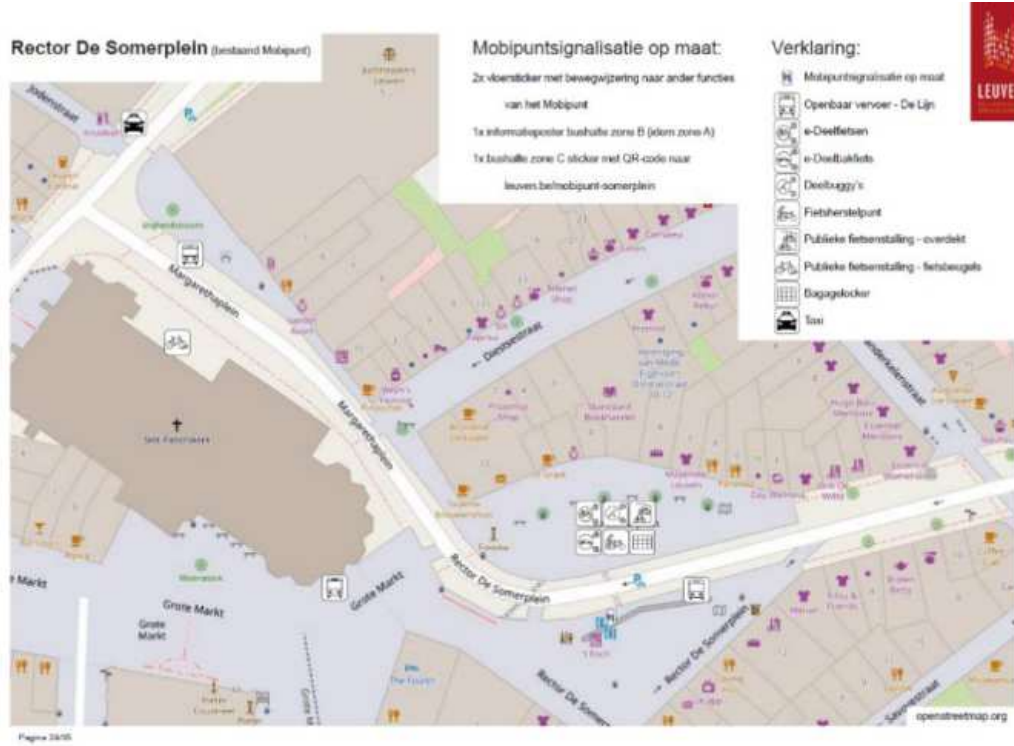


Figure 31: November 2020 - Signage plan of eHUB Rector De Somerplein, to be implemented in February 2021

3.1.8.3 Realizations



Figure 44: September 2020 – information poster, adhered to customer's point, at eHUB Rector De Somerplein



Figure 45: September 2020 – shared e-bikes and shared e-cargo-bike at eHUB Rector De Somerplein

Since 21 October the dockings have been placed and the Urbees should be able to be charged on the spot. Unfortunately, there still appears to be a technical shortcoming concerning the connection of the dockings to the electricity network, more specifically concerning the earthing, so that it is not 100% certain that the connection is 100% safe. There is no inspection certificate for either the installation or the dockings themselves. In addition, Velo has reported that the batteries of the e-sharing bikes are not yet charging at their optimum level.



Figure 46 November 2021 – Charging infrastructure e-bikes at eHub Rector De Somerplein

3.1.9 Sint-Maartensdal

3.1.9.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
medium	bus	2 (Cambio)	1 (Cambio?)	/	/	1	Yes	Yes	3 (2 Allego, 2 Blue Corner)

Table 12: December 2021 – The available services at eHUB Sint-Maartensdal

3.1.9.2 Plans

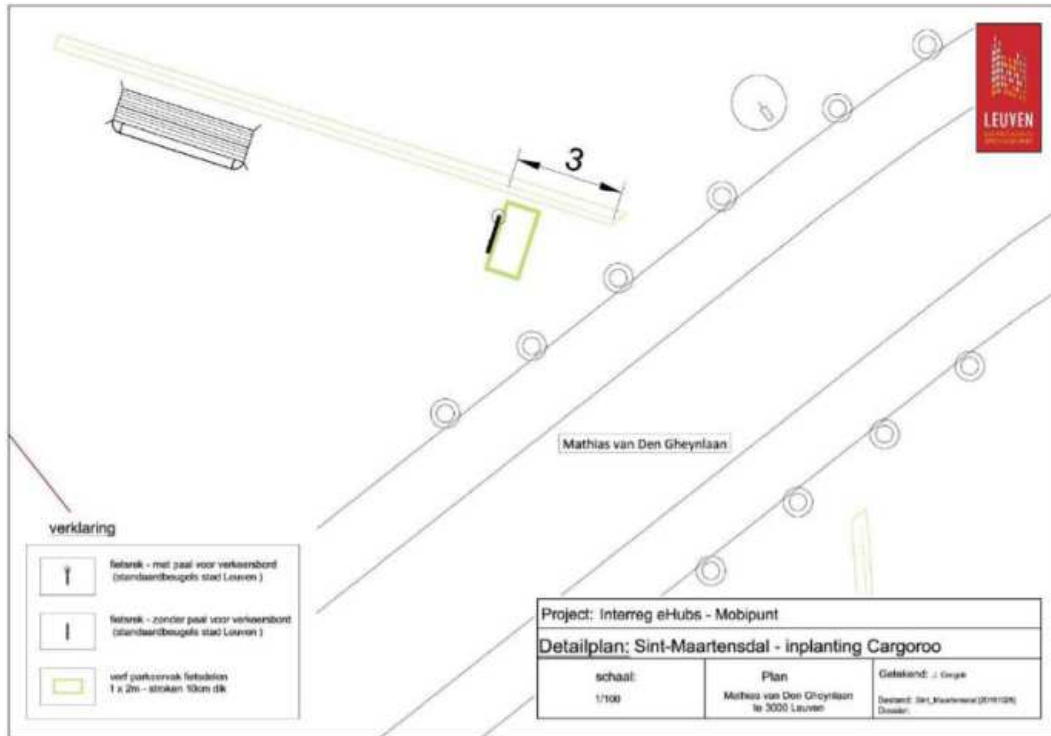


Figure 47: November 2019 - Site plan for shared e-cargo-bike station at eHUB Sint-Maartensdal, installed in December 2019

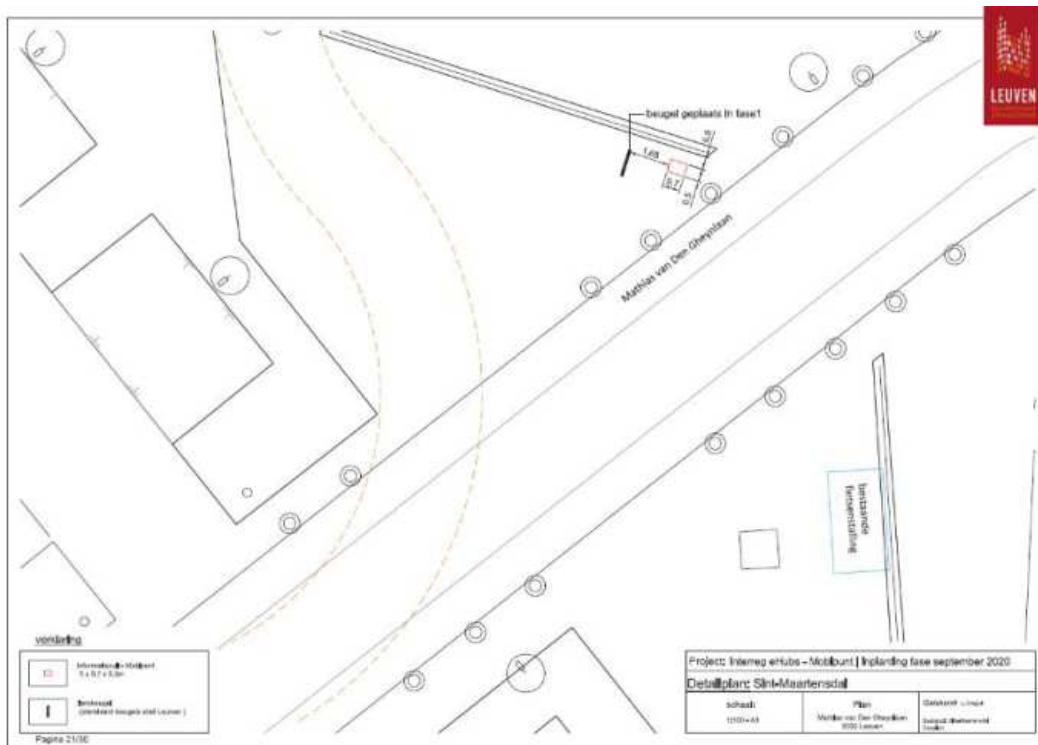


Figure 48: July 2020 - Site plan for information pillar at eHUB Sint-Maartensdal, implemented since September 2020

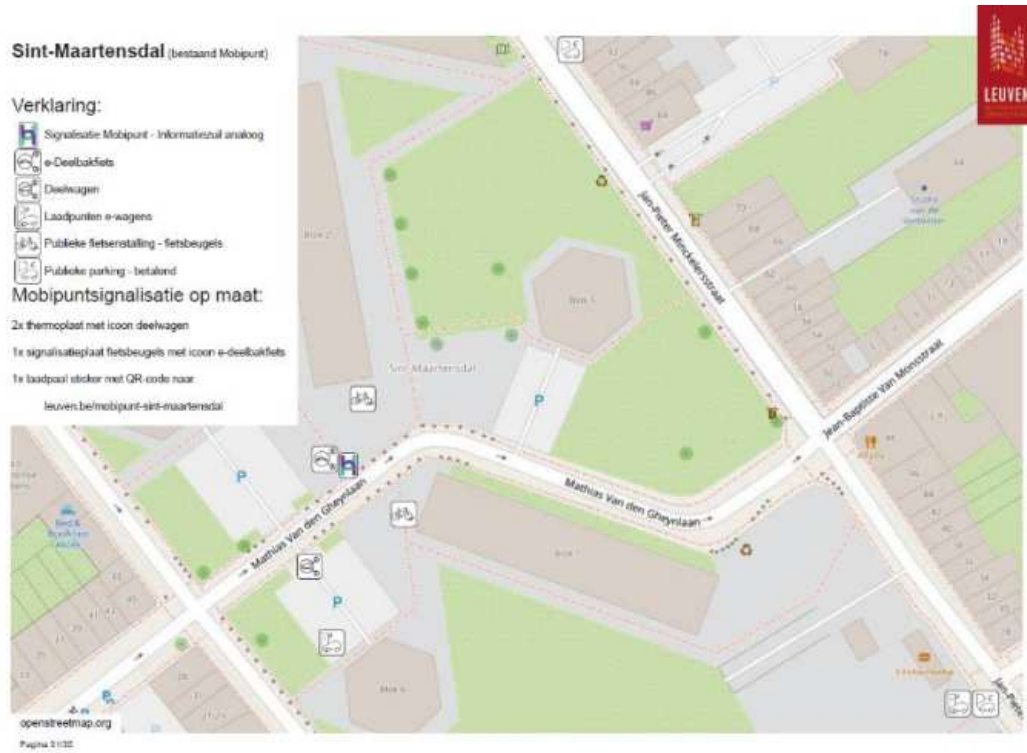


Figure 49: November 2020 - Signage plan at eHUB Sint-Maartensdal, to be implemented in February 2021

3.1.9.3 Realizations



Figure 50: September 2020 – Medium information pillar of eHub Sint-Maartensdal



Figure 51 November 2021 – Package hub, e cargo-bike at eHub Sint-Maartensdal

3.1.10 Station Heverlee

3.1.10.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Digital	Train (NMBS) Bus (De Lijn)	5 (Cambio)	/	12 (Blue-Bike)	5 (Urbee)	1 (Cargoo)	Yes	Yes	2 (Allego)

Table 13: December 2021 – The available services at eHUB Station Heverlee

3.1.10.2 Plans

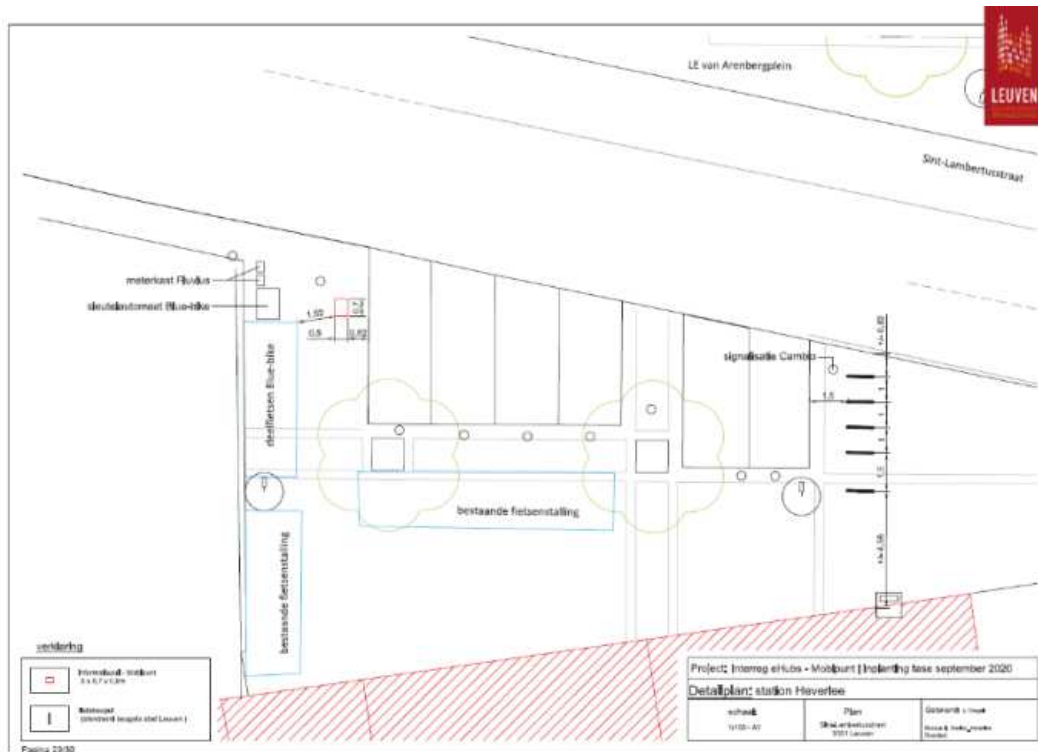


Figure 52: July 2020 - Site plan for information pillar and stations for shared e-bikes and e-cargo-bike at eHUB Station Heverlee, implemented since September 2020

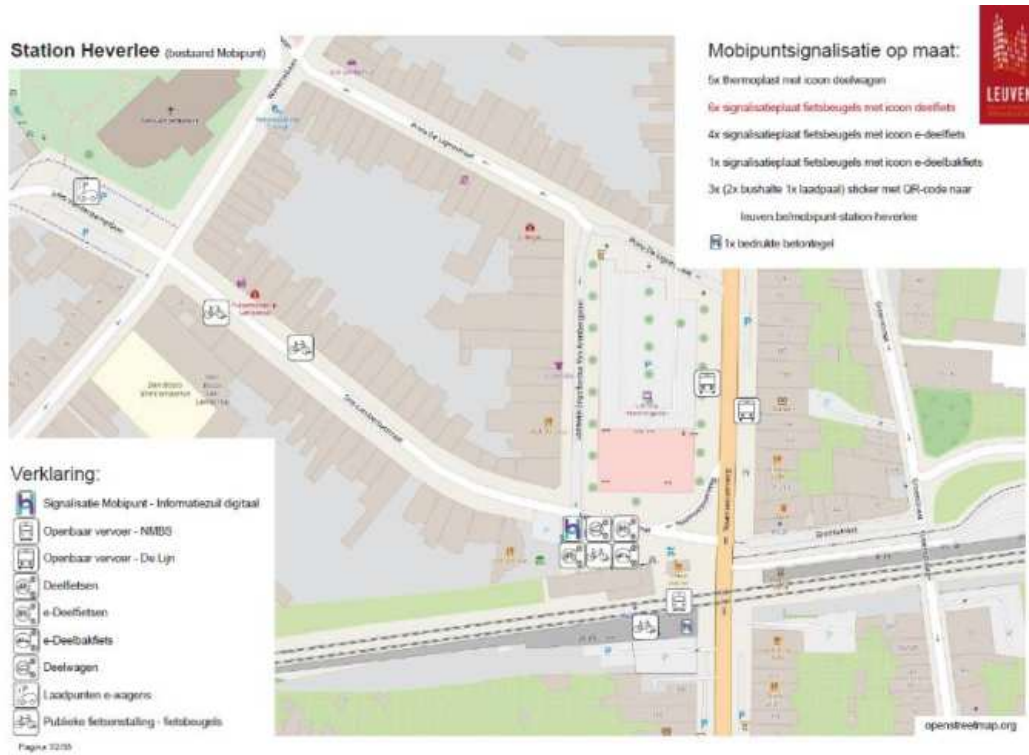


Figure 53: November 2020 - Signage plan of eHUB Station Heverlee, to be implemented in February 2021

3.1.10.3 Realizations



Figure 54: September 2020 – Digital information pillar, shared bikes (Blue-bike) and shared cars at eHUB Station Heverlee



Figure 55: June 2021 – Digital information pillar, detail at eHUB Station Heverlee



Figure 56: June 2021 – Press release at eHUB Station Heverlee (<https://pers.leuven.be/deelmobiliteit-binnen-handbereik-dankzij-41-mobipunten>)



Figure 57: September 2020 – Shared e-bikes and information stickers at eHUB Station Heverlee

3.1.11 Vaartstraat

3.1.11.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Small	/	/	/	/	/	1	Yes	Yes	2

Table 14: December 2021 – The available services at eHUB Vaartstraat

3.1.11.2 Plans

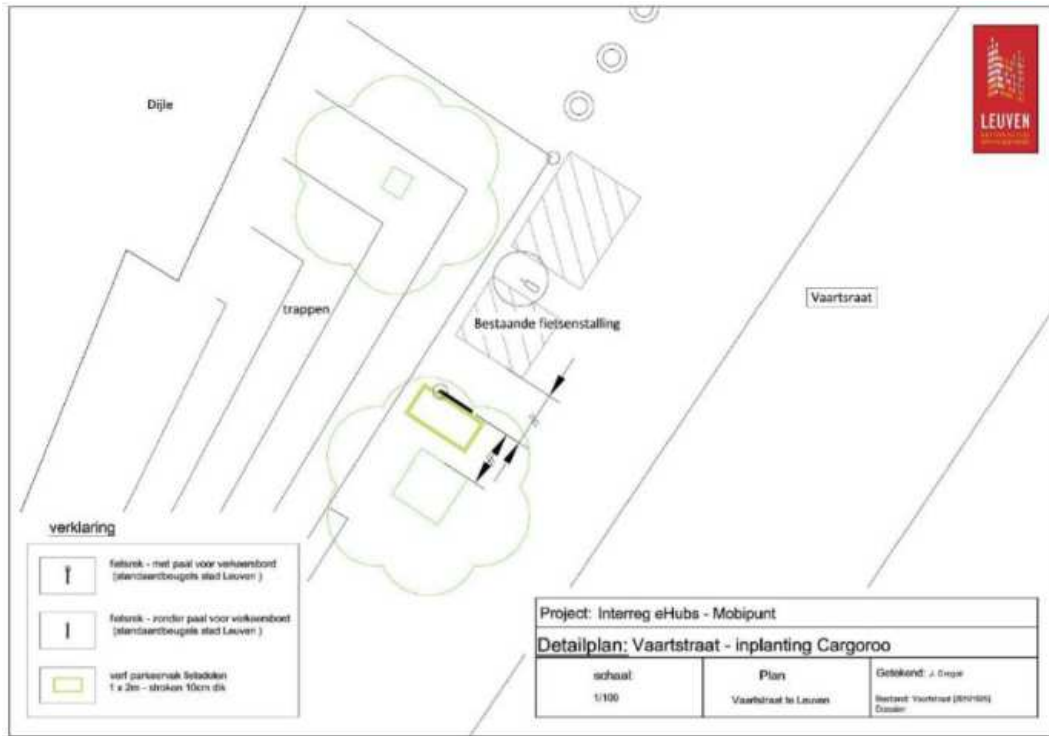


Figure 58: November 2019 - Site plan for shared e-cargo-bike station at eHUB Vaartstraat, installed in December 2019

