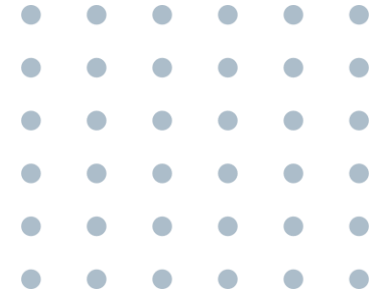




KTI
Alapítva - Since 1938

Hungarian
Institute for Transport
Sciences and Logistics



eWorkshop on Expanding E-Mobility at the Regional Level

10 April, 9:30 – 13:00 CET, Zoom

Cross-border e-buses and shared e-bikes between Hungary and Slovakia

KTI Hungarian Institute for Transport Sciences & Logistics

Interreg Europe CROSUSMOB project – Good practice

Vilmos Oszter

Senior researcher, project manager

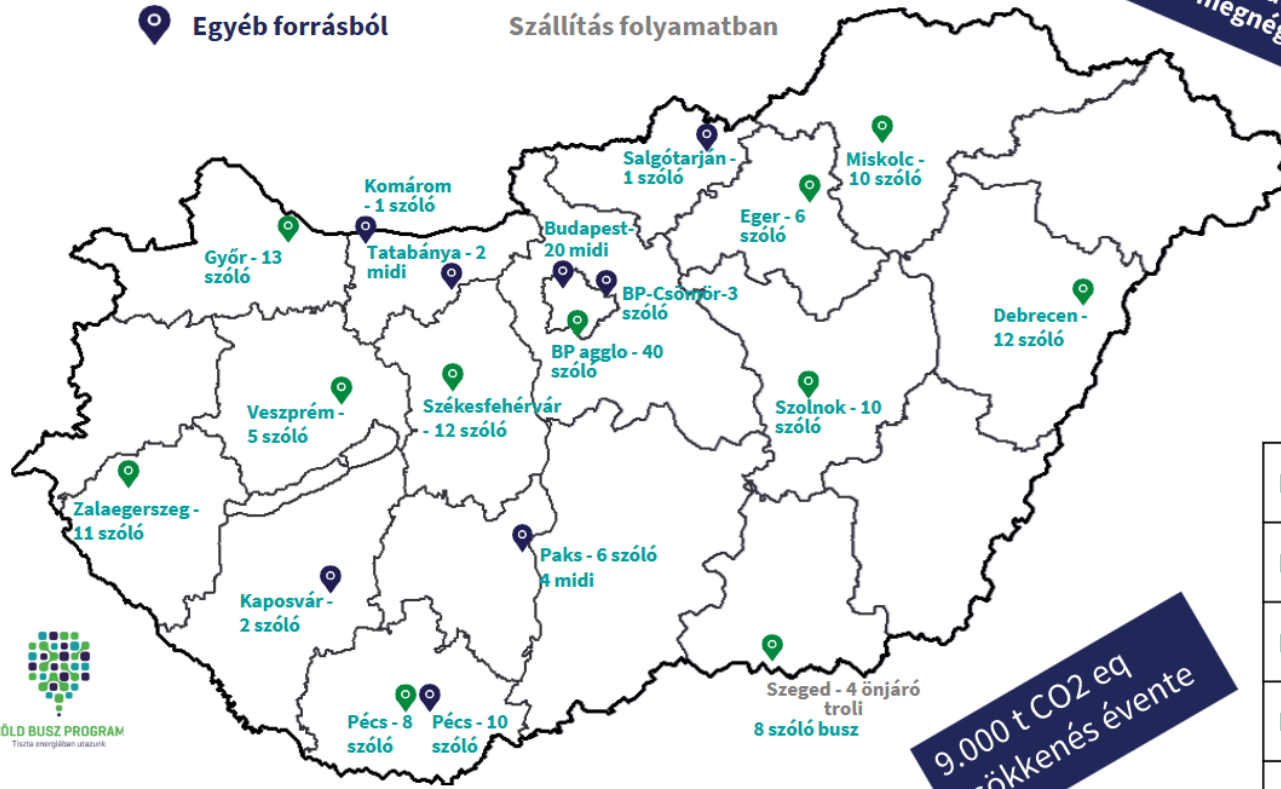


- Interreg Europe's CROSUSMOB project aims to foster regional cross-border public transport by improving policy instruments
- 7 partners, 6 member states, 36 month (+12 month monitoring)
- Start date 04/2024
- Regional sensibility diagnosis on the following aspects influencing cross-border mobility:
 - **cross-border mobility barriers sensibility:** The aim of this first diagnosis is to analyze persistent legal-administrative and technical/technological cross-border mobility barriers based on the ongoing work from the European Commission on the EU b-solutions initiative with several projects on CB transports
