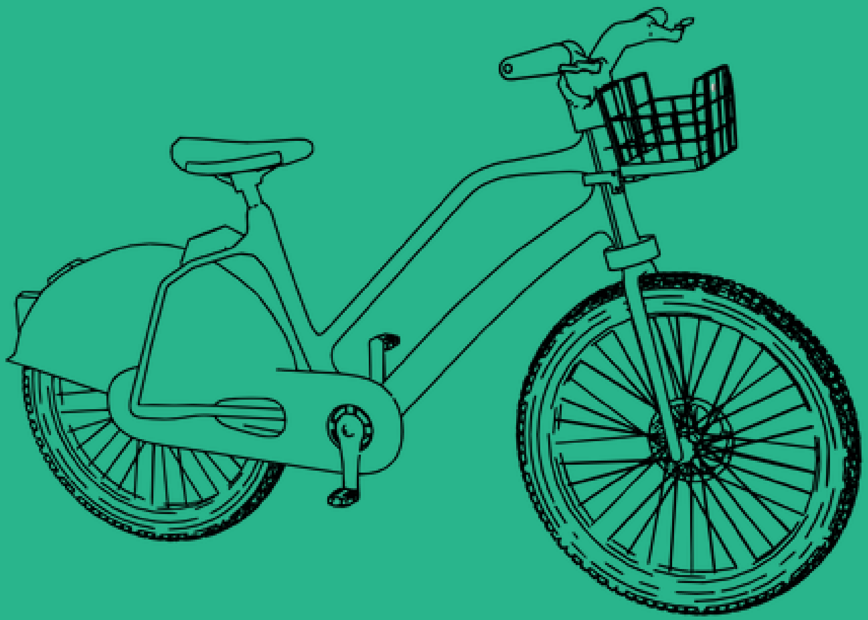
MEHUB: INTEGRATING A CONNECTED MICROMOBILITY INFRASTRUCTURE TO THE EXISTING PUBLIC TRANSPORT

AIM

The MeHUB initiative proposes to consolidate electric-powered shared micromobility vehicles (e-scooters and e-bikes) into hubs for effective management. Determining the locations of these e-hubs and the necessary charging infrastructure is critical for meeting the demands of commuters.



