



European Union
European Regional
Development Fund

Experiences and further plans in mobility development in Miskolc

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08 March, 2017 | 1st ITW in Karlskrona

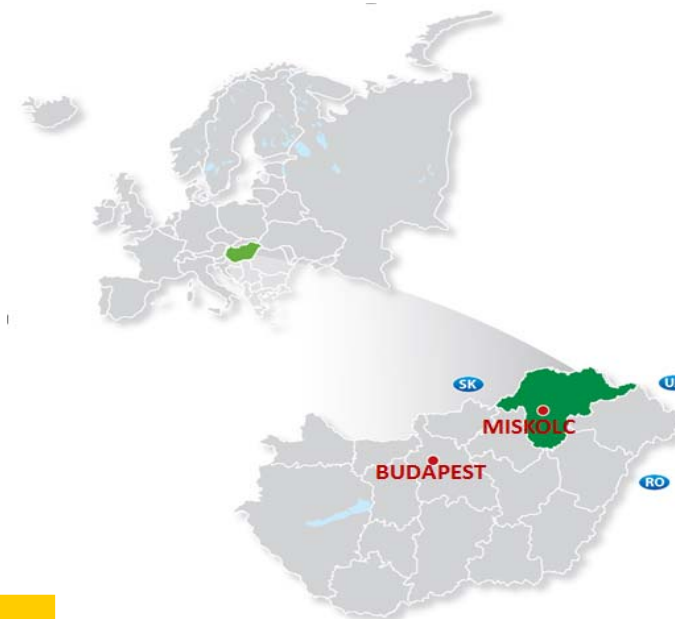
Miskolc in a nutshell



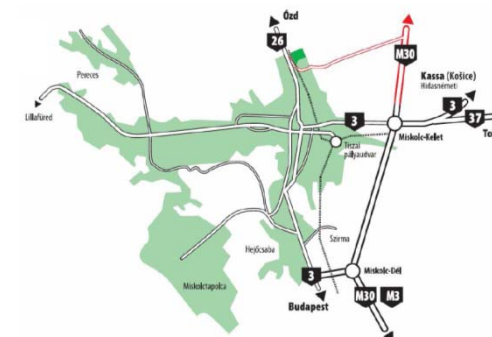
Miskolc in a nutshell

Overview

- The administrative, economic, scientific, intellectual and cultural centre of the region
- Hungary's fourth largest city (160k inhabitants)
- App. 360,000 residents within the agglomeration
- Very long history in steel and machinery industry dating
- The University of Miskolc is the educational and research centre of the region
- The city currently is a hotspot for industrial and commercial investments
- Pilot city in Modern Cities Programme (national)
- Notable city development in the past 3-5 years



	Miskolc	Borsod-Abaúj-Zemplén County	North Hungarian Region	Hungary
Area	~ 236,7 km ²	7,247 km ²	13,428 km ²	93,036 km ²
Population	~160,000 persons	668,000 persons	1 165,000 persons	9 849,000 persons
Unemployment rate	7 %	8.5 %	10.8%	6.4%
Average monthly gross wages		188,468 HUF 598 EUR		242,975 HUF 771 EUR