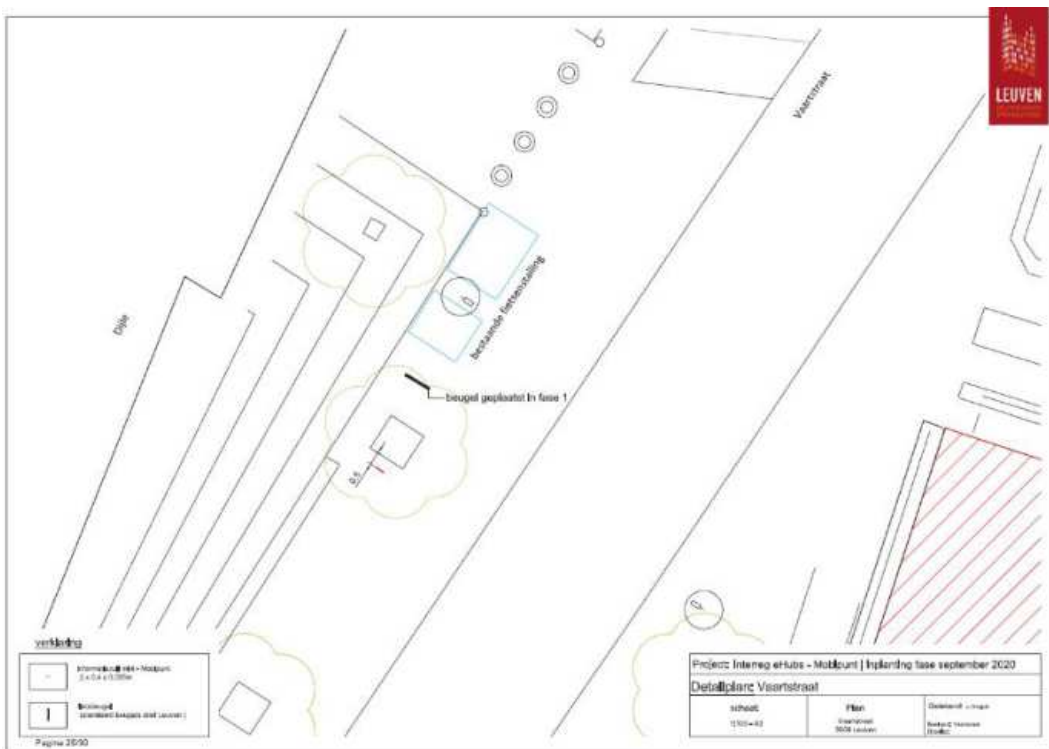


Figure 59: July 2020 - Site plan for information pillar at eHUB Vaartstraat, implemented since September 2020



Figure 60: November 2020 - Signage plan for eHUB Vaartstraat, to be implemented in February 2021

3.1.11.3 Realizations



Figure 61: September 2020 – Small information pillar and shared e-cargo-bike at eHUB Vaartstraat



Figure 62: June 2021 – Signage shared e-cargo-bike at eHUB Vaartstraat

3.1.12 Victor Broosplein

3.1.12.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
Small	Bus (De Lijn)	/	/	/	/	1	/	Yes	/

Table 15: December 2021 – The available services at eHUB Victor Broosplein

3.1.12.2 Plans

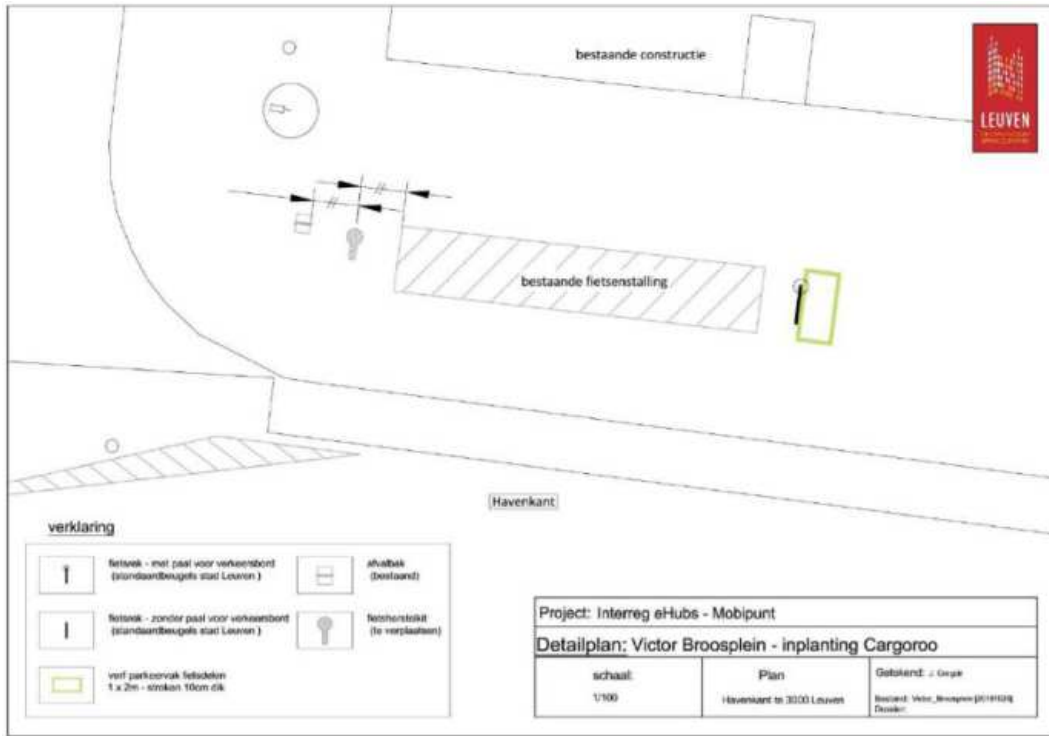


Figure 63: November 2019 - Site plan for shared e-cargo-bike station at eHUB Victor Broosplein, installed in December 2019

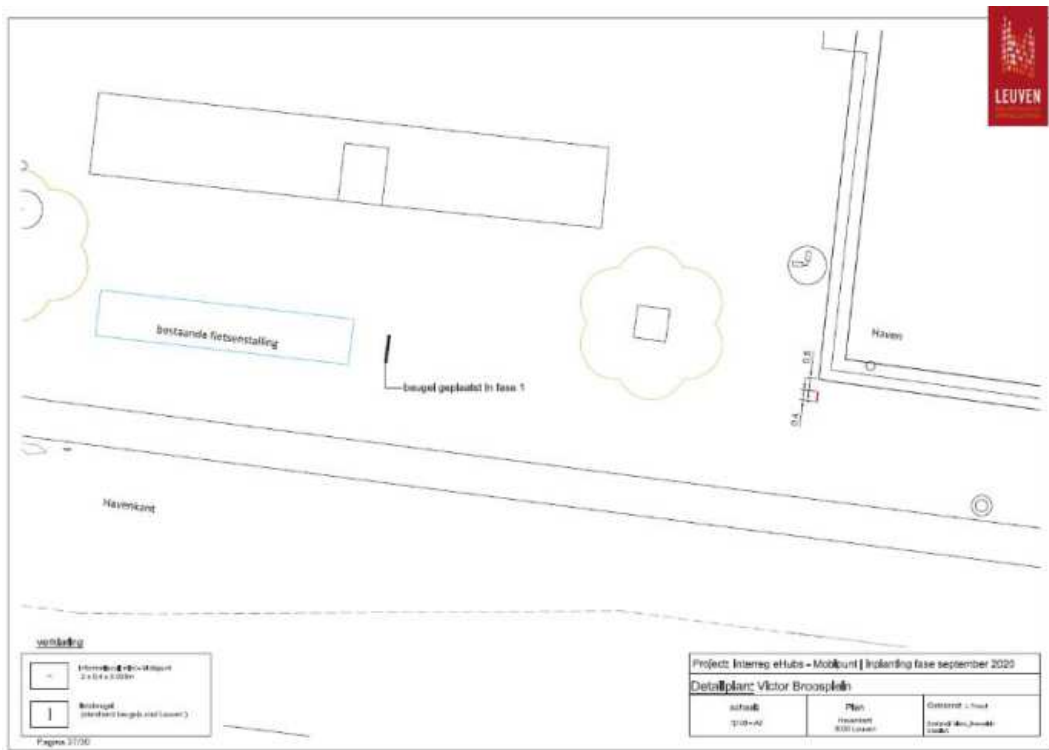


Figure 64: July 2020 - Site plan for information pillar at eHUB Victor Broosplein, implemented since September 2020



Figure 65: November 2020 - Signage plan for eHUB Victor Broosplein, to be implemented in February 2021

3.1.12.3 Realizations



Figure 66: September 2020 – Small information pillar at eHUB Victor Broosplein



Figure 67 June 2021 – Signage and shared e-cargo-bike eHUB Victor Broosplein



Figure 68 November 2021 – Package hub at eHub Victor Broosplein

3.1.13 Wilsele dorp

3.1.13.1 Services

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging points for public EV
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Medium	Bus (De Lijn)	1 (Cambio)	1 (Partago)	/	/	1 (Cargoo)	Yes	Yes	1 (Allego)
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Table 16: December 2021 – The available services at eHUB Wilsele dorp

3.1.13.2 Plans

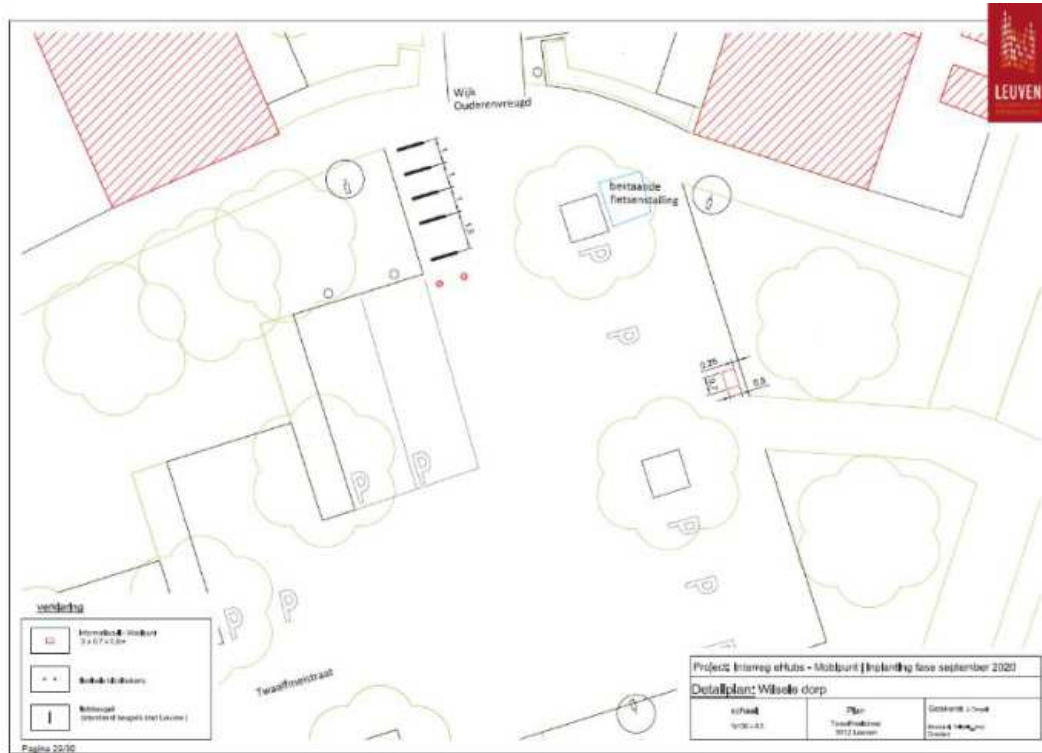


Figure 69: July 2020 - Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Wilsele dorp, implemented since September 2020



Figure 70: November 2020 - Signage plan for eHUB Wilsele dorp, to be implemented in February 2021

3.1.13.3 Realizations



Figure 71: September 2020 – Medium information pillar at eHUB Wilsele dorp



Figure 72: September 2020 – Shared e-bikes and shared e-cargo-bike at eHUB Wilsele dorp



Figure 73 November 2021 – Shared e-car with charging point at eHub Wilsele dorp (installed earlier)

3.2 Phase 2: March 2021

We installed 8 eHUBS last March 2021 and opened these officially on Wednesday March 3rd. Signage for some formerly installed pillars was updated to new standards. Leaflets were distributed in the residential neighborhoods of the eHUBs and a press release was sent out.

eHub Station Kessel-Lo consists of a temporary installation of a deck where bicycles can be stored. This installation will be evaluated later. An online survey will provide more information from users.

Figure 74 shows the ehubs implantation during Phase 2 (March 2021) in green pinpoint. This map can also be accessed via this link: <https://www.google.com/maps/d/u/0/edit?mid=1Vax0jpp-Nt60O4zksS1xnRAjYT8vTktH&usp=sharing>

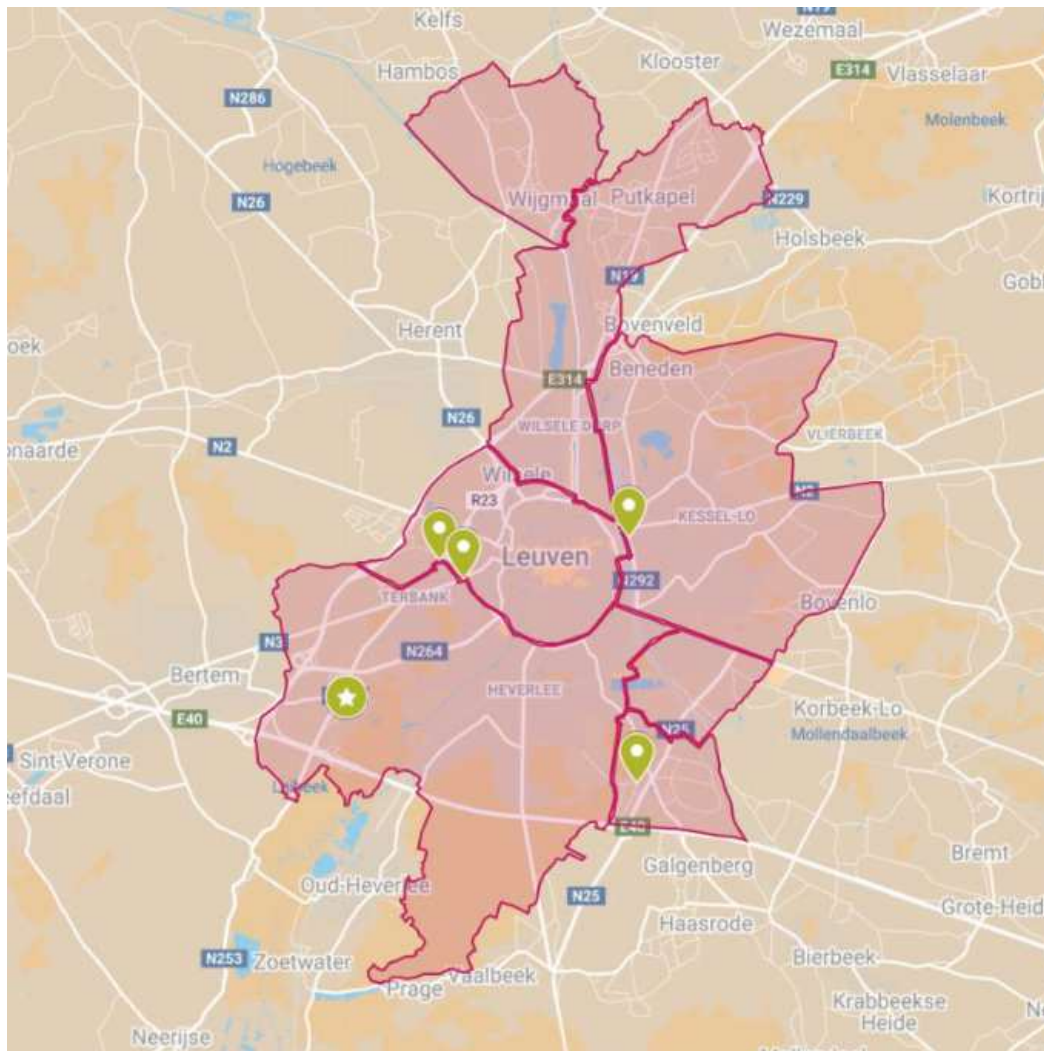


Figure 74: Map eHUBs opened in March 2021

N°	ID	Sub-municipality	Type eHUB	Strategic, Bottom-up or Strategic with	EV	E-bikes	E-cargo-bikes
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				Participation trajectory			
14	Egenhoven centrum	HEV	L	SB	0	2	0
15	Gasthuisberg	HEV	R	S	0	4	0
16	Researchpark Haasrode I	HEV	L	S	0	3	0
17	Station Leuven Kessel-Lo	KLO	I	S	0	(4) ²	0
18	Tervuursepoort	HEV	L	S	2	0	0

Table 15: March 2021 - The eHUBs and their vehicles in Leuven

3.2.1 Egenhoven centrum

3.2.1.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Yes Bus (De Lijn)	1	/	/	/	1	Yes	Yes	1

Table 17: December 2021 – The available services at eHUB Egenhoven centrum

² Temporary installation on mobile platform, definitive installation after evaluation.

3.2.1.2 Plans



Figure 75: March 2021 - Site plan information pillar of eHUB Egenhoven centrum, implemented since March 2021



Figure 76: March 2021 - Signage plan of eHUB Egenhoven centrum

3.2.1.3 Realizations



Figure 77: March 2021 – Small information pillar of eHUB Egenhoven centrum, implemented in June 2021



Figure 78: March 2021 – Shared E-bikes at eHUB Egenhoven centrum, implemented in June 2021



Figure 79 Charging infrastructure at eHub Egenhoven Centrum



Figure 80 November 2021 – Shared car and package hub at bus station at eHub Egenhoven centrum



Figure 81 November 2021 – Cargo e-bike at eHub Egenhoven centrum (available since July 2021)

3.2.2 Gasthuisberg

3.2.2.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Yes Bus (De Lijn)	/	/	/	5	/	Yes	Yes	10 (Allego)

Table 18: December 2021 – The available services at eHUB Gasthuisberg

Plans



Figure 82: Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Gasthuisberg, implemented since March 2021



Figure 83: March 2021 - Signage information for eHUB Gasthuisberg

3.2.2.2 Realizations



Figure 84: March 2021 – Small information pillar at eHUB Gasthuisberg



Figure 85 March 2021 –Information poster at eHUB Gasthuisberg (Parking het Teken)



Figure 86 November 2021 – Charging infrastructure e-bikes at eHub Gasthuisberg

Since 21 October the dockings have been placed and the Urbees should be able to be charged on the spot. Unfortunately, there still appears to be a technical shortcoming concerning the connection of the dockings to the electricity network, more specifically concerning the earthing, so that it is not 100% certain that the connection is 100% safe. There is no inspection certificate for either the installation or the dockings themselves. In addition, Velo has reported that the batteries of the e-sharing bikes are not yet charging at their optimum level.

3.2.3 Researchpark Haasrode I

3.2.3.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/	/	/	/	/	Yes	Yes	/

Table 19: December 2021 – The available services at eHUB Researchpark Haasrode I Heverlee

Due to a shortage of e-mobility services, we have closed this eHUB temporarily till there are e-mobility services available. That won't be the case anymore before the end of the eHUBS project unfortunately.

