Task 3.2

A review on current SUMPs/SULPs in European cities

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Introduction to Sustainable Urban Mobility Plans (SUMPs) and Sustainable Urban Logistics Plans (SULPs)

- Sustainable Urban Mobility Plans (SUMPs) and Sustainable Urban Logistics Plans (SULPs) are strategic frameworks developed to make transportation systems more efficient, environmentally friendly, and accessible for all.
- SUMPs focus on people, aiming to reduce pollution, improve public transport, and increase quality of life.
- SULPs deal with efficient logistics, aiming to reduce traffic congestion and optimize the movement of goods.
- Together, these plans address critical challenges posed by urban growth, climate change, and mobility demands in cities

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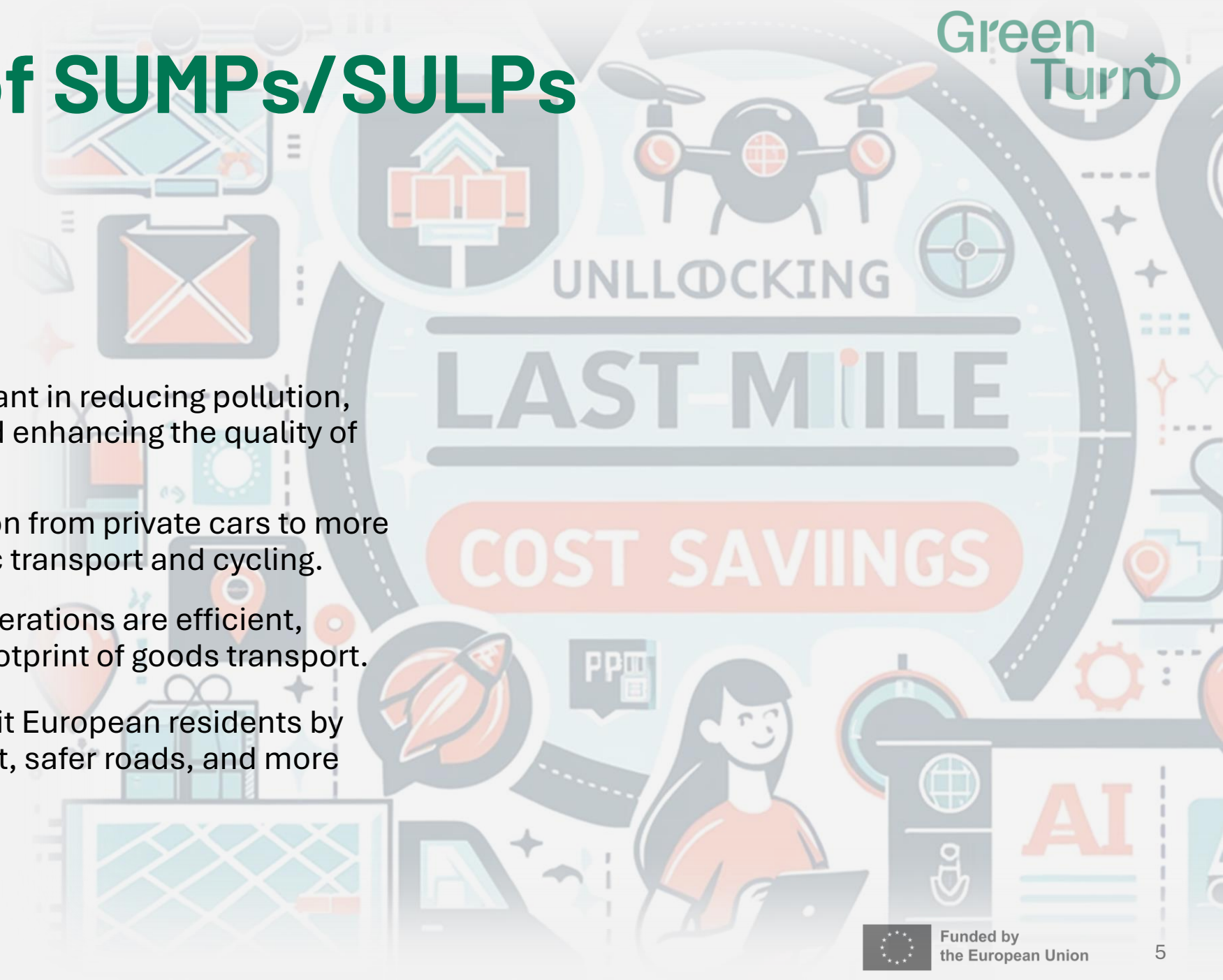
Importance of SUMPs/SULPs to citizens



- Sustainable mobility is important in reducing pollution, mitigating climate change, and enhancing the quality of life for residents.
- SUMPs help shift transportation from private cars to more sustainable options like public transport and cycling.
- SULPs ensure that logistics operations are efficient, reducing the environmental footprint of goods transport.
- These initiatives directly benefit European residents by creating a cleaner environment, safer roads, and more efficient commuting options.

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Cities participating in the European project GreenTurn

City/Country	SUMP actions	SULP actions
Zaragoza, Spain	✓ Expansion of bike lanes. ✓ Development of tram lines. ✓ Improved pedestrian infrastructure. ✓ Public transport optimization and frequency increase.	✓ Implementation of Urban Freight Delivery Zones. ✓ Establishment of specific Delivery routes to minimize conflicts. ✓ Use of ITS (Intelligent transport Systems) for better traffic management
Vienna, Austria	✓ Expansion of pedestrian zones. ✓ Introduction of affordable annual public transport passes. ✓ Development of cycling highways and network expansion. ✓ Implementation of car-sharing and bike-sharing services.	✓ Deployment of e-mobility hubs for logistics. ✓ Use of electric vehicles for Urban deliveries. ✓ Promotion of innovative delivery methods, focusing on eco-mobility. ✓ Support for multimodal transport networks
Poznań, Poland	✓ Development of cycling infrastructure throughout the city. ✓ Improvement of public bus routes and services. ✓ Expansion of pedestrian-friendly zones. ✓ Introduction of traffic-calming measures for cars in urban areas.	✓ Promotion of low-emission vehicles for logistics operators. ✓ Reorganization of freight traffic routes to avoid residential areas. ✓ Establishment of suburban logistics hubs to reduce the number of delivery vehicles entering the city. ✓ Incentives for adopting cleaner delivery methods, such as electric vans
Athens, Greece	✓ Implementation of pedestrian zones and shared spaces with reduced speed limits. ✓ Expansion of accessibility infrastructure for persons with disabilities. ✓ Increased frequency of metro, tram, and commuter services. ✓ Linking transit cards with bike rental discounts to promote multimodal travel.	✓ Restricted hours for deliveries to businesses and shops from 9:00 PM to 9:00 AM. ✓ Use of small vehicles (under 2 tons) for daytime deliveries to reduce congestion. ✓ Encouragement of electric delivery vehicles to minimize emissions. ✓ Area-specific delivery limitations to reduce peak-hour congestion.

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Key Goals of Poznań's SUMPs and SULPs

SUMP

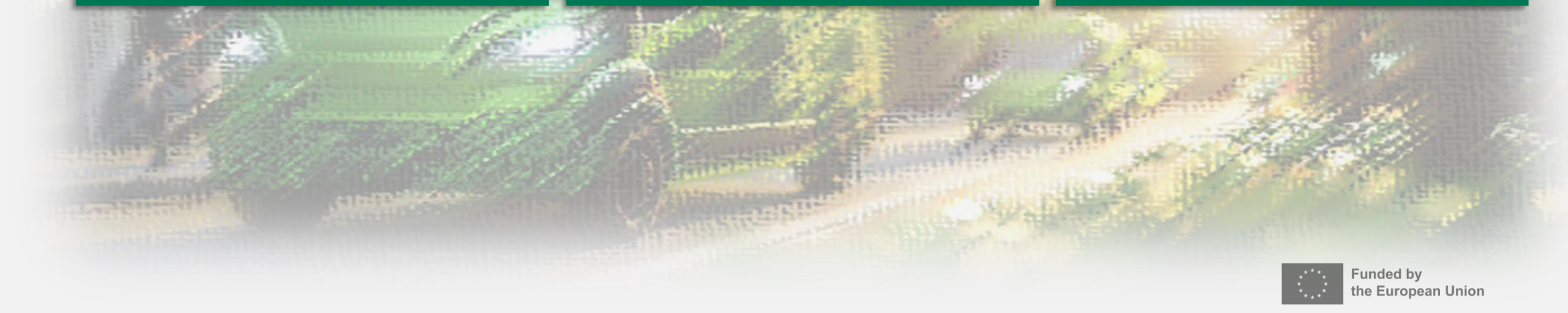
The main goals include creating a safer, environmentally friendly transport system that encourages pedestrian and cyclist movement and reduces dependency on cars.

SULP

Focuses on improving urban logistics to reduce congestion, mitigate environmental impact, and ensure efficient cargo distribution throughout Poznań.

Target Beneficiaries

The beneficiaries of Poznań's SUMPs and SULPs include all city residents, daily commuters, logistics operators, local businesses, and authorities. Families will experience safer roads, while businesses will benefit from better freight solutions and less congestion.



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Poznań's/Poland Activities under SUMPs

- **Expansion of Public Transport:** New tram routes and low-emission buses are being introduced to expand public transportation coverage, reduce car usage, and ensure convenience for residents.
- **Improvement of Cycling and Pedestrian Infrastructure:** Expanding the cycling path network and improving pedestrian facilities to ensure safe, accessible, and attractive walking and cycling options.
- **Public Participation:** Involving citizens in decision-making through workshops and consultations to align transportation improvements with local needs.

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Poznań's/Poland Activities under SULPs

Cargo Distribution and Traffic Management:

- Introduction of cargo distribution management policies, focusing on reducing traffic congestion caused by logistics activities and mitigating environmental impacts.
- Establishment of designated areas for loading and unloading activities to avoid congestion in central zones and promote smoother logistics operations.

Cargo Distribution and Traffic Management:

- Poznań is working with logistics companies, social organizations, and city authorities to streamline urban logistics. This includes setting up stakeholder consultations to ensure the logistics operations align with sustainable mobility goals.

Promotion of Low-Emission Solutions:

- Encouragement of the use of low-emission and electric vehicles in logistics and public transportation fleets, thereby reducing the environmental impact of logistics activities in the city.
- Plans include the construction of Park & Ride facilities to reduce car entry into city centers, indirectly supporting sustainable logistics operations.

