



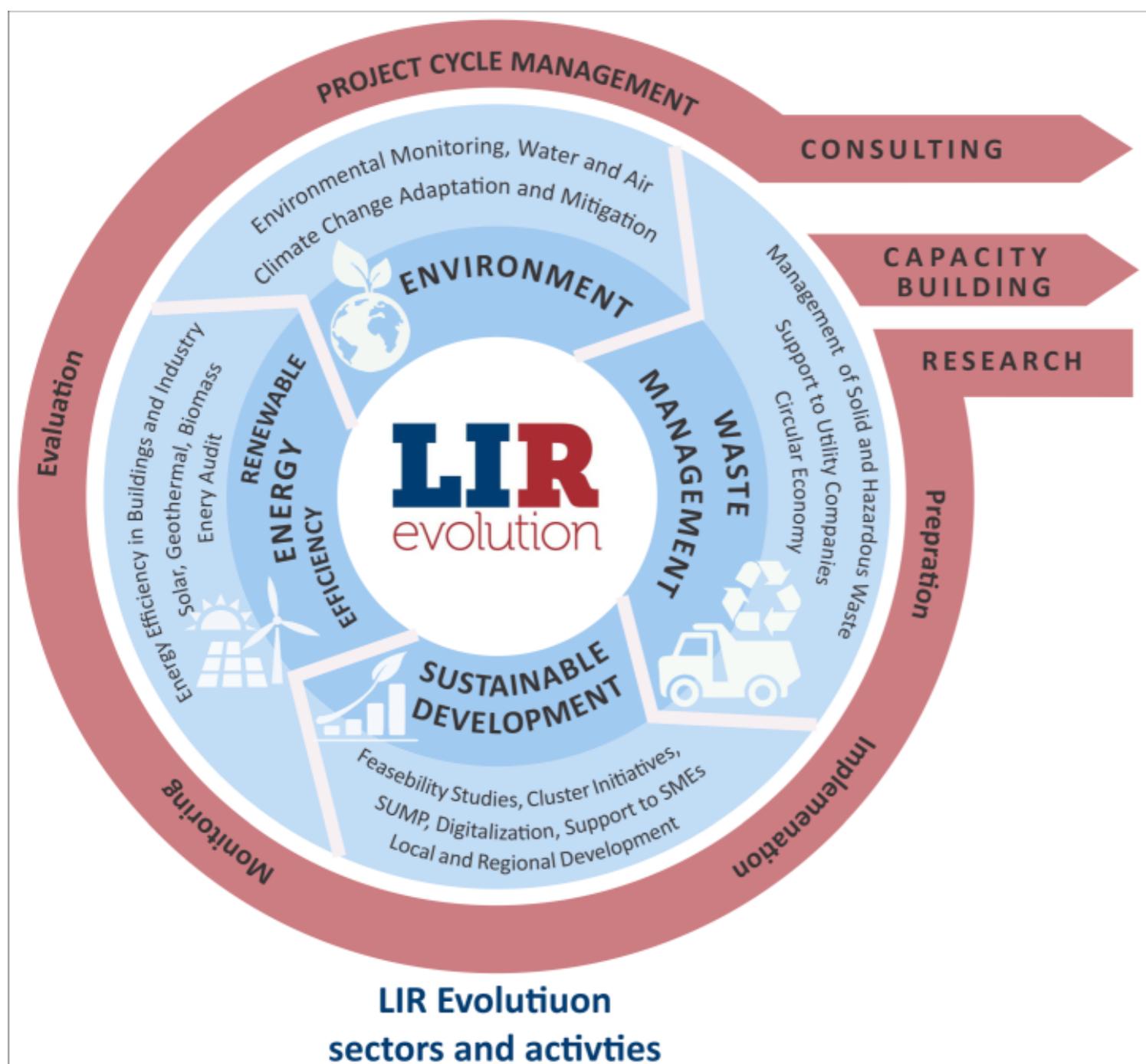
LIR Evolution

*“Sustainable mobility in BiH: SUMPs of
Banja Luka, Gradiška and Bijeljina”*

PROSPECT2030 replicant workshop on
"Sustainable transport"

LIR Evolution

is a development, consulting and research agency, qualified to work on different aspects of sustainable development including energy efficiency, renewable energy, economic development, environmental protection and management, waste management, sustainable mobility, circular economy and tourism.



