

D.T2.1.2 – TRIBUTE Action Plans_City of Sarajevo

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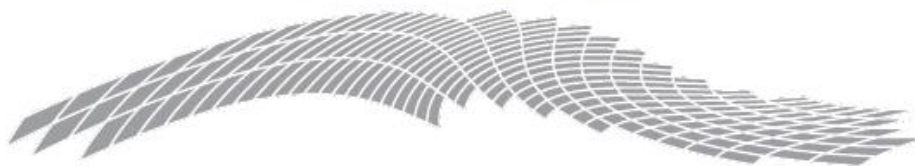
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TRIBUTE



PP8 – Sarajevo

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Author(s)	Nermina Suljevic, Naida Omeragic, Lejla Beslagic, Hamid Mehinovic, Osman Lindov
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0. INTRODUCTION

The WP T2, called the *Identification of Action Plans supporting the implementation of innovative and sustainable mobility measures*, englobes the Action Plan development (Act.T2.1) and the Pilot Action implementation (Act. T2.2). Regarding the Action Plan development (Act.T2.1), this document accounts specifically for the ***Deliverable T2.1.2_Tribute Action Plan_PP8-Sarajevo.***

The Action Plan of the PP8-Sarajevo portrays a reflection of a short-medium term time frame and vision, establishing a series of actions and measures to for a visible and different concept of mobility through five basic components, such as: infrastructure, electromobility, auxiliary services, renewable energy sources and digital solutions. In this way, we want to contribute to reducing the negative effects of traffic on citizens and the environment, encourage the transformation of urban mobility and direct the way of thinking towards sustainable development.

The need for more sustainable and integrative solutions in sectors related to urban mobility is generally recognized. At the European level, these solutions are gaining increasing recognition and importance.

Bearing in mind that the city of Sarajevo and the Canton of Sarajevo, through the Sustainable Urban Mobility Plan, entered the phase of satisfaction for a better quality of life, there was a need to upgrade such a strategic plan. New approaches to urban mobility planning include encouraging the transition to cleaner and more sustainable modes of transport, such as walking, cycling, public transport, new patterns of car use and ownership, the use of new technologies, and the adoption of new concepts of sustainable urban logistics.

The Mobility Islands concept depicts an appealing location/facility that provides people with environmentally friendly and functional modes of transportation. It combines infrastructure and

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services in one location, resulting in a dependable model for a new method of getting about town that saves money, is healthier, and boosts participation in green city mobility.

The Action Plan of PP8-Sarajevo intends to guide competent local administrations and pique the city's political interest in how various smart city solutions, via the execution of specific pilot actions with decreased risk and better accessibility, may provide new benefits to inhabitants' quality of life.

These actions should be viewed as interventions aimed at encouraging more sustainable, environmentally friendly mobility by providing services such as shared use of electric vehicles (cars, bicycles, scooters), clean energy production (solar, wind), electric charging stations/infrastructure, access to public transportation, and various amenities (café, smart benches, storage lockers, toilets, information points, and so on), all of which are digitally supported.

The principles are based on experiences acquired from the City of Milan, which is one of the leading cities in Sharing Cities, with over 40 mobility islands at various phases of the life cycle process. Local goals and demand-oriented measures are established based on these methods for the preparation of Mobility Islands action plans to boost the efficacy and acceptance of shared mobility policy.

This document is based in a documentational state of the art research (Annex 1) to understand key projects and plans within the city of Sarajevo that contribute to enhance alternative mobility modes at a local level, as defined in the SUMP (Sustainable Urban Mobility Plan of City of Sarajevo and Canton Sarajevo) along with the learnings from the PP8-Sarajevo pilot action deployment phase. The following figure illustrates the Action Plan framework and base elements:

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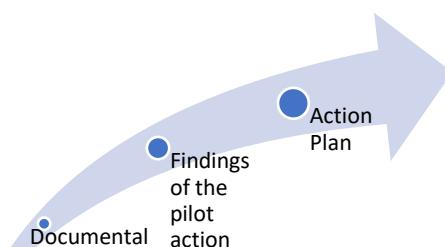


Figure 1 Action plan framework elements

This document describes practical actions and measures to aim at implementing the mobility island concept in the cities within the Adriatic-Ionian region or elsewhere, that are interested in facing and tackling similar challenges sustainable urban mobility. The action plan, object of this document, is divided into four parts as follows: 1. Mobility Islands as an innovative approach to sustainable urban mobility; 2. Selection and definition of the measures and actions; 3. Protocol to assure the consisting implementation of the selected measures; and 4. Task force for the implementation of the action plan.

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1. Mobility Islands as an innovative approach to sustainable urban mobility

The pressing need for innovative and sustainable solutions in the realm of urban mobility is gaining recognition both at the local and European levels. In the context of the city of Sarajevo and the Canton of Sarajevo, the Sustainable Urban Mobility Plan (SUMP) signals a commitment to enhancing residents' quality of life. To further elevate this strategic plan, Mobility Islands have emerged as a dynamic concept, promoting cleaner and more sustainable modes of transportation, technological advancements, and a shift towards sustainable urban logistics. In the ever-evolving urban landscape, characterized by new technologies and changing socioeconomic and demographic factors, it becomes imperative to find efficient solutions and mobility services that align with evolving travel behaviors and needs. The SUMP envisions Sarajevo as an innovative hub for sustainable urban mobility, emphasizing safety, comfort, clean air, and diverse, accessible, and affordable mobility options.

