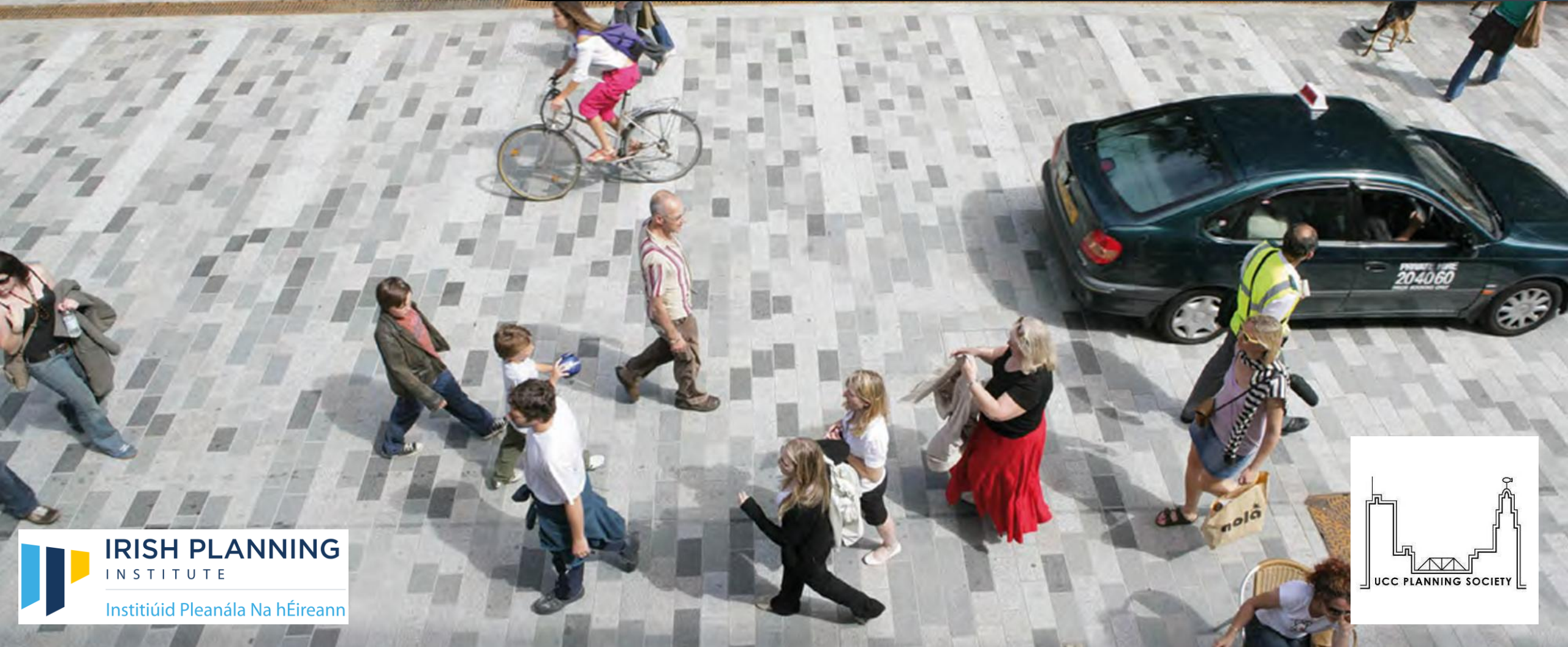


Sustainable Urban Mobility Plans

Sustainable Local-Area Transport Planning Webinar Series – 25 June 2026

Dr Mattias Juhász



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1. Why?:
Overview of what SUMP is
2. What?:
Basic planning principles,
paradigm shift
3. How?:
Tools, examples
4. Challenges



1. Why?

Overview of what SUMP is



Challenges

- Sustainability: balancing the needs of the present and future (environment, society, economy)
- Climate change: European Green Deal (climate-neutral EU economy, 90% transport GHG reduction by 2050)
- Urbanisation trends, urban sprawl
- Road congestion
- Road safety (Vision Zero)