3.2.3.2 Plans

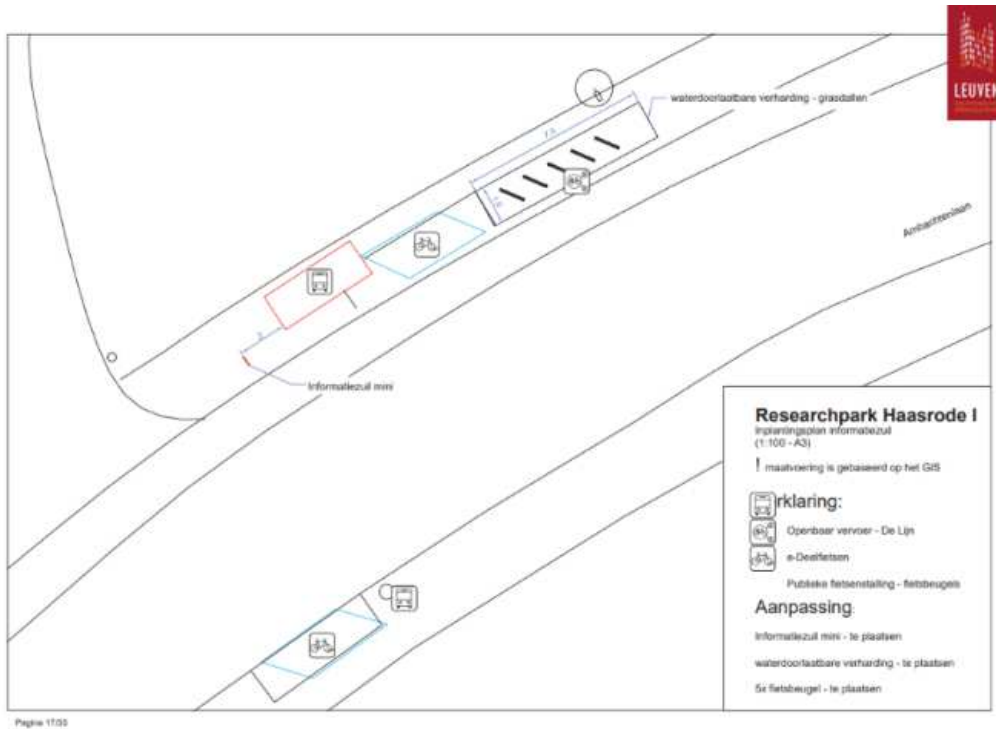


Figure 87: Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Researchpark Haasrode I, implemented since March 2021



Figure 88: March 2021 - Signage plan for eHUB Researchpark Haasrode I

3.2.3.3 Realizations



Figure 89: March 2021 – Bicycle racks and thermoplastic lining for Shared e-bikes and shared e-cargo-bike at eHUB Researchpark Haasrode I



Figure 90: March 2021 – Small information pillar at eHUB Researchpark Haasrode I

3.2.4 Station Leuven

3.2.4.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Train (NMBS) Bus (De Lijn)	23 (Cambio)	/	99	(10) ³	0	Yes	Yes	10

Table 20: December 2021 – The available services at eHUB Station Leuven, Leuven

³ Temporary installation on 2 mobile platforms with 5 e-bikes each, definitive installation after evaluation.

3.2.4.2 Plans

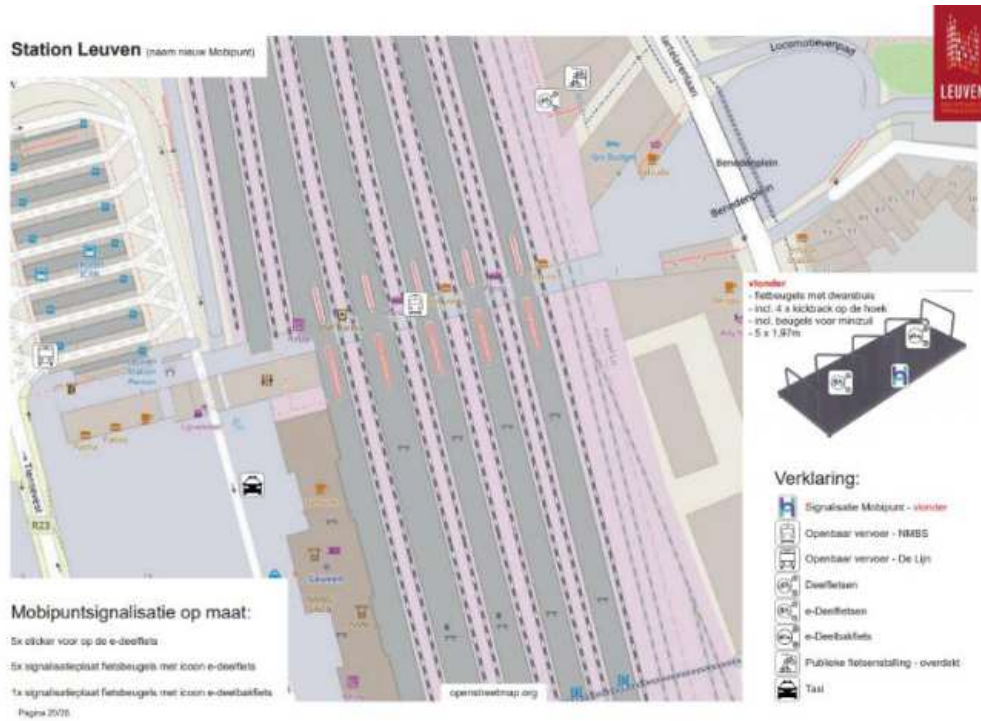


Figure 91: Site plan for information pillar and shared e-bikes at eHUB Station Leuven Kessel-Lo, implemented since March 2021

3.2.4.3 Realizations



Figure 92: March 2021 – Temporary installation test location at eHUB Station Leuven Kessel-Lo, implemented since March 2021



Figure 93: March 2021 – Temporary installation test location at eHUB Station Leuven Kessel-Lo, implemented from March 2021 till September 2021



Figure 94 October 2021 – Temporary installation test location at eHUB Station Leuven (Martelarenplein), implemented from October 2021



Figure 95 October 2021 – Temporary installation test location at eHUB Station at eHUB Station Leuven (Kessel-Lo), implemented from October 2021

3.2.5 Tervuursepoort

3.2.5.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Yes Bus (De Lijn)	5 (Cambio)	2 (Cambio)	/	0	0	Yes	Yes	3 (Allego)

Table 21: December 2021 – The available services at eHUB Tervuursepoort Heverlee

3.2.5.2 Plans

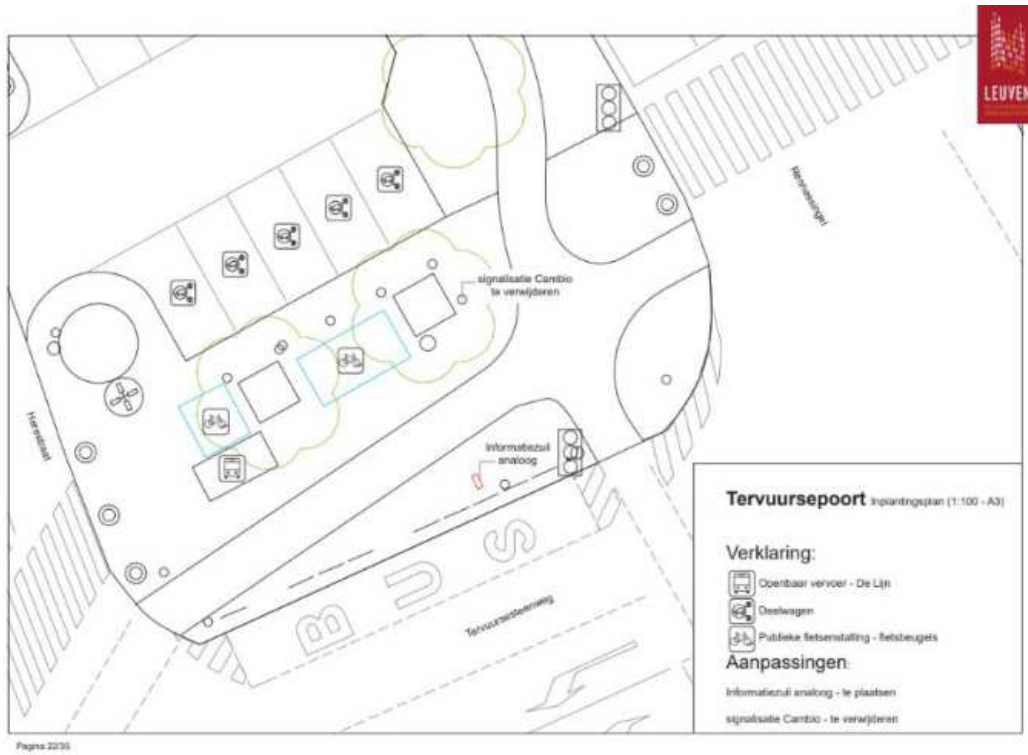


Figure 96: Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Tervuursepoort, implemented since March 2021

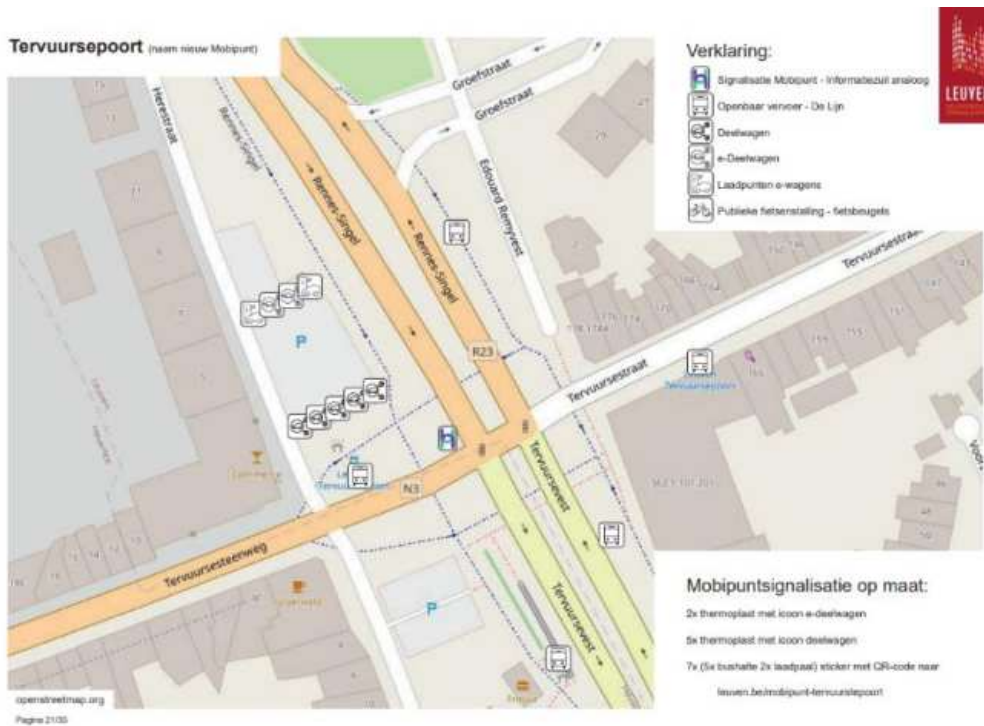


Figure 97: March 2021 - Signage plan for eHUB Tervuursepoort

3.2.5.3 Realizations



Figure 98: March 2021 – Small information pillar at eHUB tervuursepoort



Figure 99: March 2021 – Ground signage at eHUB tervuursepoort



Figure 100 November 2021 – Package hub at eHub Tervuursepoort

3.3 Phase 3: May 2021

We installed 9 eHUBS last May 2021.

Signage was updated to new standards for some formerly installed eHubs such as Researchpark Haasrode I, Tervuursepoort, etc.

Figure 101 shows the ehubs implantation during Phase 3 (May 2021) in red pinpoint. This map can also be accessed via this link: <https://www.google.com/maps/d/u/0/edit?mid=1Vax0jpp-Nt60O4zksS1xnRAjYT8vTktH&usp=sharing>

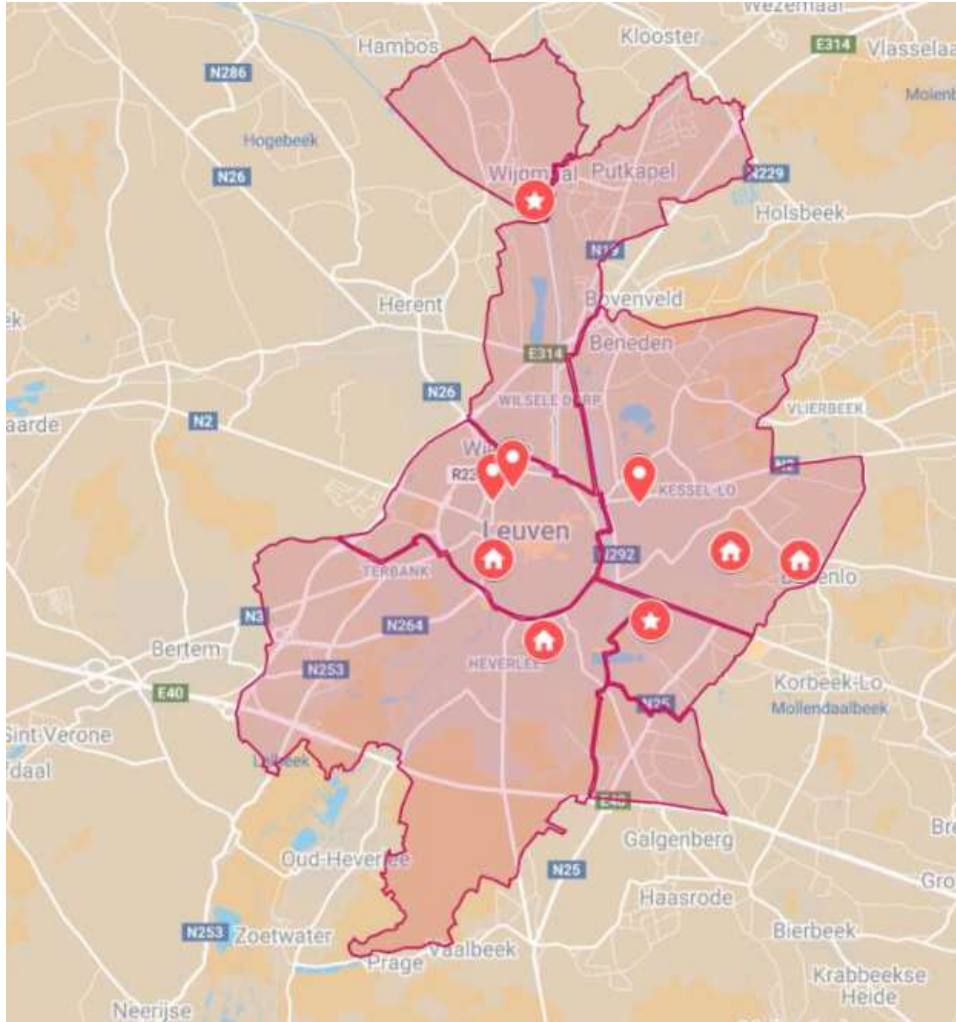


Figure 101: Map eHUBs opened in May 2021

N°	ID	Sub-municipality	Type eHUB	Strategic, Bottom-up or Strategic with Participation trajectory	EV	E-bikes	E-cargo-bikes
19	Bottelarij	LEU	S	L	1	0	0
20	Boven-Lo	KLO	B	L	0	1	0
21	Centrale werkplaatsen	KLO	S	B	1	0	0
22	De Bron	KLO	B	L	0	2	0

23	Matadibuurt	HEV	B	B	0	2	0
24	Park De Bruul	LEU	S	L	0	0	0
25	Refugehof	LEU	B	B	0	2	0
26	Spaanse Kroon	KLO	SB	L	0	2	0
27	Station Wijgmaal	WIJ	SB	R	0	3	0

Table 15: May 2021 - The eHUBs and their vehicles in Leuven

3.3.1 Bottelarij

3.3.1.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	5 (Cambio)	1 (Cambio)	/	/	1	/	/	1 (Allego)

Table 22: December 2021 – The available services at eHUB Botterlarij

3.3.1.2 Plans

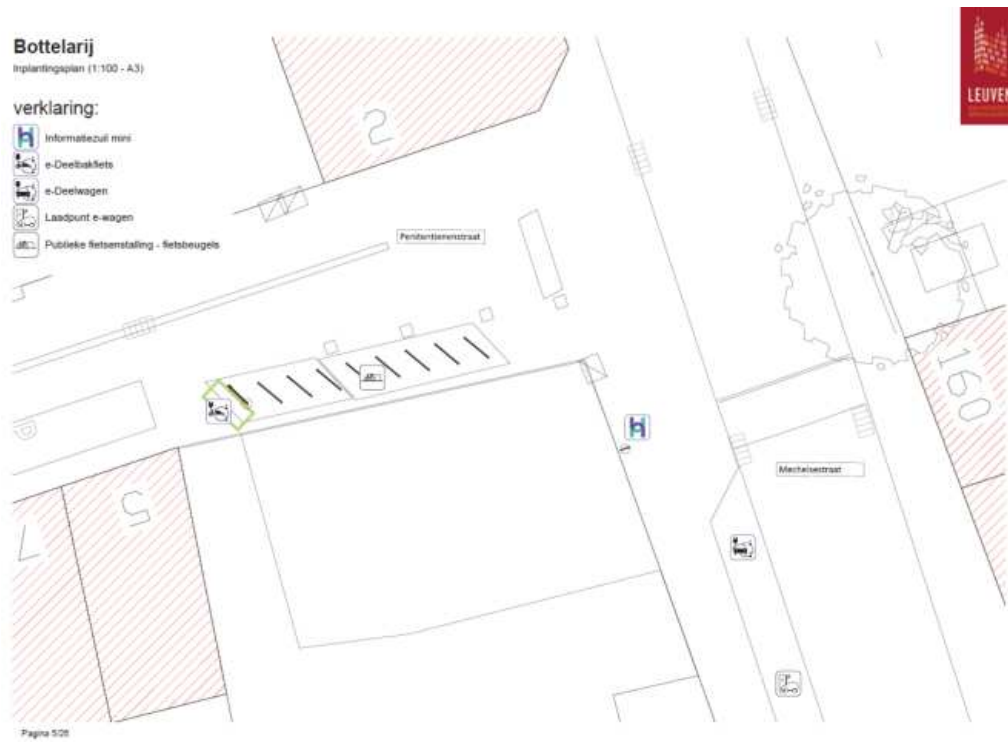


Figure 102: May 2021 - Site plan information pillar of eHUB Botterlarlij, implemented since May 2021

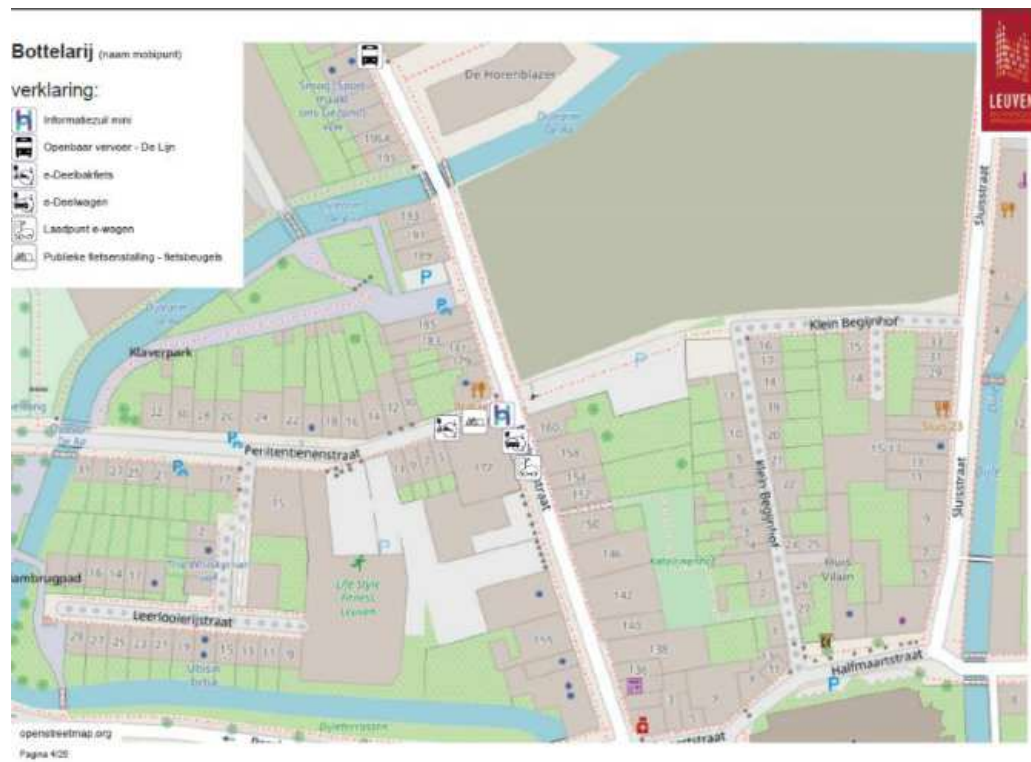


Figure 103: May 2021 - Signage plan of eHUB Botterlarlij, since May 2021

3.3.1.3 Realizations



Figure 104: May 2021 – Bicycle rack and thermoplastic lining for shared e-cargo-bike at eHUB Botterlarlij (Cargobike delivered in July21)