Cargo Distribution and Traffic Management:

- Sustainable logistics plans involve efficient management of urban space, ensuring that logistics vehicles do not interfere with pedestrian zones and public transport. Designated parking areas for logistics operations have been set up(zal_1_894).
- Introduction of technologies for traffic and logistics management to promote efficient use of the road network, reducing unnecessary mileage and emissions

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Poznań's/Poland

Achievements of SUMPs and SULPs

- ✓ **Reduced Air Pollution:** By shifting focus to low-emission public transport and reducing car dependency.
- ✓ **Improved Traffic Safety:** Special attention to vulnerable groups such as children and the elderly through infrastructure improvements.
- ✓ **Increased Use of Sustainable Modes:** More residents opting for public transport and cycling, leading to reduced congestion.

Expected impact

- ✓ Better air quality and overall health.
- ✓ Reduced congestion leading to faster and safer commutes.
- ✓ Healthier lifestyles due to more active transport options like walking and cycling.

Challenges

- ✓ **Financial Constraints:** Limited budget for large-scale infrastructure improvements and maintenance.
- ✓ **Behavioral Change:** Difficulty in convincing residents to shift from car dependency to public and active transport options.

Opportunities

- ✓ **EU Funding:** Opportunities for grants and financial assistance aimed at urban development projects, particularly in sustainable transport.
- ✓ **Growing Environmental Awareness:** The increasing awareness among residents regarding environmental issues supports adoption of sustainable practices.

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Poznań's/Poland Environmental and Social Benefits and Future Vision and Next Steps

Environmental benefits

- ✓ Reduction in CO2 emissions due to increased use of low-emission public transport.
- ✓ Decreased noise pollution in busy areas through promotion of alternative transport modes.

Social benefits

- ✓ Improved accessibility for the elderly, children, and people with disabilities due to better infrastructure.
- ✓ Cleaner, safer public spaces leading to a higher quality of life for all residents.

Vision for the Future

By 2030, Poznań aims to have a completely integrated public transport system, characterized by interconnected tram, bus, and cycling networks. The strategy also emphasizes the widespread adoption of low-emission vehicles, cleaner air, and increased use of renewable energy for transport.

Next steps

The next steps include expanding the current tram lines, enhancing public engagement processes, and monitoring the implementation progress through annual reviews and public reports.

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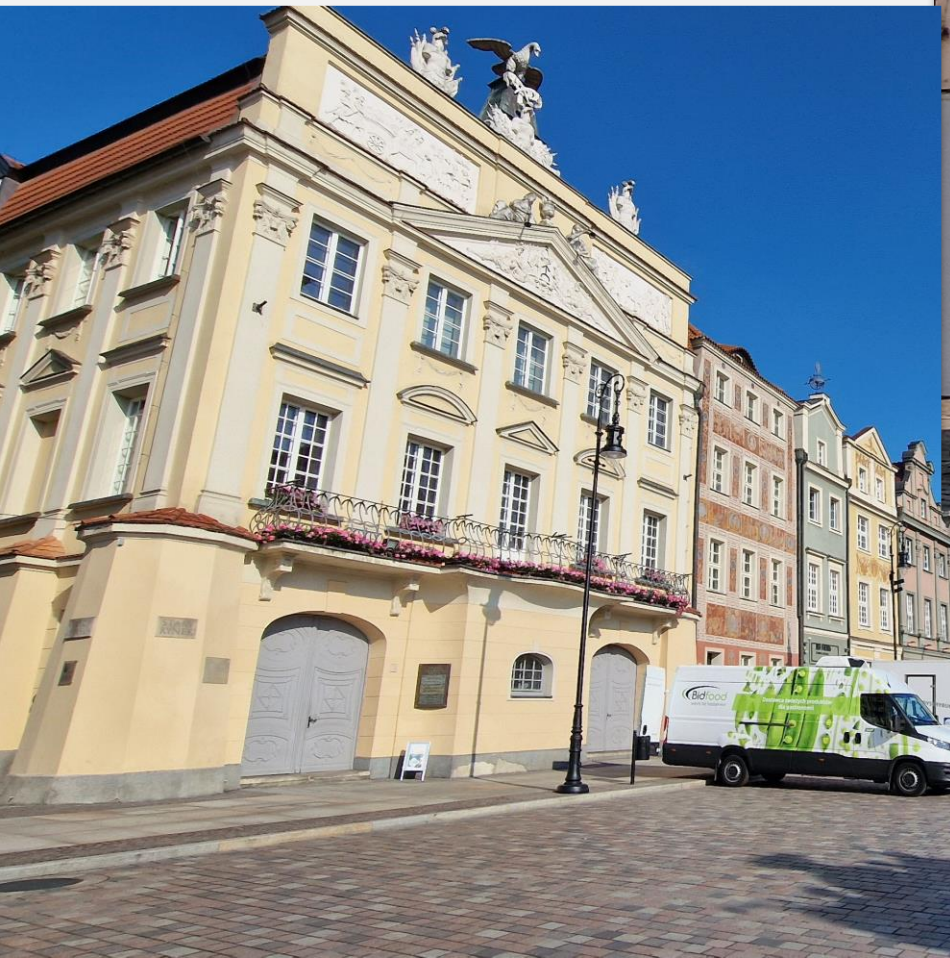

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Introduction to Vienna's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- The City of Vienna is striving to create a sustainable, efficient, and inclusive urban mobility system.
- The SUMP and SULP are the strategic frameworks guiding the development of transport systems that reduce environmental impact, improve accessibility, and ensure the efficient flow of goods in the city.
- Vienna’s focus is on transforming mobility to benefit residents, businesses, and the environment alike.

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The importance and the objectives of Vienna's SUMPs and SULPs

Importance

Sustainable mobility is important for reducing urban congestion, minimizing emissions, and ensuring everyone in Vienna can move around safely and efficiently. Vienna's approach combines public transportation expansion, active mobility initiatives, and logistics improvements to meet these goals.

Key Goals

SUMP Goals: Expand public transport, enhance pedestrian and cycling infrastructure, and minimize reliance on personal vehicles.
SULP Goals: Optimize logistics operations, promote the use of eco-friendly delivery vehicles, and ensure an efficient flow of goods in urban areas.

Social Inclusion and Accessibility

Vienna aims to make urban mobility accessible for everyone, regardless of income or social status. Public transport is affordable (e.g., the EUR 365 annual ticket), while improvements to pedestrian and cycling infrastructure focus on inclusive design.

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Key Activities and Strategies of Vienna's SUMPs

Activities under SUMPs

- ✓ **Governance:** Vienna focuses on shared responsibilities and resources, incorporating stakeholder participation from the start and throughout the planning process to create a foundation for the implementation of urban mobility plans
- ✓ **Public Space:** Efforts are directed at sharing streets fairly among different users, emphasizing the reduction of motor vehicle traffic to enhance the quality of life
- ✓ **Efficient Mobility Management:** This involves expanding and integrating public transport services with non-motorized forms of transport to ensure efficient movement within the city
- ✓ **Promoting Active and Safe Mobility for Children:** Vienna prioritizes safe routes to school for children using eco-friendly mobility options like walking and cycling
- ✓ **Mobility Partnerships in the Region:** There is a cooperative focus between districts and neighboring municipalities to strengthen sustainable mobility across the region
- ✓ **Commercial Transport Efficiency:** A modal shift towards eco-mobility is promoted to ensure efficient movement of goods and services within the city

Results

- ✓ Vienna has established a comprehensive approach to urban mobility, prioritizing public transport, cycling, and walking
- ✓ The city has seen increased public transport usage, greater pedestrian and cycling infrastructure, and active engagement in regional mobility initiatives
- ✓ A significant reduction in motor vehicle traffic and associated pollution levels has been achieved
- ✓ Measures have led to a more efficient use of urban space, contributing to lower emissions and enhanced urban liveability

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Key Activities and Strategies of Vienna's SULPs

Activities under SULPs

- ✓ **Organizing Commercial Transport:** Vienna works on integrating eco-friendly transport methods for goods and passenger movement, focusing on e-mobility in vehicle fleets
- ✓ **Developing New Forms of Delivery and Distribution**: The city supports innovative, eco-friendly delivery and distribution methods, including advanced logistics systems
- ✓ **Expanding Multimodal Transport Networks:** Efforts are made to enhance the interconnectivity between different modes of transport, facilitating seamless transitions for both people and goods
- ✓ **Supporting Eco-Mobility in Vehicle Fleets:** Initiatives are in place to promote the use of electric and hybrid vehicles in commercial transport operations

Results

- ✓ Enhanced efficiency in the logistics and delivery systems within Vienna, reducing traffic congestion and improving delivery times.
- ✓ Adoption of multimodal transport facilities has streamlined logistics operations, reducing the reliance on traditional fuel-based transport methods.
- ✓ Implementation of new technologies and innovative systems for commercial transport has led to reductions in emissions and increased sustainability in urban logistics.

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Results Achieved / Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Increased Public Transport Use:** Enhanced public transport accessibility has led to increased ridership.
- ✓ **Reduced Car Dependency:** Declining levels of car ownership and use, with the city aiming for 80% of all trips to be made by public or non-motorized transport by 2025.
- ✓ **Growth in Active Mobility:** Significant increase in walking and cycling due to improved infrastructure.

Expected Impact

Vienna expects continued reductions in greenhouse gas emissions, enhanced quality of life for residents, and improved public health due to increased active mobility.

Challenges

- ✓ **Behavioral change:** Encouraging residents to switch from cars to public or active transport options remains challenging.
- ✓ **Logistical Complexity:** Coordinating logistics in a dense urban environment with competing needs for space.

Opportunities

- ✓ **Innovation in Mobility:** Opportunity to become a model city for smart, eco-friendly transport.
- ✓ **European Funding and Partnerships:** Leveraging EU grants for sustainable projects.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

Reduction in greenhouse gases, improved air quality, and minimized noise pollution are direct benefits of Vienna’s emphasis on eco-mobility and logistics improvements.

Social benefits

Vienna's mobility plans contribute to greater social equity by ensuring all groups have affordable, convenient access to transport. Health benefits from increased active mobility have also been noted.

Vision for the Future

By 2030, Vienna aims to have a fully integrated, efficient, and zero-emission transport system, contributing to its role as a leading sustainable European city.