The defined vision in the Sustainable Urban Mobility Plan (SUMP) is: **Sarajevo, open to innovations in sustainable urban mobility, a place of safe and comfortable living, clean air and provides all its citizens with various mobility opportunities, accessible and affordable zero and low emission public transport and wide opportunities for intensive development of non-motorized movement.**

This vision hinges on the principles of "sharing" and "smart" technology, fostering a collaborative smart city ecosystem that prioritizes comfort, attractiveness, and departmental efficiency.

Today's urban transportation requirements are as follows:

- addressing the challenges of air pollution and noise pollution in urban areas,

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- redesigning mobility models, establishing new infrastructure that supports innovative mobility,
- constant restructuring of the public sector as part of sustainable urban development, and
- collaboration of all city actors in the adoption of new mobility practices.

It is intended to develop creative mobility solutions that encourage public transportation and active modes of transportation, as well as a smart, environmentally friendly method of mobility, while simultaneously lowering individual transportation and automobile ownership. To enhance sustainable transportation, comprehensive action plans should be developed using new methodologies and instruments.

The way the city operates daily is rapidly changing. Ambitions for a green and appropriate recovery emphasize this – at least in cities that are or aim to be progressive. Urban mobility contributes to the city's potential to attract companies and hence employment, to offer a clean and attractive environment, to favorably influence lifestyles, and to give equitable possibilities for everyone. It is consequently critical to understand how to appropriately manage the subsequent shift.

A century of heavy reliance on fossil fuels for transportation is coming to an end. Cities have spent considerably in the concrete infrastructure that dominates the urban landscape throughout their development: highways full of automobiles that all too frequently segregate people, unsightly parking lots, etc. The trend of stopping investments in obsolete paradigms and beginning the transition to new "softer" infrastructures and urban mobility services that provide a better user experience is being supported in Europe and throughout the globe.

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The next most essential phase in the evolution of urban mobility is to provide inexpensive, green urban transit, with mobility islands as the focal point.

The following is a comprehensive collection of terms and definitions related to mobility islands.

Within this section, it is essential to grasp the concept of Mobility Islands. These are physical locations meticulously designed to cater to the specific needs of their surrounding communities. Their unique "Lego" approach allows for the integration of various physical elements, including e-scooters, e-bikes, e-vehicles, as well as general services such as cafes, smart solar benches, green spaces, and storage lockers, which are tailored to suit the site's requirements. Mobility Islands are not static but flexible, capable of adapting to evolving community needs. They encompass a diverse range of mobility modes, making the city more accessible and structurally appealing, ultimately working towards the vision of a "5-minute city." This vision represents the cornerstone upon which the future of urban transportation is constructed. Additionally, terms such as "smart mobility," "shared mobility," and "Sustainable Urban Mobility Plans (SUMP)" are integral components of Mobility Islands, as they underpin the philosophy of cleaner, more efficient, and more sustainable urban transportation. The growing demand for these concepts stems from the escalating challenges posed by traffic congestion, pollution, and time wastage, urging cities to explore more sustainable solutions.

A **mobility island** is a physical location that satisfies the specific requirements of the community in which it is situated. The 'Lego' concept of being able to install a variety of physical items linked to mobility (e-scooters, e-bikes, e-vehicles) or more general services (café, smart solar benches, green environment, storage lockers, etc.) that are appropriate for the site. It also allows for simple extension as the demands of the environment change. Its practicality and variety of mobility modes, increased accessibility across the city, and beautiful architecture will allow the establishment of a "5-minute city." The "5-minute city" goal implies the availability

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of shared electric transportation within a 5-minute walk of anything in the city. This should become the fundamental basis around which the future of urban transportation is built.

Smart Mobility is a revolutionary way of thinking about how we move that is greener, safer, and more efficient. It refers to using alternative means of transportation in addition to or instead of owning a conventionally fueled personal automobile. Ridesharing, automobile sharing, public transit, walking, bicycling, and other modes of smart mobility exist. The demand for smart mobility has developed because of increased traffic congestion and its accompanying negative effects, such as pollution, deaths, and wasted commute time.

Shared Mobility is a transportation service that refers to non-owned modes of transportation (car, bicycle, scooter, etc.) that the public may hire for short-term journeys on an hourly or daily basis.

Transportation Demand Management (TDM), often known as mobility management, is a broad term for numerous tactics that improve the efficiency of the transportation system. It prioritizes the movement of people and commodities above the movement of motor vehicles, and so encourages more efficient means of transportation (such as walking, cycling, carpooling, public transportation, and telecommuting), particularly in crowded areas. TDM encompasses a variety of initiatives, including street space redistribution, parking, broader regulation, pricing, and taxes.

Sustainable Urban Mobility Plans - SUMP are, according to the European Commission, a strategic plan that continues existing planning practice while considering integration, participation, and evaluation principles to meet the mobility needs of city dwellers now and in the future.