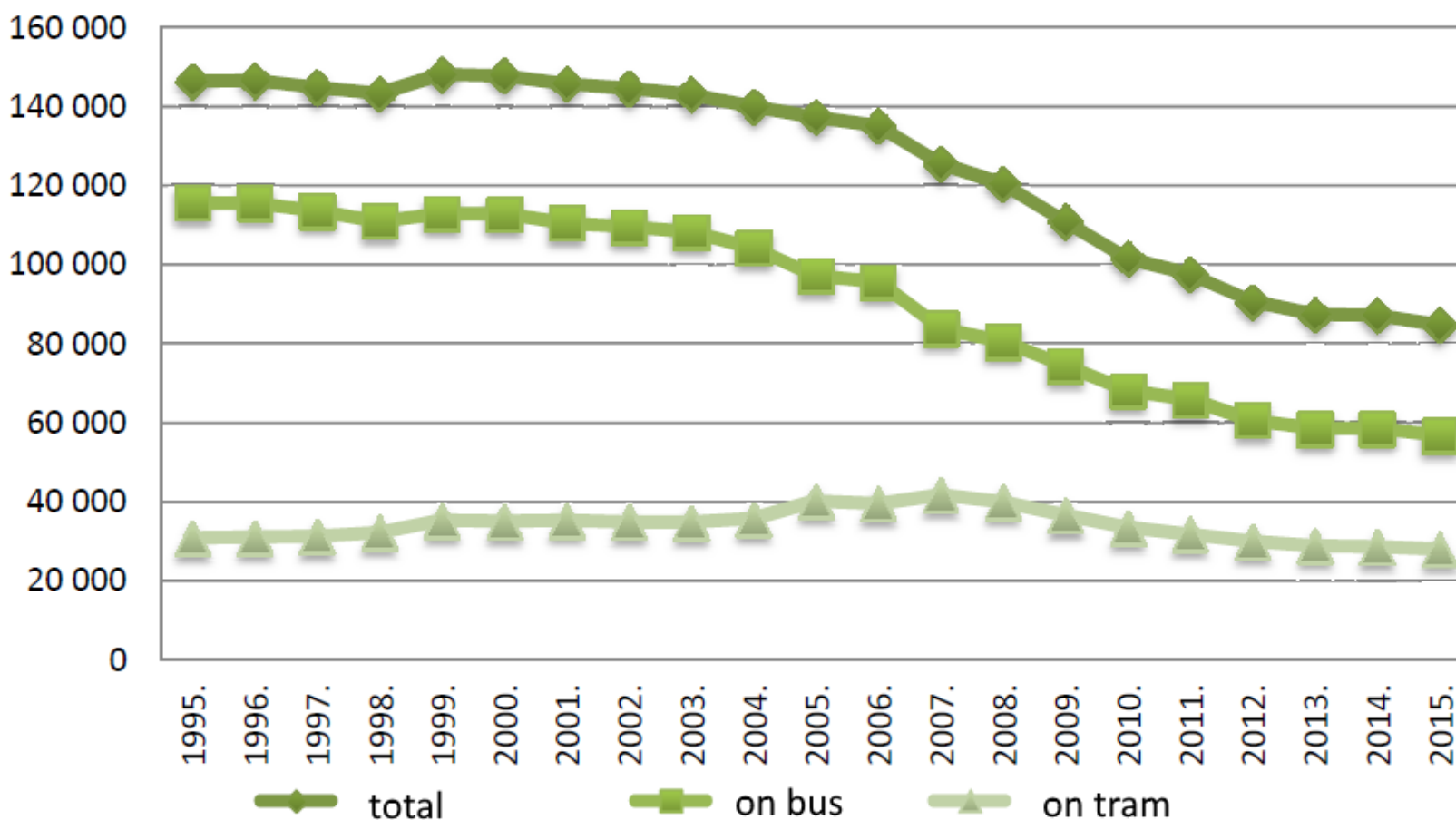


The Green Arrow project

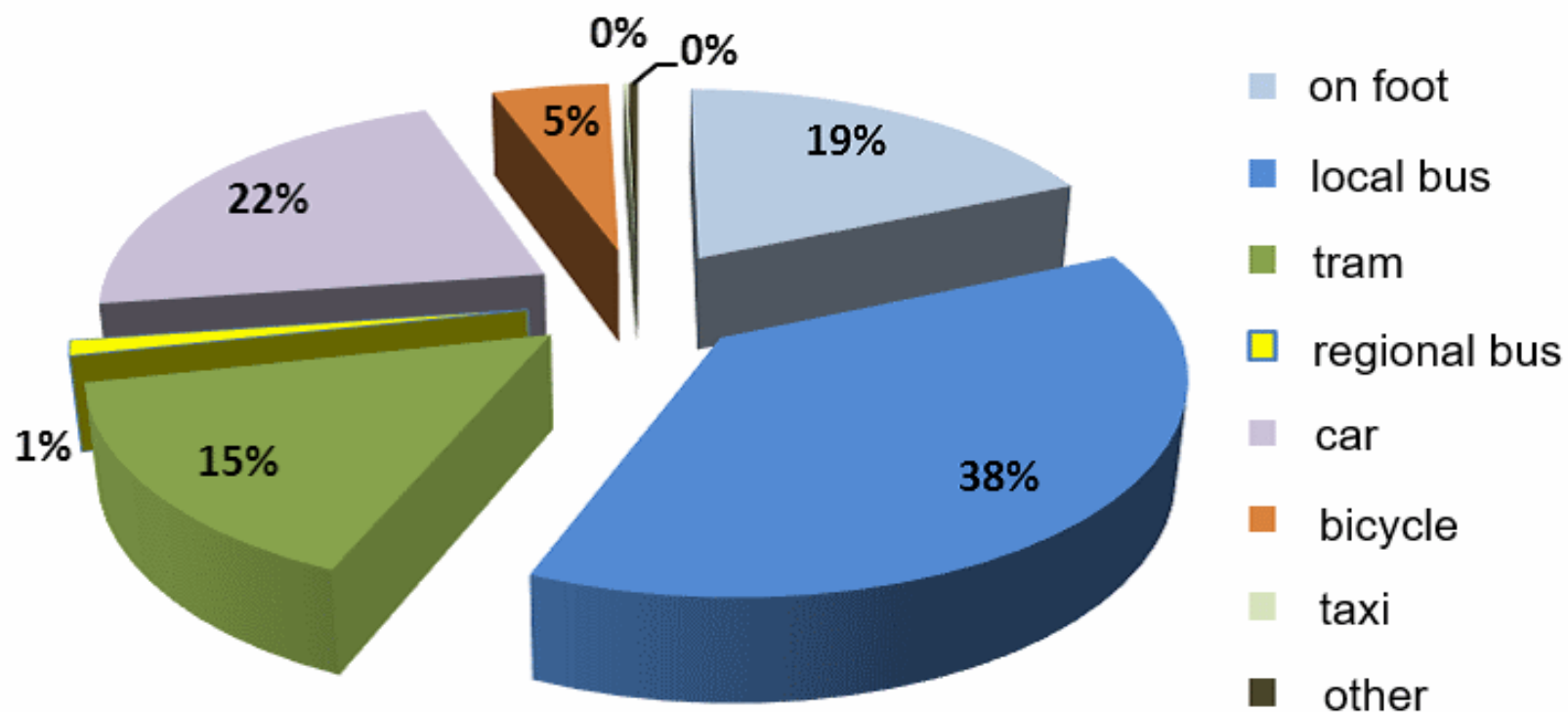


The Green Arrow project

Number of passengers on buses and trams operated by MVK Zrt. (thousand)



The Green Arrow project

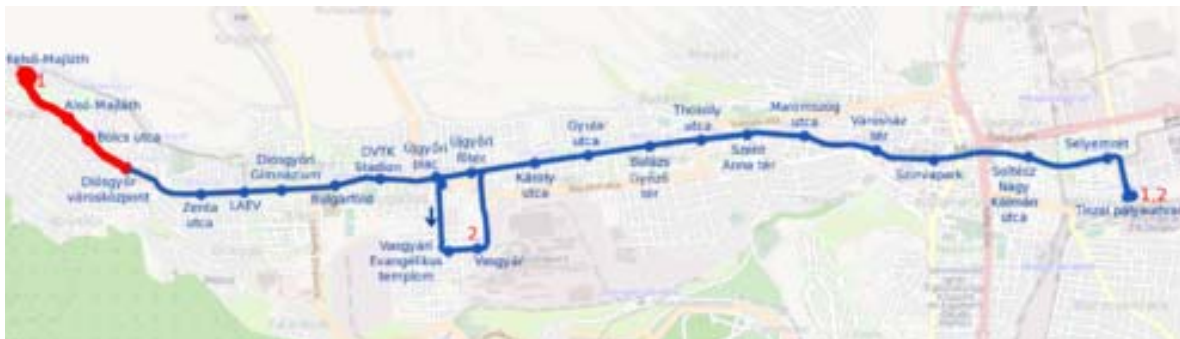


Distribution of mobility modes in urban transportation (June 2015)

The Green Arrow project

Challenges to address

- Decreasing share of PT in modal split
- Air and noise pollution
- Unattractive vehicles, lack of comfort
- Outdated rail infrastructure
- Long duration of trips
- Low satisfaction rate of passengers
- Congestions along the tram line
- Security issues
- Uncovered residential areas in the end-western district



The Green Arrow project

Main elements

- Renovation and extension of tramline
- New, accessible tram stops
- 31 new trams
- Real-Time passenger information
- On-board Wi-Fi
- Citizen engagement activities

Main Stakeholders

- Municipality of Miskolc City of County Rank
- MVK Zrt. (municipal provider of public transportation services)
- Miskolc Holding Zrt.