Methodology for SUMP development

- Determining the current situation and defining problems (congestion, problems of public transport, length and width of roads, etc.)
- Defining the Mobility Scenario
- Harmonization and definitions of General Objectives
- Determining the Priority of action in relation to the set General Objectives
- Defining Indicators and their Target Values
- Determining the plan of activities, i.e. Measure to be implemented in order to achieve Priorities and Objectives
- Harmonization of the matrix of Measures and Target values, according to which the most common measures that contribute to a larger number of Target values are observed
- Determining Responsibility and Funding for set Measures



CHESTNUT - COMPREHENSIVE ELABORATION OF STRATEGIC PLANS FOR SUSTAINABLE URBAN TRANSPORT Danube Transnational program

- **Sustainable Urban Mobility Plan Banja Luka
2020-2030**



Partnership CHESTNUT project

1. Velenje (SI)
2. Regional Development Agency Koper (SI)
3. Weiz (AT)
4. Development Agency of Dubrovnik (HR)
5. Development Agency of Zadar (HR)
6. Prague 9 (CZ)
7. Pannonian Business Network / Sarvar (HU)
8. Budapest 14 (HU)
9. Odorheiu Secuiesc (RO)
10. Regional Development Agency / Alba Iulia (RO)
11. Dimitrovgrad (BG)
12. LIR Evolution / Banja Luka (BH)
13. Vienna University of Technology (AT)



Start month: **December 2016**

End month: **May 2019**

Drafting 12 SUMPs



Pilot actions

Bike Sharing

- Velenje
- Dimitrovgrad
- Prague 9
- Zadar

e-Mobility

- Weiz
- Dubrovnik
- PPN Sarvar

Multimodal Transports

- Koper
- Alba Iulia
- Banja Luka

Infrastructure cycling paths

- Odereiu Secuiesc
- Budapest 14

SUMP City of Banja Luka

VISION

"An efficient, safe and sustainable transport for all citizens of Banja Luka"

Overarching goals:

**ACTIVE MOBILITY AND CAR
INDEPENDENT LIFESTYLE**

ECO AND SAFE CITY

EFFICIENT CITY



Priorities

- To increase public transport usage – first choice for movement in the city
- To increase usage of bicycles
- To increase number of pedestrians
- To increase the level of traffic safety,
- To reduce the emissions of pollutants,
- To reduce the level of noise

SUMP City of Banja Luka

FIRST OVERARCHING GOAL: Active mobility and car independent lifestyle		
Indicator	Value in present state	Target value
Number of trips by public transport	10%	35%
Number of individual tickets sold	3.600.000/year	5.500.000/year
Number of trips by bicycle	1,5%	8%
Walking	30%	40%
Number of subsidized tickets sold (children, elderly, persons with special needs)	150.000/year	180.000/year

SUMP City of Banja Luka

SECOND OVERARCHING GOAL: Eco and safe city

Indicator	Value in present state	Target value
CO ₂ emissions in public transport	68.500 t	35000 t
Exceeding the allowed level of harmful gases	-	0
Exceeding the allowed noise level	25 days	0

THIRD OVERARCHING GOAL: Efficient city

Indicator	Value in present state	Target value
Number of tourists and visitors	87.127	Increase 5% /year
Creating and updating the transport model	0	1
Losses during trips	No data	Level of servise on intersections: D
Average trip duration	25 mins	15 mins

SUMP Banja Luka Measures (1/2)

- Development of Urban plan
- Development of 5 calm traffic zones up to 2028
- Specialized website and printed publications for information in public transport
- Database
- Measures to increase the public transport share in the traffic distribution
- Construction of a P&R (park and ride) system by 2023
- Parking policy (regime and tariffs) with the aim of improving the accessibility of the city's central zone
- Developing the cycling development projects up to 2021
- Construction of 5 multimodal bus stops by 2024
- A specialized web site for bike services

SUMP Banja Luka Measures (2/2)

- Increasing the number of bike sharing stations from 4 to 14, until 2025
- Increasing the number of cycling trails from 14 km to 30 km
- Restricting vehicle speed at 30 km/h in primarily residential areas
- Reconstruction of the central pedestrian zone
- Introduction of a new concept of public space use in residential areas
- Removing obstacles on pedestrian paths in the central zone for persons with disabilities by 2022
- Set up a display indicating free parking lots in the central zone by 2022
- The Traffic Management Center
- Increasing funds for e-mobility
- Increase in the number of electrical vehicle stations from 2 to 3 to 2023