Figure 105: May 2021 – Small information pillar of eHUB Bottelarij

3.3.2 Boven-Lo

3.3.2.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parki ng	Chargin g infrastr ucture for public EV
Small	Bus (De Lijn)	1 (Cambio)	/	/	/	1	/	/	/

Table 23: December 2021 – The available services at eHUB Boven-Lo

3.3.2.2 Plans

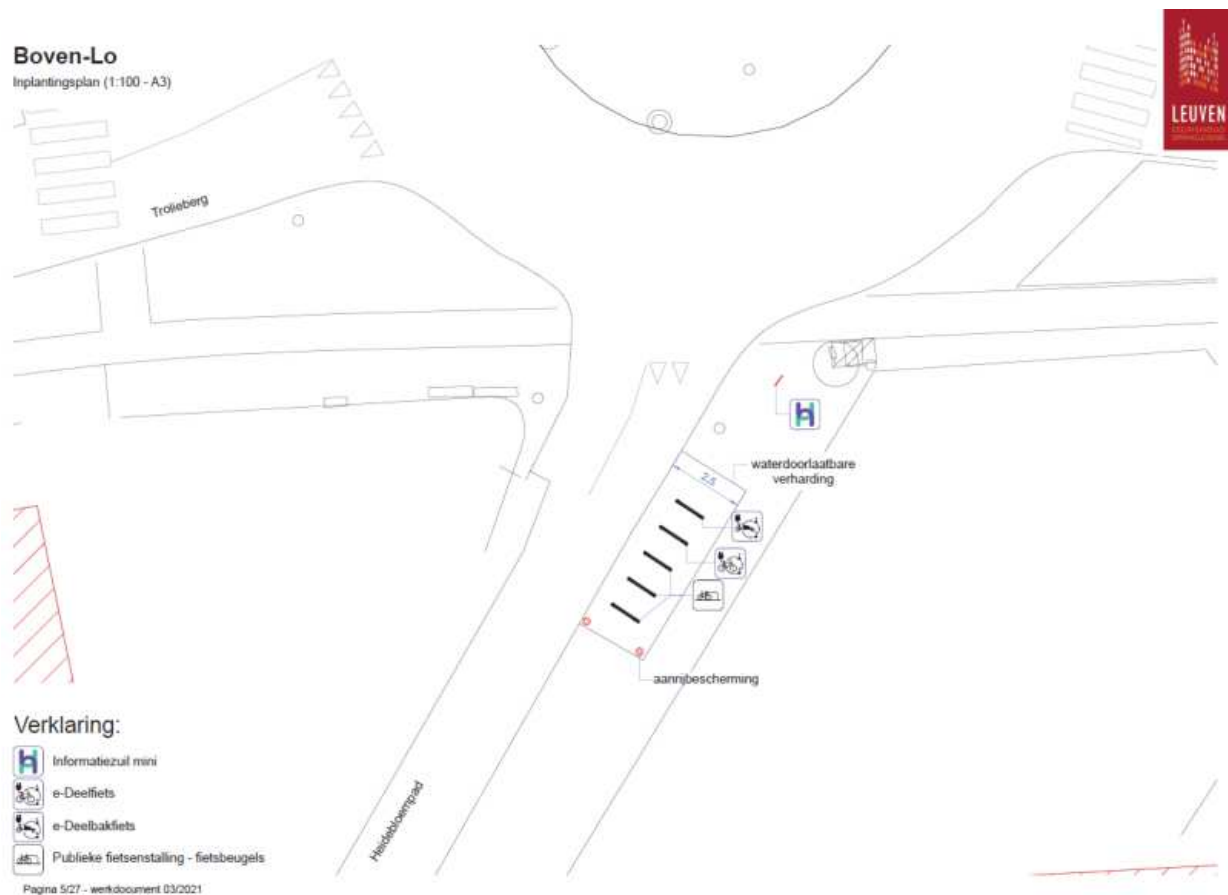


Figure 106: May 2021 - Site plan information pillar of eHUB Boven-Lo, implemented since May 2021

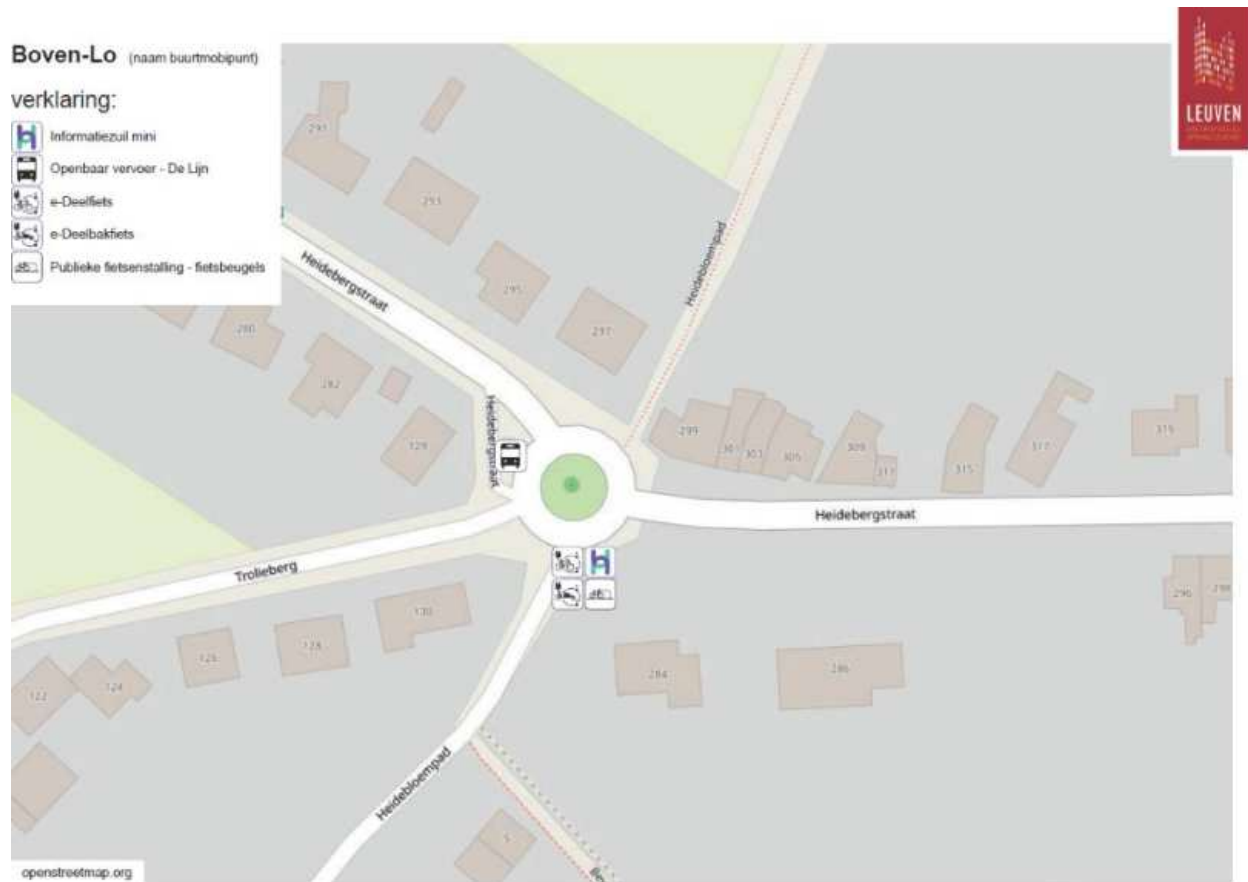


Figure 107: May 2021 - Signage plan of eHUB Boven-Lo, since May 2021

3.3.2.3 Realizations



Figure 108: May 2021 – Bicycle racks and thermoplastic lining for Shared e-bikes and shared e-cargo-bike at eHUB Boven-Lo



Figure 109: May 2021 – Small information pillar of eHUB Boven-Lo



Figure 110 November 2021 – Package hub at eHub Boven-Lo



Figure 111 November 2021 – Cargo e-bike at eHub Boven-Lo



Figure 112 November 2021 – Shared car at eHub Boven-Lo

3.3.3 Centrale werkplaatsen

3.3.3.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastructure for public EV
Small	Bus (De Lijn)	6 (Cambio)	1 (Cambio)	/	/	1	/	/	1 (Allego)

Table 24: December 2021 – The available services at eHUB Centrale werkplaatsen

3.3.3.2 Plans



Figure 113 May 2021 – Site plan information pillar, e cargo-bike and shared cars of eHUB Centrale werkplaatsen, implemented since May 2021

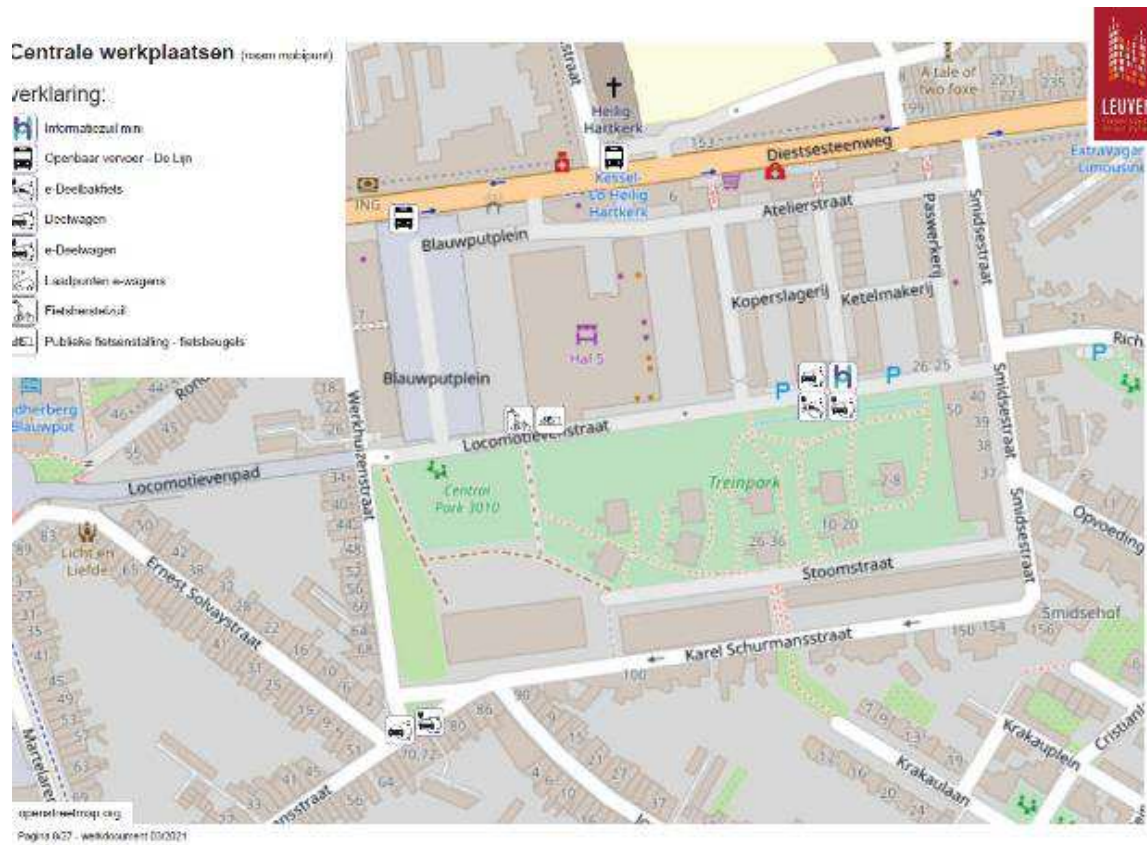


Figure 114 May 2021 – Signage plan of eHUB Centrale werkplaatsen, implemented since May 2021

3.3.3.3 Realizations



Figure 115: May 2021 – Small information pillar of eHUB Centrale werkplaatsen, and thermoplastic lining for shared e-cargo-bike (delivery in July 21)



Figure 116: May 2021 – Shared cars and signage at eHUB Centrale werkplaatsen

3.3.4 De Bron

3.3.4.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/ (Cambio)	/(Cambio)	/	2	/	/	/	/ (Allego)

Table 25: December 2021 – The available services at eHUB De Bron

3.3.4.2 Plans

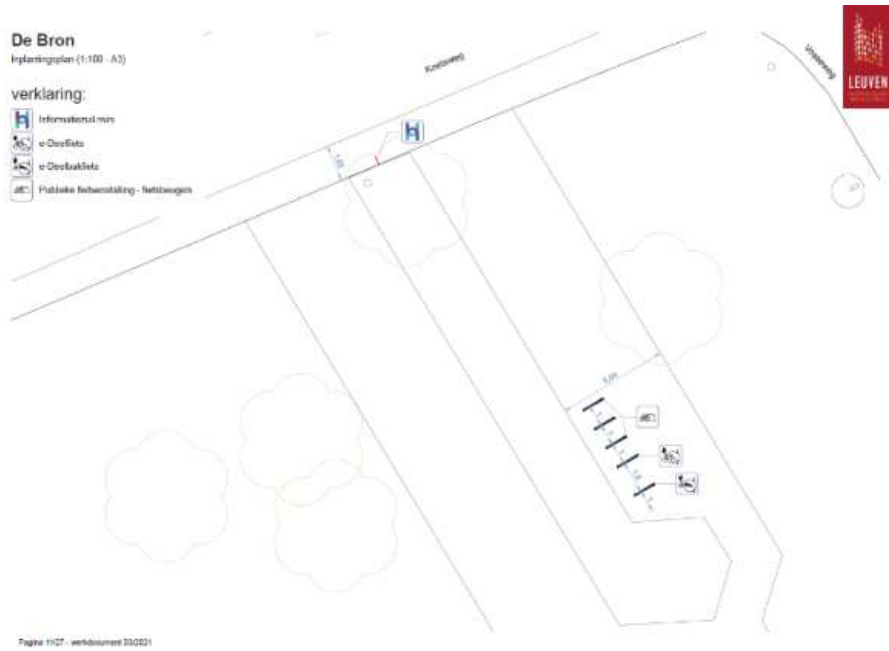


Figure 117: May 2021 – Site plan information pillar of eHUB De Bron, implemented since May 2021



Figure 118: May 2021 – Signage plan of eHUB De Bron, implemented since May 2021

3.3.4.3 Realizations



Figure 119: May 2021 – Small information pillar of eHUB De Bron



Figure 120: May 2021 – Signage Cargo E-bike at eHUB De Bron



Figure 121 November 2021 –Cargo E-bike and package hub at eHUB De Bron

3.3.5 Matadibuurt

3.3.5.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/ (Cambio)	(Cambio)	/	2	/	/	/	1 ⁴ (Allego)

Table 26: December 2021 – The available services at eHUB Matadibuurt

⁴ Zegelaan

3.3.5.2 Plans

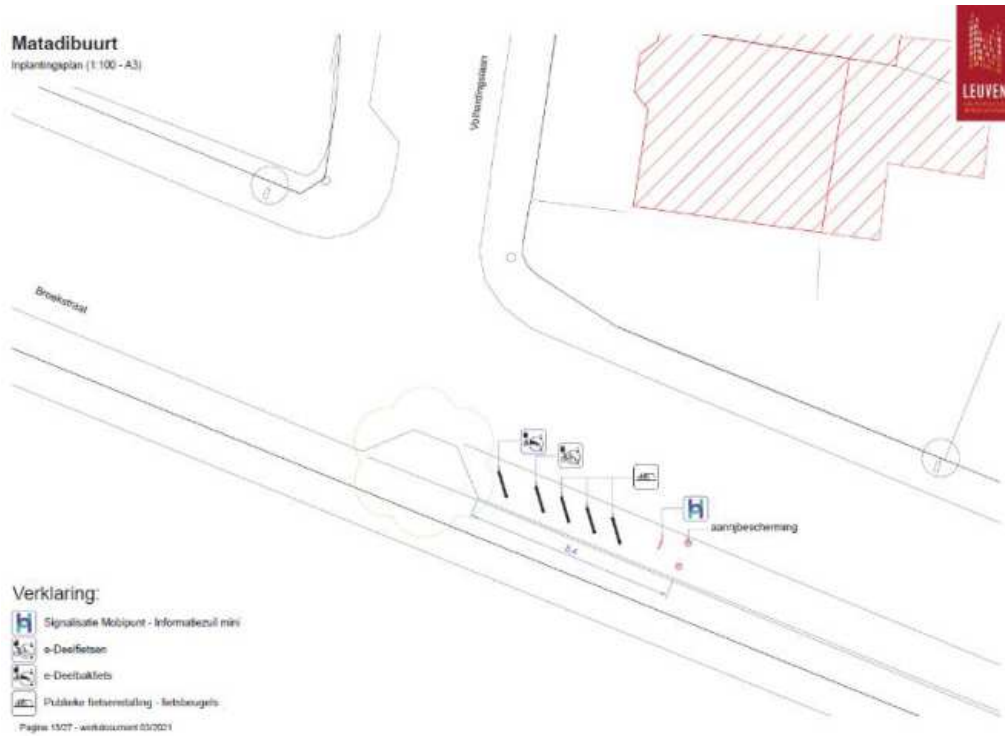


Figure 122: May 2021 – Site plan information pillar of eHUB Matadibuurt, implemented since May 2021



Figure 123: May 2021 – Signage plan of eHUB Matadibuurt, implemented since May 2021

3.3.5.3 Realizations



Figure 124: May 2021 – Small information pillar, infrastructure and signage of eHUB Matadibuurt



Figure 125: May 2021 – Cargo E-bike signage at eHUB Matadibuurt



Figure 126 November 2021 – e cargo-bike at eHub Matadibuurt (available since July 2021)



Figure 127 November 2021 – Package hub at eHub Matadibuurt

3.3.6 Park De Bruul

3.3.6.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastructure for public EV
Small	Bus (De Lijn)	2 (Cambio)	/ (Cambio)	/	/	/	/	Yes	2 ⁵ (Allego)

Table 27: December 2021 – The available services at eHUB Park De Bruul

3.3.6.2 Plans



Figure 128: May 2021 – Site plan information pillar of eHUB Park De Bruul, implemented since May 2021

⁵ (One in the Penitentiënstraat)



Figure 129: May 2021 – Signage plan of eHUB Park De Bruul, implemented since May 2021

3.3.6.3 Realizations



Figure 130: May 2021 – Small information pillar of eHUB Park De Bruul



Figure 131: May 2021 – Shared car and cargo E-bike signage at eHUB Park De Bruul (Cargoroo delivery in July 21)



Figure 132 November 2021 – Package hub at eHub Park De Bruul

3.3.7 Refugehof

3.3.7.1 Services

The following table shows the available services:

Information pillar	Public transport	Share d Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parki ng	Chargin g infrastr ucture for public EV
Small	Bus (De Lijn)	/ (Cambio)	/ (Cambio)	/	2	/	/	/	/ (Allego)