Next steps

Upcoming initiatives include expanding existing tram and bus networks, constructing more bike-sharing stations, and working with suburban areas for better regional connectivity.

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Introduction to Zaragoza's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- The City of Zaragoza is working towards an efficient, green, and inclusive transport system to benefit its residents and businesses.

- The SUMP and SULP are frameworks guiding the city's development towards reducing emissions, improving accessibility, and managing logistics effectively.

- Zaragoza aims to create a balanced and people-centered urban transport network.

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The importance and the objectives of Zaragoza's SUMPs and SULPs

Importance

Sustainable urban mobility is key to addressing challenges like pollution, traffic congestion, and accessibility. Zaragoza's efforts involve expanding public transport, promoting walking and cycling, and improving freight logistics to create a cleaner, healthier city for everyone.

Key Goals

SUMP Goals: Expand the use of public transport, increase walking and cycling infrastructure, and reduce car dependency.

SULP Goals: Improve urban freight efficiency, reduce congestion caused by logistics, and create designated areas for loading and unloading goods.

Social Inclusion and Accessibility

Zaragoza's mobility initiatives are focused on making transportation accessible to everyone. Improvements have been made to pedestrian pathways, public transport routes, and cycling infrastructure to ensure they are usable by people of all ages and abilities.

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Key Activities and Strategies of Zaragoza's SUMPs

Activities under SUMPs

1. **Expansion of Cycling Infrastructure:**
   - ✓ Zaragoza has an extensive network of bike paths, with a total of over 126 kilometers. The city also implemented traffic calming measures to make secondary streets more bike-friendly by reducing speed limits to 30 km/h
   - ✓ The public bicycle-sharing system, BIZI, is well-established with 130 stations and over 1,300 bikes available for use
2. **Pedestrian Mobility Improvements:**
   - ✓ Investments have been made to expand pedestrian zones and enhance the quality of sidewalks, especially in the historical center
   - ✓ Zaragoza has implemented pedestrian-friendly infrastructure, including the addition of benches, lighting, and shaded areas to encourage walking as a primary mode of transport
3. **Public Transport Optimization:**
   - ✓ The public transportation system has been improved with increased frequency and more reliable service
   - ✓ Zaragoza has established exclusive bus lanes to enhance efficiency and reduce congestion for buses and emergency vehicles

Results

1. **Increased Bicycle Usage:** The share of daily trips made by bicycle increased from 0.92% in 2007 to 2.9% in 2017.
2. **Reduction in Private Vehicle Usage:** The emphasis on public and active modes of transport has reduced the reliance on private vehicles, with a slight decrease in the number of daily private car trips.
3. **Enhanced Quality of Life:** The improvements in pedestrian and cycling infrastructure have contributed to increased walkability and a safer, more accessible urban environment.

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Key Activities and Strategies of Zaragoza's SULPs

Key Activities and Strategies

1. **Urban Freight Management:**
   - ✓ Zaragoza has implemented dedicated zones for loading and unloading goods to reduce congestion in busy areas. These zones are especially important for managing logistics in the city center and high-density areas.

2. **Optimization of Delivery Times:**
   - ✓ To minimize disruptions, Zaragoza has introduced regulations that limit delivery times to specific hours of the day. This helps reduce conflicts between delivery vehicles and other road users, particularly during peak hours.

3. **Use of Low-Emission Vehicles for Deliveries:**
   - ✓ Zaragoza is promoting the use of electric and other low-emission vehicles for deliveries, especially in urban areas, to reduce the environmental impact of urban freight transport.

Results

1. **Improved Freight Efficiency:** By establishing dedicated loading zones and optimizing delivery schedules, the city has improved the efficiency of urban goods distribution

2. **Reduced Emissions:** The promotion of low-emission vehicles for freight delivery has led to reductions in emissions, contributing to improved air quality, especially in the city center

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Results Achieved / Expected Impact /Challenges and Opportunities

Achievements

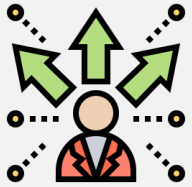
- ✓ **Increased Use of Public Transport:** Expanded tram and bus services have led to more people using public transport.
- ✓ **Growth in Cycling and Walking:** Improved cycling infrastructure and bike-sharing systems have made cycling a popular choice, while traffic calming measures have made walking safer and more attractive.

Expected impact

By encouraging public transport, cycling, and efficient freight systems, Zaragoza aims to reduce its carbon emissions, enhance air quality, and improve quality of life for its residents.

Challenges

- ✓ **Behavior Change:** Convincing residents to switch from cars to public transport or active modes remains a challenge.
- ✓ **Logistical Constraints:** Balancing freight logistics without disrupting urban life is a complex task.



Opportunities

- ✓ **Innovative Mobility Solutions:** Opportunity for Zaragoza to become a leader in active mobility and urban logistics innovation.
- ✓ **Collaboration with Stakeholders:** Strengthening partnerships between logistics companies, businesses, and residents can foster more efficient solutions.

Collaboration in Logistics

Zaragoza's logistics plan includes collaboration with freight companies to optimize delivery times and reduce disruptions in the urban core.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

Zaragoza's emphasis on sustainable mobility helps reduce greenhouse gas emissions and air pollution, contributing to a healthier urban environment.

Social benefits

By making streets safer and public transport more accessible, Zaragoza's initiatives promote greater social inclusion and improve the overall quality of urban life.

Vision for the Future

By 2030, Zaragoza aims to achieve a fully integrated and low-emission urban mobility system, encouraging sustainable choices for both transport and logistics.

Next steps

Upcoming projects include further expansion of tram services, installation of additional bike-sharing stations, and increasing freight hubs to ensure smoother logistics operations.

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Introduction to Athens' Sustainable Urban Mobility Plan (SUMP)

- Athens is making strides towards a more sustainable urban future with its SUMP initiatives.
- The focus is on reducing car dependency, improving pedestrian accessibility, and enhancing public transport efficiency.
- These measures are aimed at making the city safer, greener, and more accessible for all residents.

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The importance and the objectives of Athens SUMPs

Importance

The Sustainable Urban Mobility Plan is crucial for reducing traffic congestion, improving air quality, and making Athens more accessible for everyone, including vulnerable groups.

By enhancing public transport and promoting non-motorized mobility, the SUMP aims to create a sustainable urban environment.

SUMP Key Goals

- ✓ **Pedestrian Accessibility:** Create pedestrian zones and improve pathways to ensure safe, accessible mobility for all.
- ✓ **Public Transport Efficiency:** Enhance the frequency and coverage of public transport services to reduce car dependency.
- ✓ **Multimodal Transport:** Promote the integration of different modes of transport, such as public transit and cycling.

SULP Key Goals

- ✓ Logistics Efficiency: Optimize delivery schedules to reduce traffic congestion and improve urban logistics.
- ✓ Electric Vehicle Adoption: Promote the use of electric and low-emission vehicles for urban deliveries to reduce environmental impacts.
- ✓ Congestion Reduction: Implement specific delivery hours and routes to minimize traffic in congested areas.
- ✓ Collaboration with Stakeholders: Work with logistics companies to ensure the efficient and sustainable movement of goods within the city.

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Key Activities and Enhancements of Athens SUMPs

Activities under SUMPs

- ✓ **Pedestrian-Friendly Measures:** Establishment of pedestrian zones and pathways, with a particular emphasis on ensuring accessibility for vulnerable groups, including people with disabilities.
- ✓ **Shared Streets:** Conversion of certain streets into shared spaces where cars and pedestrians coexist, with speed limits reduced to 20 km/h to prioritize safety.
- ✓ **Accessibility Improvements:** Development of infrastructure to ensure accessibility, such as wheelchair-friendly pathways and upgraded pedestrian crossings.
- ✓ **Expansion of Public Transport Services:** Increased frequency of metro, tram, and commuter train services, especially during peak hours, to make public transport more appealing.
- ✓ **Extended Service Hours:** Public transport services have extended operational hours, providing better options for late-night travel and reducing reliance on private cars.
- ✓ **Multimodal Incentives:** Introduction of unlimited transit cards linked to discounts for bike rentals, promoting integrated mobility solutions.

Activities under SULPs

- ✓ **Restricted Hours for Truck Deliveries:** A new regulation has been introduced where deliveries to businesses, supermarkets, and shops must be carried out from 9:00 PM to 9:00 AM the next day. During daytime, only small vehicles (under two tons) are allowed to supply these businesses**.**
- ✓ **Specific Limitations by Area:** Different districts of Athens, such as Zografou, Aigaleo, Kallithea, and others, have specific delivery time limitations. Large trucks (over 1.5 tons) have restricted access during peak hours (7:00 AM to 10:30 AM) in many areas to prevent traffic congestion.
- ✓ **Electric and Small Vehicles:** The policy encourages the use of electric or small delivery vehicles, especially during the daytime, to reduce emissions and minimize noise pollution.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Enhanced Mobility for Pedestrians:** The introduction of pedestrian zones and improved pathways has significantly improved walking conditions for all residents, particularly vulnerable groups.
- ✓ **Increased Public Transport Use:** More frequent and efficient public transport services have led to an increase in usage, reducing car dependency.
- ✓ **Positive Public Reception:** Pedestrian zones and improvements in public transport have been well-received by the public, demonstrating strong support for sustainable mobility initiatives.

Expected Impact

- ✓ Ongoing efforts to expand pedestrian zones and enhance public transport services are expected to further reduce emissions, improve air quality, and make Athens a more accessible city.
- ✓ Focus on multimodal transport will provide residents with multiple convenient travel options.

Challenges

- ✓ **Behavioral Change:** Encouraging residents to shift from private car use to public and non-motorized modes of transport requires continuous engagement and awareness.
- ✓ Increased logistics costs due to restricted delivery hours.
- ✓ Investment requirements for electric vehicles and equipment to meet new standards.
- ✓ Concerns from logistics companies regarding efficiency and practicality.
- ✓ Stakeholder feedback emphasizes the need for coordinated planning and investments to support these changes.

Opportunities

- ✓ **Expansion of Shared Spaces:** Opportunities exist to convert more streets into shared spaces, prioritizing pedestrians and cyclists.
- ✓ **Public Engagement:** Increased information campaigns can help promote the benefits of sustainable mobility, encouraging more residents to adopt public and active transport modes.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

- ✓ The reduction of car usage and increased reliance on public transport and non-motorized mobility have contributed to lower emissions and better air quality in Athens.
- ✓ The expansion of pedestrian zones also leads to reduced noise pollution and greener, more livable public spaces.

