SUSTAINABLE URBAN MOBILITY PLAN TRAINING WORKSHOP

Module 4 – Problems, Vision and Objectives
Sustainable Urban Mobility Plans:

**SUMP Problem Analysis:**

Important to know current mobility status:
- Draws from the data collection on urban mobility patterns & issues
- Quantified review of the current status of important mobility and transport developments both for passengers/freight
- Prepare a list of deficits, problems and opportunities that relate to urban transport and mobility
- Develop a better understanding of what you really need to know to enhance SUMP planning
- Identify data availability and quality, accessibility and secure coverage of data requirements for SUMP area
- Prepare baseline analysis to identify and prioritise key problems to be addressed by the Plan
Sustainable Urban Mobility Plans:

SUMP Problem Analysis:

Identify problems and priorities on the basis of clear evidence and data including:

- demographic and socio-economic trends
- environmental issues
- economic circumstances
- existing transport infrastructure capacity
- travel patterns and trip rates
- connectivity of existing networks
- stakeholder views
Sustainable Urban Mobility Plans:

**SUMP Problem Analysis:**

**Self-assessment:**
- Status-analysis and assessment by the municipality on processes and success stories
- Identifying strengths and weaknesses (SWOT)

**Mobility Trend Analysis:**
- What does this show us **about** how mobility is changing over time?

**External requirements - EU and national standards and targets**

**Stakeholder Engagement:**
- Stakeholder consultation – understanding what works (and not)?

**Benchmarking:**
- Comparison of performance against other similar cities:
  - Infrastructure, mobility patterns, operational performance etc.
Sustainable Urban Mobility Plans:  
*SUMP Problem Analysis:*

2 main types of analysis:

- **Strategic**: connection between SUMP & other key policy documents:
  - Helps develop vision and high level objectives
  - Cohesive view on strategic issues relating to transport within urban area
  - Guiding principles for specific problems and analysis

- **Specific**: define baseline „business as usual” transport system
  - Provides a reference case for analysis and assessment of the measures
    - Use existing state transport model and develop Business-as-Usual Future Model
  - Identify current and future mobility issues (problems/potentials)
    - Overall system, network, operations, users etc.
Sustainable Urban Mobility Plans: 

**SUMP Problem Analysis:**

Demand, operations, organisation and infrastructure analysis:

- Demographic/land-use and economic development plans/patterns
- Assessment of current and future traffic demand volumes and transport functionality for the urban area covering both passengers and freight
- Organisation/Operations of the transport sector overall and per mode (eg. institutional structure, integration, operational requirements, passenger and freight traffic/demand management, parking etc.
- Accessibility per mode
- Quantity and quality of infrastructure per mode
- Quantity and quality of rolling stock per category per mode
- Transport capacity, network bottlenecks etc.
Sustainable Urban Mobility Plans: 

**SUMP Problem Analysis:**

Environment, safety and social analysis:

- Safety and security of the transport system.
- Equal accessibility for passengers, especially for people with reduced mobility.
- Emissions, noise/vibrations, energy sources etc.
- Mitigation of impacts on the environment.
- Climate change mitigation/adaptation, disaster vulnerability.

SEA environmental data is analysed:

- Inform environmental objectives, the definition of future trends and strengths, weaknesses and opportunities.
- Linked and consistent with the analysis of environmental issues performed within SUMP.
Sustainable Urban Mobility Plans:  
*SUMP Problem Analysis*

Number of key outcomes of this work:

- Summary of assumptions of Business-as-usual transport system and future transport model
- Analysis of main existing policy/planning basis on which SUMP based
- Set of specific main transport system problems based on analysis
- Future environmental trends including strengths, weaknesses and opportunities, as well as set of environmental objectives.
Sustainable Urban Mobility Plans: Developing a SUMP Vision:

- Analysis of current and future problems and opportunities for mobility:
  - Set of objectives for development of system can be established
  - Objectives are independent from specific solutions (measures):
    - Range of measures to be proposed/assessed to address them.
    - Objectives focused on desired results & impacts of actions/measures.
Sustainable Urban Mobility Plans: 
**SUMP Vision, Strategy & Objectives:**

- **Vision and High Level Objectives:**
  - Vision concisely sets the conditions of transport system to be established
  - Framework of objectives for the development of transport system:
    - Draws on the analysis work undertaken
    - Provides a framework for future appraisal and evaluation
  - Objectives are independent from specific solutions (measures):
    - Range of measures can be proposed to address SUMP objectives
    - Objectives focused on results and impacts of actions
  - High level objectives developed in line with Vision
    - Reflects outcome of analysis work
  - Specific SUMP Objectives:
    - Establish a link between high level policy/problems and real mobility issues
Sustainable Urban Mobility Plans: SUMP Vision, Strategy & Objectives:

