# WELCOME BY LEAD PARTNER: RONALD JUHRS (LVB)







- LOW-CARB Online Exploitation Workshop, 25.06.2020
- The LOW-CARB Project: An Introduction
- Wolfgang Backhaus, Rupprecht Consult

# **AGENDA**



Interreg

### **EXPLOITATION WORKSHOP**



AGENDA: 25 JUNE 2020  CENTRAL EUROPE European Lig		n Union Regional	AGENDA:	25 JUNE 2020  CENTRAL EUROPE European Rejornal European Rejornal	
This is a preliminary agenda and is still subject to change.			This is a preliminary agenda and is still subject to change.		
00.00					
09:00	WELCOME BY LEAD PARTNER		10:40	TARGETED ADVICE: OPPORTUNITIES FOR TECHNICAL ASSITANCE	
	Ronald Juhrs, CEO of LVB			PROVIDED BY THE EUROPEAN INVESTMENT BANK	
09:05	INTRODUCTION TO LOW-CARB AND PRESENTATION OF WORKSHOP		Joachim Schneider, European Investment Bank		
	OBJECTIVES		11:00	LESSONS ON INNOVATION PROCUREMENT	
	Wolfgang Backhaus, Rupprecht Consult			Doris Scheffler, ZENIT	
09:15	LOW-CARB PRODUCTS ON THEIR WAY TO IMPLEMENTATION:		11:30	15 MIN BREAK	
	<ul> <li>Master concept for PT development in the Leipzig North Area</li> </ul>				
	(Carsten Schuldt, LVB)			PARALLEL BREAKOUT MATCHMAKING SESSIONS	
	Selected measures from the Brno SUMP Action Plan			- active and creative participation by all	
	(Kateřina Nedvědová, City of Brno)				
	• Integration of the new battery electric line with the trolleybus electric		11:45	SESSION A: Co-creating the micro-mobility hub in Leipzig Nordraum	
	fleet in Parma (Davide Mezzadri, TEP)			(moderation: Carsten Schuldt and Christian Jummerich, LVB; Robert	
	Finding ways to make the Skáwina hybrid bus line permanent			Schillke, MDV)	
(Maciej Zacher, City of Skáwina)			11:45	SESSION B : Smart multimodal mobility station in Koprivnica	
• [Cargo] Bike-Sharing in Kraków (Lukasz Franek, ZTP Kraków)				(moderation: Nebojša Kalanj, City of Koprivnica)	
<ul> <li>Smart bus station in Koprivnica (Nebojša Kalanj, City of Koprivnica)</li> </ul>			12:00	SESSION C & D (MERGED): Creating synergies and usage opportunities	
	• Selected measures for company-based mobility management in Szeged			for the SUMP Self-Assessment Tool and the Central European SUMP	
	(Ádám Németh, SZKT)			Competence Centre (moderation: Marlene Damerau, Rupprecht Consult)	
	Achieving sustainability for the central European SUMP competence		11:45	SESSION E: How to achieve the safe last mile for school children in	
	centre (Maja Mutavdžija, University North)			Skawina? (moderation: Maciej Zacher, City of Skawina)	
	• Optimizing the usage of the SUMP Self-Assessment Tool for central		12:45	WRAP-UP AND FINAL COMMENTS	
	Europe (Marlene Damerau, Rupprecht Consult)				
10:30	10 MIN BREAK		13:00	END	



**EXPLOITATION WORKSHOP** 

# **POLLS**



## Poll 1:

Where are you joining us from today?

## Poll 2:

What type of organisation do you work for?



# **INTERREG CE PROJECT LOW-CARB:**

PROJECT INFORMATION & OBJECTIVES



# LOW-CARB: Capacity building for integrated low-carbon mobility planning in functional urban areas

### **Programme Specific Objective:**

To improve capacities for mobility planning in functional urban areas to lower CO<sub>2</sub> emissions

### **Project Main Objective:**

LOW-CARB project aims to enhance capacities for integrated low-carbon mobility planning for functional urban areas in Central Europe.

### Project Specific Objectives - with a focus on public transport:

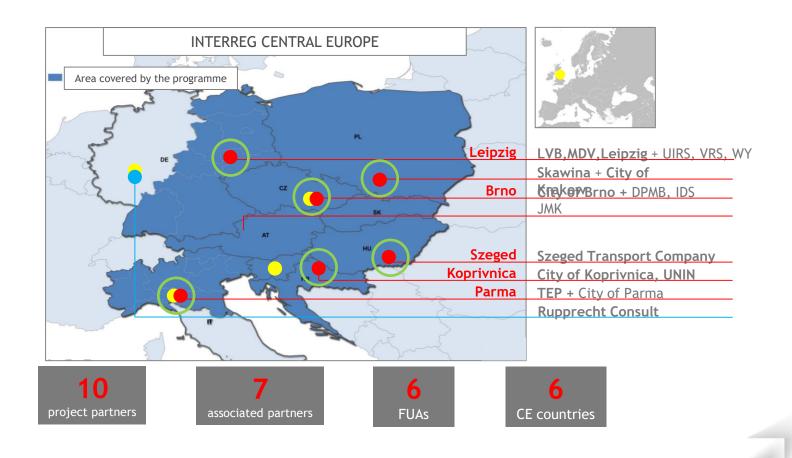
- Integrated low-carbon mobility planning for functional urban areas
- Capacity building for integrated low-carbon mobility planning in FUAs
- Pilot actions for low carbon mobility in FUAs



# **INTERREG CE PROJECT LOW-CARB:**

MAP OF PARTNERS



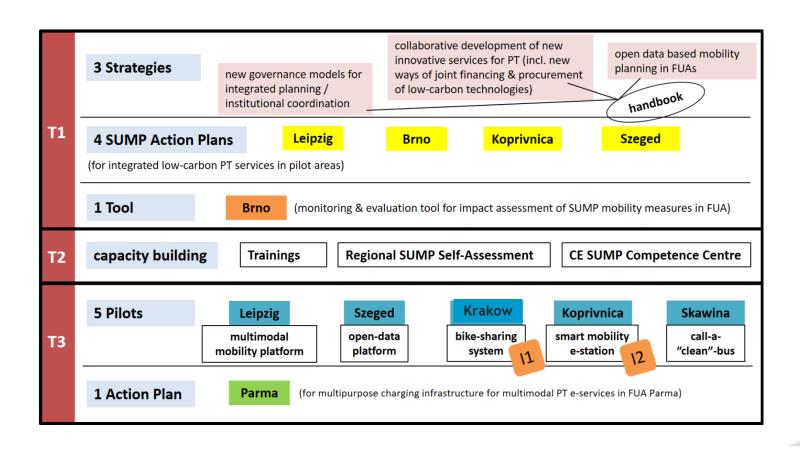




# **INTERREG CE PROJECT LOW-CARB:**

### **WORK PACKAGE STRUCTURE**









### WHERE ARE WE IN THE SUMP PROCESS?





# OBJECTIVES OF THE EXPLOITATION WORKSHOP



- Enhancing the project's impact by exploiting more results/outputs
- Encouraging collaboration between investors / financiers / entrepreneurs and our partners to activate financing and/or knowledge (networks, advice, information) flows
- Market creation for mobility solutions providers
- Connecting interested parties with our project partners