Social benefits

The focus on shared spaces and pedestrian zones has improved social interactions, increased safety for walkers and cyclists, and made Athens more inclusive for individuals with mobility challenges.

Future vision

- ✓ Athens aims to continue expanding pedestrian-friendly zones, increase public transport efficiency, and promote multimodal transport solutions.
- ✓ The vision is to create a city where mobility is safe, inclusive, and environmentally friendly, reducing dependency on private vehicles.
- ✓ For logistics, Athens envisions a shift towards electric and smaller vehicles, optimizing delivery schedules to minimize congestion and support sustainable logistics.

Next steps

- ✓ Planned initiatives include expanding pedestrian zones, increasing public transport services, and enhancing digital information systems for better journey planning.
- ✓ These steps will ensure Athens remains on track to achieve its sustainability goals.
- ✓ For SULP, efforts will focus on expanding the use of electric delivery vehicles, refining restricted delivery hours, and optimizing logistics management to balance efficiency with minimal environmental impact.

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Other cities with SUMPs/SULPs

City/Country	SUMP actions	SULP actions
Stockholm, Sweden	✓ Expansion of multimodal transport options. ✓ Improved accessibility through shared public spaces. ✓ Encouraged sustainable transport methods like cycling and public transit.	✓ Implementation of Central Micro Terminals. ✓ Promotion of off-peak transport to reduce congestion. ✓ Utilization of urban waterways for logistics. ✓ Introduction of geofencing for smart urban traffic management.
Almada, Portugal	✓ Expansion of cycling and pedestrian paths. ✓ Promotion of eco-friendly transport modes. ✓ Improved public transport infrastructure.	✓ Implementation of logistics hubs. ✓ Integration of electric delivery vehicles. ✓ Establishment of designated loading/unloading zones.
Alba Iulia, Romania	✓ Creation of pedestrian areas. ✓ Improvement of public space accessibility. ✓ Extension of bike paths and lanes.	✓ Implementation of urban consolidation centers. ✓ Regulation of freight delivery times. ✓ Use of low-emission vehicles for deliveries.
Burgos, Spain	✓ Creation of pedestrian-only zones in the historic center. ✓ Improved public transport services. ✓ Developed cycling paths.	✓ Use of Urban Consolidation Centers (UCC) to manage deliveries. ✓ Regulation of vehicle access to historic areas.
Dundee, UK	✓ Enhancement of cycling and walking infrastructure. ✓ Introduction of shared transport services. ✓ Public transport expansion.	✓ Establishment of urban consolidation centers for optimized logistics. ✓ Promotion of electric vehicles for last-mile deliveries. ✓ Designated time windows for freight access.
Lucca, Italy	✓ Establishment of pedestrian-only zones. ✓ Cycling infrastructure improvements. ✓ Public space enhancements.	✓ Implementation of Lucca Port logistics hub for freight consolidation. ✓ Use of electric vehicles for deliveries. ✓ Access control measures for logistics vehicles.
Serres, Greece	✓ Expansion of pedestrian paths in commercial areas. ✓ Creation of park-and-ride facilities. ✓ Improved cycling paths.	✓ Freight traffic regulation. ✓ Promotion of energy-efficient logistics. ✓ Collaboration with stakeholders for sustainable logistics.

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Introduction of SUMPs and SULPS

Cities participating in the European project GreenTurn

Other cities with SUMPs/SULPs

Stockholm, Sweden	**Alba Iulia, Romania**	**Dundee, UK**	**Serres, Greece**
Almada's, Portugal	**Burgos, Spain**	**Lucca, Italy**	

Best practices in city logistics

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Introduction to Stockholm's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Stockholm is committed to creating an accessible, efficient, and sustainable urban mobility system.

- The SUMP and SULP are guiding frameworks that aim to reduce congestion, minimize environmental impact, and improve accessibility for residents.

- Stockholm is working to balance logistics needs with the quality of urban life, ensuring a cleaner, more organized, and better-connected city

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The importance and the objectives of Stockholm's SUMPs and SULPs

Importance

Sustainable urban mobility and logistics are critical for reducing emissions, managing congestion, and ensuring accessibility for all residents. Stockholm's approach integrates innovative technologies, off-peak transport, and coordinated logistics to improve the quality of urban life

Key Goals

- ✓ **SUMP Goals:** Improve traffic flow, expand public transport accessibility, and promote the use of eco-friendly freight transport by waterways and rail.
- ✓ **SULP Goals:** Optimize urban freight logistics, reduce negative impacts of freight vehicles, and enhance collaboration between stakeholders.

Accessibility and Inclusivity

Stockholm aims to improve both mobility and logistics while reducing environmental impact. The integration of freight by rail and urban waterways highlights the city's commitment to sustainability and efficient transport.

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Key Activities and Strategies of Stockholm's SUMPs and SULPs

Activities under SUMPs

- ✓ **Off-Peak Transport Optimization:** Encouraging the use of roads during non-peak hours to balance traffic load and improve overall efficiency.
- ✓ **Freight by Rail and Waterways:** Expanding freight transport options by using waterways and rail, reducing the need for trucks on urban roads and lowering emissions.
- ✓ **Geofencing and Smart Zones:** Use of geofencing technology to create smart loading zones and improve the interaction between trucks and other road users.

Activities under SULPs

- ✓ **Urban Micro Terminals:** Establishment of urban micro terminals for efficient last-mile delivery, reducing congestion in the city center.
- ✓ **Municipal Freight Forum:** Coordination among stakeholders through the Municipal Freight Forum to align city logistics strategies and encourage collaboration.
- ✓ **ÄlskadeStad Initiative:** Collaboration between public and private sectors to efficiently manage urban deliveries and reduce the impact of growing e-commerce.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Enhanced Freight Predictability:** Increased coordination among stakeholders has improved the predictability and efficiency of freight transport.
- ✓ **Reduced Road Traffic:** Utilization of waterways for moving goods has significantly reduced the number of trucks on city streets.
- ✓ **Efficient Last-Mile Logistics**: Urban micro terminals have streamlined last-mile delivery, minimizing the impact of delivery vehicles in urban areas.

Expected Impact

Stockholm's initiatives are expected to continue reducing emissions, lower traffic congestion, and contribute to better air quality. Off-peak logistics operations and the use of waterways provide a sustainable solution to the city's freight needs.

Challenges

- ✓ **Behavioral Adaptation**: Encouraging stakeholders to adopt off-peak logistics and other changes has required substantial education and engagement.
- ✓ **Complex Stakeholder Interests:** Balancing the needs of logistics companies, public authorities, and residents is a constant challenge.

Opportunities

- ✓ **Innovation in Urban Logistics:** There is an opportunity for Stockholm to become a leader in adopting new technologies like geofencing for logistics efficiency.
- ✓ **Collaboration Models: The** Municipal Freight Forum provides a platform for ongoing collaboration, fostering a more integrated logistics approach across sectors.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

The use of urban waterways and rail for freight has reduced the environmental footprint of logistics operations. This shift contributes to lower greenhouse gas emissions and better air quality across Stockholm.

Social benefits

Improvements in logistics efficiency and urban mobility have resulted in reduced congestion, quieter neighborhoods, and safer streets for all residents.

Future vision

Stockholm's future vision focuses on a fully integrated, zero-emission transport network. This includes scaling up existing solutions, promoting further use of smart technologies, and fostering public-private collaboration.

Next steps

Planned activities include expanding urban micro terminals, increasing off-peak transport utilization, and adopting more advanced geofencing solutions to optimize logistics operations.

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Almada's, Portugal	Burgos, Spain	Lucca, Italy	

Best practices in city logistics

Funded by the European Union

Introduction to Almada's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Almada, Portugal, is working towards an efficient and sustainable mobility and logistics system to enhance the quality of life for its residents.
- The SUMP and SULP aim to reduce traffic congestion, promote greener transport modes, and optimize logistics operations.
- Almada focuses on balancing the needs of its residents and businesses while making urban mobility cleaner and more accessible.

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The importance and the objectives of Almada's SUMPs and SULPs

Importance

Sustainable mobility and logistics are crucial to reducing urban pollution, easing congestion, and improving city life. Almada's approach includes integrating public transport, enhancing pedestrian and cycling infrastructure, and consolidating logistics operations to make the city more sustainable.

Key Goals

- ✓ **SUMP Goals**: Promote active transport by enhancing pedestrian and cycling infrastructure, integrate public transport options, and reduce car dependency.
- ✓ **SULP Goals**: Improve the efficiency of urban freight logistics, reduce congestion caused by logistics operations, and implement sustainable last-mile solutions.

Accessibility and Inclusivity

Almada aims to create a pedestrian-friendly environment by reducing car access in the city center and introducing regulations to manage traffic flow. Improved cycling paths and expanded pedestrian areas contribute to a more inclusive and accessible mobility network.

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Key Activities and Strategies of Almada's SUMPs and SULPs

Activities under SUMPs

- ✓ **Pedestrian and Cycling Improvements:** Expansion of pedestrian areas and development of dedicated cycling paths to encourage active mobility.
- ✓ **Public Transport Integration:** Enhancements in public transport connectivity, optimizing bus routes, and creating efficient links between different modes of transport.
- ✓ **Traffic Regulation:** Introduction of access restrictions in the historic city center to prioritize pedestrians and cyclists.

Activities under SULPs

- ✓ **Urban Consolidation Center (UCC):** Establishment of a UCC to consolidate shipments and reduce the number of delivery vehicles entering the city, leading to less congestion.
- ✓ **Last-Mile Delivery with Electric Vehicles**: Implementation of electric vans for last-mile delivery to reduce emissions and environmental impact.
- ✓ **Loading/Unloading Regulations:** Designated loading/unloading zones with specific time windows to ensure efficient logistics and minimal disruption to urban traffic.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Congestion:** The Urban Consolidation Center has significantly decreased the number of delivery vehicles in busy areas, easing traffic congestion.
- ✓ **Lower Environmental Impact:** Electric vehicles for last-mile delivery and logistics consolidation have contributed to a reduction in emissions and noise pollution.
- ✓ **Enhanced Mobility:** Improved pedestrian and cycling infrastructure has made Almada more accessible and safer for non-motorized transport users.