SMILE - FirSt and last Mile Inter-modal mobiLiTy in congested urban arEas of Adrion Region

Adriatic Ionian Program

- **Sustainable Urban Mobility Plan 2020-2030**
- **Smart Mobility Plan**



First-Mile

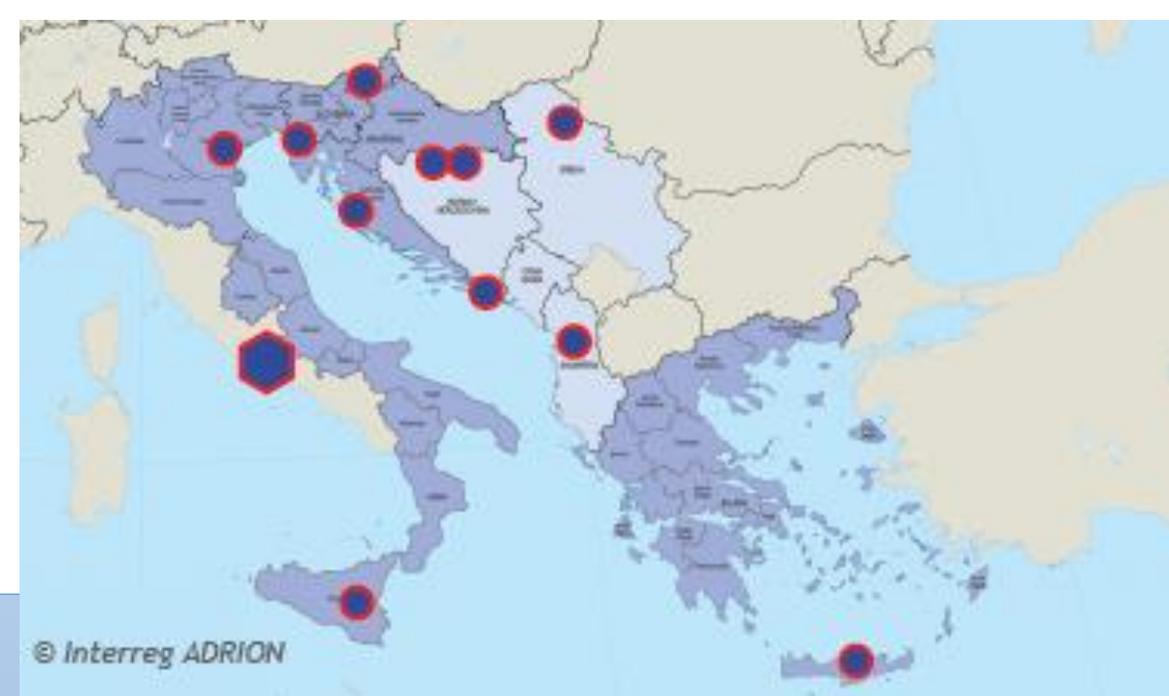
Last-Mile



Project SMILE

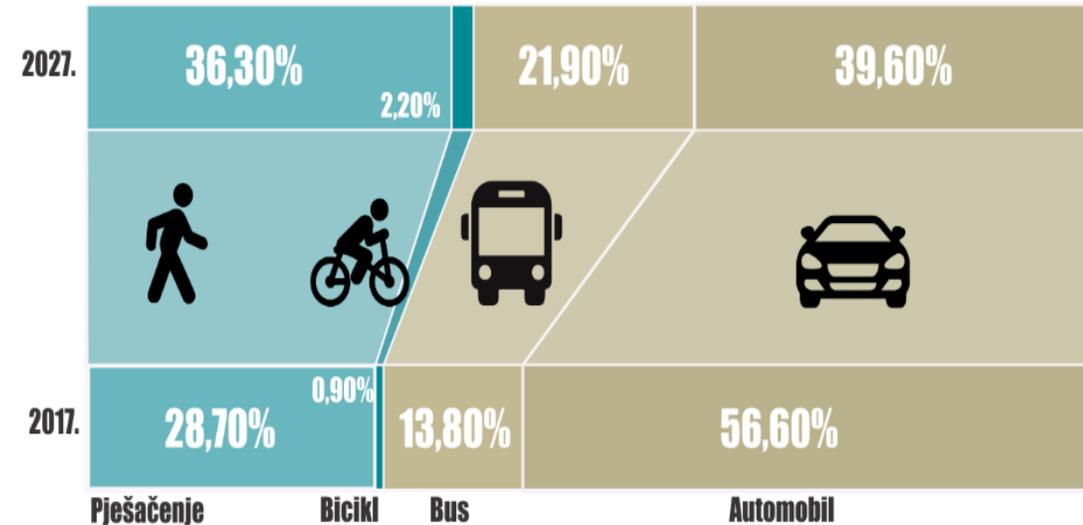
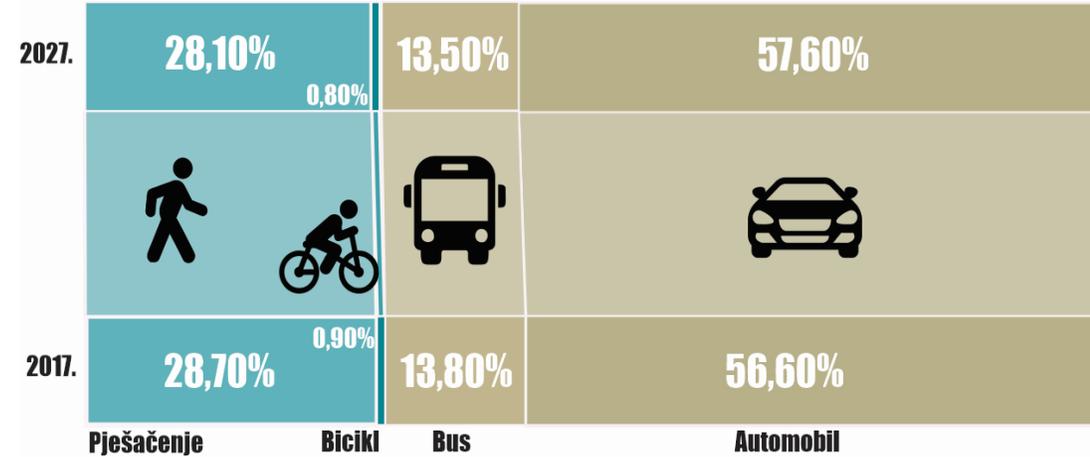
- Start date: 01.01.2018
- End date: 31.12.2020
- Duration: 36 months

1. **Regional Development Centre of Koper/Capodistria (LP) – SI**
2. School Center Velenje (SI)
3. Free Municipal Consortium of Ragusa - formerly Regional Province of Ragusa (IT)
4. IUAV University of Venice (IT)
5. Zadar County Development Agency (HR)
6. Dura/City of Dubrovnik (HR)
7. Municipality of Hersonisos (GR)
8. Regional Agency for Socio – Economic Development – Banat Ltd (Serb)
9. Municipality of Tirana (ALB)
10. Agency for economic development of City of Prijedor “PREDA-PD” (BiH)
11. City of Gradiška (BiH)
12. **Associated partner:** Ministry of Infrastructure and Transport (IT)



SUMP Gradiška Mobility scenarios

- „Business-as-usual“
- „Encouraging "active" modes of transport“
- „Make public transportation more attractive“
- A combination of transport incentive policies



SUMP City of Gradiška

Vision

- Gradiška - a city of sustainable mobility based on efficient, safe and environmentally friendly transport for all actors that contributes to economic development and health improvement.

SUMP Overall Goals:

- **Efficient and safe mobility** means changing the habits of the citizens of Gradiška in terms of mobility in order to encourage an increase in the number of trips on foot, bicycle and public transport
- **Ecologically safe and developed city**, refers to the reduction of risks and harmful consequences that are the result of motor traffic and traffic system, in order to increase the quality of life in Gradiška, safety and long-term sustainable development of the city.



