T4.3 BRNO DEMO

2. 2. 2021 – Petr Buchníček (OLTIS Group)

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BRNO DEMO – LOCATION

- Capital of the South Moravian Region
- The 2nd largest city of the Czech Republic
  - about 400 000 inhabitants of the city
  - around 600 000 inhabitants of the metropolitan area
- The largest trolleybus network in Europe
  - 94 km of routes
  - 140 vehicles
  - 45 million passengers a year

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BRNO DEMO – MAIN FEATURES

- Brno and South Moravian Region (pop. 1.2 Million)
- The backbone of the public transport system of the South Moravian Region is the railway passenger transport (28 railway lines), which is followed by regional bus transport and urban transport in 9 cities of the region
- Regional bus lines providing service between towns and rural areas of the region are led either to local hubs and terminals enabling transfer to main lines of the public transport system or to transfer terminals on the outskirts of the city of Brno
- While travelling to work in Brno, commuters often use their own private cars (most of them alone)

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BRNO DEMO – GOALS

- Introduce a completely new approach in the field of searching for the combined intermodal transport connections in several different mutually linked timetables, uniquely extended by the offer of the virtual crowd-based TSP
- Encourage daily commuters travelling to work by their private cars:
  - **To share the capacity of their cars with other travellers**
  - **To consider the possibility of a comfortable transfer to any of the public transport means at a public transport hub instead of completing the whole trip with their own private cars only**
- Meet environmental challenges:
  - **Reduce GHG emissions**
  - **Reduce traffic and parking congestion**

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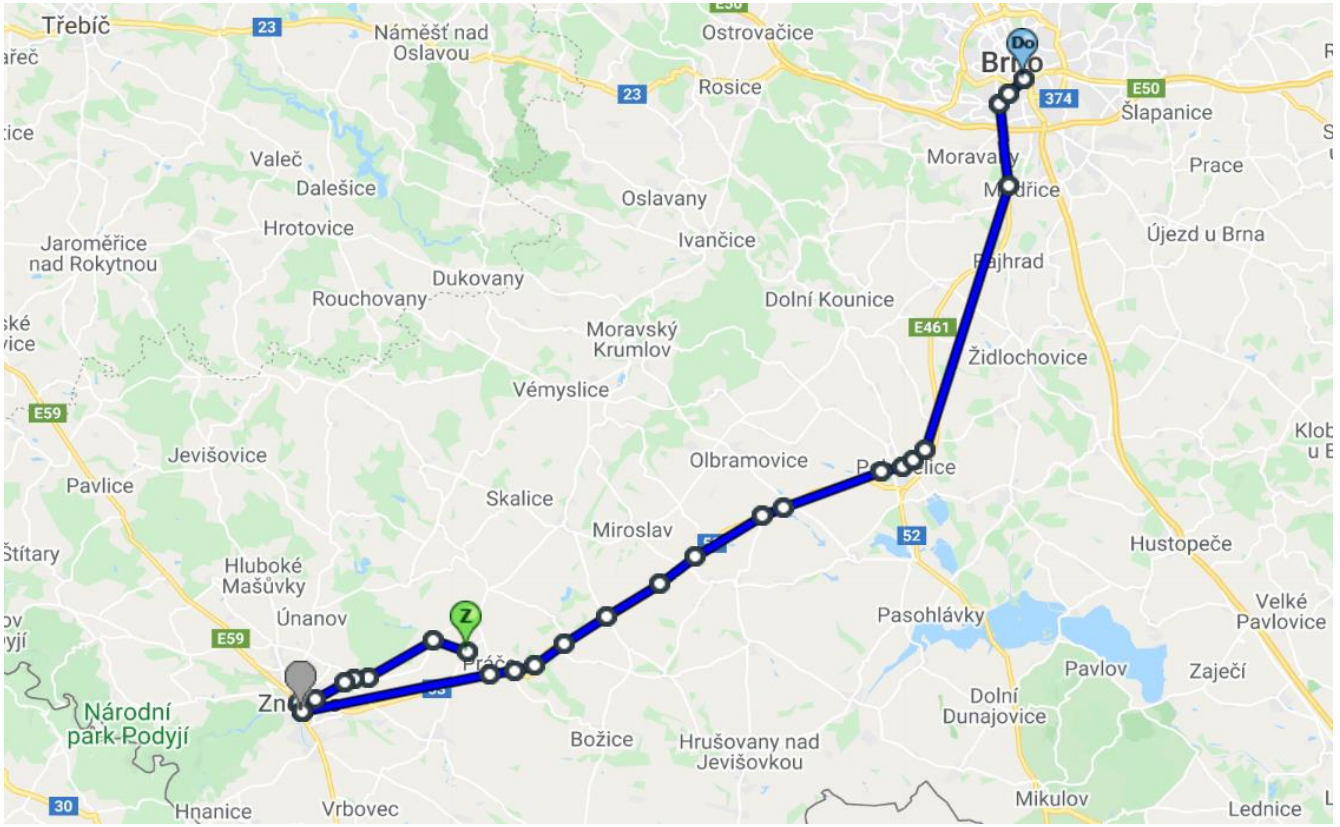
BRNO DEMO – FOCUS

- Involvement: OLTIS, UNIZA, cooperation with KORDIS (LoS)
- It is planned to focus on commuting from district Znojmo to Brno



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BRNO DEMO – ONGOING DEVELOPMENT

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BRNO DEMO – IMPLEMENTATION PLAN

INDICATOR	POTENTIAL DEMAND	TARGET
Private car commuters	2000	100
- Trips during the demo	4000/day	2000
Rail and bus commuters	1500	100
- Trips during the demo	3000/day	2000

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BRNO DEMO – POSSIBLE BARRIERS

- The level of available public transport services does not always seem sufficient during the day, so rural residents must use their private cars for daily commuting in some cases
- Ride sharing services are quite new and not widely used in the Czech Republic
- Thanks to public transport subsidies, every village, even in a rural area, is served by public transport
- Integration of private transport into the public transport ecosystem is not supported by the regional government, as it is considered a competitive travel mode

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BRNO DEMO – RISK ANALYSIS

RISK	MITIGATION STRATEGY
Change of demo area conditions	Change of demo location
Delay of SW components implementation	Improving cooperation with WP3 and other collaborating projects leaders responsible for SW implementation and its integration into the IP4 ecosystem
Reluctance to change travel habits	Explaining the benefits, encouraging commuters to ride sharing
Impact of worldwide COVID-19 pandemic to commuters preferences	Explaining the benefits, encouraging commuters to ride sharing
Language barrier	Translation into Czech language or narrowing of the target group
Poor internet coverage in rural areas	Change of demo location or reporting opportunity for improvement

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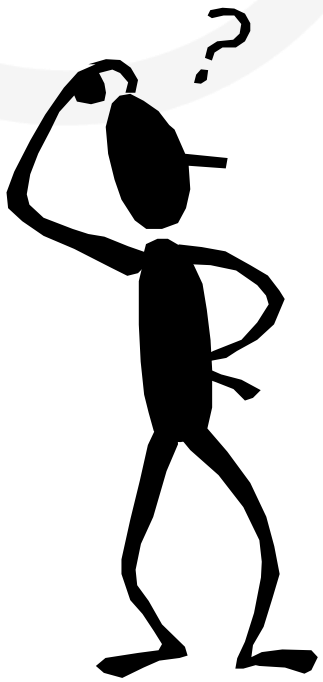

Thank you for your attention!

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