Expected Impact

Almada's logistics and mobility initiatives are expected to lead to further reductions in emissions, improve air quality, and make the city more attractive for residents and visitors. Continued efforts will focus on expanding electric vehicle usage and optimizing freight operations.

Challenges

- ✓ **Stakeholder Awareness:** Some logistic operators are unaware of the municipal regulations, leading to non-compliance.
- ✓ **Space Limitations for Loading/Unloading:** Limited availability of loading/unloading areas creates challenges for efficient logistics operations.

Opportunities

- ✓ **Scaling Electric Vehicle Use:** Opportunity to expand the use of electric vehicles in logistics, further reducing the environmental footprint.
- ✓ **Stakeholder Collaboration:** Continued collaboration between the municipality, residents, and logistics operators can improve efficiency and compliance.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

The use of electric vehicles and the consolidation of deliveries through the UCC have led to a significant reduction in emissions and noise pollution, improving Almada's environmental footprint.

Social benefits

Traffic regulations, pedestrian-friendly zones, and enhanced cycling infrastructure have made Almada a safer and more pleasant place to live. Residents now enjoy quieter streets and improved air quality, contributing to better public health.

Future vision

Almada's future vision includes expanding logistics consolidation, increasing the use of electric vehicles, and further enhancing public transport and active mobility options. The city aims to be a benchmark for sustainable urban logistics and mobility.

Next steps

Planned initiatives include increasing electric vehicle adoption, expanding the Urban Consolidation Center's capabilities, and enhancing enforcement of logistics regulations to ensure compliance.

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Best practices in city logistics

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Introduction to Alba Iulia's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP).

- Alba Iulia is taking significant steps towards building a sustainable and efficient urban mobility and logistics system.
- Through its SUMP and SULP, the city aims to enhance the quality of urban life by reducing congestion, promoting clean transport modes, and optimizing logistics operations.
- These efforts are designed to create a more livable, environmentally friendly urban environment.

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The importance and the objectives of Alba Iulia's SUMPs and SULPs

Importance

Sustainable mobility and logistics are essential for reducing traffic congestion, minimizing emissions, and making cities more accessible. Alba Iulia's approach integrates public mobility improvements with smart logistics solutions, aiming to benefit residents, businesses, and the environment.

Key Goals

- ✓ **SUMP Goals:** Expand pedestrian and cycling infrastructure, reduce car usage, and enhance public transport efficiency.
- ✓ **SULP Goals:** Streamline urban freight logistics, reduce emissions from delivery vehicles, and engage stakeholders in urban logistics planning.

Accessibility and Inclusivity

Alba Iulia's urban plans focus on improving livability by making the city more walkable and bike-friendly while also enhancing logistics efficiency. The objective is to balance the needs of residents and businesses for a sustainable urban future.

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Key Activities and Strategies of Alba Iulia's SUMPs and SULPs

Activities under SUMPs

- ✓ **Expansion of Pedestrian Areas**: Implementation of wider sidewalks and designated pedestrian pathways, particularly in the historic center, to reduce car dominance.
- ✓ **Cycling Infrastructure Development**: Creation of cycling pathways in key parts of the city to promote biking as a practical mode of transport.
- ✓ **Regional Park and Ride Facilities**: Establishment of park and ride (P&R) facilities to reduce the number of cars entering the city center, especially for commuters.
- ✓ **Controlled Parking System:** Introduction of approximately 4,000 controlled parking spaces to manage the influx of cars in busy areas.

Activities under SULPs

- ✓ **Urban Consolidation Center (UCC) Consideration:** Exploration of the feasibility of UCCs to streamline logistics, consolidate deliveries, and reduce the number of delivery vehicles in the city.
- ✓ **Freight Delivery Regulation Updates:** Planned updates to regulations regarding freight deliveries to reduce congestion, particularly in the historic areas.
- ✓ **Promotion of Eco-Friendly Logistics:** Encouragement of low-emission or electric vehicles for logistics to minimize environmental impacts.
- ✓ **Stakeholder Engagement:** Involvement of stakeholders, including logistics companies, shop owners, and municipal authorities, to create collaborative, sustainable logistics solutions.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Traffic Congestion**: The introduction of park and ride facilities and updates to freight regulations have helped reduce car traffic and delivery vehicle congestion.
- ✓ **Improved Air Quality:** Encouraging the use of low-emission vehicles for logistics and reducing private car usage has contributed to improved air quality.
- ✓ **Enhanced Urban Livability:** The expansion of pedestrian and cycling infrastructure has made the city more accessible and enjoyable for residents and visitors.

Expected Impact

Continued implementation of consolidation centers, expanded pedestrian zones, and the promotion of clean transport is expected to further improve air quality, reduce emissions, and enhance the quality of life in Alba Iulia.

Challenges

- ✓ **Freight Delivery Regulation Compliance**: Ensuring all logistics operators adhere to updated delivery regulations can be challenging.
- ✓ **Stakeholder Engagement:** Gaining full participation from logistics companies and businesses in sustainable practices requires ongoing dialogue.

Opportunities

- ✓ **Implementation of Urban Consolidation Centers:** Potential for reduced delivery vehicle traffic and enhanced efficiency by consolidating deliveries.
- ✓ **Expansion of Eco-Logistics Initiatives:** Opportunities to further promote electric vehicles for deliveries, thus reducing emissions

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

The promotion of low-emission vehicles and streamlined logistics has led to lower emissions and better air quality in Alba Iulia. These efforts contribute significantly to making the city's environment cleaner and healthier.

Social benefits

The expansion of pedestrian-friendly zones and improved cycling infrastructure has made Alba Iulia a more vibrant, accessible city, benefiting residents and tourists alike by creating safer, quieter, and more enjoyable public spaces.

Future vision

Alba Iulia aims to become a benchmark for sustainable urban living in Romania by expanding pedestrian areas, implementing UCCs, and further promoting eco-friendly logistics solutions. The vision includes creating a clean, accessible, and resident-friendly urban environment.

Next steps

Planned initiatives include finalizing the feasibility of Urban Consolidation Centers, expanding electric vehicle incentives, and enhancing controlled parking systems. These initiatives will help Alba Iulia achieve its sustainability goals.

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Best practices in city logistics

Funded by the European Union

Introduction to Burgos Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

Burgos, Spain, is advancing toward a more livable and sustainable city by implementing its SUMP and SULP. These plans aim to reduce vehicle congestion, enhance pedestrian zones, and streamline urban logistics. By integrating innovative mobility solutions, Burgos strives to balance its historical preservation with the needs of modern logistics and transportation

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The importance and the objectives of Burgos SUMPs and SULPs

Importance

Sustainable urban mobility and logistics are critical to reducing traffic congestion, minimizing emissions, and preserving the city's historical areas. Burgos's approach focuses on improving accessibility for residents and visitors while ensuring that logistics are efficient and environmentally friendly.

Key Goals

- ✓ **SUMP Goals:** Create pedestrian-friendly zones, reduce car access in historic areas, and improve traffic management for both residents and visitors.
- ✓ **SULP Goals:** Streamline urban logistics by implementing consolidation centers, promote clean vehicles, and engage stakeholders in logistics decision-making.

Livability and historical preservation

Burgos aims to preserve its historical city center while improving urban mobility. Measures such as pedestrian zones and traffic management ensure that residents can enjoy a more accessible city without compromising the historical heritage

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Key Activities and Strategies of Burgos SUMPs and SULPs

Activities under SUMPs

- ✓ **Pedestrian and Restricted Traffic Areas:** Approximately 30% of the historical city center has been designated as pedestrian-only to reduce car use and protect monuments.
- ✓ **Traffic Management for Heavy Vehicles:** Designated routes for heavy vehicles have been established to avoid the historic center, using electronic signage to redirect traffic.
- ✓ **Improvement of Public Spaces:** Enhancement of pedestrian pathways and public walkways, ensuring accessibility and safety for residents and tourists.

Activities under SULPs

- ✓ **Stakeholder Engagement:** Regular stakeholder meetings, open debates, and collaborative events to involve logistics operators, local businesses, and authorities in the planning process.
- ✓ **Urban Consolidation Centers (UCC):** Exploration of UCCs to consolidate deliveries, reduce the number of logistics vehicles, and alleviate congestion in the city center.
- ✓ **Loading/Unloading Regulations**: Implementation of designated loading/unloading areas, monitored with electronic access systems to ensure smooth and regulated delivery operations.
- ✓ **Promotion of Eco-Friendly Vehicles:** Encouragement of the adoption of electric vans and low-emission vehicles for deliveries, particularly within the historic areas.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Congestion:** The introduction of restricted traffic zones and regulated delivery times has helped minimize congestion in the historic center.
- ✓ **Improved Air Quality:** Promotion of clean vehicles for logistics operations has contributed to a significant reduction in emissions, benefiting residents and preserving historic structures.
- ✓ **Enhanced Pedestrian Experience:** The expansion of pedestrian pathways and the creation of restricted areas have improved the safety and livability of the city center

Expected Impact

Burgos's initiatives are expected to continue reducing emissions, enhance the attractiveness of the historic city center, and improve logistics efficiency. The promotion of clean vehicles and the introduction of Urban Consolidation Centers will further improve livability and environmental quality.

Challenges

- ✓ **Stakeholder Compliance:** Ensuring that logistics companies adopt new delivery regulations and eco-friendly vehicles can be challenging.
- ✓ **Balancing Mobility and Heritage:** Maintaining a balance between efficient urban mobility and the preservation of historical areas is an ongoing challenge.

Opportunities

- ✓ **Expansion of Urban Consolidation Centers:** The establishment of UCCs presents an opportunity to further reduce delivery traffic and emissions.
- ✓ **Adoption of Electric Vehicles:** There is significant potential for expanding the use of electric and hybrid vehicles for logistics, improving the city's environmental footprint.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

The adoption of electric vehicles and consolidation of logistics has led to significant emissions reductions, particularly in the historic center. These measures contribute to cleaner air and reduced noise pollution.

Social benefits

The expansion of pedestrian-friendly zones and improved cycling infrastructure has made Alba lulia a more vibrant, accessible city, benefiting residents and tourists alike by creating safer, quieter, and more enjoyable public spaces.

Future vision

Burgos aims to expand its efforts by implementing more Urban Consolidation Centers, promoting electric vehicles, and further enhancing pedestrian areas. The city envisions a sustainable, accessible, and historically preserved urban core.

