



Gaučė ir Ko



**MLGP4**  
CLIMATE

# **Sustainable Urban Mobility: Key component for SECAP**

22-08-2025



## 20+ Years of Expertise

- Experience spanning national and international, research and technical assistance projects and policy making
- Shared values guiding urban planning as a human-centered environment
- Supporting public institutions, organizations, and businesses

## Strategic Focus

- Planning vibrant, inclusive, well-connected city systems
- Sustainable mobility as a core strength
- Creating safe, comfortable, accessible, and eco-friendly urban movement
- Improving wellbeing, air quality, and true freedom of choice
- Research-based solutions

Committed to climate action, Gaučė ir Ko actively drives transformative change toward future-ready cities that balance accessibility, environmental responsibility, and long-term livability.



**Sustainable Mobility Management** – addressing mobility challenges as integral to urban and community transformation. Solutions are grounded in international experience, sustainability principles, and research-driven insights, sensitive to the local context strategic plans, and environmental impact assessments.



**Complex International Project Management** – leading multi-sector, multicultural projects with tailored methodologies that enhance cross-institutional cooperation and long-term sustainable change. Expertise spans technical coordination, research integration, and partnership building to deliver impactful climate-oriented solutions.



**Capacity Building and Knowledge Sharing** – designing and delivering conferences, trainings, and technical workshops that strengthen climate action capabilities of public authorities, professionals, and communities.



**Territorial Planning** – developing spatial planning frameworks at national, regional, and local levels that integrate sustainable mobility, environmental protection, and climate resilience. Focus is placed on creating livable territories aligned with long-term strategic development goals.



**Civic Engagement and Awareness Raising** – contributing voluntarily to civic initiatives and educational outreach to foster environmental awareness and societal engagement in sustainable urban development and climate actions.

## COVENANT OF MAYORS

- at least **40% reduction of CO2 emissions** by 2030
- a long-term 2050 vision of **decarbonised and resilient cities** with access to **sustainable, secure and affordable energy**



## Framework for Sustainable Energy and Climate Action Plans (SECAPs)



**9 in 10** people living in urban areas worldwide breathe air that does **not** meet World Health Organisation's air quality guidelines.

Transport emissions account for **24%** of global CO<sub>2</sub> emissions.

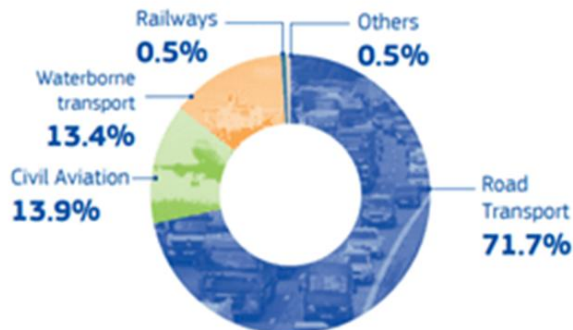
Cities generate up to **70%** of human-induced greenhouse gas emissions.



# HOW EUROPE TACKLES THESE TRANSPORT-RELATED EMISSIONS?

THE GREEN DEAL SEEKS A 90% REDUCTION IN THESE EMISSIONS BY 2050.

Share of Greenhouse Gas Emissions  
by Mode of Transport (2017)



Transport emissions  
account for **24%** of global  
CO<sub>2</sub> emissions.

## EUROPE COMMISSION STRATEGIC PLAN 2020-2024: DG MOVE

EUROPEAN  
GREEN DEAL

A EUROPE FIT  
FOR THE  
DIGITAL AGE

AN ECONOMY  
THAT WORKS FOR  
THE PEOPLE

A STRONGER  
EUROPE IN  
THE WORLD

PROMOTING  
EUROPEAN WAY  
OF LIFE

### 1 STRATEGIC GOAL

SUSTAINABLE TRANSPORT THAT REDUCES THE ENVIRONMENTAL IMPACT OF TRANSPORT, PROVIDES HEALTHIER AND CLEANER MOBILITY ALTERNATIVES AND INCREASES THE USE OF SUSTAINABLE ALTERNATIVE-FUEL LAND, WATER AND AIR TRANSPORT IN THE EUROPEAN UNION AND WORLDWIDE