• Definition of Vision, Objectives and Performance Indicators:

Analysis of current & future problems

Conceptual framework of objectives for transport system

Overall urban mobility vision

High level objectives

Priority themes:
• Accessibility
• Safety & Security
• Environment & Climate Change
  • Integration
  • Economy
  • Quality of life
Sustainable Urban Mobility Plans: 
**SUMP Vision, Strategy & Objectives**

- **Example:**

  To significantly reduce public transport travel time by x% from a suburban housing area to the city centre

  - Demand analysis shows high car modal share on corridor
  - Accessibility analysis shows poor travel time performance for public transport

- **Strategic backbone of the SUMP:**
  - Guidelines on which system can develop & targets set
Key Performance Indicators (KPIs) are defined for select number of SUMP objectives (High level):

- Targets defined for these where feasible
- Usually relate to quantified policy goals (e.g. public transport passengers)
- Show an expected time horizon for their achievement

KPI targets used to assess overall SUMP and monitored as part of an ongoing evaluation process

With SEA there should be consistency between the environmental and SUMP objectives
Sustainable Urban Mobility Plans: Developing a SUMP Vision:

- A vision is an important qualitative description of the desired future:

> Imagine your city in 20 years: what would you want it to look like? A place where children can play safely? Where the air is clean? Where you can walk to do your shopping? With lots of parks and green space? Where businesses can prosper?

-European Union, 2013: Developing and Implementing a Sustainable Urban Mobility Plan

- Specifying social, environmental or economic improvements required
- Elements that should be “reduced”, “increased“ or “maintained”
Sustainable Urban Mobility Plans: Developing a SUMP Vision:

• Vision for future city development:
  – Accommodating future growth – housing, economic development
  – Attracting investment
  – Responding to environmental pressures – air quality and pollution etc.
  – Maintaining heritage fabric of an urban area
  – Meeting future travel demand

• Longer-term planning – 15 years
• Investment programme to deliver vision
• Clear targets set to monitor performance
Sustainable Urban Mobility Plans: 
*Developing a SUMP Vision & Objectives*

- Definition of objectives provides focus and structure between development of the vision and target-setting
- Continued stakeholder involvement essential to ensure acceptance of urban mobility priorities
- Specification of what SUMP will achieve reflecting the vision
- Formulation of measurable objectives clearly linked to accurate data collated
- Build on the vision by analysing its implications for the objectives.
Sustainable Urban Mobility Plans: 
*Developing a SUMP Vision & Objectives*

- Assess the priorities for mobility together with key stakeholders:
  - Select overall themes that reflect the needs of stakeholders and citizens in the urban area
- Define clear and measurable objectives that help to orientate measure selection and design:
  - Specify what should be achieved and when
What is a potential SUMP Vision?

“To develop and maintain an integrated transport network which promotes safety and sustainability and contributes to creating a better quality of life for people living, working or visiting”

Objectives:

- To manage the transport network effectively to provide network efficiency, *reduce unnecessary delays and traffic congestion*
- To maintain and improve the transport infrastructure
- To *maintain and improve accessibility* to facilities and services for all – including pedestrians, cyclists and bus users, and particularly for disadvantaged people
To maintain and improve transport and community safety and security, including reducing perceived danger.

To improve environmental conditions for communities by reducing the adverse effects of transport on the city’s environment.

To promote and encourage healthier and more sustainable travel choices and improved ‘quality of life’.
Sustainable Urban Mobility Plans: Strategic Themes for a SUMP

**ECONOMY**
- Improving competitiveness and productivity

**SOCIETY**
- Tackling economic and social disadvantage

**ENVIRONMENT**
- Promoting environmental sustainability

**IMPROVING CONNECTIVITY**
- Connectivity: to the rest of the world is a vital element to create a successful economy.
- Improving journey time reliability will help boost productivity, increase access to markets and attract inward investment.
- Targeted expansion of urban road network
- Supporting tourism aspirations

**INCREASING ACCESSIBILITY**
- Accessibility is a key element to establish a fully inclusive society.
- Transport has a key role to play in promoting inclusion by improving access to employment and services, particularly for those who do not have access to private transport.
- Improved public transport system – development of different PT systems