Next steps

Planned initiatives include expanding the network of consolidation centers, increasing incentives for clean vehicle use, and enhancing the controlled access system for the historic center. These steps will help Burgos achieve its sustainability and livability goals.

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Best practices in city logistics

Funded by the European Union

Introduction to Dundee's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Dundee is working towards building a sustainable future through its comprehensive approach to urban mobility and logistics.
- The city's SUMP aims to reduce car dependency by promoting active and public transport
- The SULP focuses on optimizing freight logistics through consolidation and cleaner delivery solutions

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The importance and the objectives of Dundee's SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are key to reducing congestion, improving air quality, and ensuring a livable city for residents.
- ✓ Dundee's integrated plans balance the need for efficient movement of people and goods while minimizing environmental impact.

Key Goals

- ✓ **SUMP Goals:** Promote cycling and walking, improve public transport efficiency, and reduce car usage.
- ✓ **SULP Goals:** Optimize freight delivery operations, promote electric vehicles, and manage urban logistics to minimize disruption.

Sustainable mobility and logistics focus

Dundee's plans aim to create a balance between enhancing public spaces for people while ensuring efficient movement of goods through smart logistics solutions

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Key Activities and Strategies of Dundee's SUMPs and SULPs

Activities under SUMPs

- ✓ **Promotion of Active Transport Modes:** Investment in cycling infrastructure, such as bike lanes, and the development of pedestrian pathways to encourage residents to choose sustainable transport options.
- ✓ **Public Transport Enhancements**: Increase in bus frequency and establishment of bus priority lanes to ensure faster, more reliable public transport, particularly during peak hours.

Activities under SULPs

- ✓ **Urban Consolidation Centre (UCC):** Establishment of a UCC to consolidate deliveries, minimizing the number of freight vehicles entering the city and reducing emissions from logistics operations.
- ✓ **Promotion of Electric Delivery Vehicles**: Incentives provided for logistics operators to adopt electric vehicles for deliveries within the city, thereby lowering the environmental impact.
- ✓ **Loading and Unloading Area Management:** Designated zones and time slots for loading and unloading have been implemented to minimize conflicts with general traffic and enhance efficiency.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Increased Active Transport Use:** Investments in cycling and pedestrian infrastructure have led to a rise in active transport, reducing reliance on cars.
- ✓ **Reduced Congestion:** Bus priority lanes and increased service frequencies have improved the efficiency of public transport, encouraging more residents to switch from cars to buses,
- ✓ **Optimized Freight Traffic:** The Urban Consolidation Centre has reduced the number of delivery vehicles in the city center, resulting in less congestion.

Expected Impact

The continued promotion of electric delivery vehicles and the use of the UCC are expected to further reduce emissions, improve air quality, and enhance the efficiency of logistics operations in Dundee.

Challenges

- ✓ **Adoption of New Logistics Practices:** Encouraging logistics operators to adopt electric vehicles and utilize the UCC can be challenging due to costs and operational changes.
- ✓ **Infrastructure Adaptation:** Ensuring that infrastructure development keeps pace with the city's sustainability goals requires significant planning and investment.

Opportunities

- ✓ **Expansion of Electric Vehicle Use:** Expanding the incentives for electric logistics vehicles presents an opportunity to make urban logistics more sustainable.
- ✓ **Public Engagement and Awareness:** Continued campaigns to promote public and active transport can lead to even greater adoption of sustainable travel behaviors.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

The promotion of electric delivery vehicles and the use of the UCC have led to lower emissions in the city center, contributing to better air quality and reduced noise pollution.

Social benefits

Improvements in cycling and pedestrian infrastructure, combined with reduced congestion, have enhanced quality of life for Dundee residents, making the city more accessible and enjoyable.

Future vision

Dundee aims to continue its journey towards becoming a leader in sustainable urban mobility and logistics by expanding electric vehicle use, optimizing freight logistics, and enhancing public and active transport options. The vision includes a city where people can move freely and efficiently, and goods are transported in an environmentally friendly manner.

Next steps

Planned initiatives include expanding electric vehicle incentives, increasing the capacity of the UCC, and promoting further active transport campaigns. These initiatives will help Dundee meet its sustainability targets.

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Best practices in city logistics

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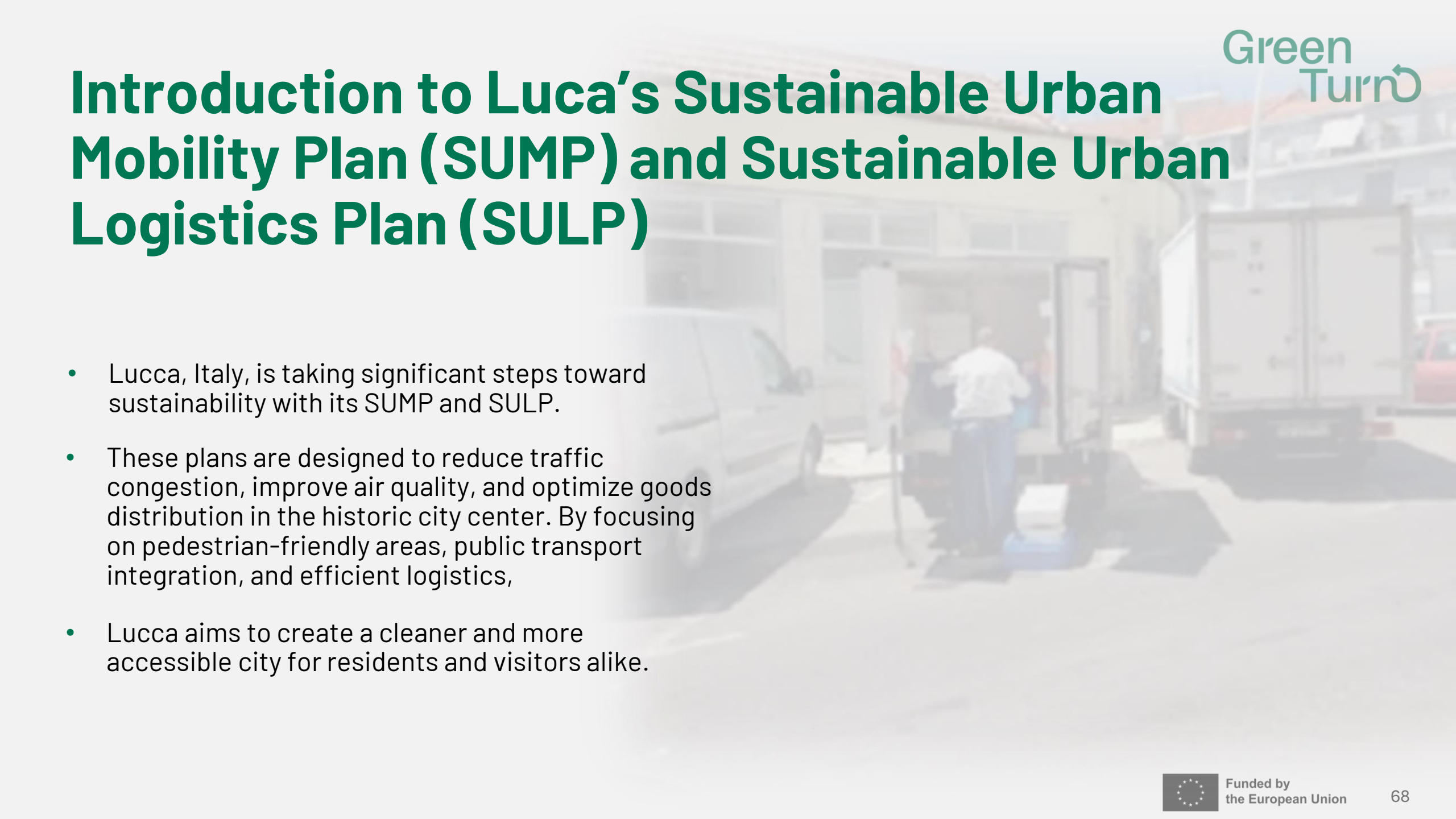
Introduction to Luca's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)



- Lucca, Italy, is taking significant steps toward sustainability with its SUMP and SULP.
- These plans are designed to reduce traffic congestion, improve air quality, and optimize goods distribution in the historic city center. By focusing on pedestrian-friendly areas, public transport integration, and efficient logistics,
- Lucca aims to create a cleaner and more accessible city for residents and visitors alike.

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The importance and the objectives of Lucca’s SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are crucial to improving urban quality of life.
- ✓ Lucca's SUMP and SULP initiatives aim to reduce car dependency, minimize pollution, and streamline logistics.
- ✓ These efforts make the city more livable and environmentally sustainable

Key Goals

- ✓ **SUMP Goals:** Promote walking and cycling, integrate public and private transport modes, and enhance traffic management.
- ✓ **SULP Goals**: Optimize freight distribution, promote the use of electric vehicles, and minimize the impact of logistics on the historic city center.

Creating a pedestrian-friendly historic center

- ✓ Lucca’s SUMP focuses on making the historic city center more accessible by prioritizing pedestrian and cycling infrastructure.
- ✓ This initiative encourages non-motorized transport, creating a safer and more vibrant city core.

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Key Activities and Strategies of Lucca's SUMPs and SULPs

Activities under SUMPs

- ✓ **Promotion of Pedestrian and Cycling Zones:** Expansion of pedestrian areas in the historic center, making it easier for people to walk or cycle rather than use cars.
- ✓ **Integration of Public and Private Transport:** Providing bike-sharing facilities near public transport stations to enable smooth transitions between cycling and public transport modes.
- ✓ **Traffic Management:** Introduction of intelligent transport systems (ITS) to manage traffic flow, reduce congestion, and enhance the safety of pedestrian zones.

Activities under SULPs

- ✓ **Urban Consolidation Centre (UCC):** Establishment of Lucca Port, an Urban Consolidation Centre that reduces the number of freight vehicles entering the historic center by consolidating deliveries.
- ✓ **Promotion of Electric Vehicles:** Incentives for logistics operators to use electric vehicles for deliveries within the historic center, contributing to lower emissions.
- ✓ **Access Restrictions:** Specific time-based access restrictions for freight vehicles in the historic areas, allowing only environmentally friendly vehicles during certain hours.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Car Dependency:** The promotion of pedestrian and cycling zones has successfully decreased car use, particularly in the historic parts of Lucca.
- ✓ **Optimized Freight Traffic**: The use of the Urban Consolidation Centre has reduced the number of freight vehicles entering the city center, leading to less congestion.
- ✓ **Improved Air Quality:** Electric vehicles for deliveries and enhanced traffic management have led to significant reductions in emissions, making Lucca's air cleaner.