This new notion can 'trigger' changes by providing a visible and significantly distinct, as well as innovative concept of sustainable urban mobility through **Mobility Islands**. Therefore, the

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Action Plan of PP8-Sarajevo contributes to the implementation of identified measures in the SUMP, more specifically, it contributes to the following SUMP indicators:

- Distance to the access points for public urban transport and non-motorized traffic,
- Air pollutants concentration,
- CO2 traffic emissions,
- Share of low-carbon vehicles in the public urban transport (PUT),
- Number of kilometers traveled by the PUT operators,
- **Number of electric cars charging stations,**
- Number of transport and movement connection points (hubs),
- Number of educational and promotional activities for all ages of the population, and
- Number of innovative projects supported and implemented in urban mobility and sustainable development.

By analyzing the Sarajevo SUMP, we can conclude that the city of Sarajevo and the Action Plan of PP8-Sarajevo contributes to the following measures and activities:

- **Regular participation in the EU projects in the field of sustainable mobility** – PP8-Sarajevo participates in the TRIBUTE project with them aim of integrating innovative actions and encourage improved sustainable urban mobility.
- **Support to innovative solutions in sustainable development and urban mobility**
 - the Action Plan of PP8-Sarajevo introduced innovative solutions through its pilot actions – Mobility Islands.

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- **Establishing a cycling infrastructure near the public transport stops** – the two pilot actions provide
- **Preparing an elaborate study on acceptable locations for e-charging stations** - the Action Plan of PP8-Sarajevo identified 5 acceptable locations for e-charging stations.

Fostering the transferability of the results of a pilot action within Bosnia and Herzegovina is essential for scaling up the impact and ensuring that the lessons learned can be applied to other regions or cities. A promo-video is intended to be made for the purpose of showcasing the benefits/results of the pilot action with the aim of fostering transferability and hopefully implementation of similar projects in other communities throughout the country. The following specific contributions to the implementation are suggested, grouped by the entity that should develop them, starting from the actions that the Administration should develop:

City/Ministries:

- Develop and enforce policies that incentivize the use of sustainable transportation modes within city limits.
- Allocate funding for the creation of dedicated lanes and infrastructure to support non-motorized transportation.
- Collaborate with private companies to integrate Mobility Islands into the urban landscape, ensuring seamless connectivity with existing public transportation.

Public/Private Companies:

- Invest in the development and deployment of electric vehicle charging stations in strategic locations, promoting the use of low-emission vehicles.

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- Collaborate with city authorities to establish Mobility Islands, integrating shared electric transportation, bike-sharing, and pedestrian-friendly amenities.
- Introduce corporate mobility programs encouraging employees to use sustainable modes of transportation, such as public transit or carpooling.

NGOs:

- Conduct public awareness campaigns on the benefits of sustainable urban mobility, emphasizing the positive environmental impact and improved quality of life.
- Advocate for the integration of Mobility Islands into city planning and development projects through engagement with local communities and policymakers.
- Provide educational programs and workshops to empower citizens with the knowledge and skills needed to embrace and use sustainable transportation options effectively.

Citizens:

- Participate in community-driven initiatives that promote sustainable mobility, such as carpooling programs and community bike-sharing.
- Advocate for pedestrian-friendly urban planning and infrastructure improvements, ensuring the safety and accessibility of non-motorized transportation.
- Stay informed about local policies and initiatives related to sustainable urban mobility and actively engage with relevant forums and discussions.

Educational Institutions:

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- Incorporate sustainable mobility education into school curricula to cultivate a culture of awareness and responsibility from an early age.
- Collaborate with local transportation authorities to provide students with discounted or free access to public transportation options.
- Establish partnerships with NGOs and private companies to organize events and competitions that promote sustainable transportation choices among students.

Cities must transform their mobile infrastructure, services, and societal habits related to movement within and around them. The packaging aims to connect three things that are usually not addressed collectively in cities:

- Deep understanding of social desires and needs (community manager's world)
- Technical approaches that could solve these problems (engineering world)
- Business models and financing options that can be used to support implementation (finance)

It seeks to encompass functionally common, interoperable component-based solutions for these needs. Being functionally common (as opposed to physically similar) avoids the typical concern of 'one-size-fits-all' solutions that cities often impose on the industry. This allows cities to adapt functionally common proven solutions to their unique context, akin to the 'Lego' principle.

The approach offers multiple advantages:

- Provides a platform for collaboration and capacity building in cities, along with the possibility of demand aggregation.

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- Enables faster decision-making and shortens the approval cycle (a typical public sector project, from idea to on-field change, takes 4.5 years – during which elections occur).
- Ensures more efficient use of scarce urban resources.
- Instills greater confidence in the solution (from the city, industry, and investors).
- Opens the market for cities.
- Provides an attractive market for the industry (including local small and medium enterprises).
- Attracts investment in projects of significant size.
- Reduces procurement costs through economies of scale.
- Improves the consistency and reliability of solutions.

These benefits are advantageous for all stakeholders: cities, industry, and investors, with the results ultimately being better for society and the environment. Mobility islands can be personalized and branded within the city to give them distinctiveness and strengthen specific aspects.

The text also outlines a step-by-step process for developing an effective mobility island strategy and a general approach to the establishment of mobility islands. The main steps for creating action plans for mobility islands include:

Step 1: Framework analysis

Step 2: Self-assessment

Step 3: Identification of relevant key stakeholders

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Step 4: Diagnosis of mobility islands and goal setting

Step 5: Development of scenarios and long-term visions

Step 6: Development of effective action for mobility islands.