SUMP City of Gradiška



Efficient and safe mobility (1 st goal)		
Indicator	Value in present state	Target value
Number of public transport trips	13,8%	20%
Average age of public vehicles	18,8 godina	12 years
Public transport	-	One line
Bicycle travels	0,9%	4%
Walking	28,7%	40%
Monthly tickets	20500	25000
Time losses	-	Min level of service „C“
Number of accidents	452	Accidents decrease by 50%
Development of transport master plan	-	1

SUMP City of Gradiška



Ecologically safe and developed city (2nd goal)

Indicator	Value in present state	Target value
Number of vehicles with EURO 5 standard or more	<20%	Increase for 3% annually
Level of harmful gasses	-	0
Noise level	-	0
Number of visitors and tourist	3665	Increase for 5% annually
Average time for traveling	25 min	5 min in urban area 15 min in rural area

SUMP City of Gradiška measures (1/2)

- Development of information systems to improve mobility
- Increased number of vehicles of the public transport
- Simplified access to public transport
- Projects for the development of bicycle transport
- Promotion of active mobility
- Developed "bike sharing" system
- Increased number of parking spaces for bicycles on private and public land
- Increasing the length of bicycle paths
- City development planning with the aim of reducing travel distances for residents
- Introduction of measures to slow down motor traffic
- Co-financing of a monthly ticket for vulnerable categories by the city administration



SUMP City of Gradiška measures (2/2)

- Bus line to the airport
- Construction of a "park & ride" system
- Improved traffic management
- Improved street surface quality - attractive design and comfort
- Increasing the space for public transport, bicycles and pedestrian zones
- Increase the number of vehicles that use environmentally friendly fuels
- Increased funding for e-mobility
- Increasing the number of non-noise generating vehicles
- Reducing speed limits
- Linking Gradiška to the EuroVelo route
- Plan the policy of parking zones and tariffs in the urban area
- Implementation of "concept for all" and "universal design" design in street creation



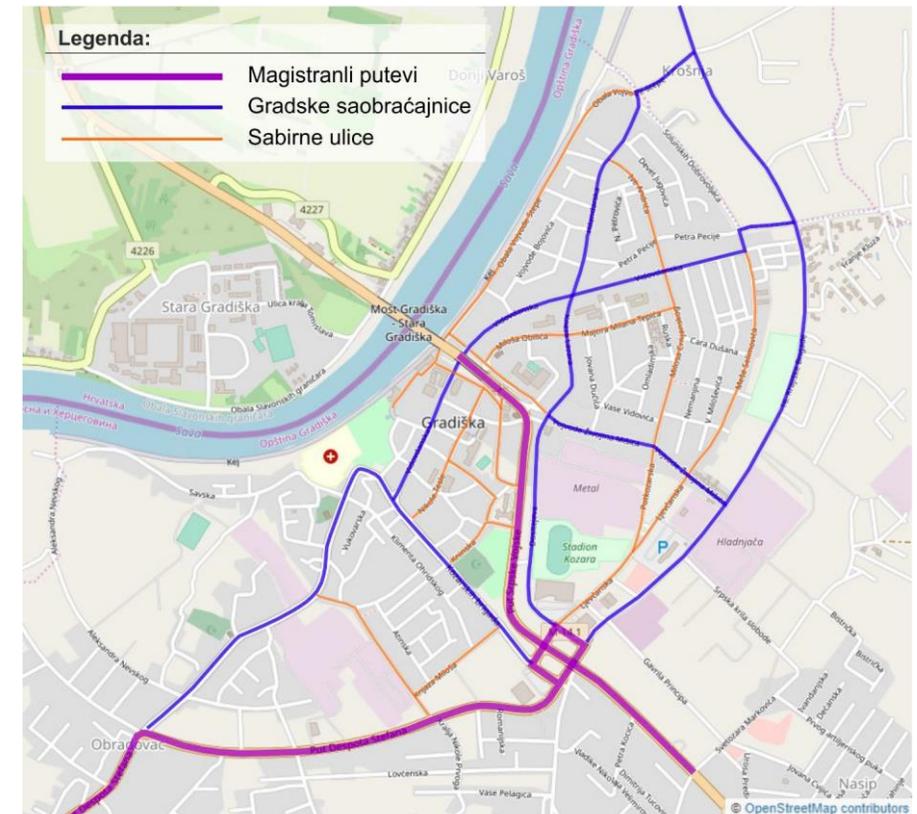
Smart Mobility Plan of City of Gradiška



As part of additional activities on the SMILE project, the City of Gradiška decided to develop a "Smart" Mobility Plan based on the model of some other cities.

Developed with support of Faculty of Technical sciences, Department for traffic Novi Sad, Serbia.

The Smart Mobility Plan is a step beyond the creation of the SUMP and implies the creation of a clear action plan for the development of the transport and mobile system of the City of Gradiška in accordance with the principles of sustainability and taking into account technical, institutional, regulatory, financial and environmental aspects.