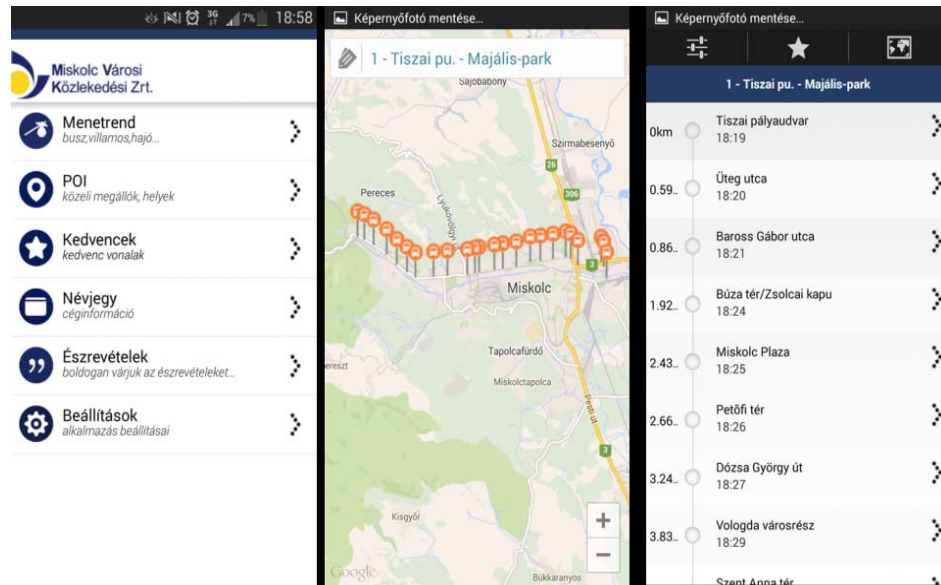
Budget

- 120 M EUR (own contribution 10%)

Duration

- 9 years (from planning) / 3 years (implementation)

The Green Arrow project



The Green Arrow project

Miskolc Városi Közlekedési Zrt.

Általános keresés

Vonalak:

- ZOO - Felső-majlath-vadáspark
- ZOO - Vadáspark-Felső-Majlath
- 1 - Majális-park-Tiszai pályaudvar
- 1 - Tiszai pu. - Majális-park
- 1 - Tiszai pu. - Majális-park (Szondi u.)
- 1A - Diósgyőri Gimnázium-Tiszai pályaudvar
- 1A - Felső-Majlath - Tiszai pu.
- 1A - Tiszai pályaudvar-Diósgyőri Gimnázium

Megállók:

Címek: Miskolc

Megállók	Menetidő	Óra	Perc
M Majális-park	0	08 25	
M Papírgár	0	04 08,20,40	
M Hóvirág utca	2	05 00,15,30,45	
M Felső-Majlath	3	07 04,15,30,45	
M Alsó-Majlath	4	08 00,15,30,45	
M Diósgyőr városközpont	6	09 04,24,44	
M Tánács tér	7	10 04,24,44	
M LÁEV VP	8	11 04,24,44	
M Diósgyőri Gimnázium	9	12 04,24,44	
M Bulgárföld városrész	10	13 04,24,44	
M Újgyőri piac	12	14 04,24,44	
M Újgyőri főter	13	15 00,15,30,45	
M Avar utca	13	16 00,15,30,45	
M Órs utca	15	17 04,24,44	
M Zoltán utca	16	18 04,24,44	
M Aha utca	17	19 04,24,44	
M Aha utca	20	04,24,44	



The Green Arrow project



The Green Arrow project



The Green Arrow project



The Green Arrow project



The Green Arrow project

Main results

- Modernized rail track (9,6 km)
- Extended tram line (1,4 km)
- 31 Skoda vehicles procured
- Accessible (barrier-free) tram stops
- GPS-based real time information for passengers
/touch-info screens, digital displays, smart phone app/
- Shorter duration of trips