Table 28: December 2021 – The available services at eHUB Refugehof

3.3.7.2 Plans

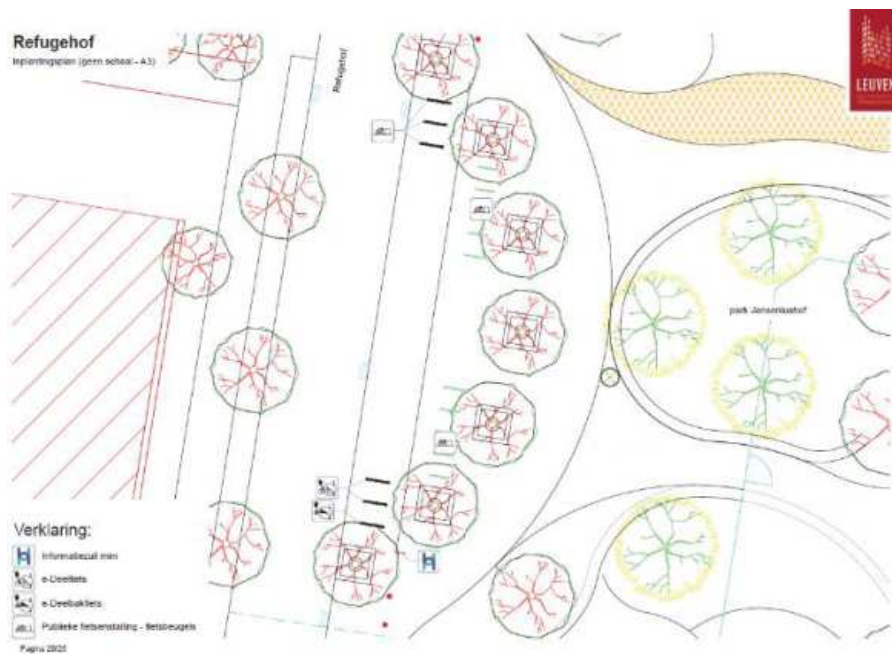


Figure 133: May 2021 – Site plan information pillar of eHUB Refugehof, implemented since May 2020



Figure 134: May 2021 -- Signage plan of eHUB Refugehof, to implemented since May 2020

3.3.7.3 Realizations



Figure 135: May 2021 – Small information pillar of eHUB Refugehof



Figure 136: May 2021 – Bike infrastructure and signage at eHUB Refugehof (Cargoroo only delivered in July 21)

3.3.8 Spaanse Kroon

3.3.8.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Medium	Bus (De Lijn)	1 (Cambio)	/ (Cambio)	/	2	/	/	/	1 ⁶ (Allego)

Table 29: December 2021 – The available services at eHUB Spaanse Kroon

⁶ Oudebaan

3.3.8.2 Plans

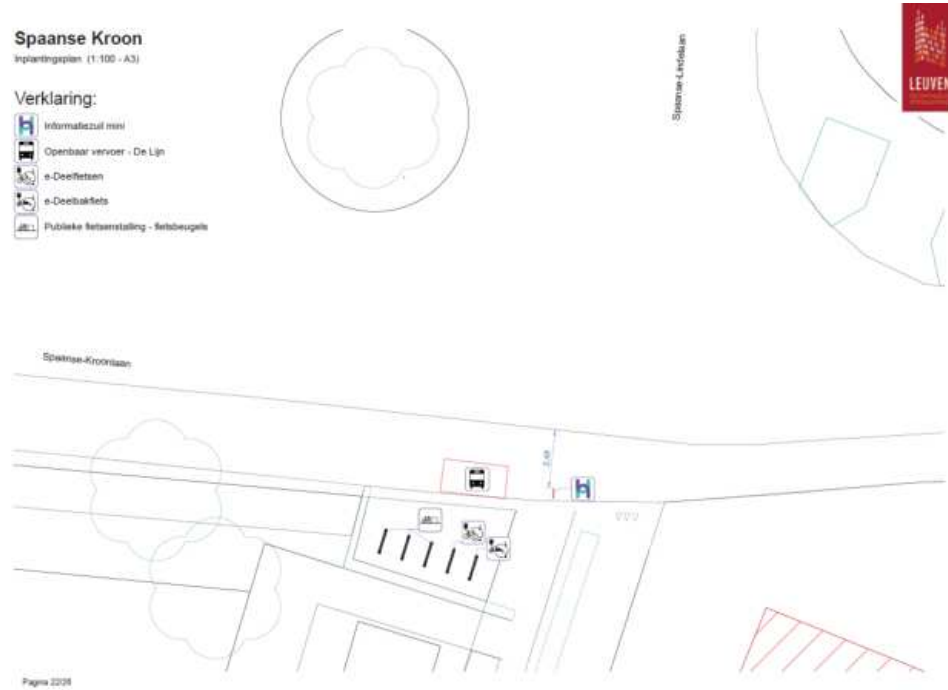


Figure 137: May 2021 – Site plan information pillar of eHUB Spaanse Kroon, implemented since May 2021



Figure 138: May 2021 – Signage plan of eHUB Spaanse Kroon, implemented since May 2021

3.3.8.3 Realizations



Figure 139: May 2021 – Small information pillar of eHUB Spaanse Kroon



Figure 140: May 2021 – Bike infrastructure and signage at eHUB Spaanse Kroon



Figure 141 July 2021 – e cargo-bike at eHub Spaanse Kroon

3.3.9 Station Wijgmaal

3.3.9.1 Services

The following table shows the available services:

Information pillar	Public transport	Share d Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parki ng	Chargin g infrastr ucture for public EV
Medium	Train (NMBS) Bus (De Lijn)	2 (Cambio)	/ (Cambio)	/	2	/	Yes	Yes	3 ⁷ (Allego)

Table 30: December 2021 – The available services at eHUB Station Wijgmaal

Definitive signage (digital pillar and thermoplastic signage is planned to be set in place in august 2021 due to a longer trajectory because a meter counter has to be placed to connect the digital medium pillar to the electricity network.

⁷ One in the Kleine Dolagestraat

3.3.9.2 Plans



Figure 142: May 2021 – Site plan information pillar of eHUB Station Wijgmaal, implemented since May 2021



Figure 143: May 2021 – Signage plan of eHUB Station Wijgmaal, implemented since May 2021

3.3.9.3 Realizations



Figure 144: May 2021 – Shared cars and charging infrastructure at eHUB Station Wijgmaal



Figure 145: July 2021 – Bike infrastructure and e cargo-bike at eHUB Station Wijgmaal (<https://pers.leuven.be/deelmobiliteit-binnen-handbereik-dankzij-41-mobipunten>)



Figure 146 November 2021 – Package hub and medium information pillar eHub Station Wijkmaal

3.4 Phase 4: June 2021

By the end of June 2021, the city of Leuven has installed another fourteen eHUBS. This brings the total number of eHUBS to 41. The total number of electric cargo e-bikes will be expanded to 30 beginning of July. During July and August, leaflets will be distributed in the residential neighborhoods of the eHubs. A press release was sent out beginning of July.

Infrastructure for the eHub Vaartkom was foreseen in this Phase, the signage will be installed at earliest in August 2021.

Figure 101 shows the ehubs implantation during Phase 4 (June 2021) in blue pinpoints. This map can also be accessed via this link: <https://www.google.com/maps/d/u/0/edit?mid=1Vax0jpp-Nt60O4zksS1xnRAjYT8vTktH&usp=sharing>

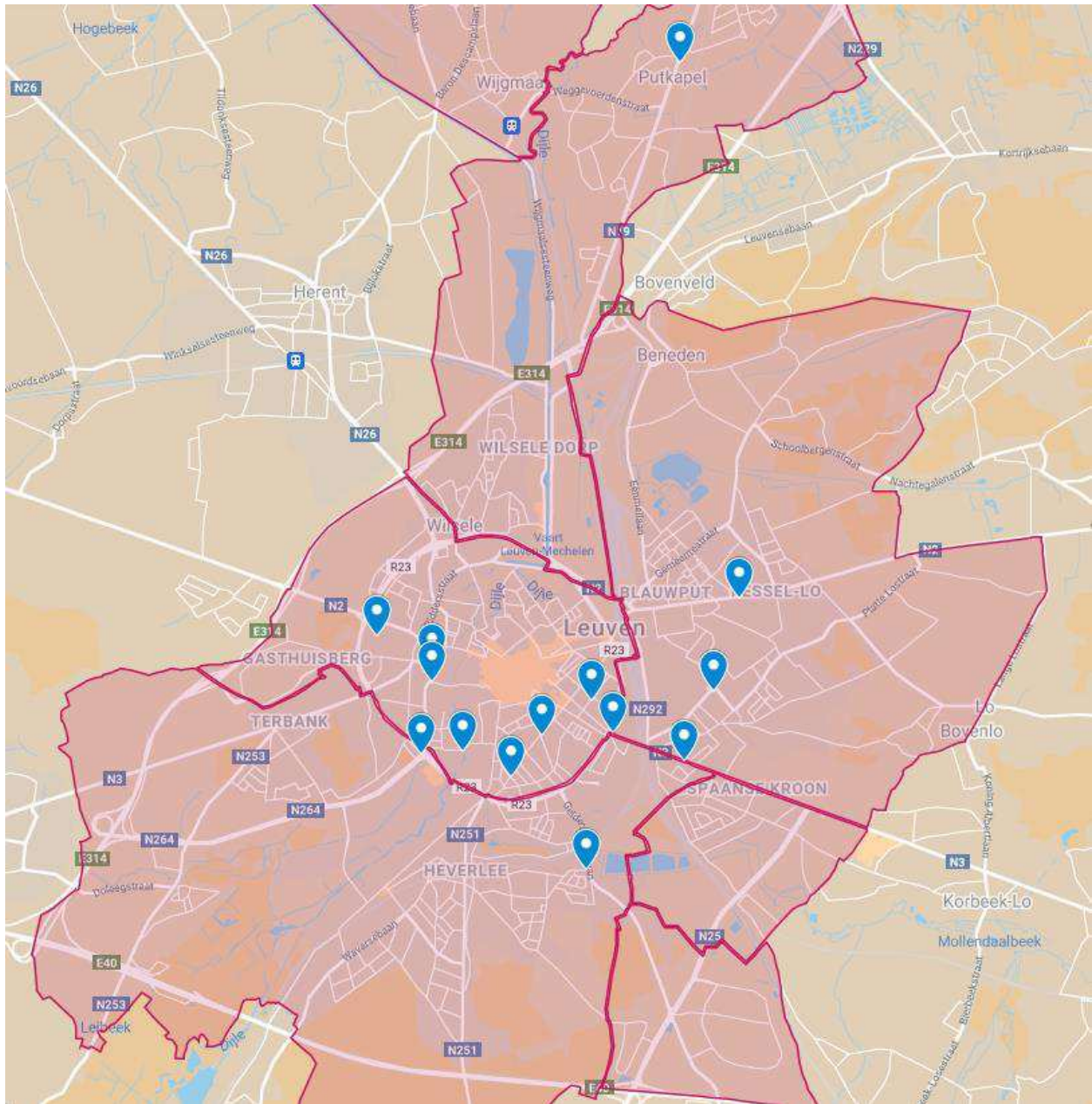


Figure 147 Map eHUBs opened in June 2021

N°	ID	Sub-municipality	Type eHUB	Strategic, Bottom-up or Strategic with Participation trajectory	EV	E-bikes	E-cargo-bikes
28	Bodartparking	HEV	R		0	0	0
29	Boudewijnstadion	KLO	L	S	1	0	0
30	Constantin Meunierstraat	LEU	B	S	0	0	0
31	Kaboutermansstraat	LEU	B	S	0	0	0
32	Korfbalclub	KLO	L	S	1	0	0
33	Kruidtuin	LEU	B	S	0	0	0
34	Michotte	HEV	L	SB	0	0	0
35	OCMW Leuven	LEU	R	S	0	0	0
36	Quinten Metsysplein	LEU	B	S	0	0	0
37	Redingenstraat		B	S	0	0	0
38	Sint-Jacobsplein	LEU	L	S	1	0	0
39	Sportoase Wilsele- Putkapel	WIL	L	S	0	0	0
40	Tiensepoort	LEU	L	S	1	0	0
41	Vaartkom	LEU	L	S	0	0	0

Table 15: May 2021 - The eHUBs and their vehicles in Leuven

3.4.1 Bodartparking

3.4.1.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for

									public EV
Medium	Bus (De Lijn)	1 (Cambio)	0 (Cambio)	/	/	/	Yes	Yes	2 (Allego)

Table 31: December 2021 – The available services at eHUB Bodartparking

3.4.1.2 Plans

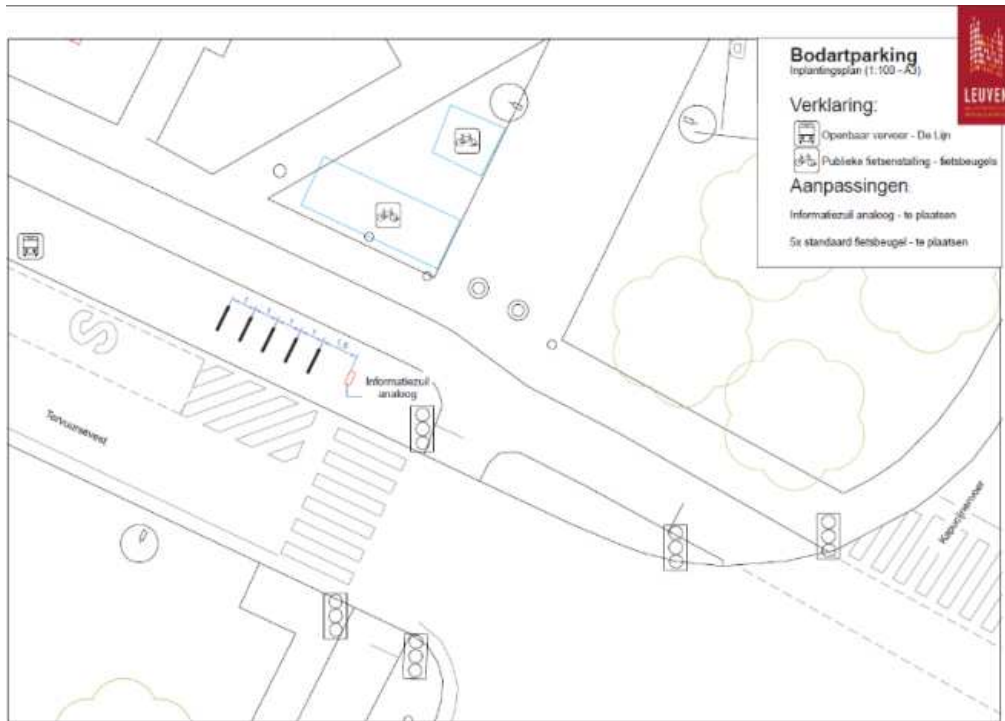


Figure 148: March 2021 - Site plan information pillar of eHUB Bodartparking, implemented since March 2020



Figure 149: March 2021 - Signage plan of eHUB Bodartparking, to be implemented in March 2021

3.4.1.3 Realizations



Figure 150: March 2021 – Medium information pillar of eHUB Bodartparking



Figure 151: March 2021 – Shared cars and charging infrastructure at eHUB Bodartparking

3.4.2 Boudewijnstadion

3.4.2.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	1 (Cambio)	1 (Cambio)	/	/	/	Yes	Yes	2 (Allego)

Table 32: December 2021 – The available services at eHUB Boudewijnstadion

3.4.2.2 Plans

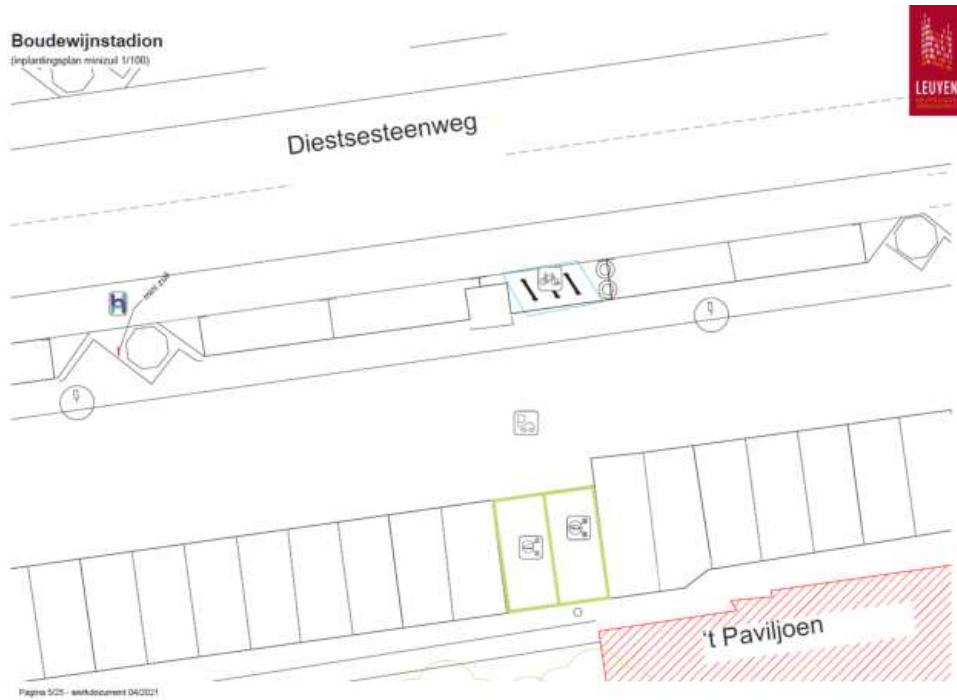


Figure 152: June 2021 – Site plan information pillar of eHUB Boudewijnstadion, implemented since June 2021

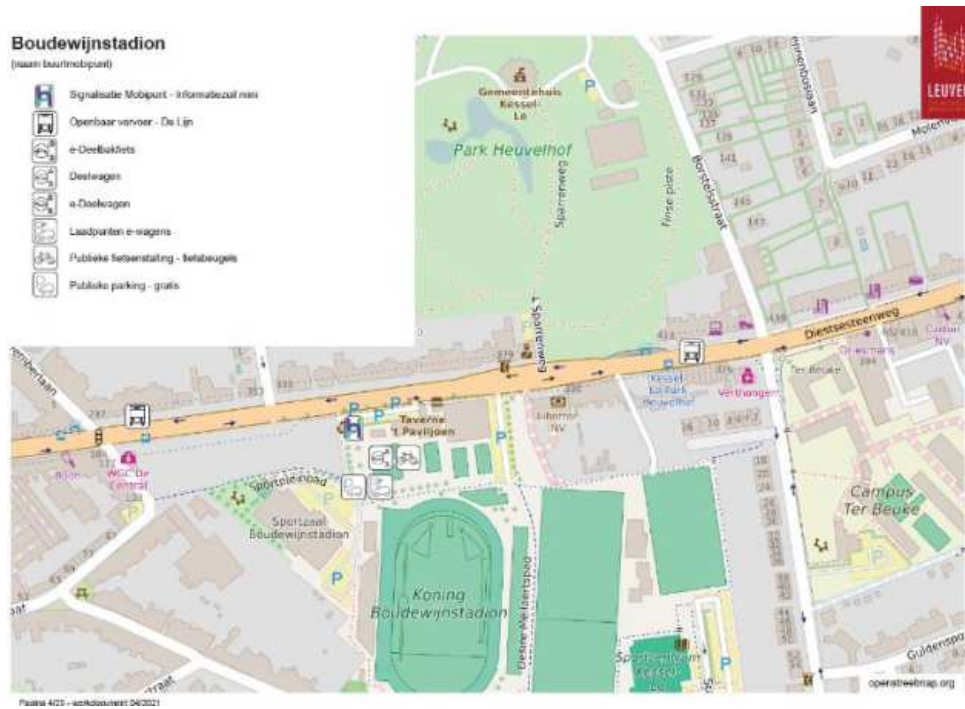


Figure 153: June 2021 – Signage plan of eHUB Boudewijnstadion, implemented since June 2021