# Thank you!



Ronald Juhrs (LOW-CARB)

Leipziger Verkehrsbetriebe (LVB) GmbH

Wolfgang Backhaus

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- LOW-CARB Online Exploitation Workshop, 25.06.2020
- LOW-CARB Products on their way to implementation
- LOW-CARB Partners



- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Co-creating the micro mobility hub in Leipzig Nordraum
- R. Schillke (MDV), C. Jummrich (LVB), C. Schuldt (LVB)

# BACKGROUND



# Challenges

- Flexible shift times in companies
- Traffic capacity bottleneck during peak hours
- Low demand in off-peak hours
- Problem of the "last mile"
- Traffic connections with change-overs and long times











# **GENERAL GOALS**



# Masterplan with actions dealing with



High share of eco-friendly modes of transport



Fullfillment of employees mobility needs



CO<sub>2</sub>-reduction



Prevention of gridlock

## Realisation step-by-step after finishing LOW-CARB-project:



# MASTERPLAN ACTIONS











### **Train** 10 Actions













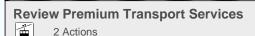


















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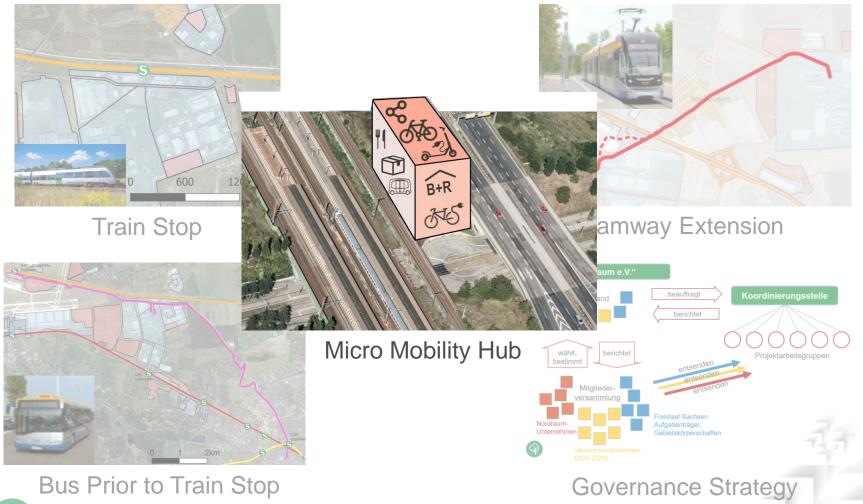


Park/Bike&Ride P+R 2 Actions



# **ACTIONS (EXAMPLES)**







# THANKS FOR YOUR ATTENTION





Robert Schillke

Mitteldeutscher Verkehrsverbund (MDV) GmbH



Robert.schillke@mdv.de



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### **Christian Jummrich**

Leipziger Verkehrsbetriebe (LVB) GmbH



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#### Carsten Schuldt

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- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Selected measures from the Brno SUMP Action Plan
- Katerina Nedvedova / SMB / City of Brno



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB What keeps us from implementing?

Our support needs



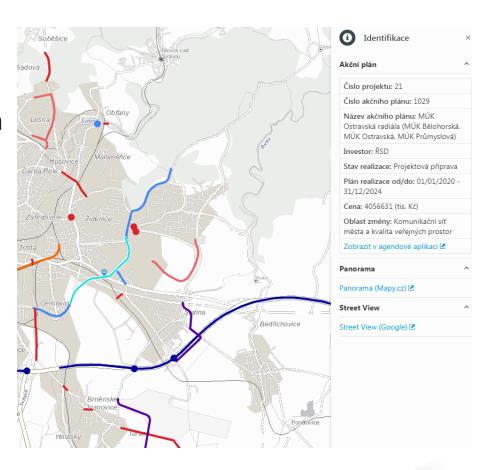


Short project presentation - local level





- Development of SUMP monitoring tool
  - Measures from Action Plan a stack of SUMP measures
  - Better monitoring, coordination and involvement of stakeholders -> clearer responsibility and financing
  - Simplify sharing information





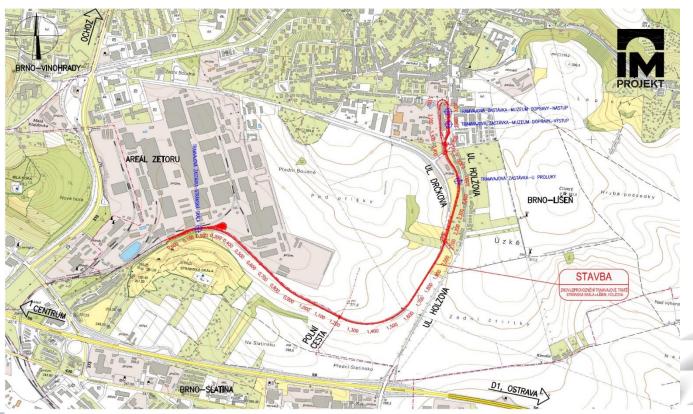


Highly prioritized measures you want to implement after the end of LOW-CARB





- Extension of tram lines to Stránská skála Líšeň, Holzova
- Creation of P+G
- Measuring points on cycle paths







What keeps us from implementing?





- Financial possibility of funds
- Property purchase of land
- Selection of places feasibility study
  - Creation of P+G
  - Measuring points on cycle paths





Which support do you need for which step?





- Support of politicians
- Involvement of stakeholder, local inhabitants
- Financial things







Thank you for your attention.

Katerina Nedvedova (SMB - City of Brno, <u>nedvedova.katerina@brno.cz</u>, +420542174536)





- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Selected measures from the Brno SUMP Action Plan
- Katerina Nedvedova / SMB / City of Brno



- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Integration of new e-mobility offers and services into the existing electric PT infrastructure
- Davide Mezzadri, TEP spa, Parma, Italy



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB What keeps us from implementing?