Additional results

- More attractive PT (trams), improved quality of service (incl. on-board Wi-Fi)
- Improved passengers safety (cameras, emergency calls)
- Energy savings
- Decreased noise and vibration
- Improved passenger comfort (on-board and in stops)

CNG buses + gas station



Chapter 2 – About the future

FURTHER PLANS FOR SUSTAINABLE DEVELOPMENT IN MISKOLC

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Prelude

Introduction;

Previous development practices and plans in Miskolc:

- SUMP (2013)
- Tram Project;
- CNG buses;
- Intermodal hub will be built til 2019
- Plans:
 - ❖ Expansion of tramway networks;
 - ❖ Intermodal hub;
 - ❖ Tram-train (Kazincbarcika – Miskolc);
 - ❖ Bypass road network.

SUMP → Development plan

SUMP

- How is the city we would like to live in?
 - ❖ Research – previous plans;
 - ❖ Meetings;
 - ❖ Project ideas – 80 projects;
 - ❖ Scheduling (3 terms);
 - ❖ Cost estimates (rough).

Development plan

- What do we have to do to reach our aims?
 - ❖ SUMP and other previous plans;
 - ❖ Cooperations;
 - ❖ Explanation of project ideas;
 - ❖ Scheduling (annual level);
 - ❖ Cost estimates and financial resources.