Expected Impact

The continued promotion of electric vehicles and pedestrian zones, combined with efficient freight consolidation, is expected to further reduce emissions, improve air quality, and enhance the historic charm of Lucca.

Challenges

- ✓ **Stakeholder Buy-In:** Getting logistics operators to use the Urban Consolidation Centre and switch to electric vehicles can be challenging due to initial costs.
- ✓ **Managing Historic Infrastructure:** Balancing the need for modern transport solutions with preserving Lucca's historic infrastructure requires careful planning.

Opportunities

- ✓ **Expansion of Pedestrian Zones:** There is an opportunity to expand pedestrian-friendly areas further, enhancing the city's walkability.
- ✓ **Increased Adoption of Electric Vehicles:** Providing additional incentives for electric vehicles can further lower emissions and promote sustainability.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

Lucca's initiatives, including the promotion of electric vehicles and the use of the Urban Consolidation Centre, have led to lower emissions and better air quality in the city, particularly in the historic core.

Social benefits

- ✓ Pedestrian zones and cycling infrastructure have improved the quality of life for residents, making the city safer and more enjoyable for everyone.
- ✓ These initiatives have also made Lucca's historic areas more attractive to tourists.

Future vision

- ✓ Lucca aims to further enhance its mobility and logistics systems by expanding pedestrian zones, promoting electric vehicles, and integrating more ITS solutions.
- ✓ The vision includes a city that maintains its historic charm while embracing sustainable mobility and efficient logistics.

Next steps

- ✓ Planned initiatives include increasing the capacity of the Urban Consolidation Centre, expanding incentives for electric logistics vehicles, and promoting further integration between public transport and cycling.
- ✓ These initiatives will ensure Lucca meets its sustainability goals.

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Best practices in city logistics

Funded by the European Union

Introduction to Serres Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Serres is making significant strides in improving urban sustainability through its comprehensive SUMP and SULP initiatives.
- The city aims to create a more livable environment by promoting active transport, managing freight effectively, and reducing congestion in the central areas.

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The importance and the objectives of Serres' SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are key elements in improving air quality, managing traffic congestion, and ensuring a high quality of life for residents.
- ✓ Serres' integrated approach focuses on developing infrastructure for pedestrians and cyclists, enhancing logistics efficiency, and minimizing the environmental impact of freight.

Key Goals

- ✓ **SUMP Goals:** Expand pedestrian and cycling infrastructure, reduce car usage in central areas, and improve traffic flow through controlled parking.
- ✓ **SULP Goals:** Optimize freight logistics, promote energy-efficient logistics operations, and enhance stakeholder collaboration.

Focus on active transport and logistics

- ✓ Serres' SUMP and SULP initiatives in Serres aim to create a more sustainable urban environment by promoting walking, cycling, and regulated logistics.
- ✓ By managing freight operations effectively and improving infrastructure, Serres aims to reduce congestion and enhance urban livability

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Key Activities and Strategies of Serres' SUMPs and SULPs

Activities under SUMPs

- ✓ **Pedestrian and Cycling Infrastructure:** Expansion of pedestrian pathways and construction of cycling lanes to encourage active transport, particularly in the historic and commercial parts of the city.
- ✓ **Controlled Parking Expansion:** Implementation of controlled parking areas to manage traffic effectively and discourage car use in the central parts of Serres.
- ✓ **Park and Ride Facilities:** Establishment of three park-and-ride facilities outside the central area to reduce car traffic in the city center, encouraging residents and visitors to use alternative transport modes.

Activities under SULPs

- ✓ **Freight Traffic Regulation:** Implementation of specific access regulations for freight vehicles to manage their movement in the commercial areas of the city, particularly during peak hours.
- ✓ **Energy-Efficient Logistics:** Promotion of energy-efficient vehicles for urban logistics to reduce emissions and align with environmental sustainability goals.
- ✓ **Stakeholder Collaboration:** Involvement of key stakeholders, such as freight operators and local shopkeepers, to ensure sustainable logistics measures are both effective and community-supported.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Increased Use of Active Transport:** Investments in pedestrian and cycling infrastructure have encouraged more residents to choose walking or cycling for short trips, reducing reliance on cars.
- ✓ **Improved Traffic Management:** The expansion of controlled parking areas and park-and-ride facilities has helped ease congestion in the central areas, making it easier for residents and visitors to navigate the city.
- ✓ **Reduced Congestion in Commercial Areas:** Freight access regulations have minimized the impact of logistics operations on busy city zones, leading to smoother traffic flow and less congestion.

Expected Impact

- ✓ Continued development of cycling and pedestrian infrastructure, along with the promotion of energy-efficient logistics, is expected to further enhance the quality of life in Serres.
- ✓ These initiatives will improve air quality, reduce noise, and make the city more accessible.

Challenges

- ✓ **Freight Regulation Compliance:** Ensuring freight operators comply with new access regulations can be challenging, requiring consistent enforcement and stakeholder cooperation.
- ✓ **Behavioral Change:** Encouraging a shift from car use to active transport modes involves changing long-standing habits, which requires effective awareness campaigns.

Opportunities

- ✓ **Expansion of Cycling and Pedestrian Paths:** Opportunities exist to extend cycling and pedestrian paths further, connecting more neighborhoods to the central areas.
- ✓ **Promotion of Energy-Efficient Vehicles:** Increasing the incentives for energy-efficient vehicles can further reduce emissions from logistics operations and contribute to a cleaner urban environment.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

- ✓ The promotion of energy-efficient logistics and expansion of pedestrian areas have led to reduced emissions and improved air quality in Serres.
- ✓ These initiatives contribute to a cleaner and quieter city center, benefiting all residents.

Social benefits

- ✓ Investments in pedestrian infrastructure have made the city more accessible and safer, encouraging social interactions and creating vibrant public spaces.
- ✓ Reduced congestion has also led to quieter, more pleasant environments in commercial areas.

Future vision

- ✓ Serres aims to continue its journey towards a more sustainable urban future by expanding cycling and pedestrian paths, promoting energy-efficient logistics, and enhancing traffic management.
- ✓ The goal is to make Serres a cleaner, greener, and more accessible city for all.

Next steps

- ✓ Planned initiatives include further expanding park-and-ride facilities, enhancing pedestrian zones, and providing more incentives for energy-efficient logistics solutions.
- ✓ These steps will help Serres continue to improve urban mobility and logistics sustainably.

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Best practices in city logistics

City/Country	SUMP actions	SULP actions
Limassol, Cyprus	✓ Expansion of bike-sharing systems. ✓ Improvements to public transport schedules and ticketing. ✓ Infrastructure for electric vehicles, such as charging stations.	✓ Establishment of smart parking systems for freight vehicles. ✓ Incentives for electric logistics vehicles. ✓ Development of Urban Consolidation Centers (UCC).
Valletta, Malta	✓ Introduction of pedestrian-only areas. ✓ Promotion of electric vehicle use. ✓ Improved cycling and pedestrian infrastructure.	✓ Establishment of Urban Consolidation Centers. ✓ Regulations for improved use of loading bays. ✓ Incentives for electric vehicle use in logistics.
Las Palmas, Spain	✓ Promotion of electric vehicles for public and private use. ✓ Charging infrastructure development. ✓ Stakeholder engagement to promote sustainable practices.	✓ Implementation of last-mile delivery services using electric vans. ✓ Establishment of dedicated freight zones with time restrictions. ✓ Use of intelligent transport systems for efficient logistics management.

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Introduction to Limassol Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Limassol, Cyprus, is striving for a sustainable urban future through its SUMP and SULP initiatives.
- These plans focus on reducing congestion, promoting electric vehicle adoption, and optimizing logistics.
- By addressing both mobility and logistics, Limassol aims to enhance urban quality of life and environmental sustainability.

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The importance and the objectives of Limassol's SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are crucial for reducing traffic congestion, improving air quality, and ensuring efficient goods movement.
- ✓ Limassol's plans are designed to balance the needs of residents, tourists, and businesses while creating a cleaner, more accessible urban environment.

Key Goals

- ✓ **SUMP Goals:** Reduce congestion, improve traffic flow, and enhance air quality through better traffic management and stakeholder collaboration.
- ✓ **SULP Goals:** Optimize urban freight logistics, promote the use of electric vehicles, and implement smart parking solutions for freight vehicles.

Creating a cleaner and more efficient city

- ✓ Limassol's SUMP and SULP work hand-in-hand to create a sustainable urban environment.
- ✓ The focus is on reducing vehicle emissions, improving logistics efficiency, and ensuring safe mobility for residents and tourists.

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Key Activities and Strategies of Limassol's SUMPs and SULPs

Activities under SUMPs

- ✓ **Emission Reduction Efforts:** Measures taken to improve traffic flow and reduce congestion include better traffic management, which aims to decrease emissions and noise pollution.
- ✓ **Access Control Systems:** Implementation of an access control system that limits vehicle entry based on the type of goods, area, and timetable, making traffic flow more manageable.
- ✓ **Stakeholder Engagement:** Regular meetings with local stakeholders, including logistics operators and transport authorities, to collaboratively define efficient freight logistics solutions.

Activities under SULPs

- ✓ **Urban Consolidation Center (UCC):** Establishment of an Urban Consolidation Center to centralize and optimize freight deliveries, reducing the number of vehicles entering the city center.
- ✓ **Electric Vehicle Integration:** Promotion of electric delivery vehicles to decrease emissions, especially during last-mile deliveries.
- ✓ **Smart Parking Guidance System**: Implementation of a smart parking system to help logistics vehicles locate suitable parking, reducing idling times and congestion.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Congestion:** Implementation of access control and traffic management measures has led to a reduction in congestion, especially during peak hours.
- ✓ **Lower Emissions:** The use of electric vehicles and logistics consolidation has contributed to lower emissions, improving air quality throughout Limassol.
- ✓ **Efficient Goods Distribution:** The Urban Consolidation Center and smart parking guidance system have optimized logistics, making deliveries more efficient and reducing the environmental footprint of urban freight

Expected Impact

- ✓ The ongoing use of electric vehicles and the Urban Consolidation Center is expected to further reduce emissions and enhance logistics efficiency.
- ✓ Smart parking solutions will also continue to improve urban traffic flow, benefiting residents and businesses.