Our support needs

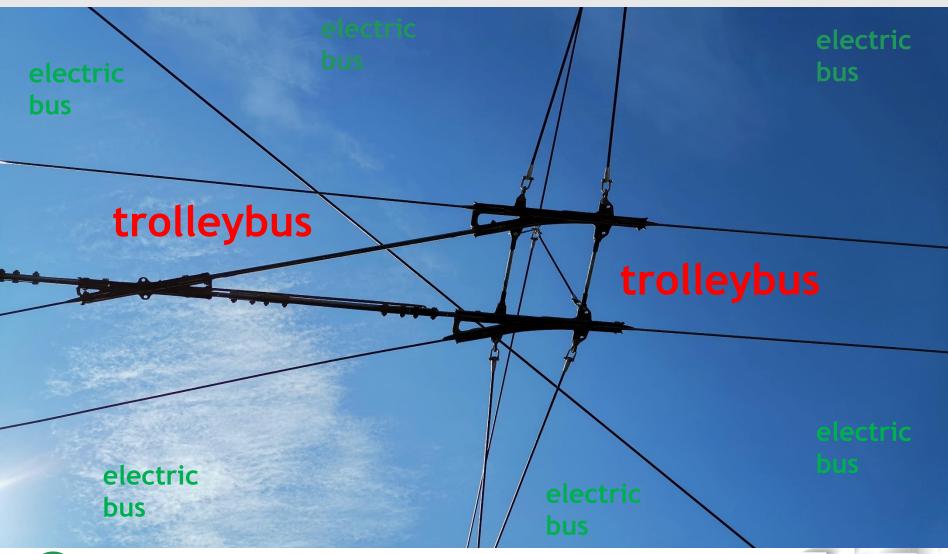




Short project presentation - local level

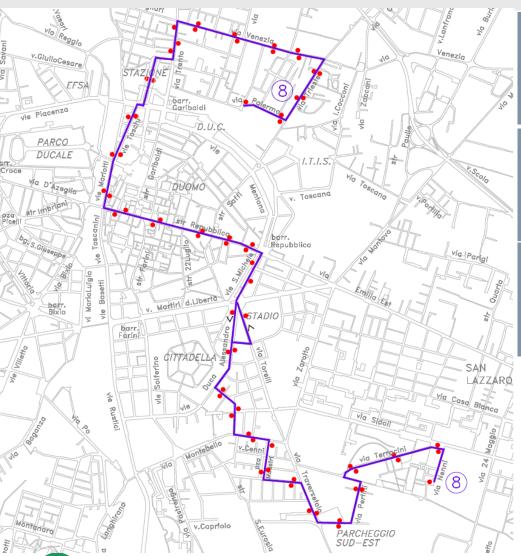












4	time [minut es]	route	stop time [minutes]	length [Km]	speed [Km/h]
	36	via Palermo - via Nenni	6	9,46	15,8
777	36	via Nenni - via Palermo	6	9,46	15,8





37 kWh charge at the terminus in 5 minutes.

3 power modules of 150 kW each is needed.

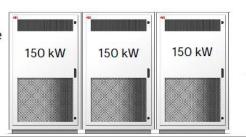
### Opportunitiy charging

Reliable, scalable, based on industry standards



- · Industrial quality power cabinet
- 150kW, 300kW & 450 kW modular
- Redundancy per each 150kW module
- . 200-920 VDC
- Galvanic isolation
- Remote management

- Automated connection system
- · High power DC transfer to bus
- · Wireless communication to bus
- Based on
  - EN/IEC 61851-23
  - ISO/IEC 15118
- . OPPcharge compatible













The main goal is the reduction of emissions.

COMPARISON ON POLLUTING EMISSION	ONS		
Total annual consumption (kWh)	10 1134000	Total annual consumption (I)	10 391230
Total emission of CO2 (0,35 kg/kWh)	396900	total CO2 emission (2,65 kg/l)	1036759,5
SAVING CO2 TONS PER YEAR		639,85	
NOx emissions from thermal power plant (0.48g / kWh) (*)	544320	urban bus NOx emissions between 15-18t (7,991g / km) (**)	4530897
SAVINGS OF Kg OF NOx PER YEAR		3.986,57	
PM10 emissions from thermal power plant (0.054g / kWh) (*)	61236	PM10 city bus emissions between 15-18t (0.173g / km) (**)	98091
SAVINGS OF Kg OF PM PER YEAR		36,85	





Highly prioritized measures you want to implement after the end of LOW-CARB





We want to increase kilometers with electric

We want to increase recharging at bus stops

We will test the integration between new e-mobility and the existing electric infrastructure





What keeps us from implementing?





The high costs of electric buses

The high costs of the recharging systems

The mobility plan is in progress





Which support do you need for which step?





increase events about the electric systems in transport public

increase funds for investments in electric buses





Thank you for your attention.



## **POLLS**



#### Poll 3:

Which electric public transport system is operated in your city?

#### Poll 4:

Which electric bus system is operated/ tested in your city?







- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Keeping the dream alive...
- Maciej Zacher/ Municipality of Skawina / Skawina, Lesser Poland, Poland



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB

What keeps us from implementing?

Our support needs





Short project presentation - local level





# The main goal of the project

- The very first internal low emission bus line in Skawina
- connects main points of interest in Skawina e.g. main market,
   cemeteries, hospital, biggest settlements, Skawina Mobility Hub
- acts as a feeder to the Rapid Metropolitan Rail
- acts as a school bus connecting all the primary schools in town
- utilises high quality low emission vehicles (hybrid)
- runs frequently
- is free of charge to all the users
- 6 months testing