2. Selection and definition of measures and actions

The aim of this step is the development of effective measures for active, smart mobility, and e-mobility to ensure the fulfillment of defined strategic goals within the concept of Mobility Islands. Action plans are typically defined as a sequence of steps that must be taken or actions that must be well-executed for the strategy to succeed. The purpose of an action plan is to clarify the resources needed to achieve the goal and formulate a timeline for the execution of specific tasks.

The selection of measures within the mobility concept (shared use of electric vehicles, clean energy production, electric charging stations, access to public transportation, various other amenities such as cafes, benches, lockers, toilets, information, digital support) should be based on discussions with key stakeholders, taking into account experiences from other places with similar policies, and ensuring value for money.

Based on the strategic pillars and measures, the action plan for Mobility Islands is defined. For activities and measures for which funding has not yet been secured, the preferred source of funding is listed as the first choice, and alternative possible sources are also provided. In the table summarizing the funding sources for the implementation of Mobility Islands, the preferred funding source is calculated.

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The proposed actions focus on strategic pillars that will provide citizens with the expected mobility and accessibility, a successful dynamic environment that promotes sustainable development and environmental protection. The strategic pillars represent actions that result in a healthier and safer environment for all residents and participants in the traffic-transportation system, emphasizing non-motorized movements and transport, pedestrians, cyclists, and e-mobility.

Strategic pillars of Mobility Islands

SUSTAINABLE SPATIAL PLANNING AND MOBILITY ISLANDS	ACTIVE MOBILITY (WALKING AND CYCLING) AND E-MOBILITY	CITY LOGISTICS
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Action plan with estimated costs for the implementation of actions within the pillar of Sustainable Spatial Planning and Mobility Islands.

Measure	Costs	Actions	Implement ation Period	The value of the activity	Responsi bility	Year and value of investment (KM)		Source of Financing
						2022	2023- 2025	
Implement ation of the Mobility Island plan	-	Regular quarterly meetings of interest groups in connection with the implementation of the Mobility Island and the integration of mobility content into the Cantonal	2023-2025	-	City Municipal ities Other Stakehol ders			

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		Development Strategy and all sectoral strategies (for City Administrations and Municipalities).						
		Preparation of a balanced budget for mobility with guaranteed minimum annual allocations for non-motorized mode of transport and e-mobility	2023-2025	-	City Municipalities			
		Revision of the Mobility Island Strategy after each year	2023-2024	25.000	City Municipalities		25.000	
		Evaluation of the success of the project and plan for its self-sustainability after its completion	2025	35.000	City Municipalities		35.000	
Monitoring and evaluation of the Mobility Island plan	40.000	Formation of a team for monitoring and evaluation of the Mobility Island with a precise description of tasks and responsibilities	2023-2025	-	M&E Team City Municipalities	-	-	
		Establishment of a system of regular data collection, monitoring and evaluation of selected indicators		30.000	M&E Team City	-	30.000	

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						Municipalities			
		Regular monitoring, evaluation and preparation of reports	2023	-	M&E Team	-			
		Publication of information on official websites of the City, municipalities, social profiles, as well as on electronic media	2023-2025	10.000	City Municipalities	-		10.000	
Contribution to the planning sector	50.000	Contribution to the preparation of technical instructions for traffic areas where practice does not offer good solutions: - improvement of parking standards for bicycles and e-mobility for new buildings within the new urban plan - improvement of technical infrastructure standards for pedestrians and	2023-2025	50.000	City Municipalities	-		50.000	

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		users of micromobility						
		- improvement of technical standards for installation of electric charging stations near buildings						
		Integrating the Mobility Island concept into the planning of other sectors and improving cooperation between sectors, with special attention to the spatial planning of compact urban structures of short destinations	2023	-	City Municipalities	-	-	
		Regular educational trainings by authorities and those responsible for traffic and related sectors in the City of Sarajevo and municipalities regarding new approaches and good monitoring of traffic and sustainable mobility	2023-2025	-	City Municipalities Traffic Control Center	-	-	
Integration of the		Inclusion of Mobility Island services in the process of introducing a unified	2023	-	Grad Općine	-	-	

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Island of Mobility		card for payment of other mobility services and parking and cultural centers						
		Creation of a mobile application and installation of interactive panels on the Mobility Islands that offer a map with information about other mobility services, parking and cultural centers in the area of the City of Sarajevo and real-time data on the capacities of the Mobility Islands	2023-2025	???	City Municipalities	-	???	
Public participation and promotion of the achievements of the Island of Mobility	25.000	<p>Development and implementation of a plan for cooperation with the public:</p> <ul style="list-style-type: none"> - organizing meetings, public debates, workshops related to Mobility Islands and implementation of measures, - the annual organization of the European Mobility Week to promote the achievements of the Mobility 	2023-2025	25.000	City Municipalities Traffic Control Center	-	25.000	

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		Island and the implementation of measures.							
Promotion, raising awareness of Mobility Islands and education	50.000	Educational programs on the Mobility Island concept and security measures	2023	30.000	City Municipalities Traffic Control Center	10.000	20.000		
		Creation of a campaign plan and consultation topics on multimodal mobility	2023-2024	10.000	City Municipalities	-	10.000		
		Creating a billboard on sustainable urban mobility with the locations of the Mobility Islands	2023-2024	10.000	City	-	10.000		
Establishing a safe traffic infrastructure at the locations of the Mobility Island		Strengthening of inspection activities at the locations of the Island of Mobility	2023	-	City	-	-		
		Activities for the regular maintenance of the Island of Mobility	2023	-	City	-	-		

Action plan with estimated costs for the implementation of actions within the pillar Active mobility (walking and cycling) and e-mobility.