**PROMOTING SUSTAINABILITY**
- Sustainability is a key driver of all strategy and policy areas.
- Addressing congestion, promoting sustainable transport systems and travel behaviour will ensure that negative environmental impacts of travel can be reduced.
- Development of Clean Urban Transport System for the urban area
- Better traffic management including parking regulation
Sustainable Urban Mobility Plans: Linking Vision & Strategy

- SUMP projects identified within scenarios are not always in line with SUMP Vision/Goals
- All projects delivering an SUMP need to be evaluated in terms of contribution to SUMP’s Vision/Goals
- SUMP reveals the real challenges that cities face and how conditions will change if the city remains on its current course
- Alignment of the local policy with regional, national and EU-level frameworks and goals
Sustainable Urban Mobility Plans: From Vision to Reality

- Aim is for:
  - Modal shift away from the private car
  - Integration and priority for Public transport
  - Reallocation of road space to sustainable modes
  - Improved Road Safety and Accessibility
  - Clear forward programme with priorities
  - Value for money
A vision linked to quality of life & green growth

... to make mobility in Copenhagen more efficient and green in order to stimulate growth, contribute to a CO2-neutral city and to the good life for Copenhageners.

Copenhagen in the Future
• The World’s best city for cycles
• Climate Capital
• A green and blue capital city
• A clean and healthy big city
Sustainable Urban Mobility Plans: Helsinki SUMP Vision

- **Functionality**: Public transport, walking and cycling are increasingly popular. The functionality of the transport system improves and logistic reliability is ensured.
- **Economic efficiency**: The transport system is socio-economically efficient and the distribution of costs influences the location of services and mobility choices.
- **Environment**: Green house gas emissions from traffic decrease and energy efficiency improves. Noise and other emissions affecting peoples’ health decrease.
- **Safety**: Traffic safety improves, the sense of security increases and responsible mobility culture develops significantly.
- **Social**: Basic services and jobs are reasonably accessible to everyone irrespective of their level of income, residential area, car ownership or mobility.
- **Land use**: The coherent urban structure of the region relies on good public transport connections, especially on rail transport. Everyday services are accessible by foot and bicycle.
- **High-quality and eco-efficient means of mobility and transport promote development and wellbeing of the Helsinki region.**
Sustainable Urban Mobility Plans: 

*Budapest SUMP Vision*

- Vision & objectives clearly linked to key problems: *fragmentation, lack of cooperation, poor integration* etc.
- Main direction for change is integration
- Transport-specific strategic objectives of the BMT Plan focused on three different kinds of integration:
  - integration of the transport development into the urban development,
  - integration between the various transport modes, and
  - integration between the urban-, the conurbation-, and the regional systems.
Sustainable Urban Mobility Plans:

*Budapest SUMP Vision*

**FUTURE VISION**

BUDAPEST IS A LIVEABLE, ATTRACTIVE CAPITAL CITY WITH A UNIQUE CHARACTER AND A RESPECTED MEMBER OF THE EUROPEAN NETWORK OF CITIES AS THE INNOVATIVE ECONOMIC AND CULTURAL CENTRE OF THE COUNTRY AND THE CITY REGION.

**GENERAL GOAL**

THE TRANSPORT SYSTEM OF BUDAPEST SHOULD IMPROVE THE COMPETITIVENESS OF BUDAPEST AND ITS REGION AND CONTRIBUTE TO A SUSTAINABLE, LIVEABLE, ATTRACTIVE AND HEALTHY URBAN ENVIRONMENT.

**STRATEGIC OBJECTIVES**

1. **I** LIVEABLE URBAN ENVIRONMENT
2. **II** SAFE, RELIABLE AND DYNAMIC TRANSPORT
3. **III** COOPERATION IN REGIONAL CONNECTIONS
Sustainable Urban Mobility Plans: 

Budapest SUMP Vision

FUTURE VISION
Budapest is a liveable, attractive capital city with a unique character and a respected member of the European Network of Cities as the innovative economic and cultural centre of the country and the city region.

GENERAL GOAL
The transport system of Budapest should improve the competitiveness of Budapest and its region and contribute to a sustainable, liveable, attractive and healthy urban environment.

STRATEGIC OBJECTIVES

I Liveable Urban Environment
Integration of the transport development into the urban development

II Safe, Reliable and Dynamic Transport
Integration between the various transport modes

III Cooperation in Regional Connections
Integration between the urban, conurbation and the regional systems

JASPERS EU Sustainable Urban Mobility Plan (SUMP) Training
Sustainable Urban Mobility Plans: 

**Budapest SUMP Vision**

Integration of the transport development into the urban development

Integration between the various transport modes

Integration between the urban, conurbation and the regional systems

Strategic transport objectives developed in more detail in relation to key areas: **infrastructure, vehicles, services** and **institutions required**
‘The vision of the SUMP is to enable movement to and through the BTQEZ, whilst following the Mayor’s vision for the City’
Reflecting on changes in history and understanding the future possibilities?