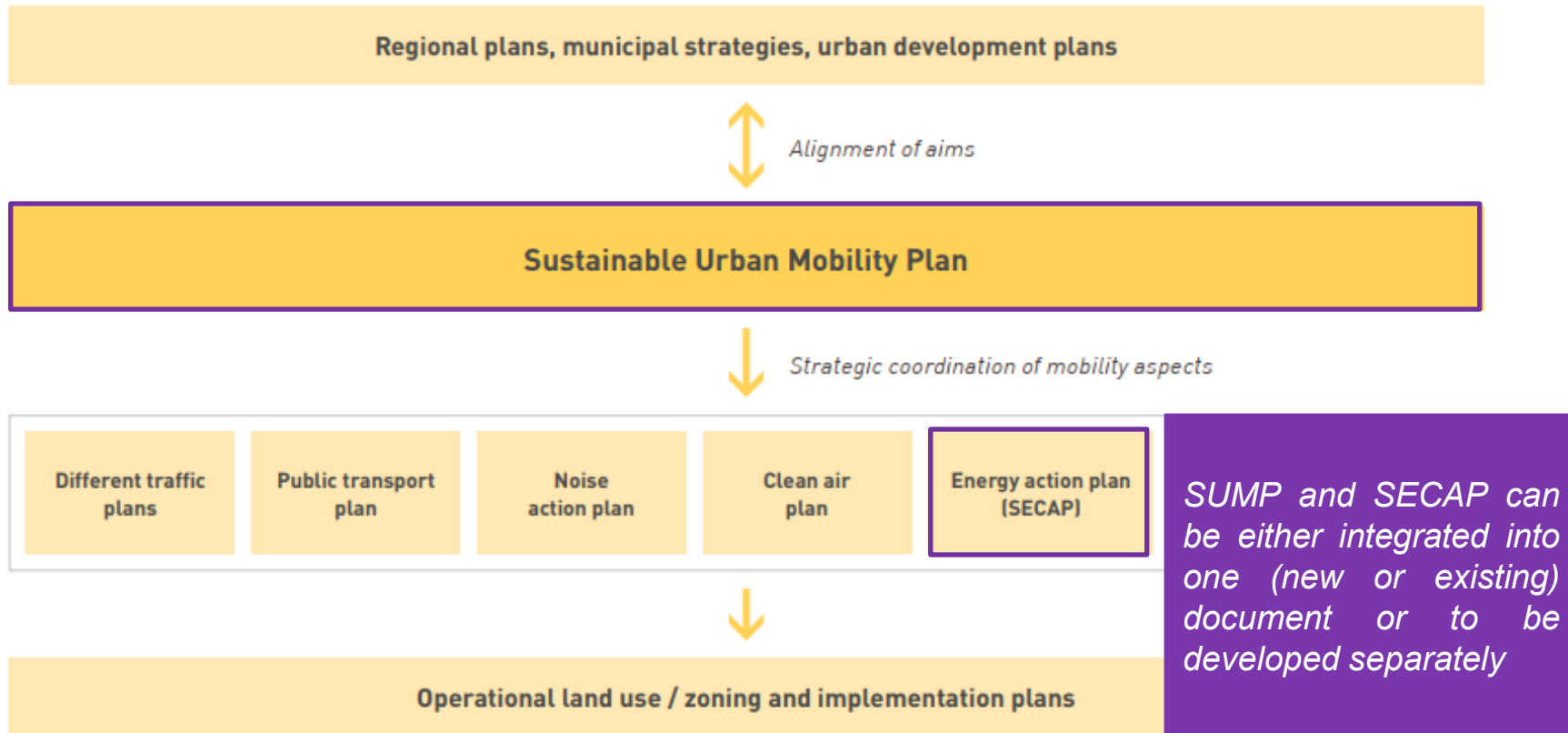
NATIONAL POLICIES

TAX REGULATIONS

FUNDING

SPECIFIC PLANS AND PROJECTS

# RELATIONSHIP BETWEEN SUMP AND SECAP



# WHAT IS A SUSTAINABLE URBAN MOBILITY?

**Mobility is one of the consequences of urban functioning** (in literature, mobility is often understood as an indicator of connectivity) and should therefore be seen as a fundamental paradigm of urban planning (prof. P. Juškevičius), where there are:

A **Sustainable Urban Mobility Plan** is a strategic plan designed to satisfy the mobility needs of people and businesses in cities and their surroundings for a better quality of life. It builds on existing planning practices and takes due consideration of integration, participation, and evaluation principles.