Goal: create more liveable cities

Sustainable Urban Mobility ~~Plan~~ Planning

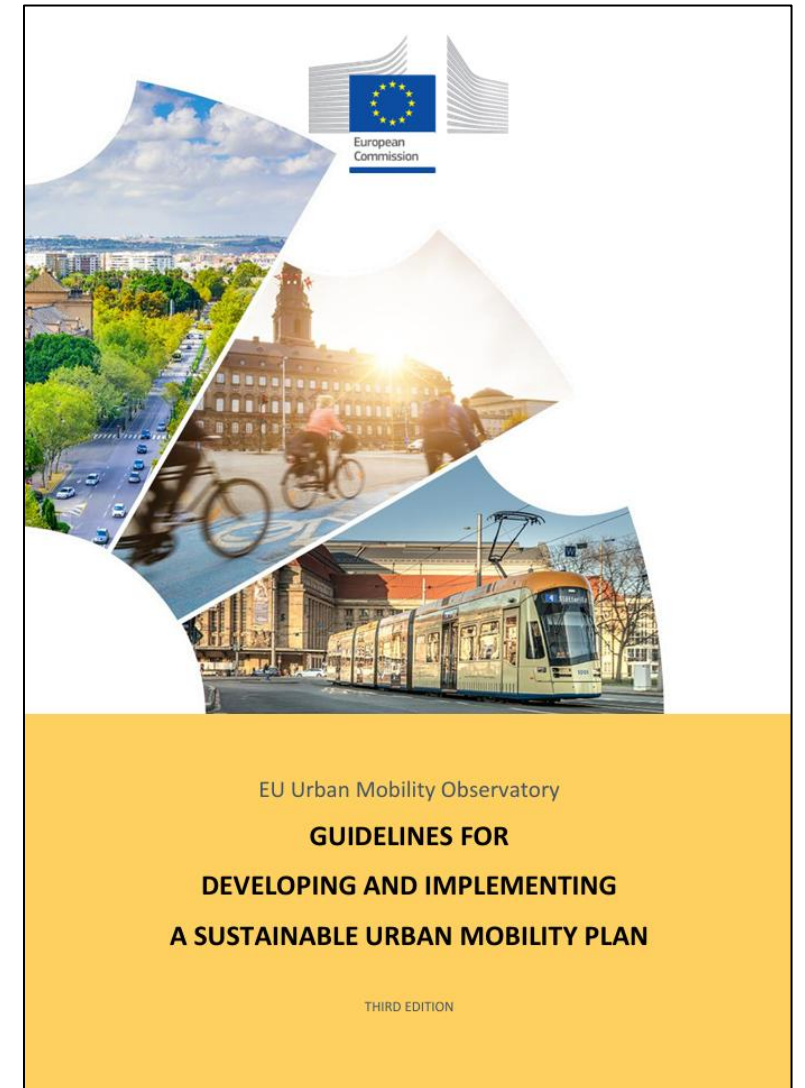
Strategic planning process

Focusing on the mobility of cities and their surroundings

Designed to ensure the mobility for a better quality of life

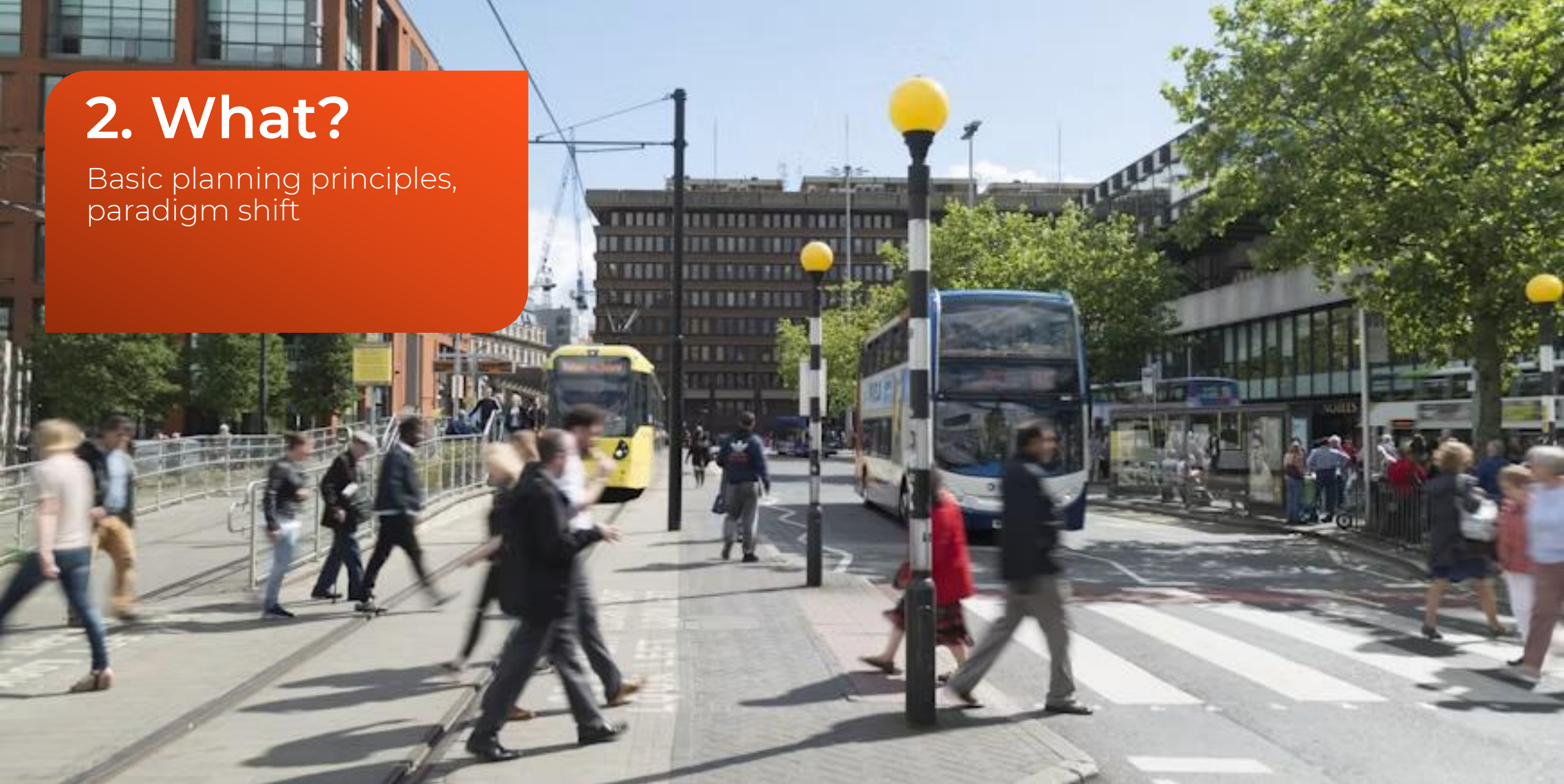
The concept of SUMP

- The EU's urban transport planning playbook
- Guidelines: 2013, 2019, 2026 (June)
- Revised TEN-T Reg. (until 2027):
 - 431 urban nodes to adopt a SUMP
 - Collection of urban mobility indicators
- National SUMP support programme: improving coordination among regions and cities