3.4.2.3 Realizations



Figure 154: June 2021 – Small information pillar of eHUB Boudewijnstadion



Figure 155: June 2021 – Shared cars at eHUB Boudewijnstadion

3.4.3 Constantin Meunierstraat

3.4.3.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastructure for public EV
Small	Bus (De Lijn)	3 (Cambio)	/	/	/	/	/	Yes	1 (Allego)

Table 33: December 2021 – The available services at eHUB Constantin Meunierstraat

3.4.3.2 Plans



Figure 156: June 2021 – Site plan information pillar of eHUB Constantin Meunierstraat, implemented since June 2021



Figure 157: June 2021 – Signage plan of eHUB Constantin Meunierstraat, implemented since June 2021

3.4.3.3 Realizations



Figure 158: June 2021 – Small information pillar and e-cargobike signage at eHUB Constantin Meunierstraat (Cargoroo delivered in July 21)



Figure 159: June 2021 – Shared cars at eHUB Constantin Meunierstraat

3.4.4 Kaboutermansstraat

3.4.4.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	1 (Cambio)	/	/	/	/	/	/	1 (Allego)

Table 34: December 2021 – The available services at eHUB Kaboutermansstraat

3.4.4.2 Plans

Kaboutermansstraat (plantingsplan)



Figure 160: June 2021 – Site plan information pillar of eHUB Kaboutermansstraat, implemented since June 2021

Kaboutermansstraat

(naam buurtrochtpunt)

- Signalisatie Mobipunt - Informatiezuil mini
- e-Deobal fiets
- Dieselwagen
- Laadpunten e-wagens

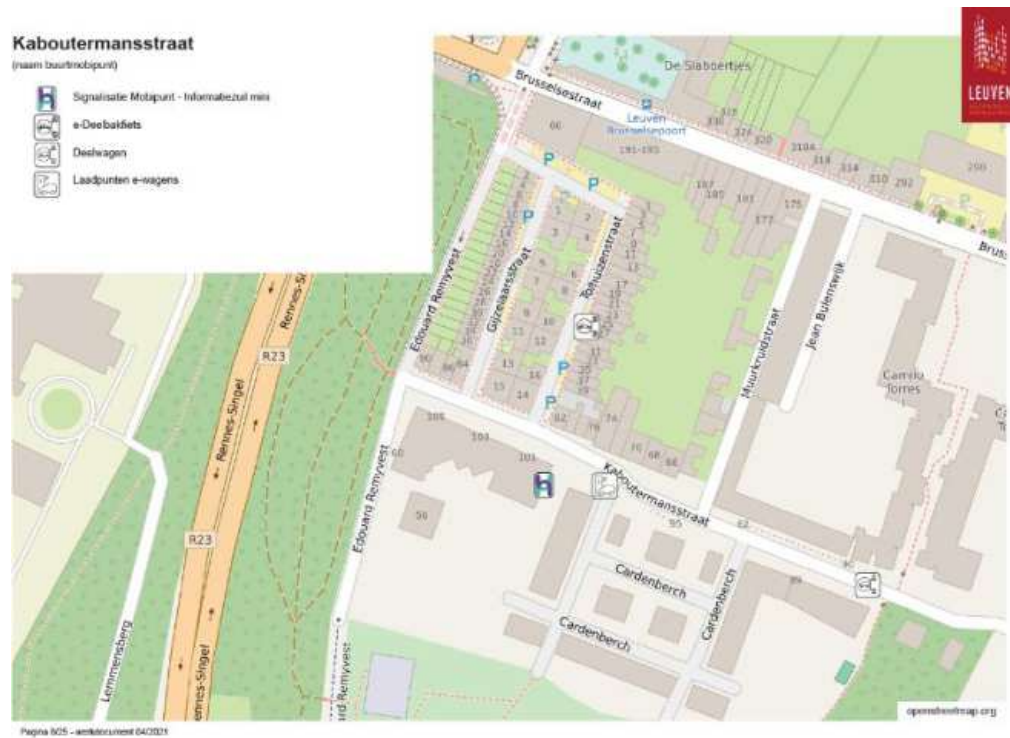


Figure 161: June 2021 – Signage plan of eHUB Kaboutermansstraat, implemented since June 2021

3.4.4.3 Realizations



Figure 162: June 2021 – Small information pillar of eHUB Kaboutermansstraat



Figure 163: June 2021 – Shared cargo e-bike signage at eHUB Kaboutermansstraat (Cargoroo delivered in July 2021)

3.4.5 Korfbalclub

3.4.5.1 Services

The following table shows the available services:

Information pillar	Public transport	Share d Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastructure for public EV
Small	Bus (De Lijn)	3 (Cambio)	1 (Cambio)	/	/	/	Yes	Yes	2 (Allego)

Table 35: December 2021 – The available services at eHUB Korfbalclub

3.4.5.2 Plans



Figure 164: June 2021 – Site plan information pillar of eHUB Korfbalclub, implemented since June 2021



Figure 165: June 2021 – Signage plan of eHUB Korfbalclub, implemented since June 2021

3.4.5.3 Realizations



Figure 166: June 2021 – Small information pillar of eHUB Korfbalclub



Figure 167: June 2021 – Infrastructure and signage for Shared cargo e-bike at eHUB Korfbalclub (Cargoroo delivered in July 2021)

3.4.6 Kruidtuin

3.4.6.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	6 (Cambio)	/	/	/	/	/	Yes	/ (Allego)

Table 36: December 2021 – The available services at eHUB Kruidtuin

3.4.6.2 Plans

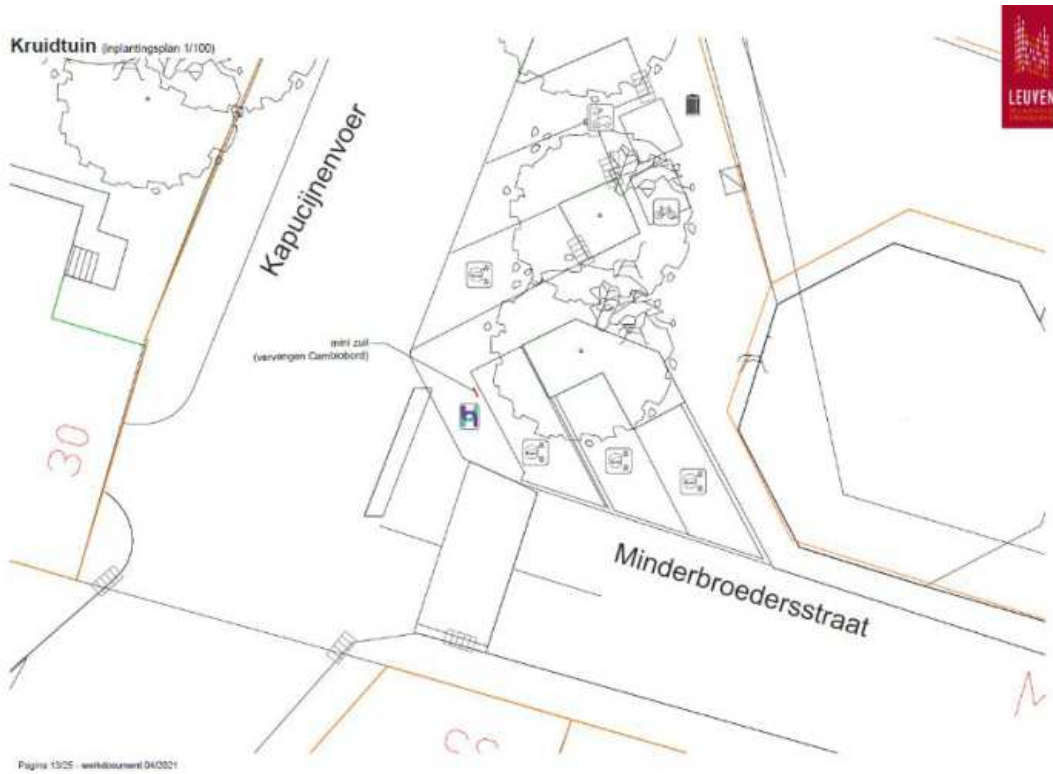


Figure 168: June 2021 – Site plan information pillar of eHUB Kruidtuin, implemented since June 2021

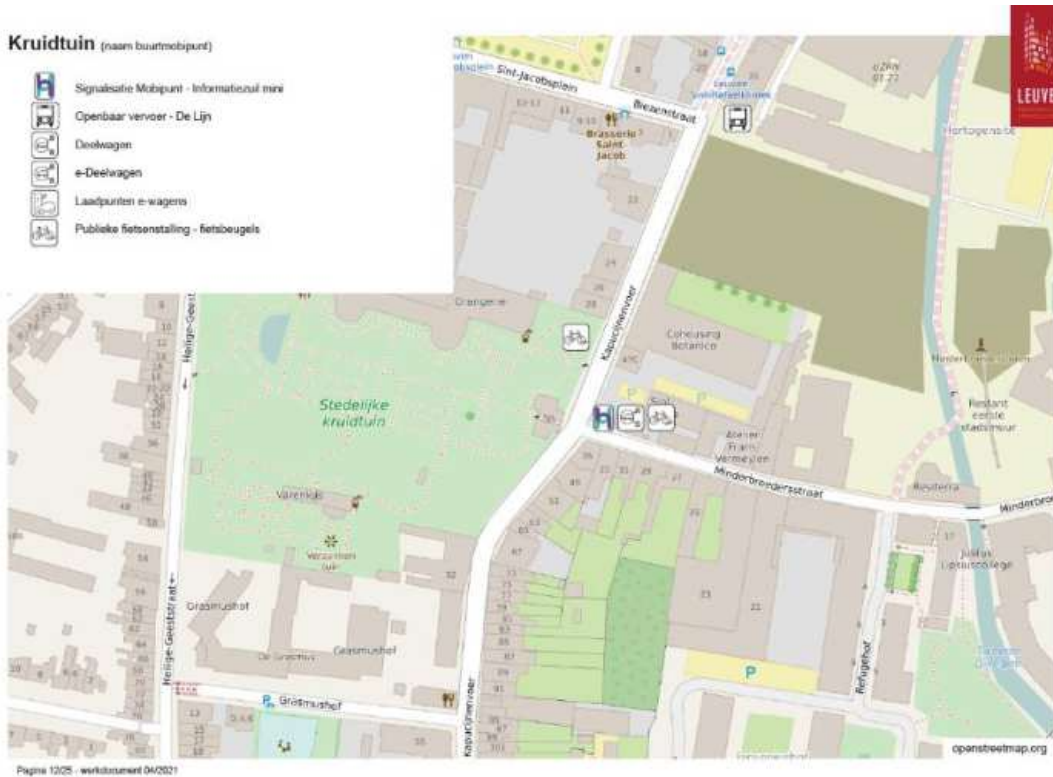


Figure 169: June 2021 – Signage plan of eHUB Kruidtuin, implemented since June 2021

3.4.6.3 Realizations



Figure 170: June 2021 – Small information pillar of eHUB Kruidtuin



Figure 171: June 2021 – Signage Shared cars at eHUB Kruidtuin

3.4.7 Michotte

3.4.7.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastructure for public EV
Small	Bus (De Lijn)	/	/	/	/	/	/	/	/ (Allego)

Table 37: December 2021 – The available services at eHUB Michotte

3.4.7.2 Plans

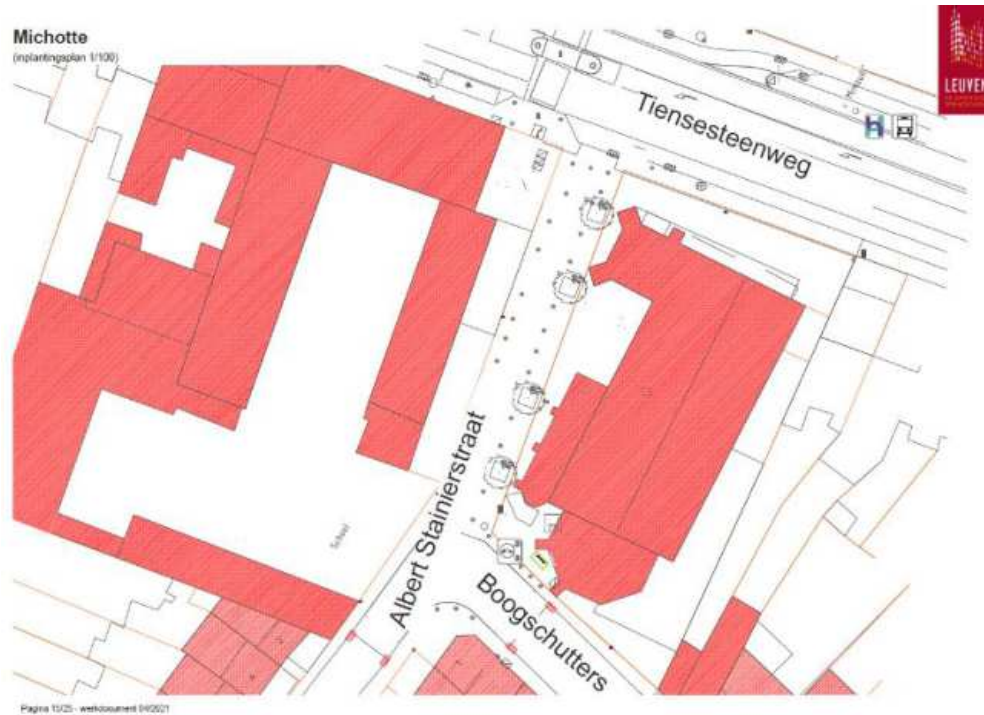


Figure 172: June 2021 – Site plan information pillar of eHUB Michotte, implemented since June 2021



Figure 173: June 2021 – Signage plan of eHUB Michotte, implemented since June 2021

3.4.7.3 Realizations



Figure 174: June 2021 – Small information pillar of eHUB Michotte



Figure 175 July 2021 – e cargo-bike at eHub Michotte

3.4.8 OCMW Leuven

3.4.8.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/	/	/	/	/	/	/	/ (Allego)

Table 38: December 2021 – The available services at eHUB OCMW Leuven

3.4.8.2 Plans

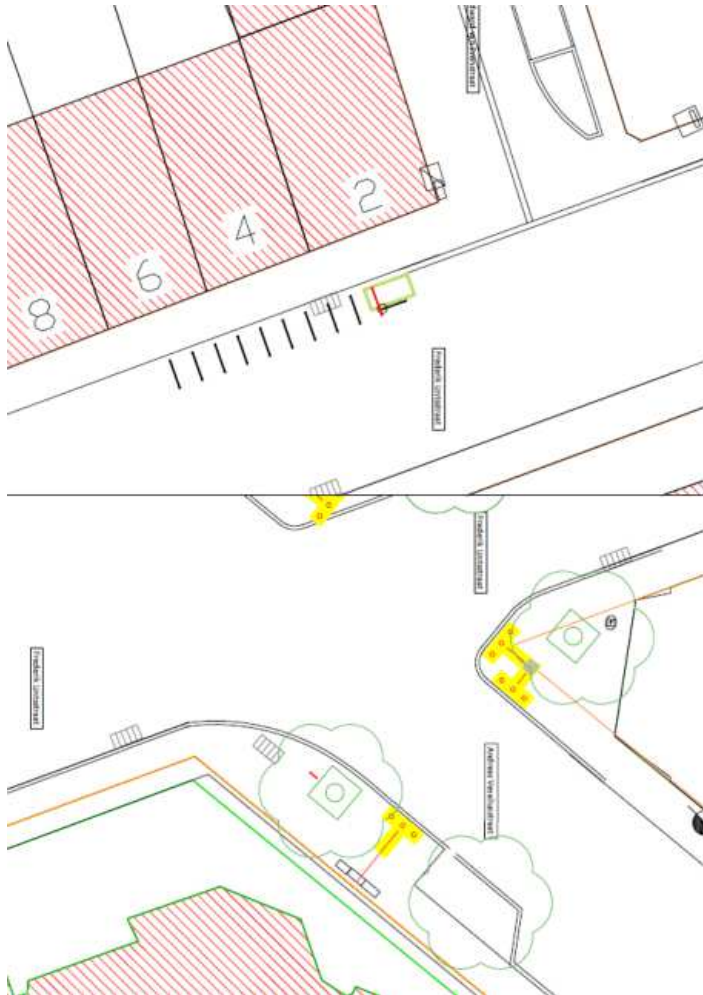


Figure 176: June 2021 – Site plan information pillar of eHUB OCMW Leuven, implemented since June 2021

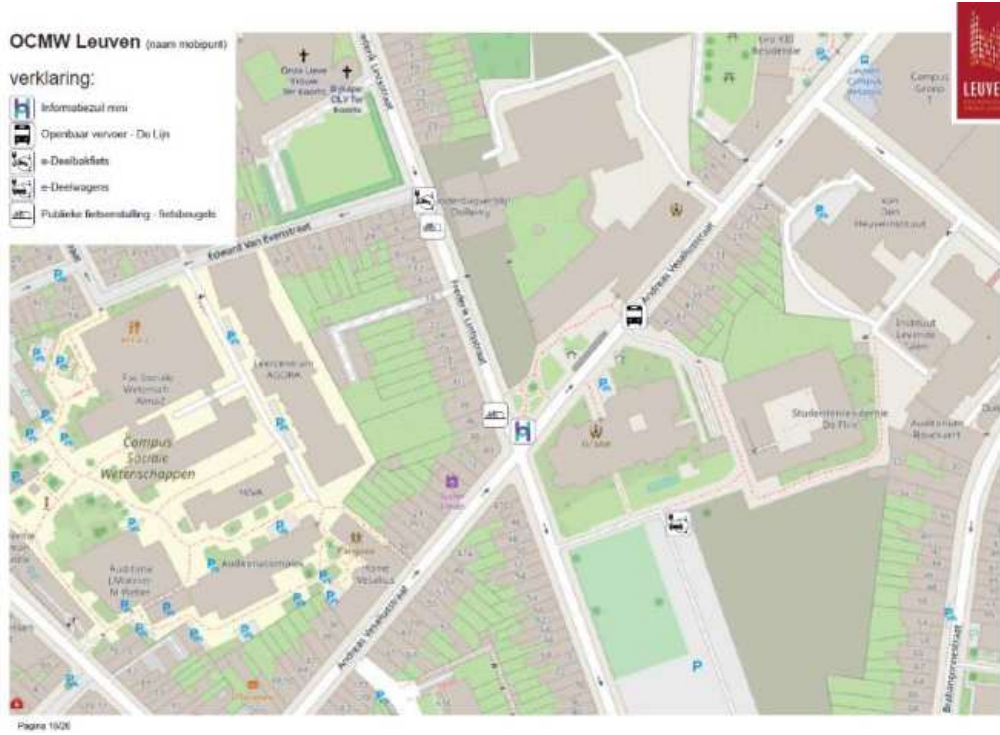


Figure 177: June 2021 – Signage plan of eHUB OCMW Leuven, implemented since June 2021

3.4.8.3 Realizations



Figure 178: June 2021 – Small information pillar of eHUB OCMW Leuven



Figure 179: June 2021 – Infrastructure and signage for shared cargo e-bike at eHUB OCMW Leuven (Cargoroo delivered in July 2021)



Figure 180 November 2021 – Package hub at eHub OCMW Leuven

3.4.9 Quinten Metsysplein

3.4.9.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Share d e-cars	Shared bikes	Shared e-bikes	Share d e-cargo-bikes	Public car parking	Publi c bike parking	Chargin g infrastr ucture for public EV
Small	/ (De Lijn)	/	/	/	/	/	/	/	1 (Allego)