## LOW EMISSION BUS LINE PILOT

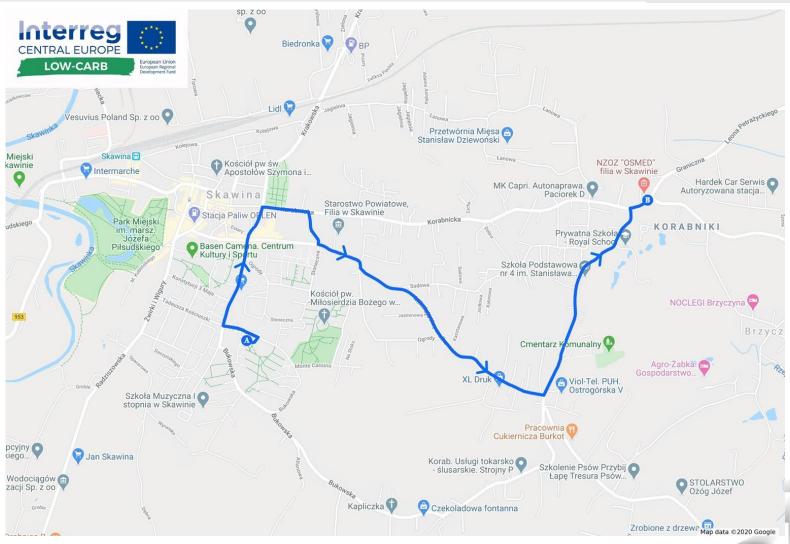






## LOW EMISSION BUS LINE PILOT

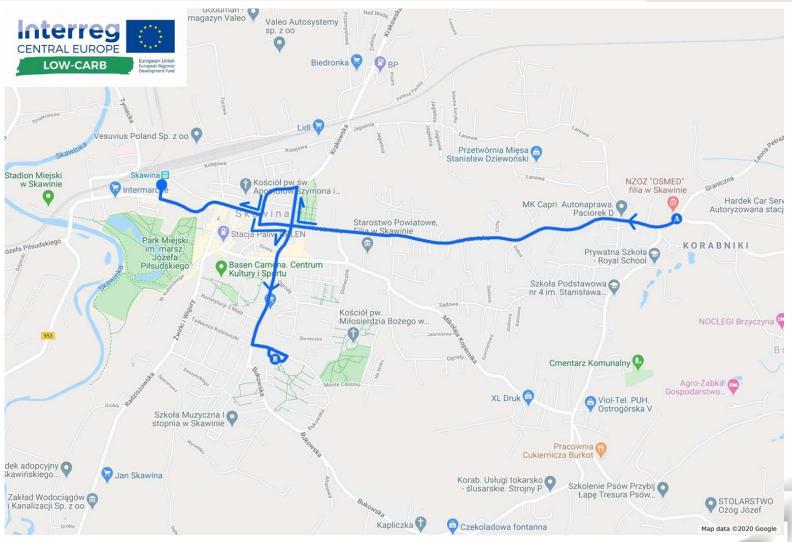






## LOW EMISSION BUS LINE PILOT









LOW-CARB

Skawina Korabniki

2248-95

TRASA: SKAWINA KORABNIKI - Skawina Korabnicka, Skawina Popiełuszki, Skawina Pokoju, Skawina Mickiewicza, Skawina Niepodległości, Skawina Mickiewicza, Skawina Pokoju, Skawina Popiełuszki,

0) Skawina Korabniki	Skawina Jana Pawia II - SKAWINA						
1) Skawina		Dzień powszedni		Soboty		Święta	
Wyspiańskiego	5	25	5	25	5	25	
2) Skawina Korabnicka	6	15	6	15	6	15	
NŻ	7	05 55	7	05 55	_	05 55	
<ol> <li>Skawina Korabnicka</li> <li>Szkoła NŹ</li> </ol>	8	45	8	45	<u> </u>	45	
4) Skawina Cmentarz	9	35	-	35	_	35	
5) Skawina Rynek	-	25	10		10		
6) Skawina Szkoła		15	11			15	
7) Skawina SCK		05 55		05 55		05 55	
8) Skawina Szkoła					_		
9) Skawina Rynek		45		45	13		
10) Skawina Popiełuszki 11) Skawina Ajka		35	14		14		
12) Skawina		25		25	15		
		15		15		15	
(NŻ) - na żądanie		05 55	_	05 55	_	05 55	
	18	45	18		18	45	
	19	35	19	35	19	35	
	20	25	20	25	20	25	
	21	15	21	15	21	15	
	22	05 55	22	05 55	22	05 55	
	Zakłócenia w ruchu powodują zmiany czasów odjazdów.						
MPK S.A. w Krakowie							

LINIA AGLOMERACYJNA

MPK S.A. w Krakowie

	Skawina Rynek
Κ.	TRASA: SKAWINA KORAB

IA KORABNIKI - Skawina Korabnicka. awina Popiełuszki, Skawina Pokoju, Skawina Mickiewicza, Skawina Niepodległości, Skawina Mickiewicza, Skawina Pokoju, Skawina Popiełuszki,

- Skawina Korabniki	Sł	kawina Jana Pawka II -	SKA	WINA		
		Dzień powszedni			Święta	
0) Skawina Rynek	5	33	5	33	5	33
1) Skawina Szkoła	6	23	6	23	6	23
2) Skawina SCK 3) Skawina Szkoła	7	13	7	13	7	13
4) Skawina Rynek	8	03 53	8	03 53	8	03 53
5) Skawina Popiełuszki	9	43	9	43	9	43
6) Skawina Ajka	10		10	33	10	33
7) Skawina	11	23	11		11	23
	12			13	12	
		03 53		03 53	13	03 53
	14	43	14	43	14	43
	15	33	15	33	15	33
	16	23	16		16	23
	17			13	17	13
	18	03 53	18	03 53	18	03 53
	19	43	19	43	19	43
	20	33	20	33	20	33
	21	23	21	23	21	23
	22			13	22	
	23	03	23		23	
	Zak	dócenia w ruchu powodu	ują z	rmiany czasóv	w od	jazdów.





Highly prioritized measures you want to implement after the end of LOW-CARB





# High priority measures

- keep the existing service
- optimise the existing service
- make it financially sustainable
- scale up











What keeps us from implementing?





## Challenges

- The main challenge is the financial sustainability
- General lack of funding for the PT
- Fares
- Even weaker support for the PT in the COVID-19 circumstances
- Raising costs of the PT during COVID-19
- Not clear mode of the PT service should it be outsourced by ZTP/MPK Kraków or maybe a new "local" PTO should be selected
- The need for rerouting the rest of the lines
- Metropolitan Rapid Rail limited operations





Which support do you need for which step?





# Challenges

- The main challenge is the financial sustainability
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## **Financial**

- The main challenge is the financial sustainability
- General lack of funding for the PT
- Fares

- How can we get financial support for the internal bus line?
- Are there external funds for that kind of operation available?
- Novell financial modes?





# **Operational**

- Not clear mode of the PT service should it be outsourced by ZTP/MPK Kraków or maybe a new "local" PTO should be selected
- Is it reasonable to consider another PT operator to enter the local/internal market?
- How can we cooperate with the small private bus owners and operators, and put them into the PT system?





### COVID-19 related

- Even weaker support for the PT in the COVID-19 circumstances
- Raising costs of the PT during COVID-19

- How can we advocate for the PT in/past the COVID-19 situation while the numbers are clear?
- How to change the mode of the PT? DRT uberisation?
   Taxis? Smaller vehicles? Bigger vehicles? Incentives?





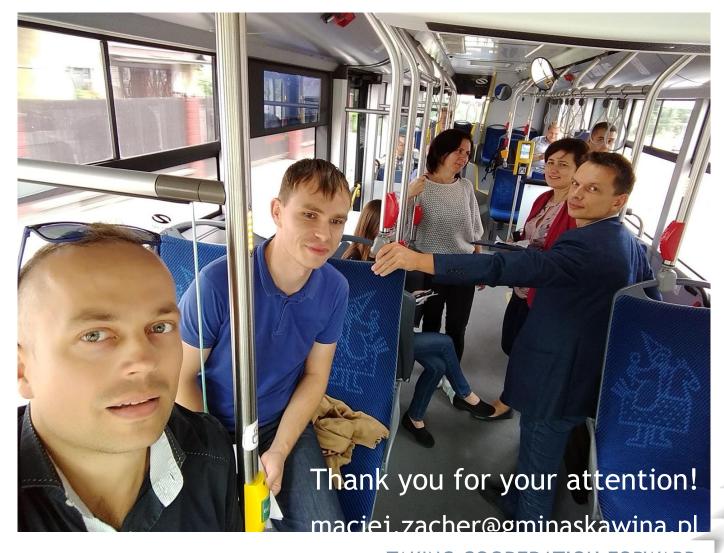
# Organisational

- The need for rerouting the rest of the lines
- Metropolitan Rapid Rail limited operations

- How do we communicate the change in the system?
- How far should we go with the participatory process?
- What if the railroad service is not reliable?
- How much of the existing system should we keep?











- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Municipality of Krakow
- 2

## **CARGOVELO SYSTEM**



# 5 cargo bikesharing system for everyone



## **CARGOVELO SYSTEM**



## Stakeholders involvement



High interest, especially among fresh food market

Extension of street rebuild which make impossible implementation of the second station

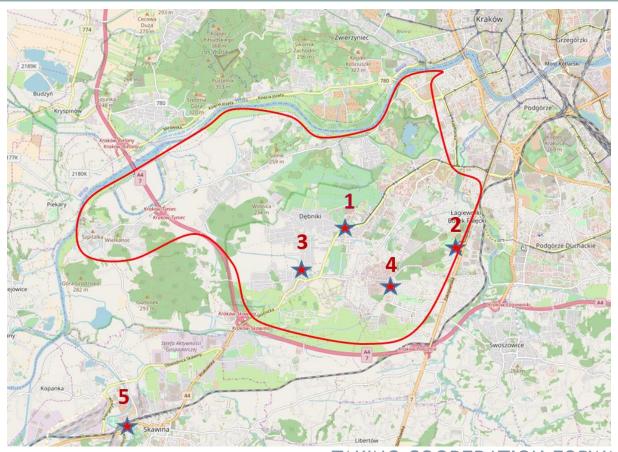
Pandemy...



## **E-BIKESHARING SYSTEM**



# 50 e-bikes for FUA users

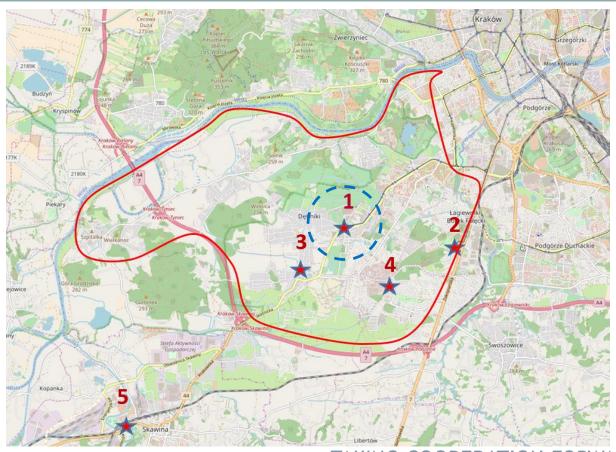




## **E-BIKESHARING SYSTEM**



# New scheme



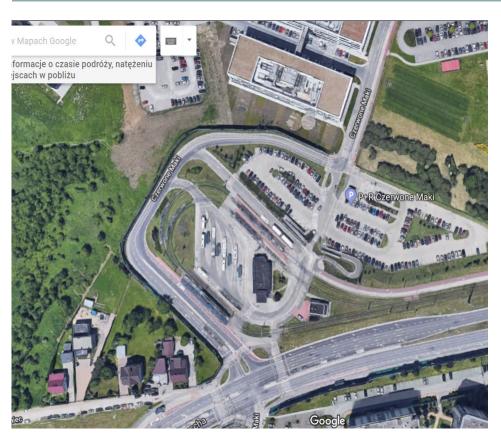


TAKING COOPERATION FORWARD

### E-BIKESHARING SYSTEM



## Park&Bike



50-60 e-bikes available for FUA trips on one site – Czerwone Maki

+ CargoVelo?

P+R rules, take a bike for a day, week or month and use 4am – 11pm

waiting for tender results





# Thank you for your attention!





- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Smart bus station in Koprivnica
- A Nebojša Kalanj, City of Koprivnica



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB What keeps us from implementing?

Our support needs





## Short project presentation - local level

Development of an innovative small scale public bus station that incorporates the following elements;

- charging facilities for electric vehicles (buses)
- small scale PV system
- battery storage system
- e-bike terminals
- other usual public bus station elements (urban equipment etc...)

Located at the University/campus grounds in Koprivnica





# What measures we want to realize after the end of the Low - Carb project?

#### We want to:

- show the feasibility of using small scale battery storage system in combination with renewables in public transport service
- Set-up the station in order to expand the installed storage system and the PV system
- Encourage the decentralised production and consumption of energy in public transport
- Develop similar stations on the outskirts of the City of Koprivnica





## Problems and barriers

There are no "off the self" solutions offered in Croatia - need for tailor made solutions

Due to the rapid development of electromobility solutions, the risk of the implemented solutions being obsolete in a short notice is very high

Current COVID 19 crisis is making public transport less attractive Costs of developing and implementing such a system are high





## Support in development and implementation

Access to a wider audience of EU companies that offer such solutions

More funding support for e-mobility solutions in public transport systems (especially smaller scale systems)

Help in disseminating the idea "functional charging facilities for smaller public transport system"





Thank you for your attention.

Nebojša Kalanj Experts associate for sustianable development City of Koprivnica

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## **POLLS**



Poll 5: What should diesel buses be replaced by in the long term?







- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Selected measures for company-based mobility management in Szeged
- dr. Zoltán Ádám Németh Szeged Transport Company chief of public transport and railway safety



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB What keeps us from implementing?

Our support needs





Short project presentation - local level





# **Szeged Transport Company**

100 % municipality owned

Operating since 1884

Currently the operator of trams and trolleybuses in Szeged (50 % of PT usage)

We have 44 trams and 60 trolleybuses

We operate the city parking and the sport-airport





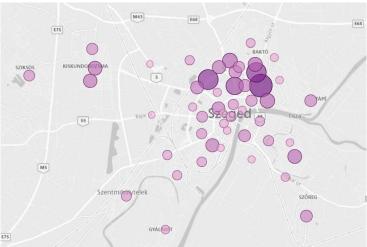


Industrial development area in northwest Szeged

## Main findings in Low-carb project:

- Extensive survey of the employers and employees by SZKT in Low-Carb project
- Currently underserved with PT
- Higher than average PT useage in the area
- Several proposals were made for better bike lanes, PT connections, road development etc... Some are implemented
- Further private developments in sight
- High PT demand even during pandemic times









# Development timline from conventional trolleybuses to hybrid e-bus-trolleybuses @ SZKT







2010. Conventional trolleybus

Convince public that trolleybus is a viable electric bus

2014. 1st battery mode trolleys

battery mode

50 % PT

Szeged reached

New trolleybuses with (7 km) auxilliary electrification in

2016. Diesel route replacement test

Replacing an existing diesel bus route where there is long catenary section

2020. New hybrid trolleys

Hybrid electric bus prototype development

Hybrid trolley experimental operation

5-6 years operation, feasibility measurements

Hybrid trolley regular operation

Commercial operation proposed 100 % PT electrification in **Szeged** 

Self driving possible?