Short overview of suggested projects

Soft projects

- Education
- Communication campaign
- Events

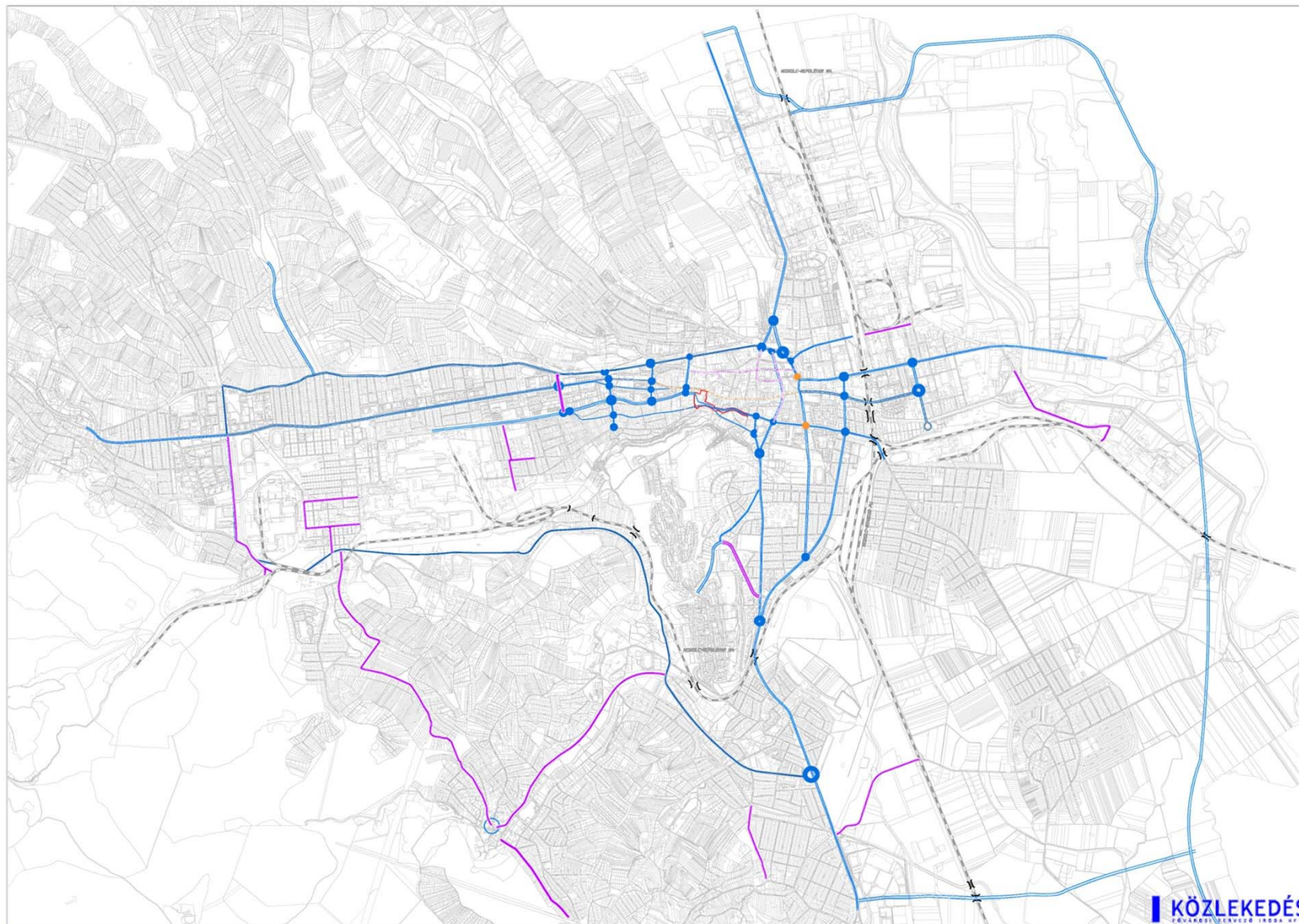
Short-term projects

- Intermodal hub;