Table 39: December 2021 – The available services at eHUB Quinten Metsysplein

3.4.9.2 Plans

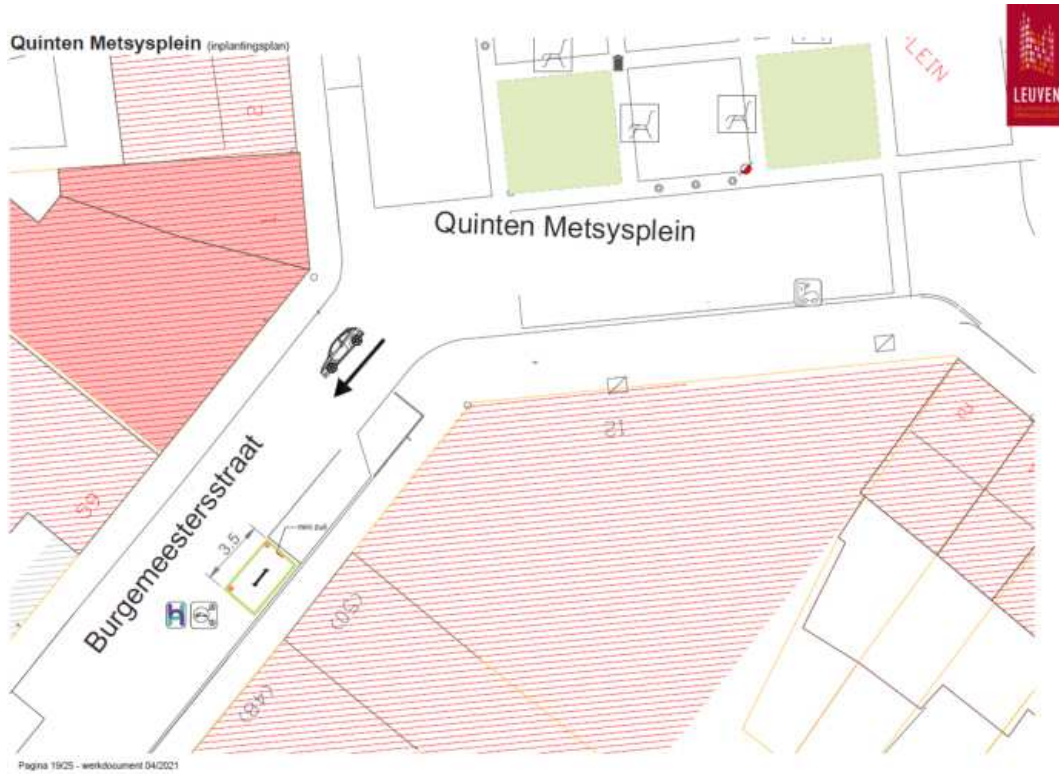
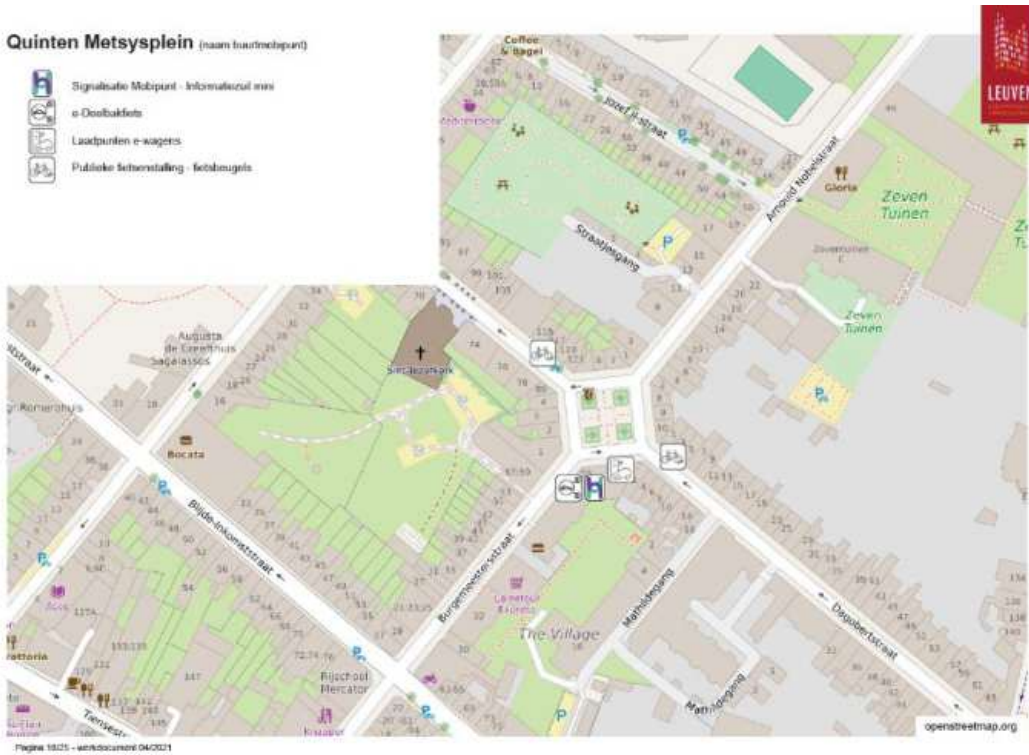


Figure 181: June 2021 – Site plan information pillar of eHUB Quinten Metsysplein, implemented since June 2021



3.4.9.3 Realizations





Figure 184: June 2021 – Infrastructure and signage for shared cargo e-bike at eHUB Quinten Metsysplein (Cargoroo delivered in July 2021)

3.4.10 Redingenstraat

3.4.10.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	2 (Cambio)	/	/	/	/	/	/	/(Allego)

Table 40: December 2021 – The available services at eHUB Redingenstraat

3.4.10.2 Plans

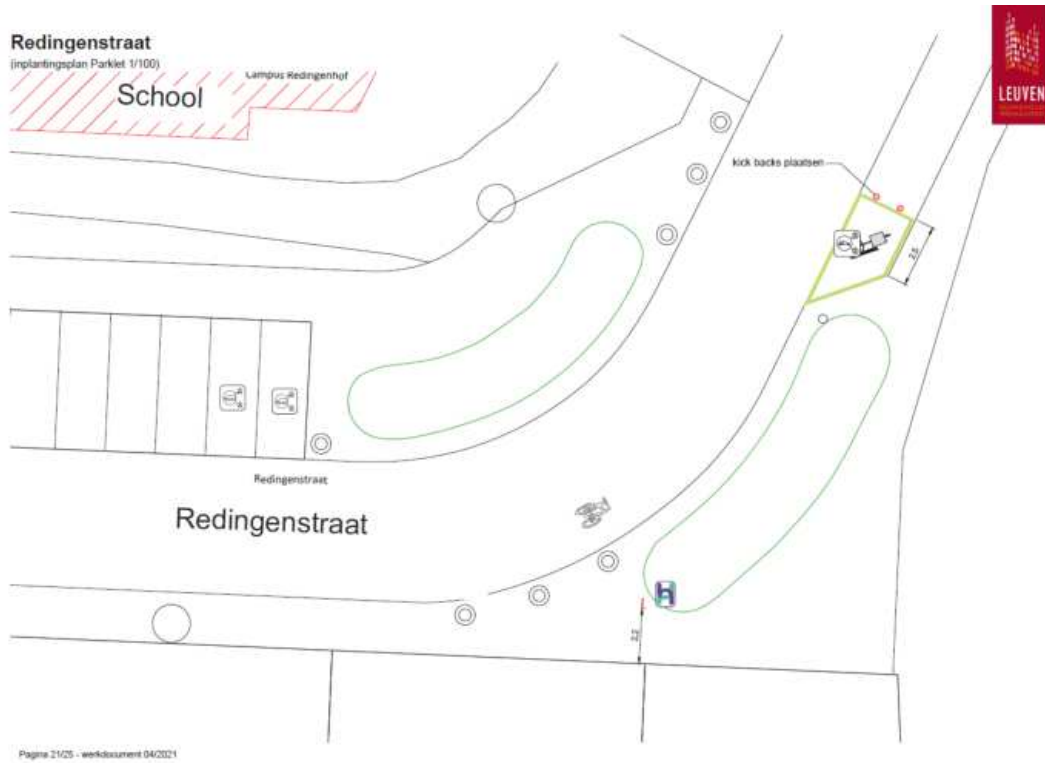


Figure 185: June 2021 – Site plan information pillar of eHUB Redingenstraat, implemented since June 2021

Redingenstraat (naam buurtmobipunt)

-  Signalisatie Mobipunt - Informatiezuil mini
-  e-Deelbakfiets
-  Deelwagen

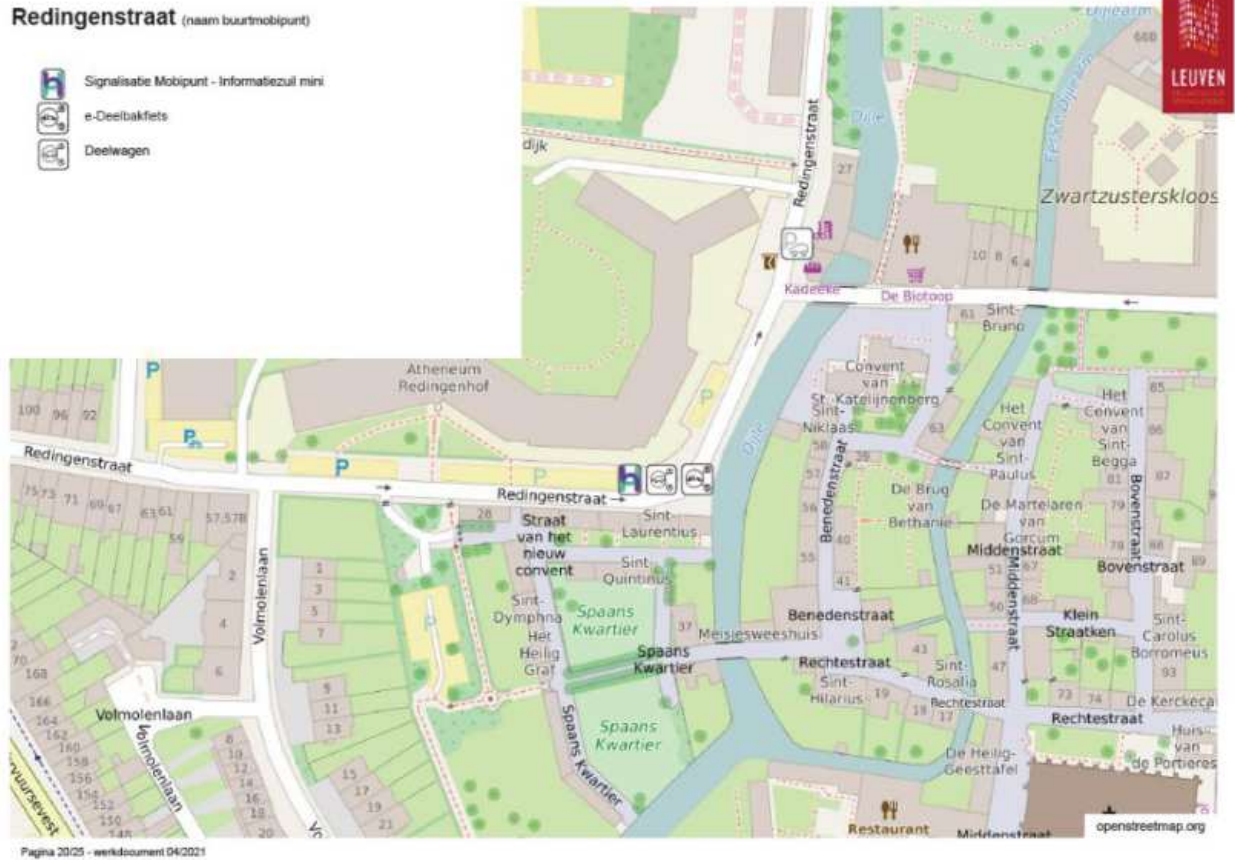


Figure 186 June 2021 – Signage plan of eHUB Redingenstraat, implemented since June 2021

3.4.10.3 Realizations



Figure 187: June 2021 – Small information pillar of eHUB Redingenstraat



Figure 188: June 2021 – Bike rack and signage for shared cargo e-bike at eHUB Redingenstraat (Cargoroo delivered in July 2021)

3.4.11 Sint-Jacobsplein

3.4.11.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	5 (Cambio)	1 (Cambio)	/	/	/	Yes	Yes	1 (Allego)

Table 41: December 2021 – The available services at eHUB Sint-Jacobsplein

3.4.11.2 Plans



Figure 189: June 2021 – Site plan information pillar of eHUB Sint-Jacobsplein, implemented since June 2021

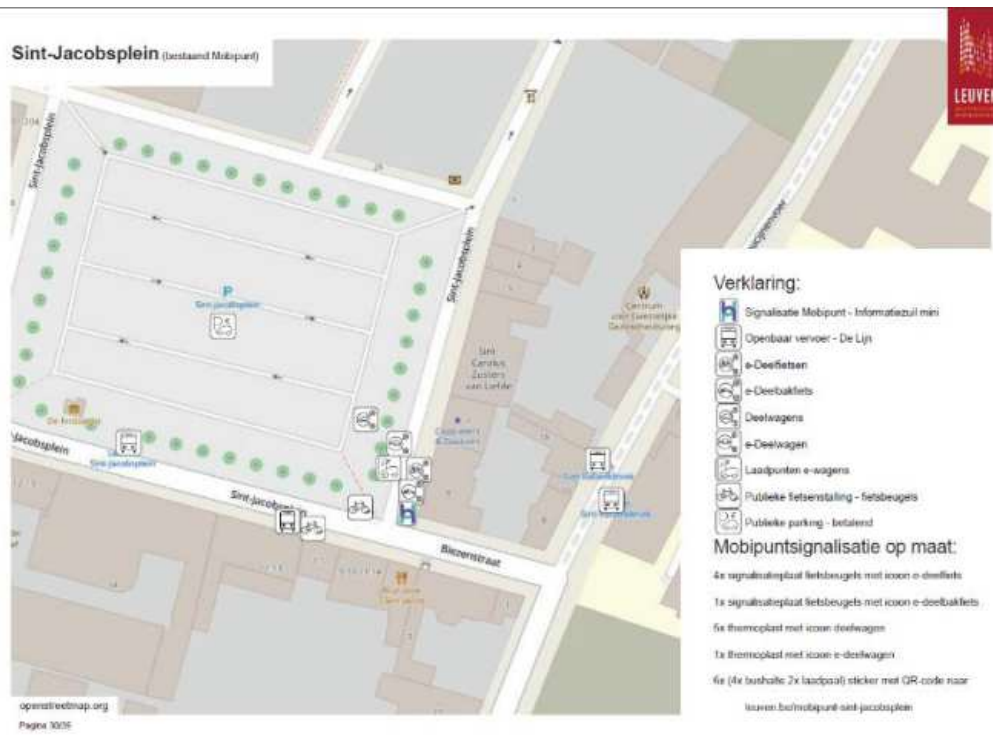


Figure 190: June 2021 – Signage plan of eHUB Sint-Jacobsplein, implemented since June 2021

3.4.11.3 Realizations



Figure 191: June 2021 – Small information pillar and bike-rack for cargo e-bike at eHUB Sint-Jacobsplein (Cargoroo delivered in July 2021)

3.4.12 Sportoase Wilsele-Putkapel

3.4.12.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/ (Cambio)	/ (Cambio)	/	/	/	Yes	Yes	1 (Allego)

Table 42: December 2021 – The available services at eHUB Sportoase Wilsele-Putkapel

3.4.12.2 Plans

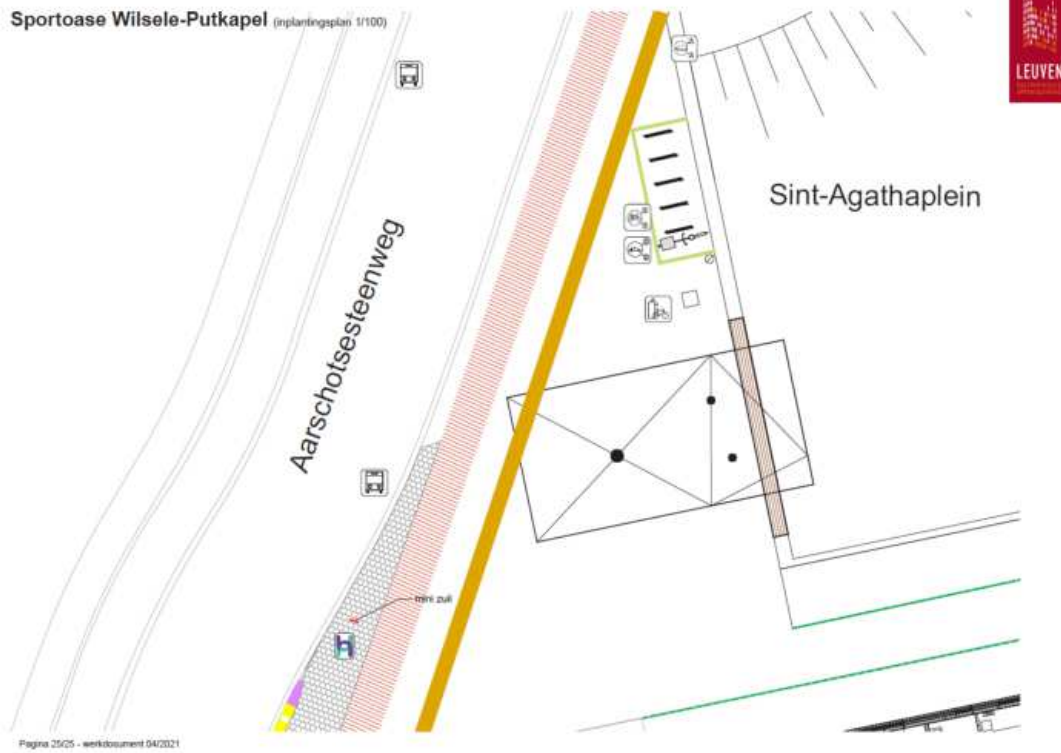


Figure 192: June 2021 – Site plan information pillar of eHUB Sportoase Wilssele-Putkapel, implemented since June 2021

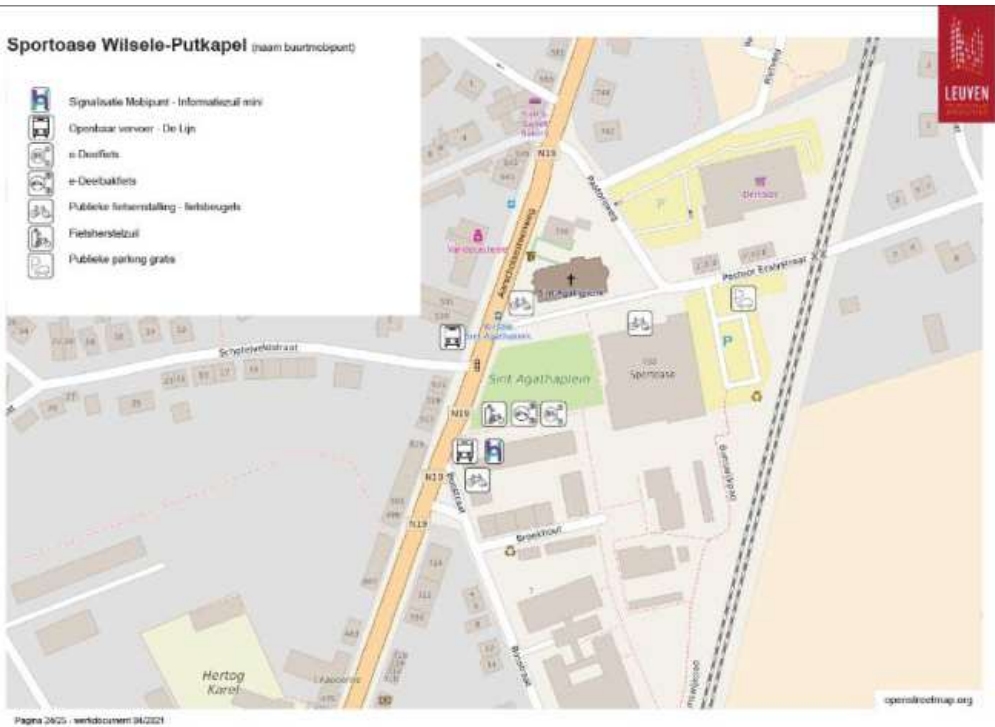


Figure 193: June 2021 – Signage plan of eHUB Sportoase Wilssele-Putkapel, implemented since June 2021