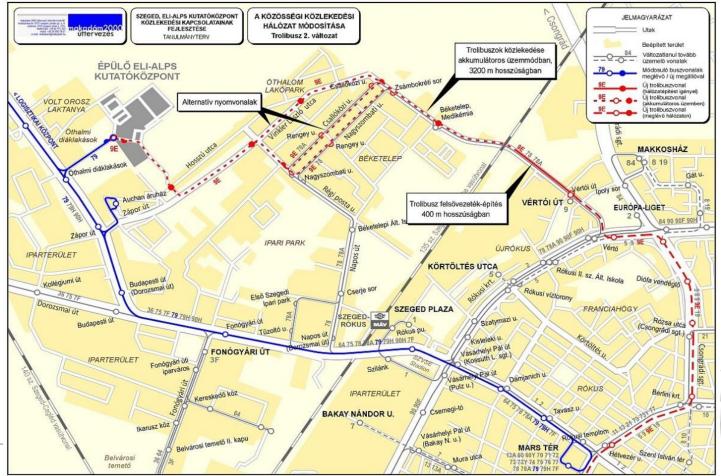


Highly prioritized measures we want to implement after the end of LOW-CARB





SZKT main goal: Trolleybus route extension in Szeged's northwest area (without catenary, experimental battery mode)







## "... to use trolleybus catenary as e-bus charger ..."

- vehicle developement
- possibility of involve new areas without extensive infrastructure work
- use existing trolleybus catenary for in motion charging e-buses
- We want to go from experimental vehicle trials to experimental operation



















What keeps us from implementing?

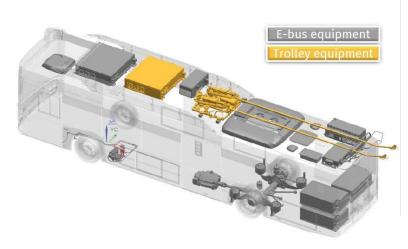




# Trolleybus network in Szeged's northwest area

- The industry is already providing hybrid trolleybus vehicles
- However, no ebus system has longterm operational experience (long term problems, service cycles and sustainability unknown)
- Battery systems are still evolving, thus the long term experience is missing
- Previously decided national funding source is withdrawn in March 2020.









Our support needs





## Trolleybus network in Szeged's North Area

The Municipality of Szeged is the main stakeholder of the local PT in Szeged

SZKT basically operated hand in hand with Municipality

Financial support is requested for further development of the existing electric PT network, as well as for trial operation

Support must take into account external factors in feasibility study methodology. Operating and investing in electric PT is currently costlier than diesel buses







## Thank you for your attention!



dr. Zoltán Ádám Németh chief of public transport and railway safety Szeged Transport Company

E-mail: nemeth.adam.zoltan@szkt.hu





- LOW-CARB Online Exploitation Workshop, 25.06.2020
- CE SUMP Competence Centre
- A Maja Mutavdžija, mag.ing.traff., UNIN



Short project presentation - local level

Highly prioritized measures we want to implement after LOW-CARB What keeps us from implementing?

Our support needs





Short project presentation - local level





## **CE SUMP Competence Centre**

Web-based platform with the main objective to help the cities of the wider region in the development of sustainable urban mobility plans (SUMP) by providing information, support, exchange of experience and training.

Central platform where links to relevant databases, tools, other platforms and websites can be found.

CE SUMP Competence Centre is for experts in the field of sustainable urban mobility planning, but also for everyone interested in this subject.





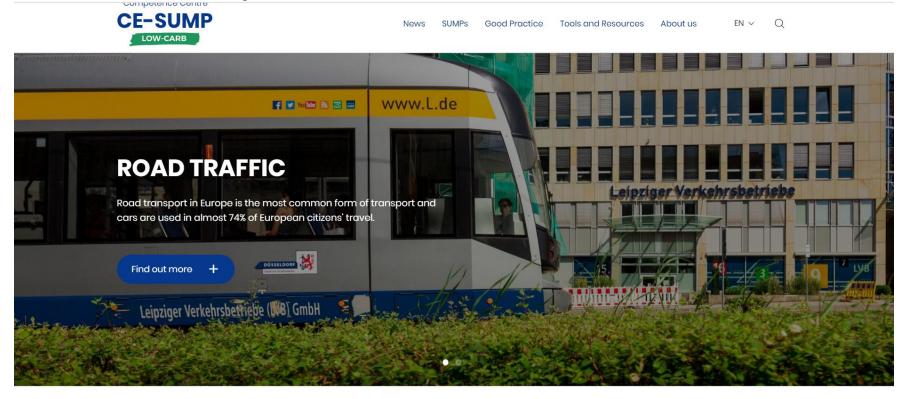
## **CE SUMP Competence Centre**

- News
- Good Practices
- SUMPs (CE countries, links to SUMP registry, Eltis City Database, PROSPERITY database of interesting SUMPs)
- Tools and Resources
  - Tools (SUMP Self-Assessment Tool, Civitas Tool Inventory, GIS SUMP monitoring tool, Reachie)
  - Teaching materials (Mobility academy, CIVITAS learning)
  - SUMP Guidance
  - Funding opportunities
  - Experts





# CE SUMP Competence Centre



WELCOME to the Central European Competence Centre for Sustainable Urban Mobility Planning (SUMP)!



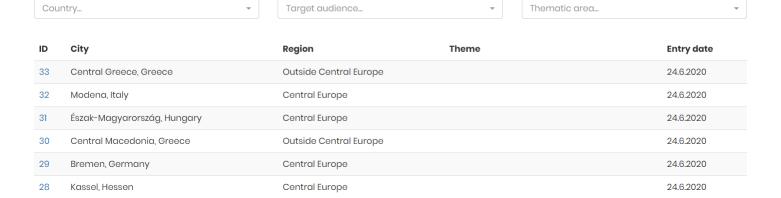




#### **GOOD PRACTICE**

Find Good practices of the INTERREG projects right here.

Newest good practices are shown first, but you can use filters for a quick search! Good practices can be sorted by Country, Target audience or Thematic area.







#### **TOOLS AND RESOURCES**

If you are looking for helpful learning materials, you will find all the tools, teaching materials, SUMP guides, more about funding opportunities and experts in the field of sustainable urban mobility planning.