## a) Mobility statistical constants:

**Frequency** -> 3 trips / 1 citizen per day

**Travel time** -> 15 min. on foot

-> 45 min. by public transport

-> 60 min. total travel time per day

**Cost** -> 3% of the average income of a family without a car for 1 member

-> 15% of the average income of a family with a car for 1 member

## b) Mobility variables:

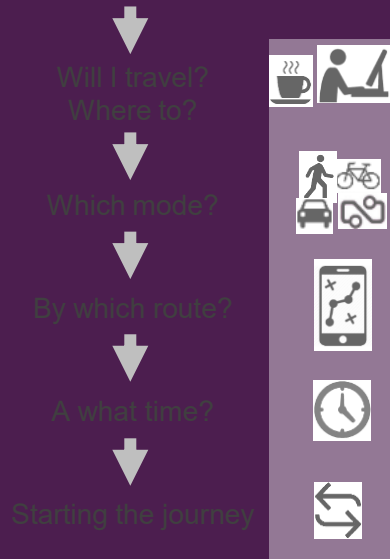
**Trips length** km/citizen per day

**Trips distribution in space** |Mij|

**Trips modal split** /Pedestrians/PT/Bicycles/Cars/...

# People and Mobility

People as a starting point

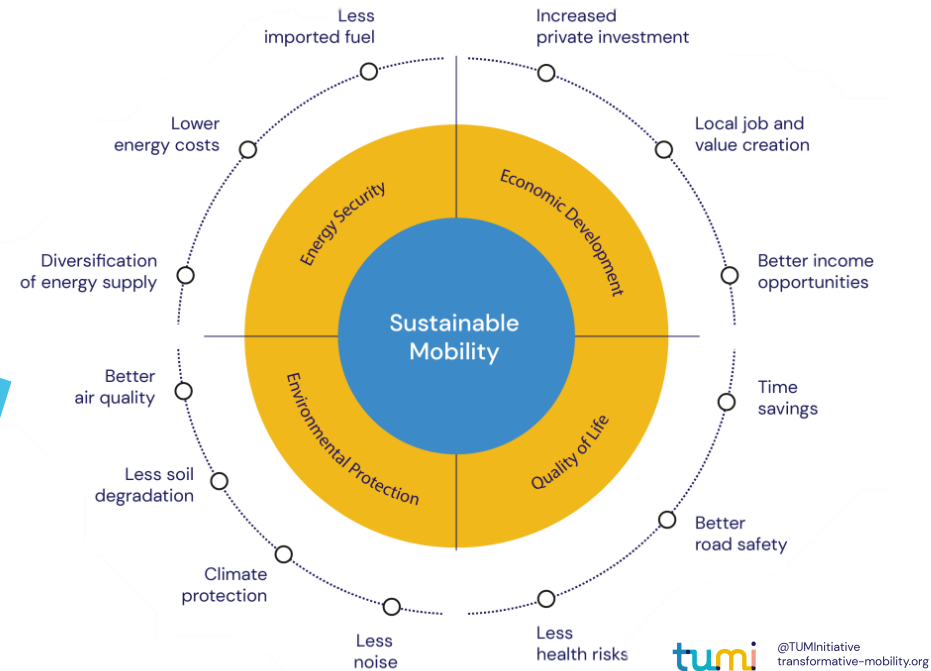
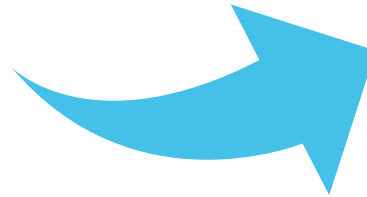
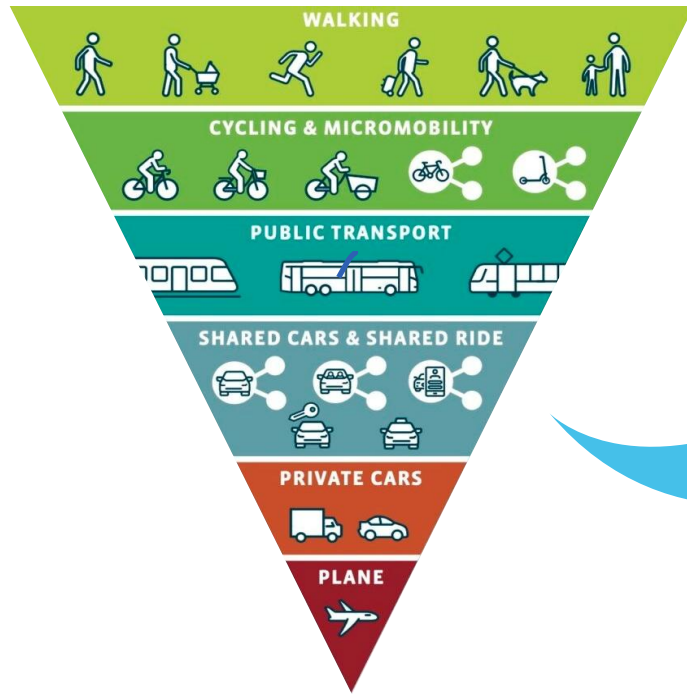


Mobility system as a starting point



Source: JASPERS-EIB Sustainable Urban Mobility Plan (SUMP) training

# BENEFITS OF SUSTAINABLE MOBILITY



The European Union Council of Ministers of Transport, has defined a **sustainable transportation system** as one that “allows the basic access and development needs of individuals, companies and society to be met safely and in a manner consistent with human and ecosystem health, and promotes equity within and between successive generations”.