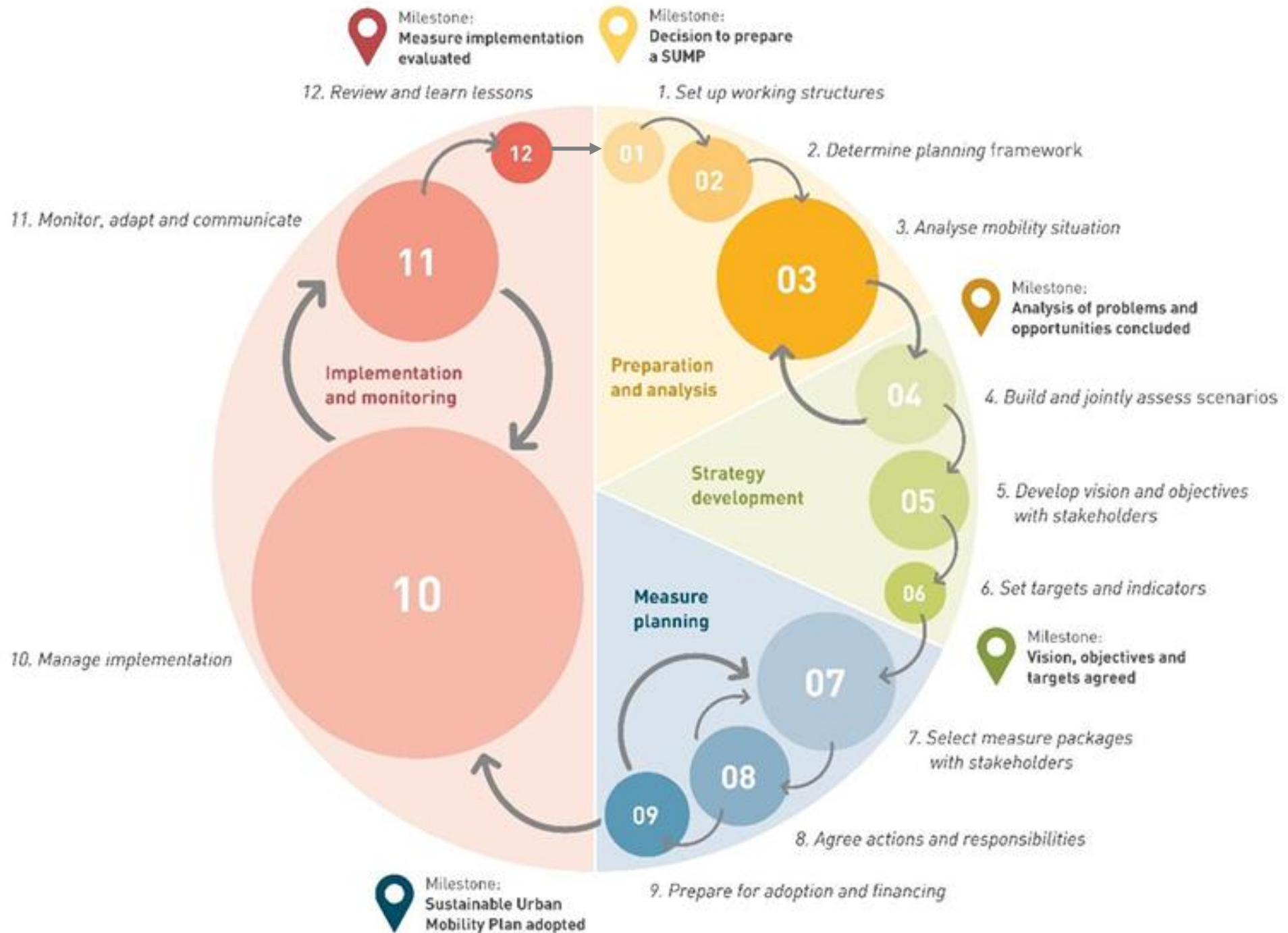


2. What?

Basic planning principles,
paradigm shift







SUMP principles

1. Clear and measurable goals and objectives
2. Long-term vision, clear implementation plan
3. Assessment of performance (data-led)
4. Integration of modes, prioritising the sustainable ones
5. Integrated approach (sectoral, territorial)
6. Participatory approach
7. Monitoring & evaluation
8. EU-wide guidance and support

Paradigm shift in transport planning

Traditional Transport Planning

Transport: focus on **traffic**

Flows, **capacities**, speeds

Competition/**sum of transport modes**

Provision of infrastructure, **operational planning** aspects

Sectoral planning

Short/medium-term delivery

Administrative boundaries

Informing/consulting the stakeholders

Limited **impact assessment**



Sustainable Urban Mobility Planning

Mobility: focus on **people**

Liveability, quality of life/environment, economic viability, accessibility, social equity