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Measure	Costs	Actions	Implementation Period	The value of the activity	Responsibility	Year and value of investment (KM)		Source of Financing
						2022	2023 - 2025	
Ensuring adequate space for Mobility Islands		Construction of Mobility Island facilities	2023	????	City Municipalities	-	????	
		Connecting the Mobility Island with other forms of mobility	2023-2024	-	City Municipalities	-	-	
		Increasing user safety through adequate lighting systems	2023					
		Installation of security cameras	2023	????	City	-	????	
		Branding of the Island of Mobility	2023	???	Municipalities	-	????	
Provision of adequate equipment (charging stations) for charging electric vehicles		Installation of charging stations for e-mobiles and e-vehicles at all locations of the Mobility Island	2023	50.000	Municipalities	-	50.000	
		Installation of solar panels on the facilities of the Mobility Islands for the production of electricity connected to the filling stations	2023	20.000	Municipalities	-	20.000	

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Creating a sharing platform	50.000	Informing citizens about the existence and way of using the platform (promotion)	2023	-	City Municipalities	-	-	
		Establishment of a sharing system	2023-2024	50.000	City	-	50.000	
Promotion and awareness raising among citizens	80.000	Establishment of a public transport system with small non-motorized and zero-emission electric vehicles at all locations of the Mobility Island	2023-2025	50.000	City Municipalities	-	50.000	
		Establishment of a plan and program of promotional campaigns on the advantages of non-motorized movement	2023-2025	15.000	City Municipalities	-	15.000	
		Organizing events that promote cycling and e-mobility.	2023-2025	15.000	City Municipalities	-	15.000	
Development of improved safety standards for non-motorized and electric vehicles	5.000	Contribution to the innovation of instructions for design, construction and arrangement of surfaces for non-motorized vehicles according to EU standards and guidelines	2023	5.000	City Municipalities	-	5.000	
Safer non-motorized and		Initiate compliance with EU standards for non-	2023	-	City	-	-	

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e-vehicles in the area of the City of Sarajevo		motorized and e-vehicles						
		Initiate legal regulations for more adequate service for non-motorized and e-vehicles	2023	-	City	-	-	
		Application of smart technology to improve safety - sensors on vehicles and tools that monitor the movement and speed of non-motorized and e-vehicles	2023-2025		City Municipalities	-		
Assessment of urban space with defined new locations for Mobility Islands	20.000	Preparation of the Elaboration of the new locations of the Mobility Island	2025	-	City Municipalities Druge interesne grupe	20.000	-	

Action plan with estimated costs for the implementation of actions within the City Logistics pillar

Measure	Costs	Actions	Implementation Period	The value of the activity	Responsibility	Year and value of investment (KM)		Source of Financing
						2022	2023 - 2025	
Planning and construction of	20.000	Installation of mini-lockers in the facilities of the Island of	2023	20.000	City	-	20.000	

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mini logistics terminals		Mobility for picking up goods purchased online			Municipalities			
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ADOPTION OF MOBILITY ISLAND ACTION PLANS

Action plans for mobility islands will summarize the results of all the above steps. After the final check, the representatives should formally adopt the action plan at the municipality/city level.

It is also important to ensure that the plan is widely accepted among stakeholders and citizens. To ensure that previous agreements properly reflect the draft plan, they need to be reviewed internally and by important external stakeholders, including external reviewers.

The format of adopting action plans and its circumstances will depend on the national/local regulatory framework and administrative structure. In general, the following should be achieved:

- The bodies responsible for developing actions and budgets should also adopt the action plan, ensuring compliance with national/local regulations regarding its adoption and partly with the requirements of the sustainable urban mobility plans of the City of Sarajevo.
- It is necessary to assess the action plans regarding the procedural requirements and ensure that they are in line with the EC/national/regional/local regulatory framework, the TRIBUTE project framework, the smart cities framework and the mobility planning framework.
- The official adoption of the mobility island action plan at the municipal/city level is an important step.

As a continuation of this step, it is necessary to inform and involve stakeholders (associate meetings) and citizens to ensure broad ownership of the plan. Stakeholders and citizens should have the feeling that this is "their" plan, which aims to improve mobility and quality of life. Before the action plan is presented to the public, it needs to be updated and harmonized based on the results of the pilot actions.

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3. Bottom-up approach to implement this action plan

In the extensive exploration of the implementation of Mobility Islands in Sarajevo, it becomes evident that this initiative signifies a transformative and innovative approach to sustainable urban mobility. The vision of creating a city characterized by clean air, safe and comfortable living, and an array of affordable, low-emission public transport options, underpinned by the principles of "sharing" and "smart" technology, is not merely aspirational but backed by a comprehensive action plan. The challenges posed by air pollution, changing mobility models, and the need for collaboration among all city actors are being met with creative and sustainable solutions that prioritize public transportation and eco-friendly mobility modes, all while reducing individual vehicle ownership.