# SUMP FOR ANKARA: IMPACT TO THE ENVIRONMENT

## 56 Measures planned for 9 thematic areas:

1. Urban Planning and Land Use
2. Public Transport
3. Walking
4. Cycling and Micromobility
5. Motor Transport
6. Road Safety and Security
7. Mobility Management
8. Digital Solutions and ITS
9. Urban Freight

Measures that  
directly  
impact  
Environment

Measures that  
impact  
Environment  
indirectly

Increased  
Green Areas

Urban Freight  
Consolidation Centres

Low-emission  
zone

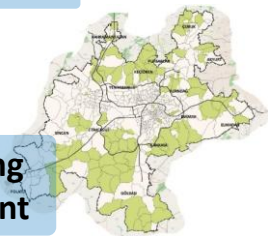
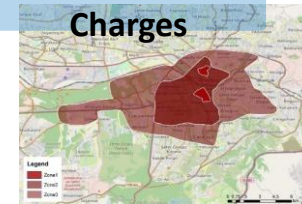
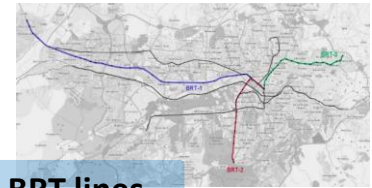
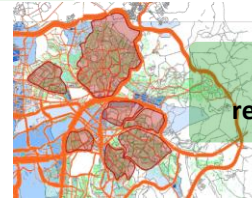
Access  
restrictions

Parking  
Charges

BRT lines

Cycling  
infrastructure

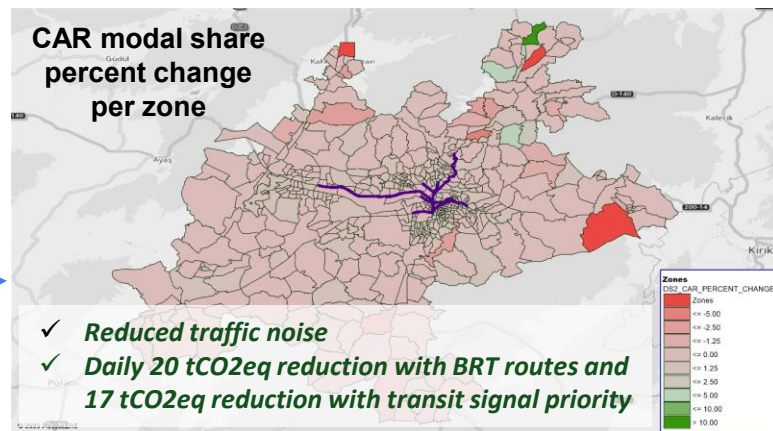
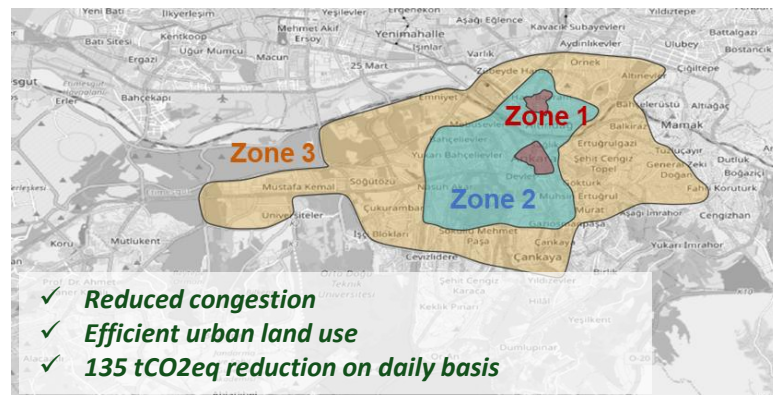
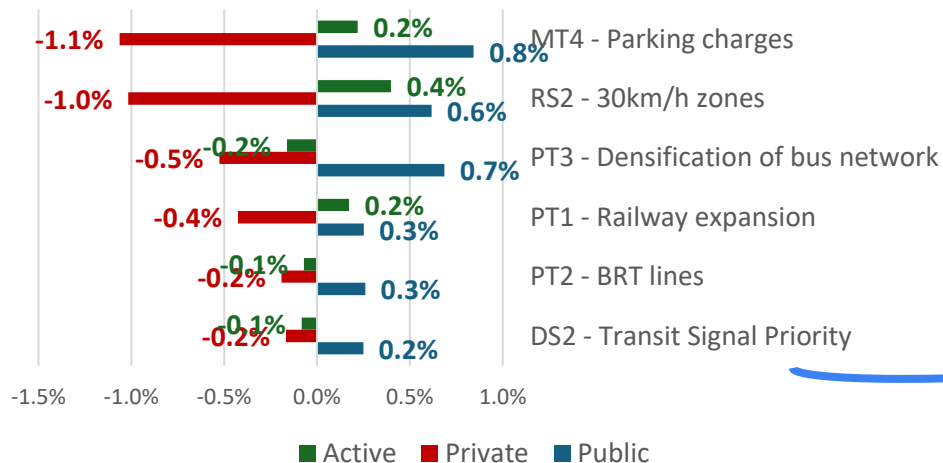
Sustainable planning  
for new development