Integration of transport modes

Combination of infrastructure, services, regulation and information; **service planning**

Interdisciplinary approach, transport as an integrated part of the planning framework

Long-term vision → short-term steps

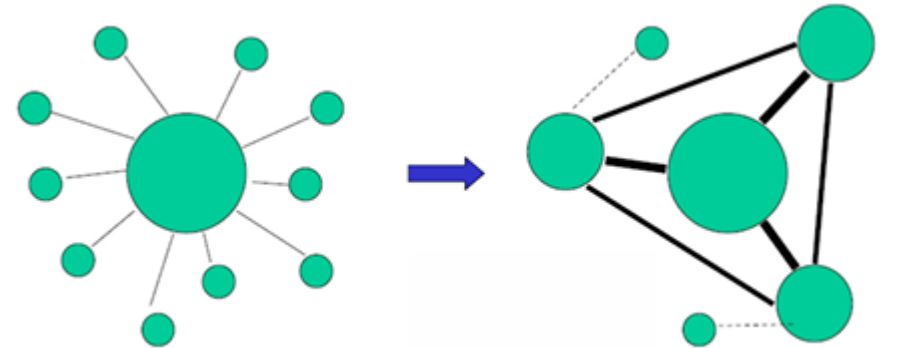
Functional city

Involvement of the stakeholders, **participation**

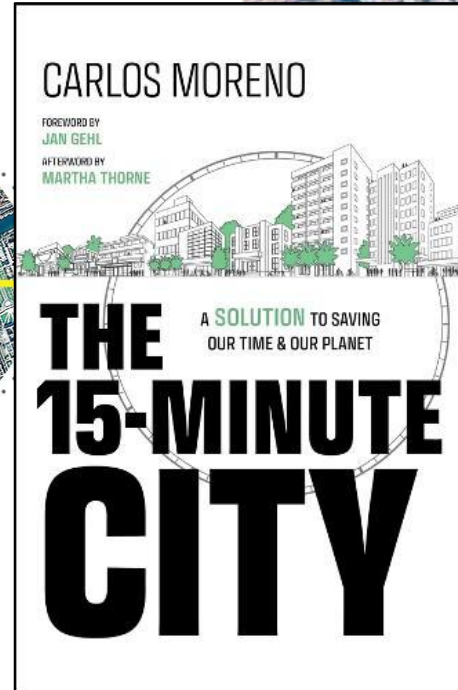
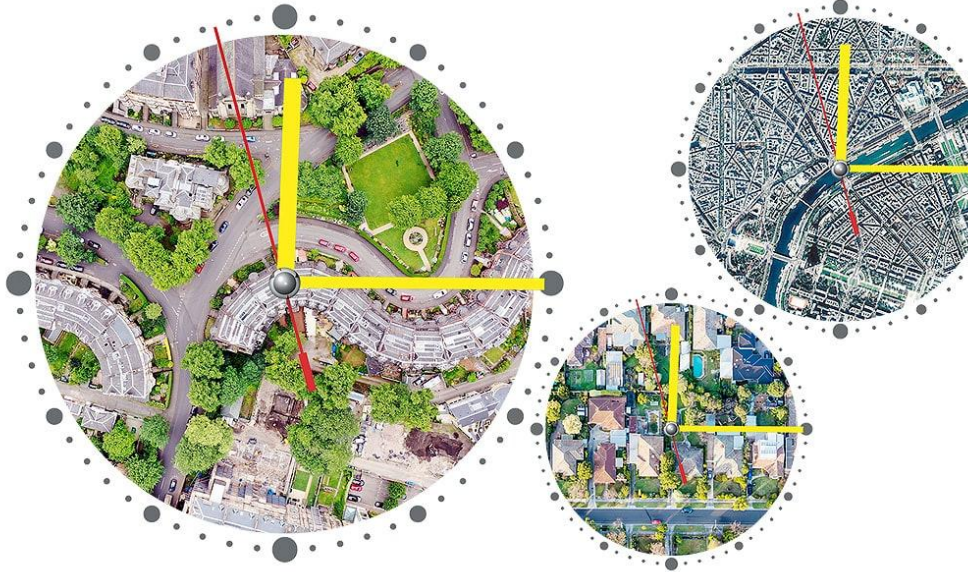
Systematic and transparent **evaluation**