The holistic approach encompassed within Mobility Islands acknowledges that urban centers worldwide are at a critical juncture, where heavy reliance on fossil fuels for transportation is no longer sustainable. In response, this forward-looking concept aims to offer affordable, green urban transit, with Mobility Islands as the epicenter of this transformation. Sarajevo, through its commitment to this vision and the detailed measures laid out in this chapter, not only sets a precedent for innovative urban mobility but also positions itself as a leader in urban transformation. By embracing Mobility Islands, Sarajevo paves the way for other urban areas within Bosnia and Herzegovina and beyond to embark on a journey toward a more sustainable, efficient, and vibrant urban future. This chapter serves as a testament to the city's dedication to enhancing the quality of life for its residents and providing a model for others to follow.

3.1. Exploring the citizens willingness to achieve the objective of this action plan

In the pursuit of Mobility Islands as a transformative approach to sustainable urban mobility in Sarajevo, Chapter 2.1 delves into the critical aspect of engaging citizens and understanding their willingness to embrace this innovative concept. The process of defining measures and actions within

a local context necessitates the active involvement of the city's residents. Through this chapter, we

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have identified a vital synergy between the visionary goals of Mobility Islands and the enthusiastic support of the community. By actively engaging local actors and soliciting their views, it has become evident that Sarajevo's citizens are not just willing but eager to be a part of this groundbreaking change. The LivingLab participants, hailing from diverse sectors including public institutions, private companies, academia, international organizations, and civil society, have shown unanimous support for Mobility Islands. This not only validates the innovative approach to sustainable urban mobility but also underscores the importance of public participation in shaping the urban landscape. Citizens are more than willing to see Sarajevo evolve into a city characterized by clean air, comfort, and an array of accessible and affordable mobility options, all epitomized by the Mobility Islands concept.

The definition of goals, strategic pillars, measures, activities, indicators and their numerical values within the Action Plan of PP8-Sarajevo was made on the basis of the professional opinion of technical experts, the opinions and proposals of key actors and the collected views of a wider group of local actors (LivingLab participants) on problems, priorities, strategic topics, key values and principles of Mobility Islands, thereby ensuring the participation of actors, and the rationality and transparency of the defined segments of the Action Plan of PP8-Sarajevo.

Many cities in Bosnia and Herzegovina suffer from an outdated approach to transport planning, which prioritizes the construction of infrastructure for cars. In contrast, Sustainable Urban Mobility Plans (SUMP) shift the focus towards an increased quality of life and environmentally friendly transport modes like public transport, walking, and cycling. It is a core principle of SUMP to actively engage citizens in the planning process. This helps decision-makers to better meet the needs of the community and increase the democratic legitimacy of the plan.

The LivingLab participants comprise of public institutions, public and private companies, academia, international organizations, and civil society. All LivingLab participants were presented with the mobility island concept and its benefits, and all voted unanimously for this pilot action as it is an innovative approach to sustainable urban mobility. The following specific contribution to the

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implementation are suggested, grouped by the entity that should develop them, starting from the actions that the Administration should develop:

Administration:

- Conduct surveys and polls to gauge public opinion on Mobility Islands, identifying areas of concern and improvement.
- Establish community feedback sessions to directly involve residents in decision-making processes related to Mobility Islands.

Public/Private Companies:

- Organize public demonstrations and events showcasing the benefits of Mobility Islands to increase awareness and garner public support.
- Collaborate with local influencers and community leaders to promote Mobility Islands through social media and community outreach programs.

NGOs:

- Create educational campaigns highlighting the environmental and health benefits of sustainable mobility, targeting diverse demographic groups.
- Facilitate community workshops and focus groups to gather valuable insights into residents' expectations and concerns regarding Mobility Islands.

Citizens:

- Form or join community-led advocacy groups that actively participate in discussions and decision-making processes related to Mobility Islands.

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- Attend public forums and engage with city officials to express support for the integration of Mobility Islands and share personal experiences.

Educational Institutions:

- Incorporate modules on sustainable urban mobility into the school curriculum, fostering a sense of responsibility and understanding among students.
- Encourage students to participate in projects and research related to Mobility Islands, promoting a sense of ownership and pride in sustainable initiatives.

3.2. Stakeholders engagement process through a living lab

In the journey toward creating Mobility Islands within the urban context of Sarajevo, Chapter 2.2 introduces the pivotal role of stakeholders' engagement through a Living Lab. The creation of Mobility Islands is not a solitary endeavor but a collective effort that demands collaboration, coordination, and active engagement from diverse stakeholders. This chapter emphasizes the unique advantages of employing a Living Lab approach, where a wide spectrum of stakeholders with varying viewpoints and expertise converge to tackle common transportation and safety challenges. Through the Living Lab, Sarajevo fosters an inclusive and coordinated approach that ensures all stakeholders, from transit authorities to community groups and civil society organizations, are brought to the table. The outcomes have been manifold, not the least of which is the identification of common interests and requirements among these diverse groups. This revelation allows for the implementation of policies that cater to the needs of numerous stakeholders simultaneously, enhancing efficiency and saving redundant efforts.