# SUMP FOR ANKARA: EXPECTED IMPACT TO MODAL SPLIT AND ENVIRONMENT

The graph on the right shows the achieved modal shift per measure, with respect to the baseline scenario (2024) for the **global modal shift** (including intrazonal and interzonal trips).

## Global modal shift with respect to base scenario (2024)

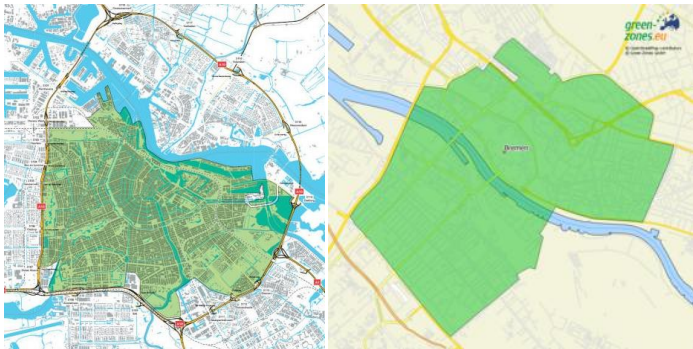


# EVIDENCE OF MOBILITY MEASURES' IMPACT

Shared space in Amsterdam (Netherlands): Reduced emissions (4-6%)  
Less cars in zones - more pedestrians

Low Emission Zone in Amsterdam (Netherlands):  
4.9% decrease in NO<sub>2</sub>  
5.9% decrease in NO<sub>x</sub>  
5.8% PM<sub>10</sub>

Low Emission Zone in Bremen (Germany):  
6% decrease in PM  
6% decrease in NO<sub>2</sub>

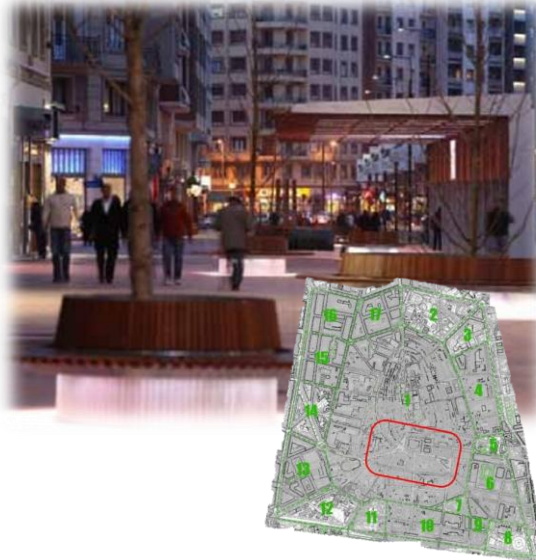


Vitoria-Gasteiz superblocks:  
Inner streets:

- 97% car trips
- + 115% pedestrians
- 8 times more cyclists

Outer streets:

- 5% car trips
- 2 times more public transport users



The Dutch national eco-driving programme reduced emissions, €10 per ton of CO<sub>2</sub> avoided.