Sustainable Urban Mobility plan for City of Bijeljina

The participants of GIZ SUMP Boot Camp organized in Podgorica, Montenegro in late May, 2019, were selected in cooperation with *Associations of cities and municipalities* from five partner countries (Albania, Bosnia and Herzegovina, Montenegro, North Macedonia, and Serbia), based on their interest in advancing their knowledge in the field of urban mobility and becoming part of the expert pool.

- GIZ ORF-EE helped creation of regional expert pool to support development of SUMPs.
- In Bosnia & Herzegovina – GIZ supported development of SUMPs for cities of Bijeljina and Sarajevo, municipalities Zavidovići and Travnik.

Sustainable Urban Mobility plan for City of Bijeljina

SUMP for City of Bijeljina was finalized in July 2020, period 2019-2025

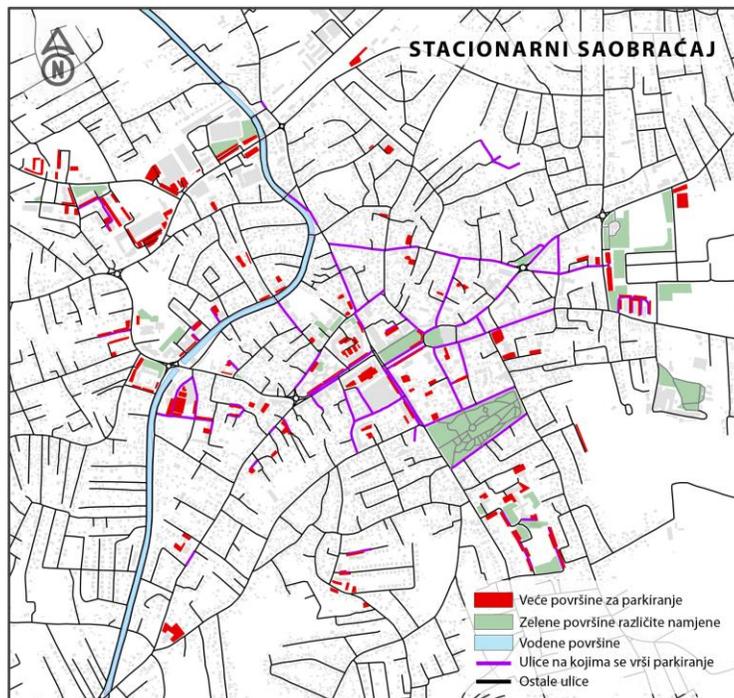
City supported with its staff creating Coordination group, Association of cities and municipalities of RS and GIZ provided administrative support, while experts developed the SUMP document.

- Regular meetings
- Citizens, NGOs, companies, and utility services engaged
- On-the-spot meetings and Online meetings (Covid)
- Citizens participated – questionnaires 1022 (cca 10% of habitants)



Sustainable Urban Mobility plan for City of Bijeljina

VISION - BIJELJINA - a city tailored to each person, open to the application of innovations in sustainable mobility and the development of non-motorized and low-carbon transport. A city of healthy and safe living and movement that provides all citizens different mobility opportunities according to their abilities and needs.



GOALS:

- SAFE, INCLUSIVE AND FUNCTIONAL CITY MADE TO MATCH EVERY PERSON
- A PLACE OF HEALTHY AND COMFORTABLE LIVING
- SMART SOLUTIONS AND INNOVATION IN THE FUNCTION OF SUSTAINABLE DEVELOPMENT

Sustainable Urban Mobility plan for City of Bijeljina

Measures were developed according to Strategic pillars:

INTEGRATED SPATIAL PLANNING AND URBAN MOBILITY

NON-MOTORIZED TRAFFIC - PEDESTRIAN TRAFFIC

NON-MOTORIZED TRAFFIC - BICYCLE TRAFFIC

PUBLIC CITY TRANSPORT

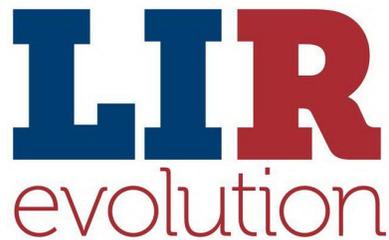
USE OF PERSONAL CARS

CITY LOGISTICS AND FREIGHT TRAFFIC

In total there are 23 measures to be implemented in 5 year period.



THANK YOU



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