	Tools	Show more
	Teaching materials	Show more
	SUMP guidance	Show more
so y	Funding opportunities	Show more
	Experts	Show more





#### **TOOLS**



**SUMP Self-Assessment Tool** 



GIS SUMP monitoring tool



CIVITAS TOOL INVENTORY



Reachie







#### **TEACHING MATERIALS**





**Mobility academy** 

**CIVITAS learning** 





Highly prioritized measures you want to implement after the end of LOW-CARB





## CE SUMP Competence Centre

Sustainability and maintenance after LOW CARB ends Possibility of adding aditional categories and thematic areas Financial Sustainability





What keeps us from implementing?





## **CE SUMP Competence Centre**

Financial support for Competence Centre maintainance





Which support do you need for which step?





## **CE SUMP Competence Centre**

Sustainability and maintenance after LOW CARB ends Financial Sustainability

- Financial support for website maintenance
- Possibility of adding aditional categories and thematic areas
  - Providing content for CC
  - Civinets, National Taskforces





Thank you for your attention.

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- LOW-CARB Online Exploitation Workshop, 25.06.2020
- Optimizing the usage of the SUMP Self-Assessment Tool for central Europe
- Marlene Damerau, Rupprecht Consult, Cologne Germany





#### The SUMP Self-Assessment Tool



- helps cities to identify strengths and weaknesses
- provides feedback and inspiration how to improve mobility planning
- starts a discussion how to improve cooperation within the organisation and with others (e.g. several municipalities of a functional urban area/region)
- online and **free to use** (no external auditor needed)
- quick and anonymous self-assessment (20min 2h)











#### The SUMP Self-Assessment Tool

- Revision of previous SUMP self-assessment tool
  - Need to make it useable for cities without a SUMP
  - Need to address the 'functional urban area' (FUA) and its surroundings rather than a municipal administrative area
  - Update of SUMP Guidelines
- Fully updated based on user feedback, SUMPs-Up city partner tests and LOW-CARB workshops (Krakow FUA, Cologne PTA)
- Launched Feb 2020 together with the SUMP Guidelines 2<sup>nd</sup> edition





#### The SUMP Self-Assessment Tool



SUMP Self-Assessment Tool

O Start

1 Planning Context

2 Mobility Assessment

3 Vision and Objectives

4 Measurable Targets

5 Integrated Transport

6 Implementation Plan

7 Institutional Cooperation

8 Participation

9 Monitoring and Evaluation

III Results

Start



#### Welcome to the SUMP Self-Assessment

The SUMP Self-Assessment helps you to **evaluate and improve mobility planning** in your city or functional urban area. The results page will show you how well your planning activities fulfill the <u>principles of a Sustainable Urban Mobility Plan</u> (SUMP), enabling you to identify the strengths and weaknesses of your approach. It will provide you with **tailored advice for further improvement**, good practice examples and links to guidance for your specific situation.

The SUMP Self-Assessment can be used to **both assess the quality of a specific strategic mobility plan, and to evaluate planning activities in general.** This makes it useful at all stages of the planning process - e.g. to assess what to improve when starting a SUMP, to readjust activities throughout the process, or to assess the plan quality when finalising or having completed a SUMP. To achieve an assessment that fits your situation, there are **tailored sets of questions depending on your planning context and interest** (assessment of a strategic mobility plan, or of planning activities in general).

The SUMP Self-Assessment should be **completed by one or several persons who are well acquainted with mobility planning activities in your city or functional urban area** (and with the SUMP and its development process if you want to assess plan quality). It is possible that one person answers on behalf of the mobility planning team or the team having that role. However, for greater accuracy we recommend that several people fill in the questionnaire (which could include colleagues from other departments, other municipalities, regional organisations, decision makers and key stakeholders involved in mobility planning or plan development). You can gain highly relevant insights if you then compare similarities and differences in responses of different stakeholders, e.g. in a workshop.

The SUMP Self-Assessment consists of eight sections that are directly related to the SUMP principles and roughly follow the order of a planning process. Depending on your planning context, it contains 30 to 45 questions. If one person with a good level of information fills it in on their own, it should only take around 20 to 30 minutes to complete. To use it in a workshop format, we recommend 1.5 to 2 hours to allow enough time for discussions.

Start SUMP Self-Assessment

All data collected in this survey will remain strictly confidential. In no case will we publish the results of individual cities or identify individual cities in any publications (<u>more details on data usage</u>). You can **use your personal code to check your results or share them** with others for a workshop.











Privacy policy





#### The SUMP Self-Assessment Tool



German SUMP Selbsteinschätzung O Start European Platform Start on Sustainable Urban Mobility Plans 1 Planungskontext Herzlich Willkommen zur SUMP-Selbsteinschätzung 2 Mobilitätsanalyse Das Tool zur SUMP-Selbsteinschätzung hilft Ihnen, die Mobilitätsplanung in Ihrer Stadt oder Stadtregion zu bewerten und zu verbessern. Die Ergebnisseite gibt eine Rückmeldung, wie gut Ihre Planung die Prinzipien eines 'Sustainable Urban 3 Leitbild und Ziele Mobility Plan (SUMP)' erfüllt und erlaubt es dadurch, Stärken und Schwächen zu identifizieren. Passend zu Ihrer individuellen Situation bieten wir Ihnen zudem maßgeschneiderte Tipps für weitere Verbesserungen, gute Beispiele aus der Praxis und Links zu passenden Textabschnitten in Planungshandbüchern. 4 Messbare Ziele Sie können das Tool zur SUMP-Selbsteinschätzung sowohl für die Qualitätsüberprüfung eines bestimmten Integriertes strategischen Mobilitätsplans als auch zur Bewertung Ihrer allgemeinen Planung verwenden. Der Einsatz ist in allen Verkehrssystem Planungsphasen möglich und sinnvoll - z.B. um zu beurteilen, welche Kriterien zu Beginn eines SUMP-Prozesses wichtig sind; um Anpassungs- und Verbesserungsmöglichkeiten während eines Prozesses zu erkennen oder um einen Qualitätscheck bei einem abgeschlossenen SUMP durchzuführen. Je nach Planungskontext und -interesse (Beurteilung 6 Umsetzungskonzept eines bestimmten strategischen Plans oder von allgemeinen Planungsaktivitäten) gibt es maßgeschneiderte Fragen. Institutionelle Die SUMP-Selbsteinschätzung sollte von einer oder mehreren Personen durchgeführt werden, die mit der Zusammenarbeit Mobilitätsplanung in Ihrer Stadt oder Stadtregion gut vertraut sind (und auch mit dem SUMP und seinem Entwicklungsprozess, wenn Sie die Qualität des Planungsdokuments beurteilen möchten). Es ist möglich, dass eine Person - im Namen des Verkehrsplanungsteams - die Fragen beantwortet. Für mehr Genauigkeit empfehlen wir jedoch, 8 Bürgerbeteiligung dass mehrere Personen den Fragebogen ausfüllen (wozu auch Kolleginnen und Kollegen aus anderen Abteilungen, anderen Kommunen, Regionalplanung, Politik und wichtigen Interessengruppen gehören können, die an der Verkehrsplanung oder der Planentwicklung beteiligt sind). Wenn Sie anschließend Ihre Antworten miteinander vergleichen, z.B. in einem gemeinsamen Workshop, können Sie wichtige Erkenntnisse für Ihre gemeinsame Planungspraxis gewinnen. 9 Monitoring und Evaluation Die SUMP-Selbsteinschätzung besteht aus acht Abschnitten, die auf den SUMP-Prinzipien basieren und grob der Ergebnisse Reihenfolge eines Planungsprozesses folgen. Je nach Planungskontext enthält das Tool 30 bis 45 Fragen. Wenn es von einer einzelnen Person mit autem Kenntnisstand ausfüllt wird sollte es nur 20 bis 30 Minuten in Anspruch nehmen. Für die Verwendung im Workshop-Format sollten Sie 1,5 bis 2 Stunden einplanen, um ausreichend Zeit für den Austausch innerhalb der Gruppe zu haben. Start der SUMP-Selbsteinschätzung Alle in dieser Umfrage erhobenen Daten werden streng vertraulich behandelt. In keinem Fall werden wir die Ergebnisse