- Developments in the inner city;
- Development of elements of road network and bicycle paths network

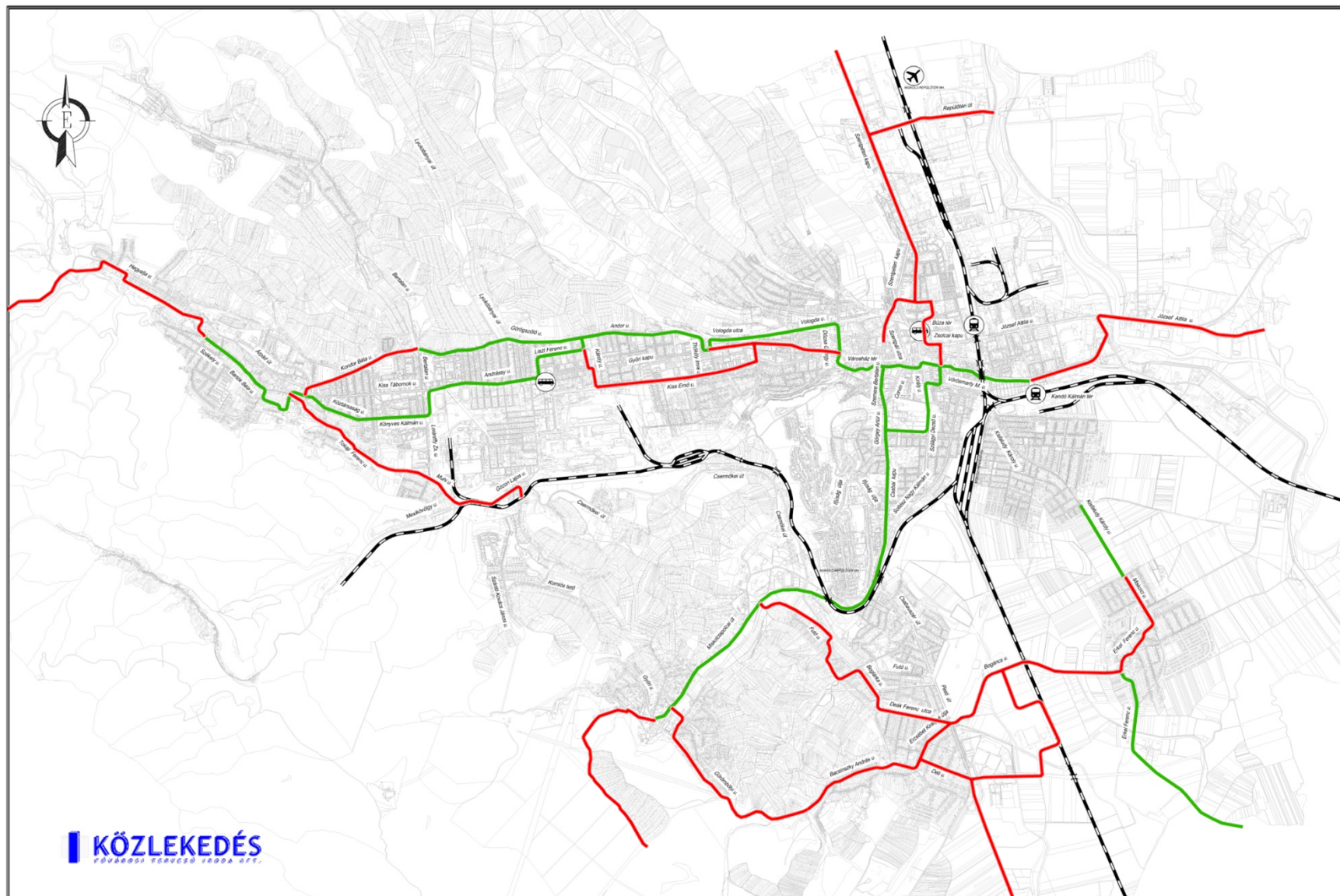
Long-term projects (*Vision*)