 - **environmental sustainability' sensibility** That will focus on the identification of the level of contribution of cross-border sustainable transportation to improving environmental sustainability processes in the analysed region
 - **cross-border mobility permeability sensibility** as way to understand how current several boundaries, like mobility patterns increase the cross-border mobility barriers
 - **socio-political context**, that consists of how current Cross border mobility project are accepted, or not by the stakeholders involved in the territory
 - *Exchange of good practices:*
 - Field visits
 - **Good practices** and case studies
 - Peer review
 - Thematic workshops
 - + Local stakeholder groups









Zéró emissziós buszok Magyarországon

- 📍 ZBP forrásból
- 📍 Egyéb forrásból
- 📍 Leszállított járművek
- 📍 Szállítás folyamatban



A ZBP által támogatott járművek átadásával az elektromos autóbuszállomány közel megkétszereződik

By manufacturer ny rint
(pieces)

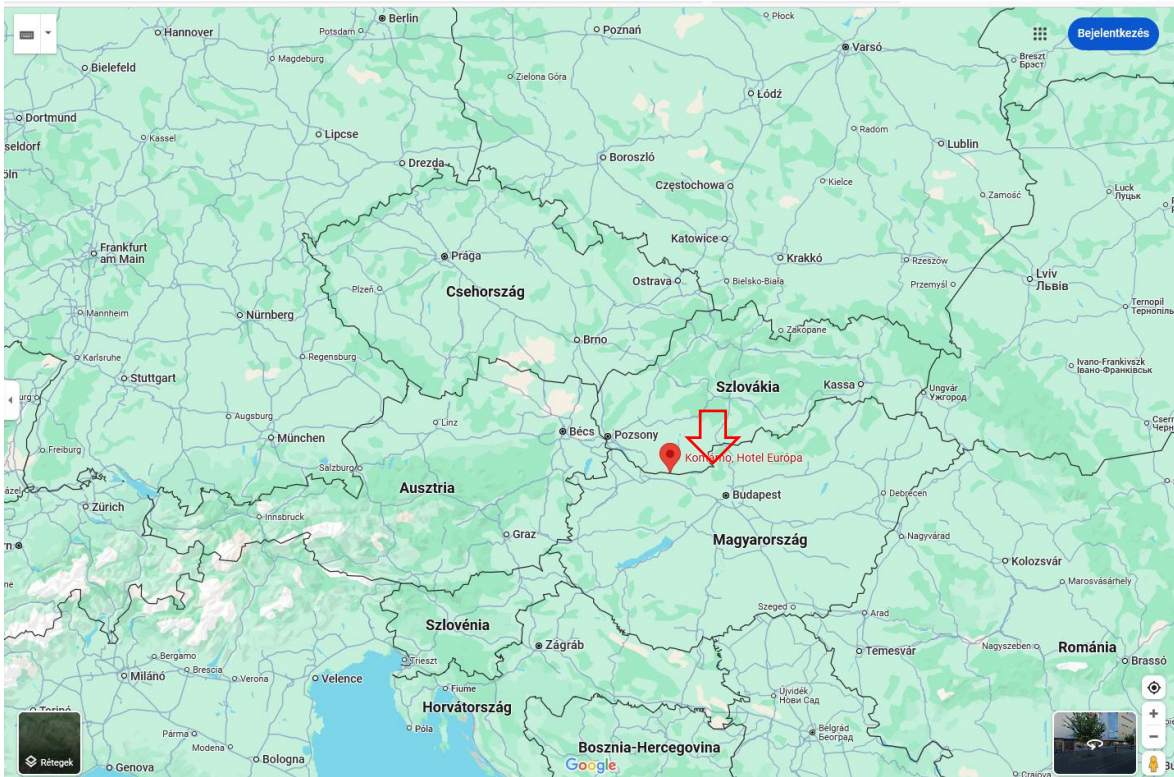
 BYD	72 db
 IKARUS	17 db
 MAN	5 db
 Mercedes	60 db
 MODULE	20 db
 SOLARIS	10 db