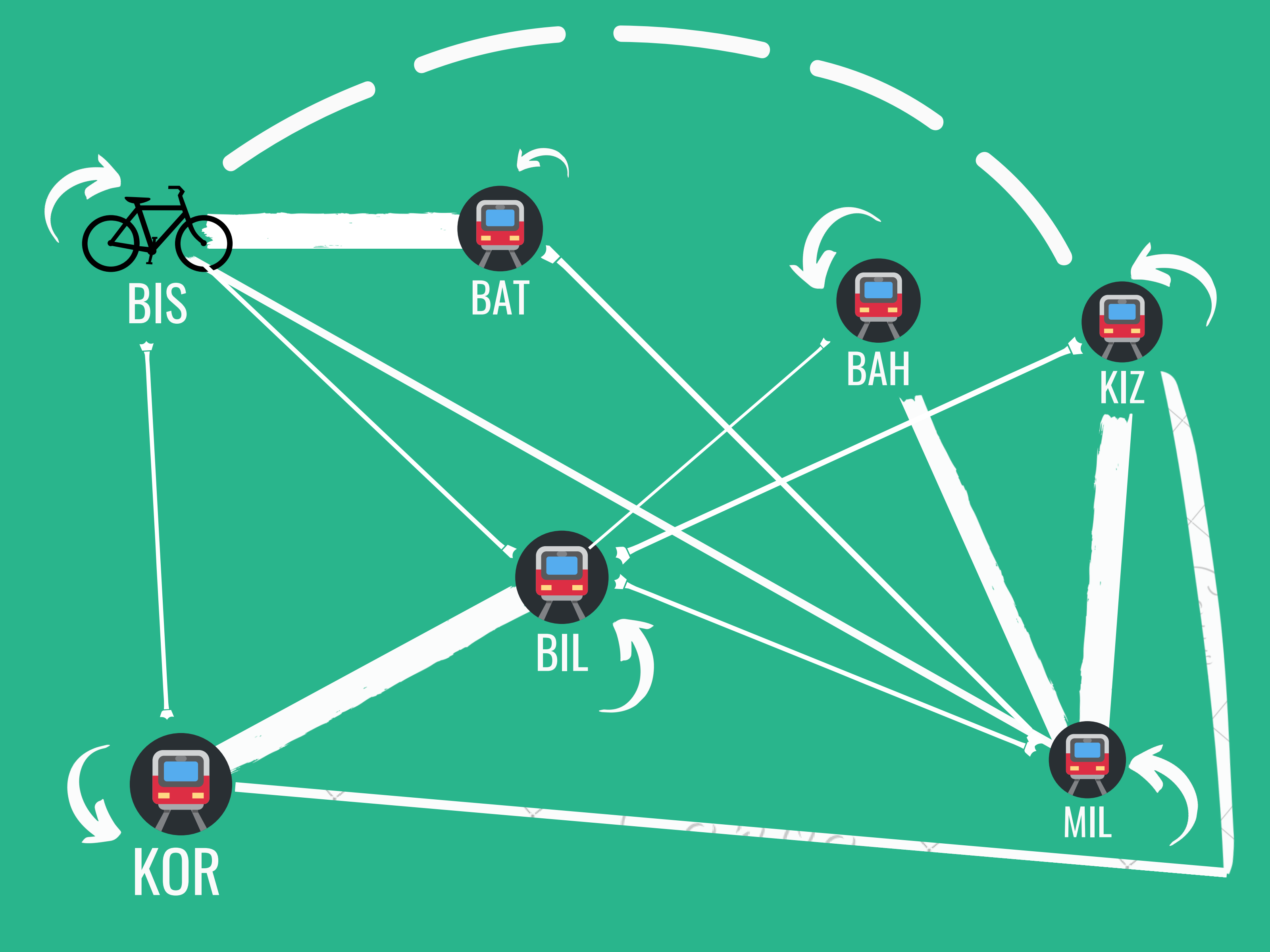
E-Hub Location Chart

e-hub location	Abbr.	No. of Chargers
Bahçelievler Metro Station	BAH	12
Batıkent Metro Station	BAT	8
Bilkent Metro Station	BIL	14
Bicycle Campus	BIS	2
Kızılay Metro Station	KIZ	8
Koru Metro Station	KOR	8
National Library Metro Station	MIL	8

Number of Rides

Excluding trips <1 min

From	BAH	BAT	BIL	BIS	KIZ	KOR	MIL	Total	Unidentified Attempts
BAH	19			1	2		10	32	61
BAT		20		4			1	25	8
BIL	2		14	1	3	4	1	25	20
BIS		5		23	3	2	2	35	-
KIZ	3		1	3	32	2	7	48	114
KOR			7	1	1	17		26	24
MIL	8		2	3	10		16	39	44
Total	32	25	24	36	51	25	37	230	271


BIS
BAT
BAH
KIZ
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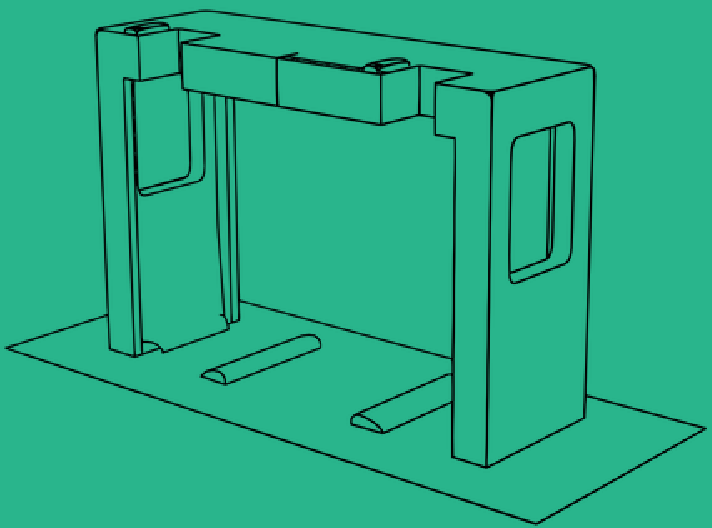
CONCLUSIONS



The location choices are supported by the data gathered. The implementation of e-hubs near metro stations and at Bicycle Campus gave users and residents visibility, and encouraged the use of e-bikes as a substitute for public transportation and the metro transport.

On the other side, the sizing choices, i.e. figuring out how many charging units are located at each location, may be altered to improve the utilization of the bike sharing system.

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