Challenges

- ✓ **Adoption of New Technologies:** Encouraging logistics operators to switch to electric vehicles and use the Urban Consolidation Center requires overcoming cost and operational challenges.
- ✓ **Stakeholder Coordination:** Maintaining continuous engagement with stakeholders to ensure smooth implementation of logistics and mobility measures can be challenging.

Opportunities

- ✓ **Expansion of Electric Vehicle Use:** There is an opportunity to further incentivize the adoption of electric vehicles in logistics, contributing to sustainability goals.
- ✓ **Enhanced Public Engagement:** Increased engagement with residents and stakeholders can boost support for sustainable logistics and mobility initiatives, improving the effectiveness of the measures.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

- ✓ The implementation of electric vehicles and logistics consolidation measures has led to lower emissions and improved air quality in Limassol, benefiting both residents and the environment.

Social benefits

- ✓ The reduction in congestion, particularly during peak hours, and improved air quality have made Limassol's urban environment safer and more pleasant for residents and tourists.

Future vision

- ✓ Limassol envisions a future with expanded pedestrian zones, increased electric vehicle use, and further optimization of freight logistics through smart solutions.
- ✓ The goal is to continue enhancing air quality, reducing congestion, and creating a vibrant urban space.

Next steps

- ✓ Upcoming initiatives include expanding electric vehicle incentives, increasing the capacity of the Urban Consolidation Center, and promoting the adoption of smart parking technologies for logistics vehicles.

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Introduction to Valletta's Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Valletta, Malta, is striving towards a sustainable urban future through its SUMP and SULP initiatives.
- These plans focus on reducing congestion, promoting electric vehicle adoption, and optimizing logistics to improve urban quality of life and environmental sustainability.

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The importance and the objectives of Valletta's SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are essential for reducing traffic congestion, enhancing air quality, and ensuring efficient goods movement.
- ✓ Valletta's approach aims to balance the needs of residents, tourists, and businesses while promoting a cleaner, more accessible urban environment

Key Goals

- ✓ **SUMP Goals:** Reduce vehicle emissions, improve pedestrian accessibility, and create efficient mobility solutions for residents and visitors.
- ✓ **SULP Goals:** Streamline logistics operations, minimize congestion through consolidation centers, and promote the use of electric vehicles for deliveries.

Focus on livability and efficiency

- ✓ Valletta's SUMP and SULP initiatives are designed to create a cleaner and more accessible urban environment.
- ✓ Key activities include reducing traffic congestion, optimizing logistics through consolidation centers, and promoting electric vehicle usage.

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Key Activities and Strategies of Valletta's SUMPs and SULPs

Activities under SUMPs

- ✓ **Pedestrian Access Regulation:** Restricting access to pedestrian zones to cleaner, low-emission vehicles to reduce congestion and improve air quality in the city center.
- ✓ **Improving Loading Bays:** Enhancing the use of loading bays with specific time restrictions for deliveries to improve freight logistics and reduce congestion.
- ✓ **Public Procurement of Electric Vehicles:** Procuring electric vehicles for public services, such as waste collection, to reduce emissions.

Activities under SULPs

- ✓ **Urban Consolidation Centre (UCC):** Establishment of an Urban Consolidation Centre to manage deliveries within pedestrian zones, minimizing the number of individual delivery vehicles entering the city.
- ✓ **Locker Boxes for Last-Mile Delivery:** Implementation of locker boxes for e-commerce and parcel deliveries to reduce delivery vehicle circulation within the city center.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Emissions:** The use of electric vehicles in city operations has led to a significant reduction in emissions.
- ✓ **Optimized Freight Traffic:** The establishment of the Urban Consolidation Centre has minimized the number of delivery vehicles entering pedestrian zones, reducing congestion.
- ✓ **Improved Delivery Efficiency:** Locker boxes have made last-mile delivery more efficient, reducing the need for multiple delivery trips.

Expected Impact

- ✓ The ongoing use of electric vehicles, the Urban Consolidation Centre, and locker boxes for deliveries are expected to further reduce emissions, improve air quality, and streamline logistics in Valletta.

Challenges

- ✓ **Logistics Coordination:** Encouraging logistics operators to adopt the Urban Consolidation Centre requires overcoming logistical and cost barriers.
- ✓ **Stakeholder Adoption:** Ensuring that all stakeholders participate actively in the use of locker boxes and electric vehicle incentives can be challenging.

Opportunities

- ✓ **Expansion of Locker Box Use:** Locker boxes provide an opportunity to further enhance the efficiency of last-mile deliveries, particularly for e-commerce.
- ✓ **Increased Electric Vehicle Incentives:** There is potential to expand incentives for logistics operators to use electric vehicles, further reducing emissions.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

- ✓ The implementation of electric vehicles and logistics consolidation measures has significantly improved air quality in Valletta, reducing emissions and noise pollution.

Social benefits

- ✓ Reducing congestion and emissions has made Valletta's urban environment safer and more pleasant for residents and tourists.
- ✓ The pedestrian zones have improved accessibility and created more attractive public spaces.

Future vision

- ✓ Valletta envisions a future with expanded pedestrian-friendly areas, increased electric vehicle usage, and further optimization of logistics through smart solutions like locker boxes.
- ✓ The goal is to create a vibrant and sustainable urban environment.

Next steps

- ✓ Upcoming initiatives include expanding the use of locker boxes, increasing incentives for electric vehicles, and optimizing the Urban Consolidation Centre to meet growing demands.

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Introduction to Las Palmas Sustainable Urban Mobility Plan (SUMP) and Sustainable Urban Logistics Plan (SULP)

- Las Palmas is making strides towards a more sustainable future with its focus on urban mobility and logistics. Through its SUMP and SULP, the city aims to enhance the quality of life for its residents by reducing emissions, promoting clean transportation, and optimizing logistics operations.
- The focus is on implementing energy-efficient transport solutions, establishing consolidation centers, and integrating intelligent transport systems.

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The importance and the objectives of Las Palmas SUMPs and SULPs

Importance

- ✓ Sustainable Urban Mobility and Logistics are critical for reducing environmental impact, optimizing the movement of people and goods, and enhancing urban livability.
- ✓ Las Palmas aims to achieve these goals by transitioning to cleaner transport modes and more efficient logistics operations.

Key Goals

- ✓ **SUMP Goals:** Promote the use of energy-efficient vehicles, enhance public transport infrastructure, and engage stakeholders in sustainable mobility initiatives.
- ✓ **SULP Goals:** Optimize urban freight logistics through consolidation centers, promote last-mile delivery solutions, and reduce emissions through cleaner logistics vehicles.

Focus on sustainable mobility and logistics

- ✓ Las Palmas aims to create a sustainable urban environment through investments in energy-efficient transport, infrastructure improvements, and modern logistics solutions.
- ✓ These efforts are designed to reduce congestion and promote a cleaner, greener city.

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Key Activities and Strategies of Las Palmas SUMPs and SULPs

Activities under SUMPs

- ✓ **Energy Efficient Vehicles:** Introduction of electric and hybrid vehicles to replace traditional public and private transportation fleets. This initiative aims to reduce the carbon footprint of urban mobility.
- ✓ **Infrastructural Improvements**: Investment in charging stations across the city to support electric vehicles and encourage their adoption among residents and logistics operators.
- ✓ **Stakeholder Engagement:** Collaboration with transportation companies, local businesses, and community stakeholders to align sustainability goals with public expectations.

Activities under SULPs

- ✓ **Intelligent Transport Systems (ITS):** Use of ITS to manage logistics effectively, including the control and management of loading and unloading areas, reducing congestion and ensuring efficient freight operations.
- ✓ **Last Mile Delivery Solutions:** Promotion of electric vehicles for last-mile delivery services, minimizing emissions and contributing to a cleaner urban environment.
- ✓ **Freight Traffic Management:** Implementation of specific zones and time restrictions for freight deliveries to reduce conflicts with other urban activities.

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Results Achieved/ Expected Impact/ Challenges and Opportunities

Achievements

- ✓ **Reduced Emissions:** Adoption of energy-efficient vehicles and improvements in infrastructure have led to significant reductions in CO2 emissions.
- ✓ **Optimized Freight Movement:** The establishment of Urban Consolidation Centers and the use of ITS have improved freight logistics, reducing the number of vehicles on the road.
- ✓ **Improved Air Quality:** Electric vehicle use for last-mile delivery has contributed to improved air quality, particularly in the city center.

Expected Impact

- ✓ The continued focus on electric vehicle adoption, consolidation centers, and intelligent transport systems will further reduce emissions, improve air quality, and enhance the efficiency of logistics operations in Las Palmas.

Challenges

- ✓ **Infrastructure Development:** Expanding the charging station network and ensuring that logistics hubs are accessible requires ongoing investment.
- ✓ **Stakeholder Compliance:** Encouraging logistics operators to adopt electric vehicles and utilize consolidation centers may require additional incentives and education

Opportunities

- ✓ **Expansion of Electric Vehicle Infrastructure:** Increasing the number of charging stations presents an opportunity to promote electric vehicle use further, both for public and logistics purposes.
- ✓ **Public-Private Partnerships:** Collaborations between the city, logistics companies, and private stakeholders can enhance the efficiency of freight distribution and encourage innovation.

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Environmental / Social Benefits / Future Vision and Next Steps

Environmental benefits

- ✓ The promotion of electric vehicles and the use of Urban Consolidation Centers have contributed to lower emissions and better air quality. These measures are making Las Palmas a cleaner, healthier place to live.

Social benefits

- ✓ Reduced congestion, cleaner air, and efficient logistics operations have enhanced the quality of life for residents, making Las Palmas a more attractive and livable city.
- ✓ The efforts have also improved accessibility and safety in urban areas.

Future vision

- ✓ Las Palmas aims to expand its electric vehicle infrastructure, enhance the use of intelligent transport systems, and further develop urban consolidation centers.
- ✓ The goal is to create a city that efficiently balances mobility needs with environmental sustainability.

Next steps

- ✓ Planned initiatives include expanding the charging station network, increasing electric vehicle adoption incentives, and promoting public-private partnerships for sustainable logistics.
- ✓ These actions are designed to ensure that Las Palmas continues on its path to becoming a leading sustainable city.

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