E-buszállomány 2021-ig	37 db
E-buszok átadása 2021-ben	10 db
E-buszok átadása 2022-ben	81 db
E-buszok átadása 2023-ban	56 db
Teljes e-buszállomány	184 db

9.000 t CO2 eq csökkenés évente



Case study area - Komárom (Hungary pop. - 20k) Komárno (Slovakia - pop. 32k)





- Acronym: Kn-Kn ImproTrans
- Call IDSKHU/1601
- Priority Axis: Enhancing cross-border mobility
- Specific objective: 2.2.1 Improving cross-border public transport services **between Komárno (SK) and Komárom (HU)**
- Registration No.: SKHU/1601/2.2.1/359
- Total Project budget: 999,766.71 €
- Total ERDF awarded: 849,801.70 €
- Project start date: 01 October 2018
- Project end date: 31 May 2022
- Bus procurement contract signed: 13th November 2020
- First revenue service 15th June 2021
- 1 new zero emission battery powered e-bus
- 2 bidders, second run successful
- Type: BYD K9UB (Chinese - manufactured in local factory)
- Range: 300 km, 3,5 hours charging time, route ca. 5 km, flat terrain
- Seats: 36, (+40 standing place)
- Low-entry, wheelchair accessible
- Bus price: 153.500k HUF (ca. 410k EUR)
- Charging infrastructure: 1
- Bus stop renovations and 20 smart panels



- Daily 7 weekend and 11 workday services
- Fare 1 EUR (adults) – since 15/12/2024
- 0.50 EUR (14-25 years old)
- Free -14 and 65+
- Monthly pass: 18/9 EUR
- Operator: MÁV Passenger Service (Hu)
- PSO service in Hungary, no domestic (local) travel option in the 3 stops in Slovakia (even with free local PT)
- Alternative taxi ca. 3.5-4 EUR
- It connects the important rail and bus stations and major points of interests



228 Komárom ◀▶ Komárno



Menetrend / Cestovny poriadok:

Érvényes: 2024. december 15-től
Platí od: 15. decembra 2024

228 Komárom ▶ Komárno [Révkomárom]

Megállóhelyek / Zastávky:	Indulási időpontok / Odchody:										
	M					M					M
Komárom, Autóbusz-állomás	4:40	6:20	7:15	9:15	12:00	12:45	14:20	15:55	17:55	20:45	22:20
Komárom, Szabadság tér							14:22	15:57	17:57		
Komárom, Fürdő							14:25	16:00	18:00		
Komárom, Tesco áruház	4:42	6:22	7:17	9:17	12:02	12:47	14:28	16:03	18:03	20:47	22:22
Komárom, Vasútállomás	4:45	6:25	7:20	9:20	12:05	12:50	14:31	16:06	18:06	20:50	22:25
Komárno, Hotel Európa	4:50	6:30	7:25	9:25	12:10	12:55	14:36	16:11	18:11	20:55	22:30
Komárno, Nemocnica - Kórház	4:53	6:33	7:28	9:28	12:13	12:58	14:39	16:14	18:14	20:58	22:33
Komárno, Autobusová stanica - Autóbusz-pályaudvar	4:55	6:35	7:30	9:30	12:15	13:00	14:41	16:16	18:16	21:00	22:35