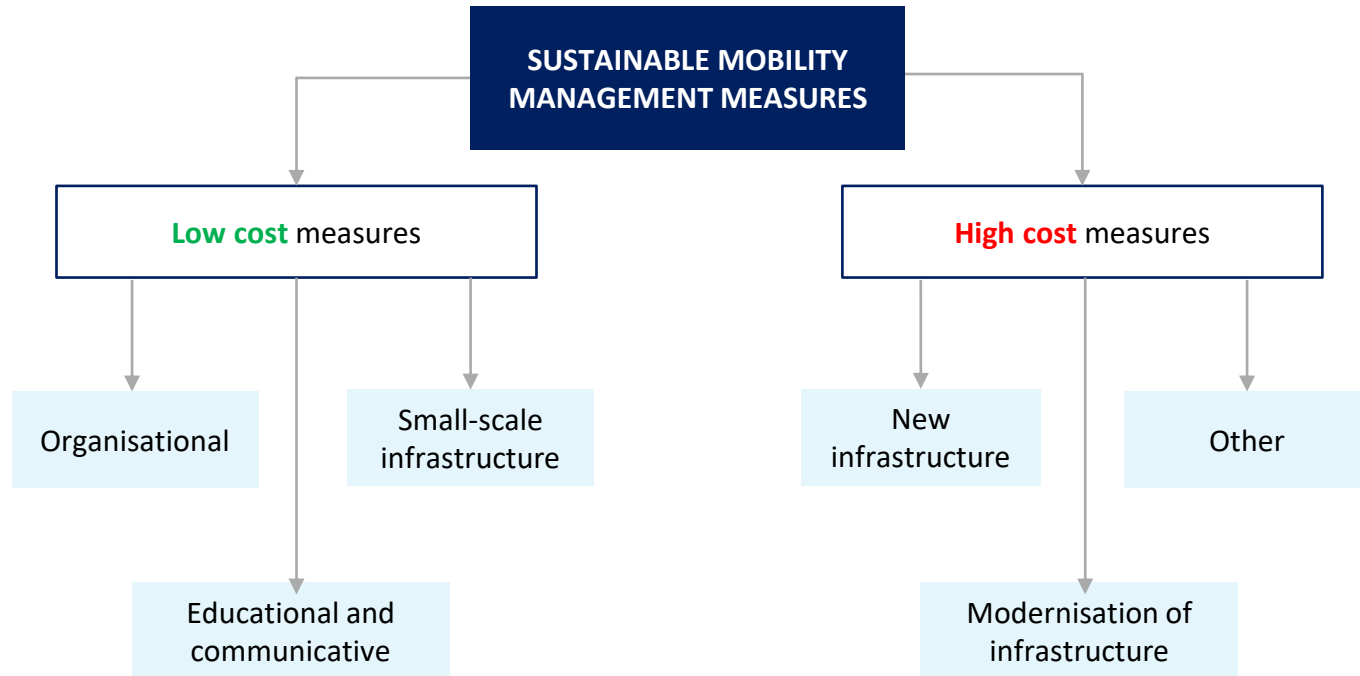
Free one month travel card in Copenhagen offered to car drivers led to a doubling in the use of public transport for commuting (from 5% to 10%); a positive effect remained six months after the intervention.

In Vienna (Austria) parking charges in 5-9 districts resulted in:  
traffic volumes minus 30%;  
30% of visitors and workers car drivers switched mode;  
7% visitors switched destination





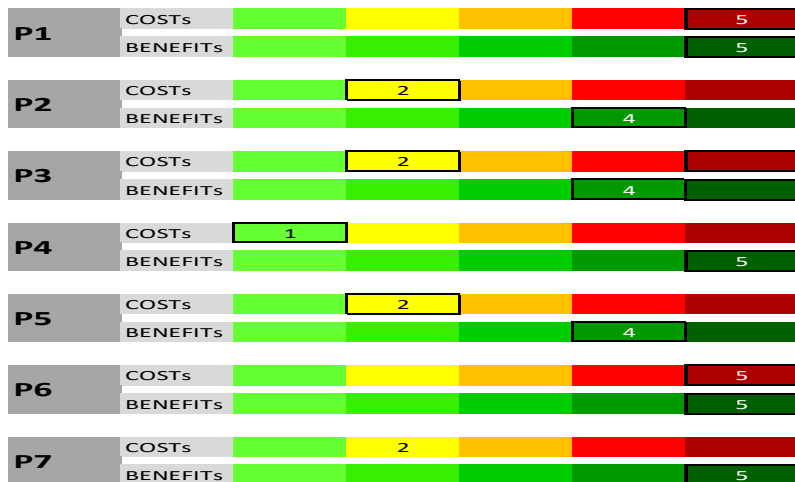
# DIFFERENT COST OF DIFFERENT MOBILITY MEASURES



**Sustainable mobility management** is based on the efficient use and availability of existing resources rather than on the creation of new supply