nutzen um Ihre Ergebnisse mit Kolleginnen und Kollegen für einen Workshop zu teilen.

einzelner Städte veröffentlichen, oder einzelne Städte in Veröffentlichungen nennen (<u>weitere Informationen zur</u> <u>Datennutzung</u>). Durch Ihren **persönlichen Code** haben nur Sie Zugang zu Ihren Ergebnissen, können diesen aber auch



Impressum



#### Who can use it?



## **Tailor-made sets of questions** for different starting points:

- cities with / without a SUMP
- cities
- functional urban areas

#### Can be used by the transport planner(s) of every city:

- To assess general mobility planning processes
- To give guidance before / during SUMP development
- To assess SUMP quality after completion

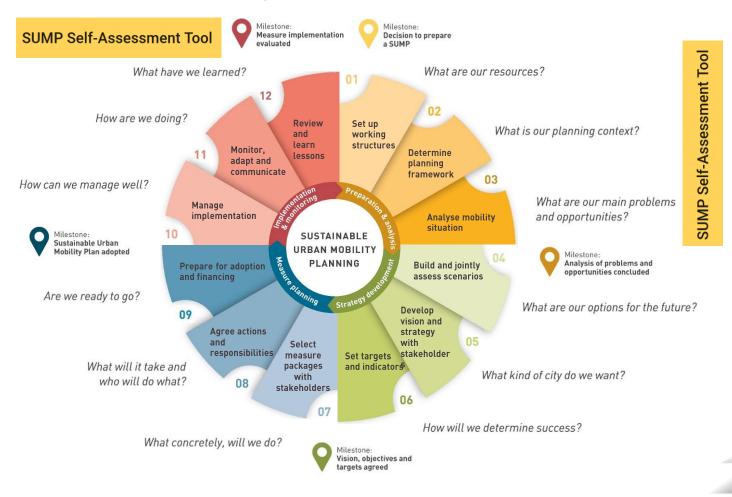








#### THE SUMP CYCLE, SECOND EDITION





# Added value and potential future usage of the tool in central Europe



Use tool to make transport systems **ready for European funding** 



Avoid heavy infrastructure investments but assist to develop mobility & PT services

→ Develop a workshop format for municipalities, PT authorities and FUA's





#### What's next?



- The tool will soon be available in all Central European languages: German, Croatian, Czech/ Slovak, Hungarian, Italian, Polish & Slovenian
- SUMP Self-Assessment Tool
- And also in English, Bulgarian, French, Romanian, Spanish & Greek









Financiado por la Unión Europea





#### What's next?



- 30-45 questions
- Feedback by SUMP principles
- Recommended steps, examples and tools from SUMP Guidelines
- Alone or in workshop

0%-33%: More efforts are needed!

Assess current and future performance
100%
80%
60%
Define a long-term vision and a clear implem
40%
20%
Arrange for monitoring and evaluation
Cooperate across institutional boundaries



Plan for sustainable
mobility in the "functional urban area"

The core goal of sustainable urban mobility planning is to improve accessibility and provide high-quality, safe and clean mobility for the entire 'functional urban area'. Therefore, planning activities should consider this integrated area of daily flows of people and goods, rather than a municipal administrative area.

You're on the right path! Your responses indicate some degree of planning coordination with neighbouring municipalities. However, there is room for improvement to better harmonize activities, which would help you to address the needs in your 'functional urban area' more effectively.

Useful approaches to further improve cooperation could be to:

- Build on existing contacts with transport planners from surrounding municipalities and establish a format for regular meetings. For
  example, using this Self-Assessment as a structure for discussions at the first meeting can help to identify problems that require joint
  actions
- If there is good cooperation on some topic, expand it to other areas of common interest (e.g. leveraging contacts from a common
  planning process for Park&Ride facilities to start a joint project to build inter-municipal bicycle highways or improve commuter train
  connections). Focus on proven solutions of manageable size that benefit all municipalities.
- Formalise existing cooperation to consolidate it (e.g. turning agreements on parking planning into an official political committee that
  meets regularly to decide about parking policies in the functional urban area).
- Exploit the potential of data sharing. Exchange or jointly collect data that is relevant for several municipalities (e.g. on commuter flows), which helps to save costs and improve data quality.

#### Good practices:

- Basel, Switzerland: Cross-border planning cooperation for a trinational agglomeration
- Grand Nancy, France: Metropolitan inter-municipal urban plan for housing and development
- Bologna, Italy: Metropolitan SUMP linking territorial, mobility and logistics planning
- Lille, France: Bi-annual political committee to steer parking policies on a metropolitan level
- Kassel, Germany: Synchronised development of municipal and regional SUMP

#### Recommended further readings:

- SUMP Guidelines (2nd ed.) Activity 2.1: Assess planning requirements and define geographic scope (based on 'functional urban area')
- Topic Guide: Sustainable urban mobility planning in metropolitan regions
- · Topic Guide: Sustainable urban mobility planning in small cities
- Topic Guide: Sustainable urban mobility planning in polycentric regions

#### Tools:

. OECD-EU definition, maps and shapefiles of functional urban areas in EU Member States





## Thank you!



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## **POLLS**



#### Poll 6:

Do you think that the SUMP Self-Assessment Tool can help Central European cities to plan SUMPs at functional urban

area level?