228 Komárno [Révkomárom] ▶ Komárom

Megállóhelyek / Zastávky:	Indulási időpontok / Odchody:										
	M					M					M
Komárno, Autobusová stanica - Autóbusz-pályaudvar	4:55	6:35	7:35	9:35	12:20	13:00	14:45	16:20	18:20	21:00	22:40
Komárno, Nemocnica - Kórház	4:57	6:37	7:37	9:37	12:22	13:02	14:47	16:22	18:22	21:02	22:42
Komárno, Hotel Európa	5:00	6:40	7:40	9:40	12:25	13:05	14:50	16:25	18:25	21:05	22:45
Komárom, Vasútállomás	5:05	6:45	7:45	9:45	12:30	13:10	14:55	16:30	18:30	21:10	22:50
Komárom, Tesco áruház	5:08	6:48	7:48	9:48	12:33	13:13	14:58	16:33	18:33	21:13	22:53
Komárom, Fürdő			7:51	9:51	12:36						
Komárom, Szabadság tér			7:54	9:54	12:39						
Komárom, Autóbusz-állomás	5:10	6:50	7:56	9:56	12:41	13:15	15:00	16:35	18:35	21:15	22:55



Az „M”-el jelölt indulásoknál feltüntetett járatok csak munkanapokon közlekednek.
Odchody s "M" sú len v pracovné dni.



Route scheme with stops



utas.hu BETA Search for lines, stops and addresses

16:29  

Trip Planner

local timetable.

228

28/03/2025

Hour	Minute	(hide earlier departures)
All departure time provided before are for informational purposes only!		
4	55	
5		
6	35	
7	35	
8		
9	35	
:		
12	20	
13	00	
14	45	
15		
16	20	
17		
18	20	
:		
21	00	
22	40	

Scheduled timetable

Stops

Vehicles

Malá Iža

Komárno

Alzabetin ostrov

Gyár Utca

Sport Utca

Arany János Utca

Csillag lakótelep

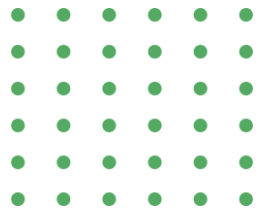
Új Csillag lakótelep

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Inaugural ride over the new bridge (opened in 2020)





- Acronym: Mária Valéria Bike
- Call: IDSKHU/1601
- Priority Axis: Enhancing cross-border mobility
- Specific objective: 2.2.1 Improving cross-border public transport services
- Registration No.: SKHU/1601/2.2.1/127
- Total Project budget: 921,155.00 €
- Total ERDF awarded: 782,981.75 €
- Project start date: 01 November 2017
- Project end date: 31 March 2020
- Website: <https://mariavaleriabike.eu/>
- Two municipalities (*Štúrovo/Párkány in Slovakia pop. Ca. 9.8k, Esztergom in Hungary pop. ca. 28k*)
- 6+8=14 bicycle storage stations
- 60 conventional and 45 electric bicycles
- Mostly flat terrain with smaller hills in Esztergom, Hungary
- T-Systems Hungary Zrt. with its subcontractor Neuzer Kft. executed the bike sharing system
- Suzuki (Japanese car manufacturer with plant in Esztergom) co-finances the operational losses

Local people and tourist usage as well



Temporary User (incl. 6 other cities) Deposit 15/30 EUR or Regular (pass-holder) user



Price of passes and card		
	EURO	HUF
Annual pass	20	6500
Six-month pass	12	4000
MOnthly pass	2,5	850
A Mária Valéria Bike card	2	600

Ticket price		
	EURO	HUF
24 hours ticket	1,3	400
72 hours ticket	3	1.000
Weekly ticket	5	1.500

Rental Price		
	EURO	HUF
Normal bike		
First half hour free		
every half hour begun	0,5	200
E-Bike		
every half hour begun	0,5	200



- E-bus is for this range in urban (twin city) traffic works well
- Only 1 bus sometimes needs replacement due to planned maintenance
- Legal easing on EU scale would be helpful to pick-up passenger in the urban/regional cross-border traffic (cabotage rules)
- Shared bike usage depends on the weather with seasonal fluctuations due to tourism
- E-bikes widen the potential user's circle
- Operational financial support need is beyond the municipalities contribution and powerful long-term sponsorship must be secured



Interreg
Europe



Co-funded by
the European Union

CROSUSMOB



THANK YOU FOR YOUR ATTENTION!

Vilmos Oszter
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