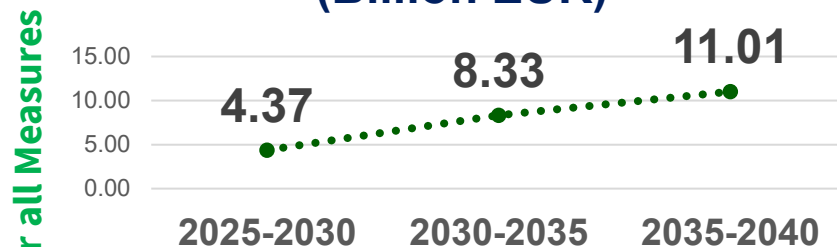
# COST-BENEFIT ANALYSIS OF SUMP MEASURES FOR ANKARA

## Top Measure Packages and Benefits

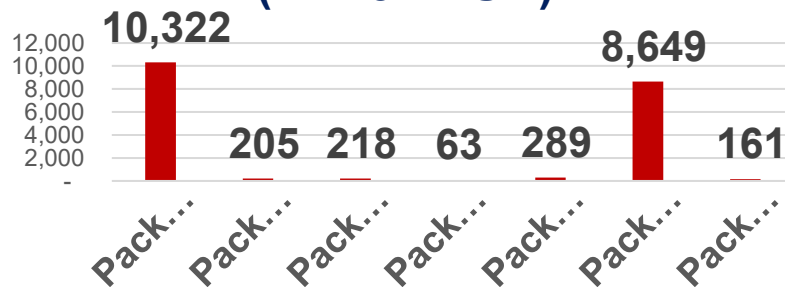


Rank	Measure	Total Cost	% in Total Cost
1	PT1 Intensification of the Rail Network	5.95 B €	54.07%
2	PT6 Renewal and Improvement of the Bus Fleet, Supply of Additional Buses.	1.94 B €	17.69%
3	PT4 Renewal and Improvement of the Rail Vehicles (metro and light rail)	1.46 B €	13.30%

## Incremental Total Cost (CAPEX+OPEX) (Billion EUR)



## Costs of Measure Packages (Million EUR)



## FINANCING **INSTRUMENTS** AVAILABLE IN TURKEY

1. **Municipal and metropolitan funds**
2. **National funding programs via MoTI, Presidency of Strategy and Budget**
3. **International grants and concessional loans from the EU, WB, EIB, KfW, JICA, etc.**
4. **Private sector partnerships (PPPs) for services like smart ticketing, EV charging**
5. **Green/climate bonds for eligible sustainable transport projects**
6. **Revenue generation tools, including land value capture and congestion pricing (if future-ready)**

# VILNIUS CASE: IMPORTANCE OF PILOT MEASURES

## TEMPORARY CLOSED STREETS



## EVENTS WITH COMMUNITIES



## PARKLETS





## CITIZENS

- Residents
- Students and parents
- Employees
- People with special needs
- Car drivers
- Etc..



ACTUAL **NEEDS**

NEW **IDEAS**

## STAKEHOLDERS

- Local administration representatives
- NGOs
- Community associations
- Business organisations
- Etc..



DIFFERING  
**INTERESTS**

POTENTIAL **AREAS**  
**OF CONFLICT**

**PLAN / PROJECT / PILOT ACTION**

TRUST AND **UNDERSTANDING**

SHARED **RESPONSIBILITY**

TRUST AND **SUPPORT**

SHARED **OWNERSHIP**

# WHO TO TACKLE IN DIFFERENT ENGAGEMENT AND MANAGEMENT STRATEGIES?

## ALL GROUPS OF CITIZENS AND STAKEHOLDERS



### INFORM

- Email newsletters
- Website updates
- Press releases
- Social media
- FAQs
- Fact sheets
- Public presentations

## INTERESTED CITIZENS AND STAKEHOLDERS



### CONSULT

- Open house meetings
- Workshops
- Online forums
- Community events
- Question-and-answer sessions
- Feedback surveys

## OPPOSED CITIZENS AND STAKEHOLDERS



### COLLABORATE

- Focus groups
- Interviews
- Surveys
- Participatory workshops
- Online consultations
- Citizen juries
- Delphi panels
- Scenario planning