Source: Bristol Temple Quarter Enterprise Zone SUMP
> **People**

- **Healthy and caring Bristol**
  - Respect for the cared for and the caring; living healthy, happy and safe lives.

- **Keep Bristol working and learning**
  - A learning city where everyone is able to acquire the skills they need to join our world class workforce.

> **Place**

- **Keep Bristol moving**
  - High quality, affordable public transport; cleaner air; better for walking and cycling.

- **Building successful places**
  - Well-connected neighbourhoods with a sense of belonging where a diversity of housing ensures that homes become more affordable.

> **Prosperity**

- **Global Green Capital**
  - Ensure our 2015 Green Capital year promotes the city on the world stage, driving investment and innovation.

- **Vibrant Bristol**
  - Streets alive with activity; every citizen and community participating in our cultural life.

> **Principles**

- **Empowered city**
  - We will lead the way in demonstrating the importance of cities being devolved much greater freedom and flexibility.

- **Active citizens**
  - Champion the diversity of our neighbourhoods; give local areas greater influence and control over their area.
People

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> Objectives

We aim to realise this vision by setting out our priorities and objectives for access and movement specifically for the BTQEZ as development expands in the area. The objectives therefore for the BTQEZ are:

- To facilitate access by active travel to create a healthy and happy workforce;
- To enable movement and increasing the choices of sustainable transport modes to access the BTQEZ;
- To raise Bristol’s profile as a prosperous and attractive city in which to invest;
- To involve the community in adapting and implementing the SUMP measures.

> Hardware - physical infrastructure measures

> Software - operational and policy measures

> Mindware - behavioural measures that can influence use of sustainable transport

> Outcomes

The outcomes of meeting these objectives would be:

- Modal shift towards more active and sustainable modes;
- Reduced levels of congestion;
- Increased levels of investment;
- Increased levels of involvement and participation from local community.

> Benefits

The benefits of these outcomes are numerous, but briefly some are listed as follows:

- Improved health and wellbeing among community and workforce;
- Improved air quality;
- Improved levels of occupancy of public transport, keeping options viable;
- More reliable journey times;
- Reduced levels of noise;
- Improved public realm;
- Improved safety and perceived levels of safety;
- Increased options and reduced barriers to active and sustainable travel;
- Improved quality of life of community and workforce.
Sustainable Urban Mobility Plans: Berlin SUM Vision

- Results and experiences of previous strategy
- Long-term overarching objectives, e.g.
  - Energy
  - Climate Protection
  - Safeguarding Mobility
- Guidelines of related policy field
  - Urban Development
  - Environment
  - Economy
- Framework Conditions
  - Population
  - Spatial Structure
  - Finances

Approaching different aspects individually
Combining measures in integrated strategic packages
Integrated impact assessment to identify missing topics
Sustainable Urban Mobility Plans: 

*Berlin SUMP Vision*

- Target-Oriented, Interconnection of strategy and measures:
Sustainable Urban Mobility Plans: 

Berlin SUMP Vision

- Seven partial strategies form the integrated strategy of the transport master plan.
- Each strategy combines a bundle of measures including:
  - Urban Space and Structure
  - Organisational aspects
  - Pricing policies / regulative measures
  - Improvement of information / motivation
  - Infrastructure

- Outer City
- Inner City
- Linked City
‘Walking, cycling and public transport are the first choice for all who work, live or visit in Malmö. These travel choices, together with efficient and environmentally friendly freight and car traffic, are the basis of the transport system in our dense and sustainable city - a transport system designed for the city, and for its people.’
Sustainable Urban Mobility Plans: 
*Problems, Vision & Objectives - overview*

Looking for:

- Assessment of set of specific main transport system problems/potentials based on analysis work
- Hierarchical structure linking SUMP Vision with High Level and Specific Objectives
- Defined Key Performance Indicators (KPIs) for selected key Objectives
- A set of Targets for the Key Performance Indicators
- Consolidation of SEA environmental objectives with SUMP objectives
  - Highlighting how environmental issues taken into account in SUMP
For info or further questions on this workshop and the activities of the JASPERS Networking Platform, please contact:

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