Moreover, the collaborative environment cultivated within the Living Lab has led to innovative activities, such as offering incentives for specific modes of transportation during events, demonstrating the adaptability and creativity that this approach can bring to the urban landscape. In

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Sarajevo's case, the unanimous support of all stakeholder groups for the Mobility Islands concept underscores the strength of this collaborative approach, reinforcing that urban transformation is a shared vision. This chapter underlines the unique advantages and some potential challenges of employing Living Labs while emphasizing that the benefits significantly outweigh any drawbacks. The Living Lab framework has proven instrumental in successful decision-making and implementation processes, setting Sarajevo on the path to realize the vision of Mobility Islands in the city's urban context. The collaborative nature of Living Labs not only advances efficient implementation but also encourages the efficient use of resources, setting an example for other cities to emulate in their journey toward sustainable urban mobility.

The following specific contributions to the implementation are suggested, grouped by the entity that should develop them, starting from the actions that the Administration should develop:

Administration:

- Establish a dedicated communication platform to facilitate ongoing dialogue between the city administration and various stakeholders involved in the Living Lab.
- Allocate resources to support collaborative projects initiated by stakeholders within the Living Lab framework.

Public/Private Companies:

- Actively participate in Living Lab discussions, providing valuable insights into the practical challenges and opportunities associated with Mobility Islands.
- Pilot Mobility Island initiatives in collaboration with the Living Lab, collecting real-world data and feedback for continuous improvement.

NGOs:

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- Organize regular events and forums within the Living Lab to foster collaboration and information sharing among NGOs, ensuring a unified approach to sustainable mobility.
- Advocate for policies that support the Living Lab model as an effective means of stakeholder engagement in urban development projects.

Citizens:

- Participate in Living Lab activities, offering perspectives on Mobility Islands based on their daily experiences and preferences.
- Provide feedback on pilot projects initiated within the Living Lab, contributing to data-driven decision-making processes.

Educational Institutions:

- Collaborate with the Living Lab to integrate academic research and student projects into the development and evaluation of Mobility Islands.
- Engage students in Living Lab activities to cultivate a culture of active citizenship and participation in urban development initiatives.

4. Protocol to assure the consistent implementation of this action plan

A Protocol for Consistent Implementation of Selected Measures for Mobility Islands needs to include at least the following:

- **Establish Clear Objectives:** Define the specific goals and objectives of the mobility islands project. This should include the desired outcomes, targets, and expected impact on the local transportation system.
- **Stakeholder Engagement:** Identify and involve key stakeholders, including residents, businesses, transportation agencies, community organizations, and relevant government

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authorities. Establish regular communication channels and platforms for effective collaboration and feedback throughout the implementation process.

- **Measure Selection and Prioritization:** Conduct a thorough evaluation of potential measures for mobility islands based on their feasibility, impact, and alignment with project objectives. Engage stakeholders in the process to ensure their input and prioritize measures that address their needs and concerns.
- **Monitoring and Evaluation:** Establish a robust monitoring and evaluation system to track the progress, effectiveness, and impact of the implemented measures. Define key performance indicators (KPIs) and regularly collect data to assess the success of the mobility islands project. Engage stakeholders in the monitoring process to ensure transparency and accountability.
- **Regular Review and Adaptation:** Schedule periodic reviews to assess the performance and outcomes of the implemented measures. Analyze the data collected, gather feedback from stakeholders, and make necessary adjustments or adaptations to enhance effectiveness and address emerging challenges.
- **Continuous Stakeholder Engagement:** Maintain ongoing engagement with stakeholders throughout the implementation process. Conduct regular meetings, workshops, and feedback sessions to address concerns, gather suggestions, and foster a sense of ownership and collaboration among stakeholders.
- **Communication and Awareness:** Develop a comprehensive communication strategy to ensure widespread awareness and understanding of the mobility islands project and its implemented measures. Utilize various channels, such as social media, local media outlets, and community events, to disseminate information, promote participation, and encourage behavior change.
- **Documentation and Knowledge Sharing:** Document the entire implementation process, including lessons learned, best practices, and success stories. Establish a knowledge-sharing platform or repository to enable other communities or organizations to learn from the experiences and replicate successful measures.

By following this protocol, the consistent implementation of selected measures for mobility islands can be ensured. It promotes stakeholder engagement, transparency, monitoring, and adaptation, ultimately leading to effective and sustainable transformation of the local transportation system.

To effectively measure, monitor, and evaluate the measures, the SUMP action plan needs to be considered.

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Table No.1 KPIs that could be monitored during the implementation of the measures within this action plan

Indicators or KPIs	Baseline	Target
MOBILITY		
Public transport use		
Carpooling rides (per event)		
Sharing mobility rides (per event)		
Shared taxi rides		
ENVIRONMENT		
Congestion (Number of vehicles parked)		
Air pollution (relevant pollutant identification that is monitored within your city: Carbon monoxide, PM10 etc.)		
SAFETY		
Transport accidents (In the area of the event)		
SOCIAL		
Population with low access to public transport		
Disabled accessibility		
Elderly accessibility		
DECARBONIZATION OF TRANSPORT		
Private vehicle use		
Offered shared mobility services		
Low and zero emission zones		
Transport infrastructure for new mobility modes, patterns and behaviours (priority corridors/lanes, dedicated parking etc.)		