3.4.12.3 Realizations



Figure 194: June 2021 – Small information pillar of eHUB Sportoase Wilsele-Putkapel



Figure 195: June 2021 – Shared bike infrastructure and signage at eHUB Sportoase Wilsele-Putkapel



Figure 196 July 2021 – e cargo-bike at eHUB Sportoase Wilsele-Putkapel



Figure 197 November 2021 – Shared car at eHub Sportoase Wilsele-Putkapel



Figure 198 Charging infrastructure for public EV at eHub Sportoase Wilsele-Putkapel

3.4.13 Tiensepoort

3.4.13.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	5 (Cambio)	1 (Cambio)	/	/	/	/	Yes	2 (Allego)

Table 43: December 2021 – The available services at eHUB Tiensepoort

3.4.13.2 Plans



Figure 199: June 2021 – Site plan information pillar of eHUB Tieneseport, implemented since June 2021

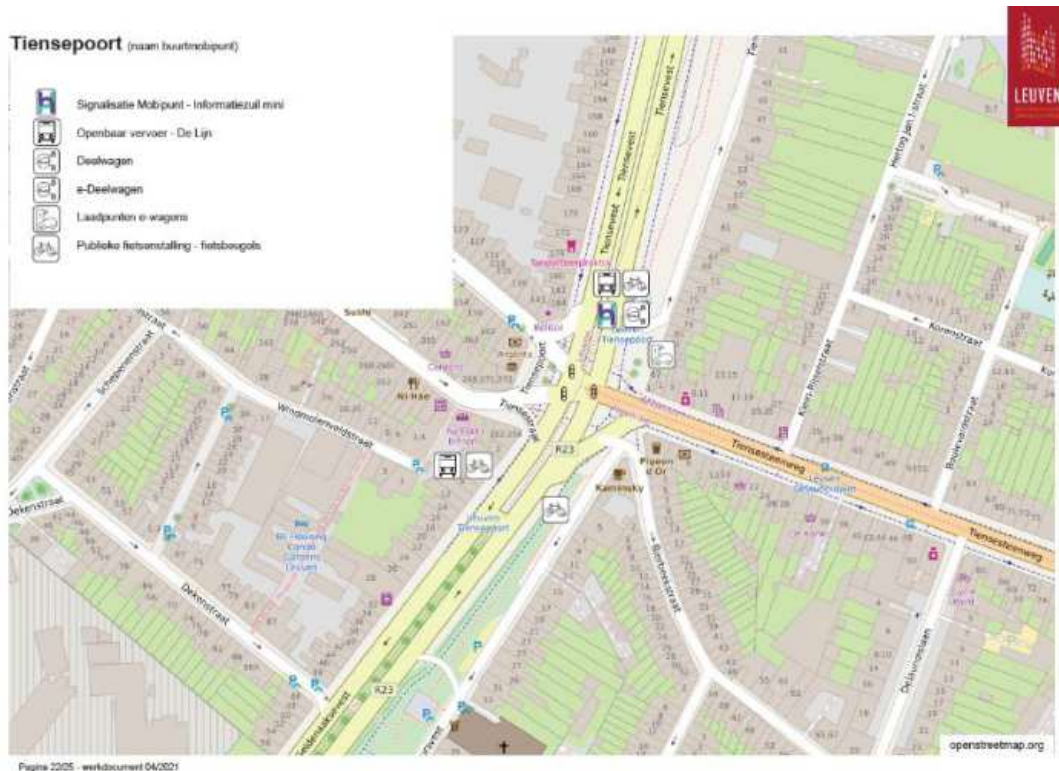


Figure 200: June 2021 – Signage plan of eHUB Tieneseport, implemented since June 2021

3.4.13.3 Realizations



Figure 201: June 2021 – Small information pillar of eHUB Tiensepoort



Figure 202: June 2021 – Shared cars signage at eHUB Tiensepoort

3.4.14 Vaartkom

In this phase bicycle brackets have already been installed, however, the pillar and signage will be applied in August at earliest. A Cargo E-bike is provided for this eHub in July 2021. There are no shared e-cars available. Installation of the information pillar was finished by December 202. There were also posters

per floor about the different modes of shared mobility present on different floors. Floor stickers were also placed on the car parks of the shared cars.

3.4.14.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Yes Bus (De Lijn) + Centre shuttle	2 (Cambio)	/ (Cambio)	0	0	0	Yes	Yes	/ (Allego)

Table 18: December 2021 – The available services at eHUB Vaartkom Leuven

3.4.14.2 Plans

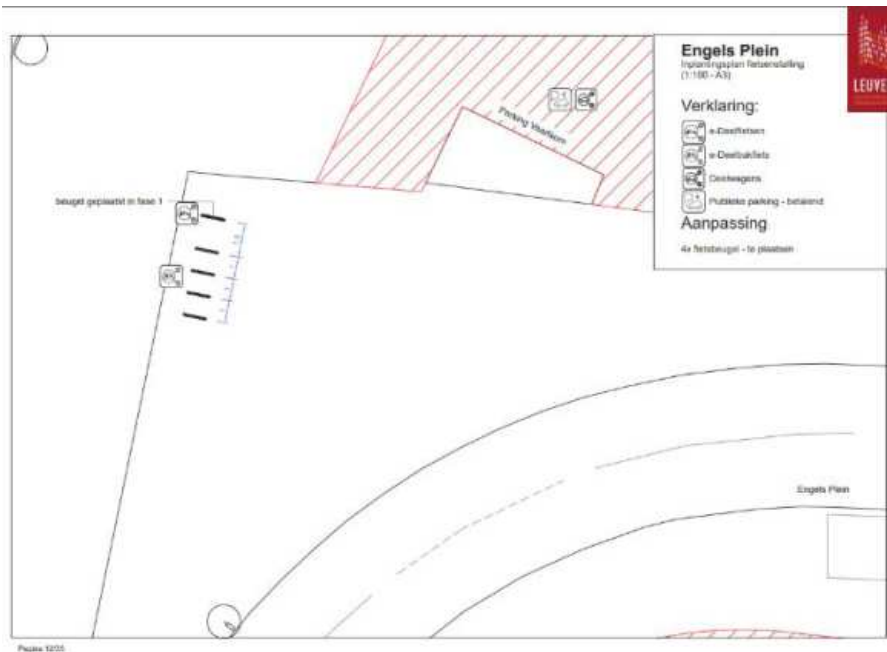


Figure 203 Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Vaartkom, implemented in March 2021, complementation of signage and bikes foreseen in August-September 2021

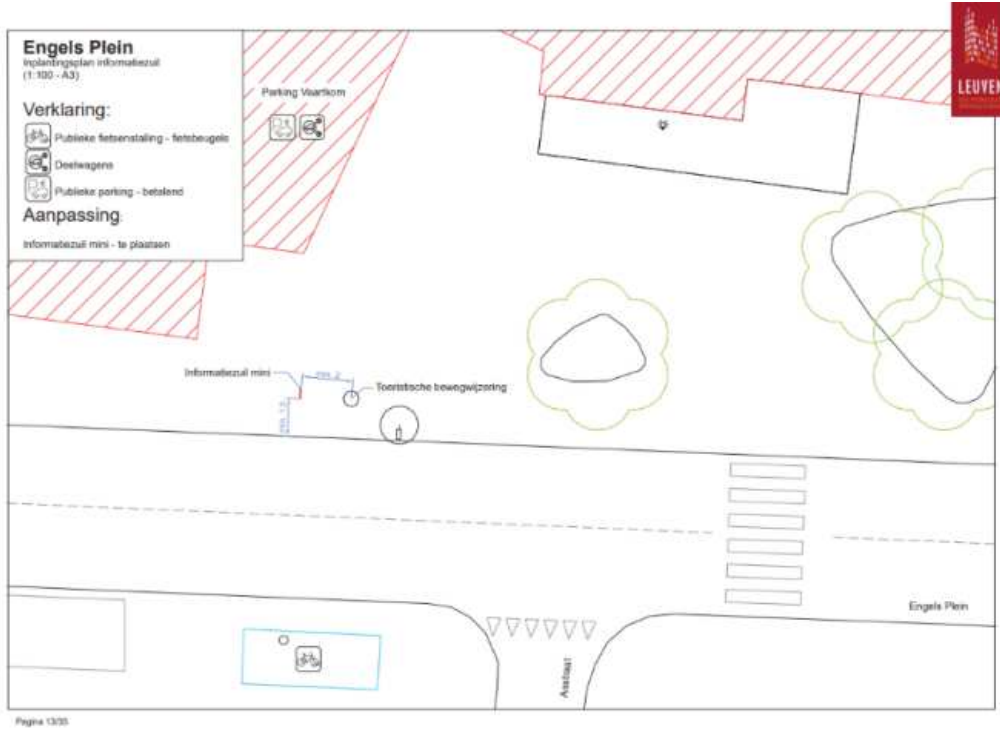


Figure 204 Site plan for information pillar and shared e-bikes and e-cargo-bike stations at eHUB Vaartkom, to be implemented in August 2021



Figure 205 March 2021 - Signage plan for eHUB Vaartkom, to be implemented in August-September 2021

3.4.14.3 Realizations



Figure 206 October 2021 – Cargo E-bike and signage at eHUB Vaartkom



Figure 207 December 2021 – Small information pillar of eHUB Vaartkom with poster survey shared mobility



Figure 208 October 2021 – Posters in Parking Vaartkom information of the mobility services per floor, inside or outside the building at eHub Vaartkom



Figure 209 November 2021 – Package hub at eHub Vaartkom

3.4.15 Researchpark Haasrode II

3.4.15.1 Services

The following table shows the available services:

Information pillar	Public transport	Shared Cars	Shared e-cars	Shared bikes	Shared e-bikes	Shared e-cargo-bikes	Public car parking	Public bike parking	Charging infrastructure for public EV
Small	Bus (De Lijn)	/ (Cambio)	/ (Cambio)	0	5	0	/	Yes	/ (Allego)

Table 18: December 2021 – The available services at eHUB Researchpark Haasrode II Heverlee

3.4.15.2 Plans

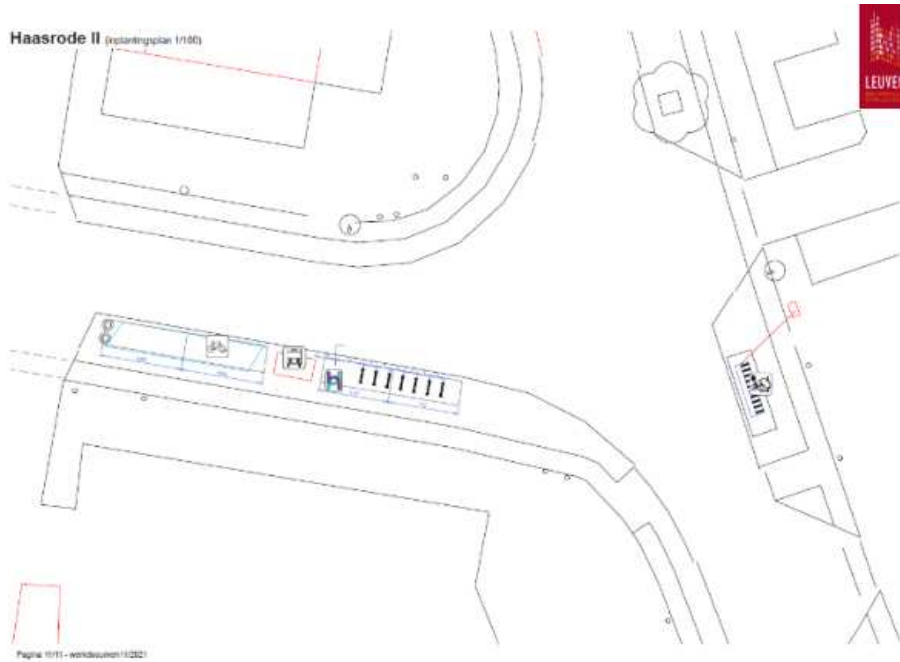


Figure 210 December 2021 – Site plan for information pillar and shared e-bikes with charging infrastructure at eHUB Haasrode II



Figure 211 December 2021 - Signage plan for eHUB Haasrode II



Figure 212 December 2021 – Small information pillar and signage at eHUB Haasrode II



Figure 213 December 2021 – Charging infrastructure and shared e-bikes at eHUB Haasrode II

Unfortunately, the Urbees cannot be charged on site yet because the newly installed counter still needs to be inspected and the connection to the dockings still needs to be made.

3.5 Phase 5: May 2022

3.5.1 Update eHubs

3.5.1.1 Wijgmaal Station

The digital medium pillar of eHub Wijgmaal Station was connected to the electricity network in March 2022. There were technical problems with the rotation of the screen for a few weeks but these problems were finally solved. The signage at the shared e-cargobike was also installed. A package distributor was earlier installed at the eHub.



Figure 214 March 2022 – Completion signage at eHub Wijgmaal station



Figure 215 March 2022 – Connection of the digital pillar to the electricity network

3.5.2 Nudging pilot campaign short term

For the creation of a long-term nudging plan, short-term actions are carried out to guide and support the long-term nudging plan through scientific research. It concerns (limited) concrete interventions, on the one hand a flyer campaign and on the other hand the alternative decoration of a mobipoint.

3.5.2.1 Flyer campaign

3.5.2.1.1 Flyer campaign “supermarket”



Figure 216 Example from one of four different flyers (same lay out, different message = research related) used for distribution at supermarkets



Figure 217 May 2022 – Flyer campaign at supermarket

3.5.2.1.2 Flyer campaign “kids”



Figure 218 Distribution flyers.

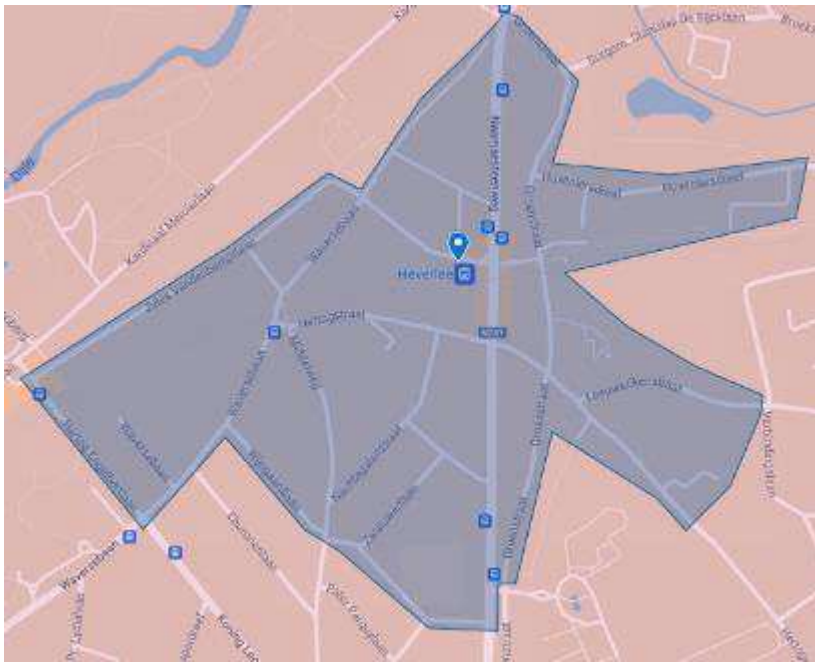


Figure 219 Example of distribution zone flyers in mailboxes near eHub Heverlee station

3.5.2.2 Mobipoint 2.0



Figure 220 May 2022 – Installation of the alternative decoration of Ehub Park De Bruul

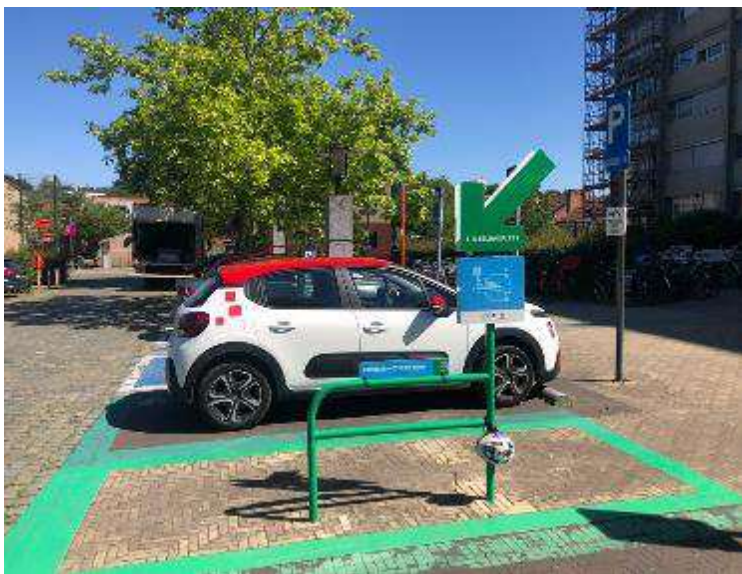


Figure 221 May 2022 – Alternative decoration of eHub Park De Bruul



Figure 222 May 2022 – Ground stickers in the neighbourhood of eHub Park De Bruul

3.5.3 Chalk campaign

To promote eHubs, signposts are applied to public roads. The signposts are applied with chalk paint, which washes away after a few rains. The dimensions of the signposts are approximately 30x30 cm. The campaign will be implemented at several eHubs.



Figure 223 June 2022 – Chalk Campaign, signposts at elementary school in the neighbourhood of eHub Bovenlo



Figure 224 June 2022 – Signposts in the neighbourhood of eHub Sportoase Wilsele



Figure 225 June 2022 – Signposts in the neighborhood of eHub Sportoase Wilsele

3.5.4 Update shared e-vehicles per eHub

N°	ID	EV	E-bikes	E-cargo-bikes
1	Bibliotheek Heverlee	1	0	0
2	De Becker-Remyplein	1	0	1
3	De Bib Leuven - Sporthal Rijschool	0	0	1
4	Gemeenteplein	0	0	1
5	Naamsepoort	3	0	0
6	Parkpoort	1	0	1
7	Philipssite	0	0	0
8	Rector De Somerplein	0	7	1
9	Sint-Maartensdal	1	0	1
10	Station Heverlee	0	7	1
11	Vaartstraat	1	0	1
12	Victor Broosplein	0	0	1
13	Wilsele dorp	1	0	1
14	Egenhoven centrum	0	0	1
15	Gasthuisberg	0	6	0
16	Researchpark Haasrode I	0	6	0
17	Station Leuven	0	14	0
18	Tervuursepoort	2	0	0
19	Bottelarij	1	0	1
20	Boven-Lo	0	0	1
21	Centrale werkplaatsen	2	0	1
22	De Bron	0	0	1

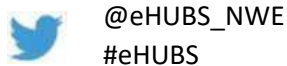
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23	Matadibuurt	0	0	1
24	Park De Bruul	1	0	1
25	Refugehof	0	0	1
26	Spaanse Kroon	0	0	1
27	Station Wijnmaal	0	0	1
28	Bodartparking	1	0	0
29	Boudewijnstadion	1	0	0
30	Constantin Meunierstraat	1	0	1
31	Kaboutermansstraat	0	0	1
32	Korfbalclub	1	0	1
33	Kruidtuin	1	0	0
34	Michotte	0	0	1
35	OCMW Leuven	0	0	1
36	Quinten Metsysplein	0	0	1
37	Redingenstraat	0	0	1
38	Sint-Jacobsplein	1	0	1
39	Sportoase Wilsele- Putkapel	0	0	1
40	Tiensepoort	1	0	0
41	Parking Vaartkom	0	0	1
	TOTAL	22	40	30

Table 44: June 2022 - The eHUBs and their vehicles in Leuven - Overview

4 The eHUBS Consortium

The consortium of eHUBS consists of 15 partners with multidisciplinary and complementary competencies. This includes European cities, leading universities, networks and electric and shared mobility providers.



For further information please visit <http://www.nweurope.eu/ehubs>



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