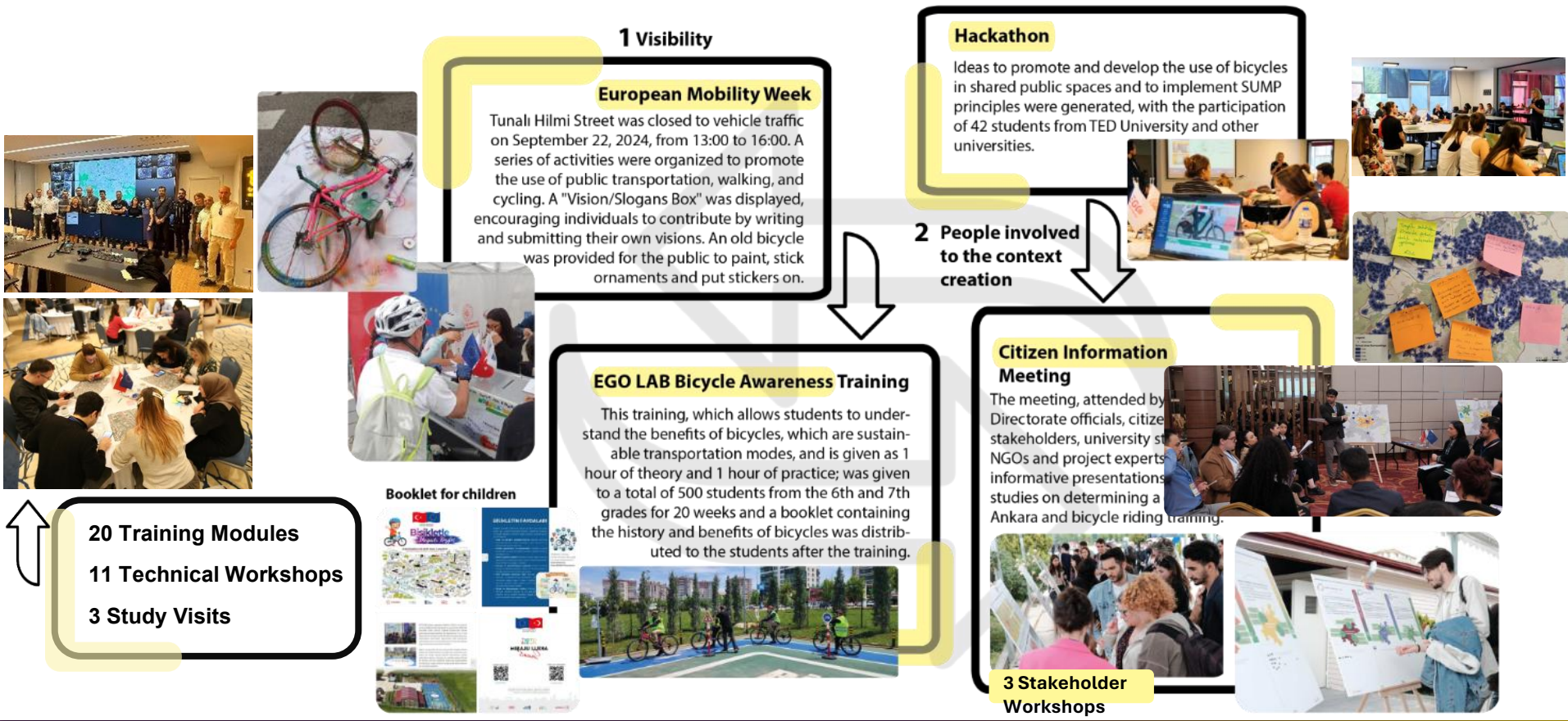
## ACTIVE CITIZENS AND STAKEHOLDERS WITH ASSETS



### EMPOWER

- Collaborative workshops
- Community planning exercises
- Community advisory boards
- Community-led projects
- Participatory budgeting
- Citizen assemblies

# COST-BENEFIT ANALYSIS OF SUMP MEASURES FOR ANKARA





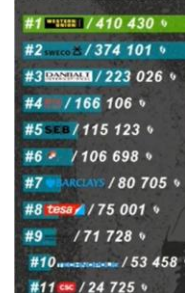
# VILNIUS CASE: INNOVATIVE INVOLVEMENT



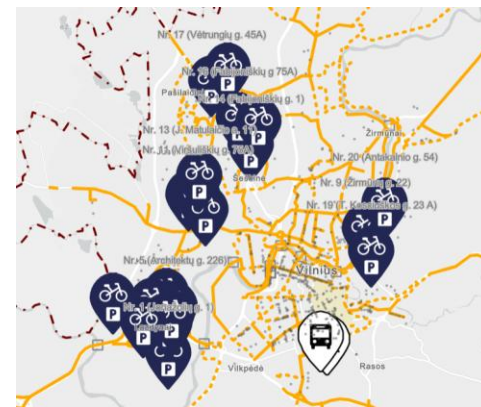
**NATIONAL  
MOBILITY  
CHALLENGE**



## FITBIT IŠŠŪKIS MOBILUMO SAVAITĖ



TECHNOPOLIS



# THANK YOU FOR YOUR ATTENTION!

**Dr. Kristina Gaučė**

**Mobility expert**

**+370 689 44896**

**[kristina@gauce.lt](mailto:kristina@gauce.lt)**