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5. Task force for the implementation of the action plan

An extension element that could enhance the implementation of the action plan for the pilot action is the establishment of a dedicated project coordination team or task force. This team would consist of individuals with expertise in project management, stakeholder engagement, and transportation planning. Their role would be to oversee and facilitate the implementation process, ensuring that the action plan is executed smoothly and efficiently.

The project coordination team would have the following responsibilities:

- **Overall Project Management:** They would be responsible for coordinating and managing all aspects of the pilot action, including the timeline, resources, and deliverables. They would ensure that the action plan stays on track and that milestones are achieved within the deadlines set.
- **Stakeholder Engagement:** The team would take the lead in engaging and maintaining strong relationships with all relevant stakeholders. They would organize regular meetings, workshops, and feedback sessions to keep stakeholders informed, address their concerns, and gather their input for continuous improvement.
- **Collaboration and Coordination:** The team would act as a central point of contact for all stakeholders involved in the pilot action. They would facilitate collaboration among different stakeholder groups, ensuring effective communication and coordination among them. This would help avoid duplication of efforts and foster a holistic approach to implementation.
- **Monitoring and Evaluation:** The project coordination team would oversee the monitoring and evaluation process, ensuring that data is collected, analyzed, and used to assess the progress and effectiveness of the pilot action. They would identify any challenges or bottlenecks and propose necessary adjustments to the action plan based on the evaluation results.
- **Reporting and Documentation:** The team would be responsible for preparing regular progress reports and documentation of the pilot action. This would include capturing lessons learned, best practices, and success stories to inform future projects and ensure knowledge sharing within the organization and with external stakeholders.

Having a dedicated project coordination team would provide focused attention and expertise to the implementation of the action plan. Their presence would enhance coordination, streamline decision-

making processes, and ensure effective stakeholder engagement. Ultimately, this extension element

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would increase the chances of successful implementation and contribute to the long-term success of the mobility islands pilot action.

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6. Conclusion

The main findings and conclusions of a mobility islands project would depend on the specific objectives, measures, and evaluation criteria of the project. While I don't have access to the details of a specific mobility islands project, I can provide some general findings and conclusions that are commonly observed in such initiatives:

- **Reduced Car Dependency:** One of the primary goals of mobility islands is to decrease car dependency and promote sustainable transportation alternatives. The findings may indicate a reduction in the number of private vehicles on the road, increased usage of public transportation, cycling, walking, and other sustainable modes of transportation.
- **Improved Mobility Options:** The implementation of mobility islands aims to enhance the overall mobility options available to residents. The findings may show increased access to convenient and affordable public transportation, expanded bike lanes and pedestrian infrastructure, and the availability of shared mobility services like carpooling, ride-sharing, or bike-sharing.
- **Enhanced Transportation System Efficiency:** Mobility islands often seek to optimize the transportation system by improving its efficiency and reducing congestion. The findings may indicate reduced traffic congestion, improved traffic flow, and reduced travel times, leading to smoother and more reliable transportation experiences for residents.
- **Positive Environmental Impact:** One of the key benefits of mobility islands is the potential to reduce greenhouse gas emissions and air pollution. The findings may reveal a decrease in carbon emissions, improved air quality, and a positive environmental impact due to the promotion of sustainable transportation modes.
- **Stakeholder Engagement and Collaboration:** The success of mobility islands relies on active stakeholder engagement and collaboration. The findings may highlight effective stakeholder involvement, including engagement with residents, businesses, transportation agencies, and community organizations. It may also emphasize the importance of ongoing communication, feedback loops, and collaboration among stakeholders.
- **Challenges and Lessons Learned:** The findings may identify challenges encountered during the implementation process, such as resistance to change, technical difficulties,

or limitations in resources. Additionally, the conclusions may outline lessons learned throughout the project, highlighting best practices, strategies for overcoming obstacles, and recommendations for future mobility island initiatives.

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It's important to note that the specific findings and conclusions will vary based on the context, objectives, and scope of the mobility islands project.

In conclusion, the development and implementation of Mobility Islands in Sarajevo represent an innovative and transformative approach to sustainable urban mobility. Recognizing the pressing need for cleaner, more efficient, and environmentally friendly transportation solutions, the city and the Canton of Sarajevo have taken a significant step toward enhancing the quality of life for their residents. The vision outlined in the Sustainable Urban Mobility Plan (SUMP) sets the stage for Sarajevo to become a hub for innovative, sustainable urban mobility, promoting safety, comfort, clean air, and diverse, accessible, and affordable mobility options. The commitment to embracing "sharing" and "smart" technology fosters a collaborative ecosystem of smart cities, where residents can enjoy an attractive and efficient urban environment.

As urban centers worldwide grapple with the challenges of pollution, congestion, and evolving travel behaviors, Mobility Islands emerge as a vital component of urban evolution. They offer the promise of a 5-minute city, where shared electric transportation is within easy reach of every urban destination. The next phase of urban mobility is clear – affordable, green urban transit with Mobility Islands as the focal point. Sarajevo's commitment to this vision and the comprehensive measures outlined in this action plan demonstrate a dedication to a sustainable and vibrant urban future. By embracing this innovative approach, Sarajevo stands poised to lead the way in reshaping urban transportation, providing a blueprint for other cities in Bosnia and Herzegovina and beyond to follow and build upon.

Prof.dr. Benjamina Karić

Mayor of City of Sarajevo



Sarajevo, 13.12.2023.

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