- Tram-train;
- Development of tramway network;
- Cargo Tram.

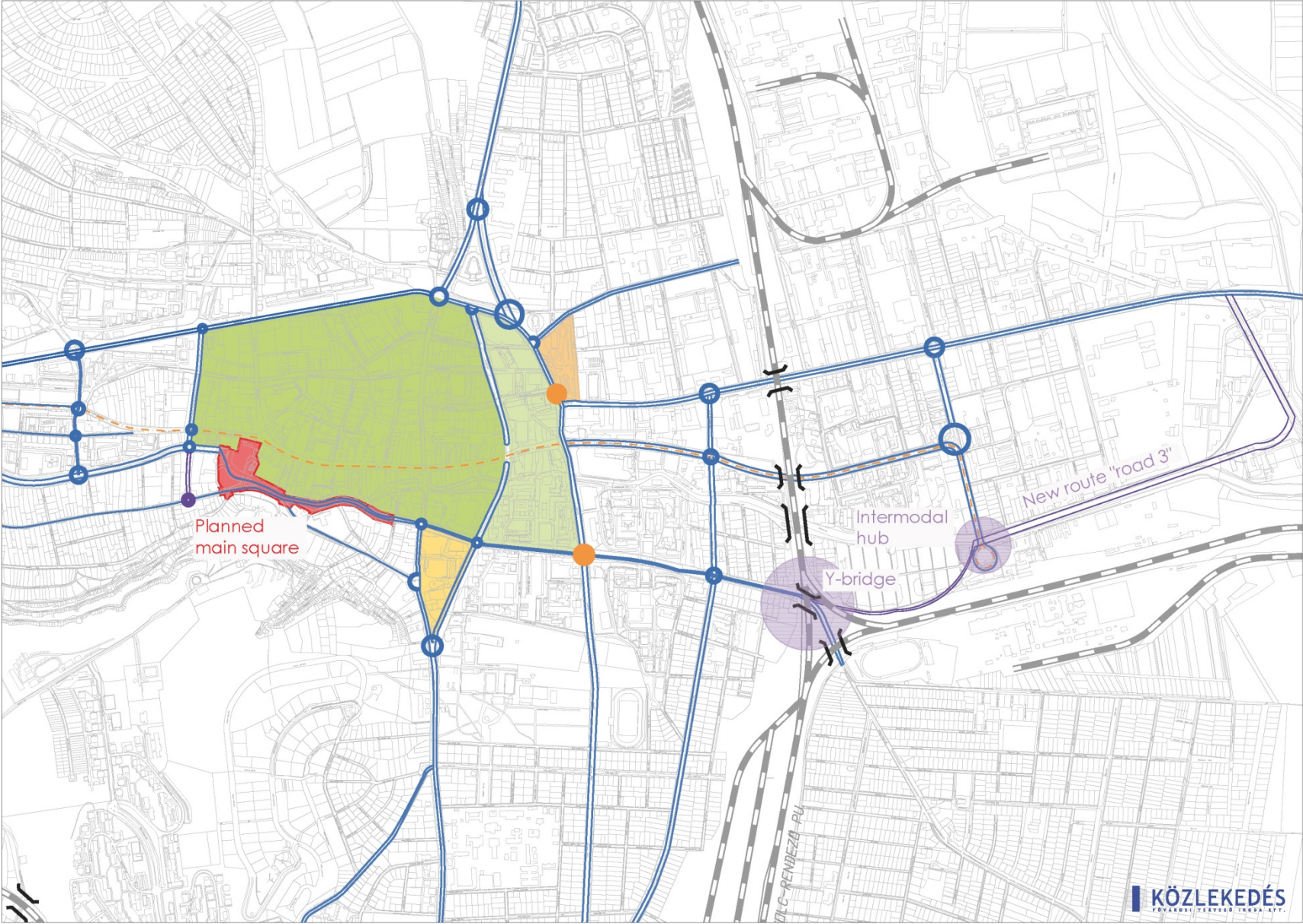
Development of road network

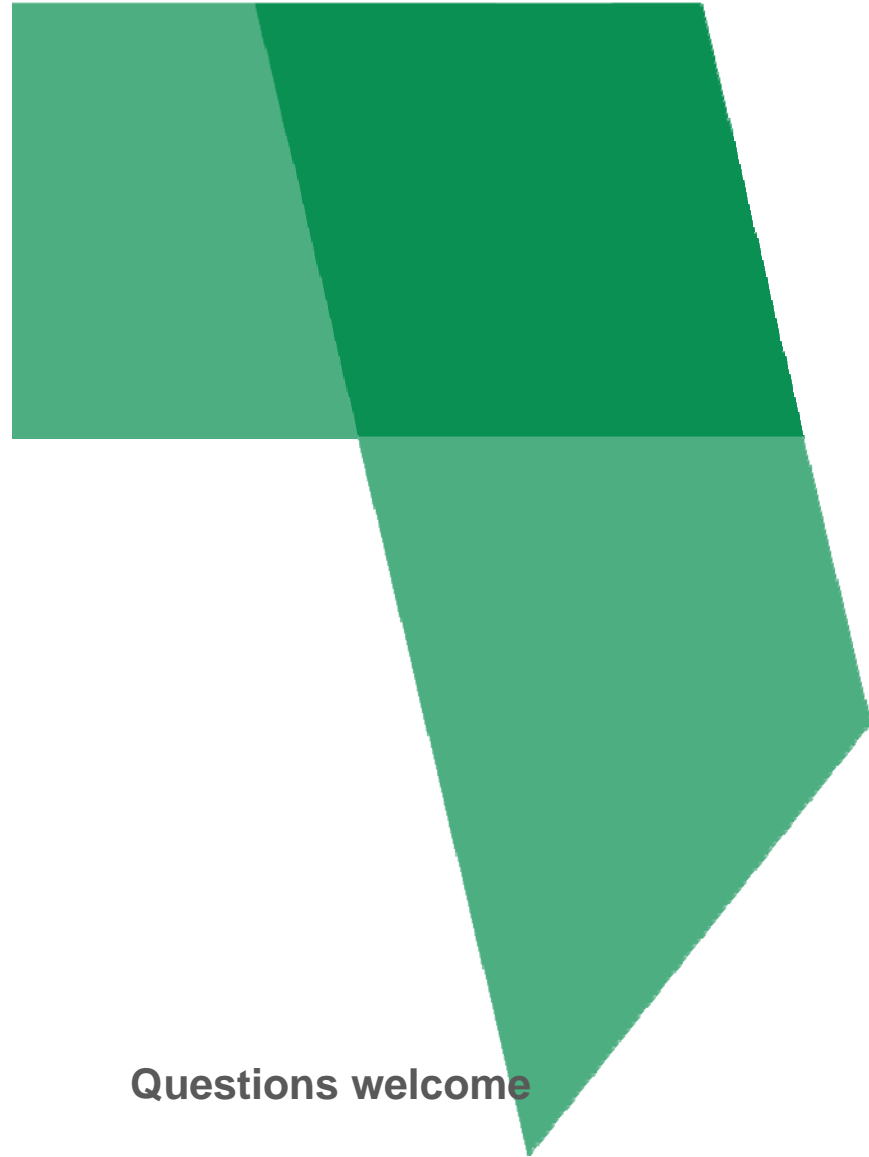


Development of bicycle road network



Inner city - Limitations





TRAM

Interreg Europe



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Thank you!

Questions welcome



Project smedia