Paradigm shift in transport planning

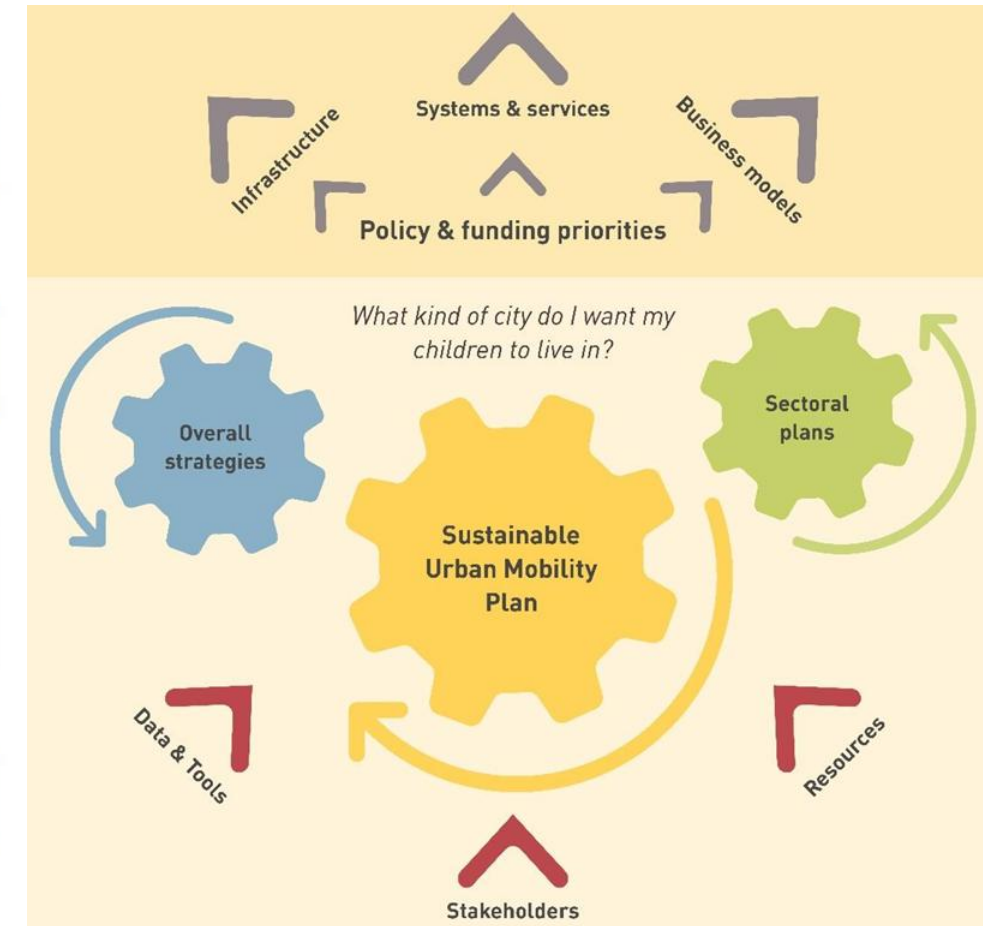
- Transport as a derived demand → Land-use planning!
- Diversity, density, design of land-use
- Actively influencing travel demand:
 - Avoid (reduce needs)
 - Shift (active modes, public transport connectivity)
 - Improve (efficiency, safety, access, equity, etc.)



Integration of land-use and transport planning policies



SUMP in the planning hierarchy



Typical timeframe (9-24 months)



3. How?

Tools, examples



Setting clear objectives (Budapest)



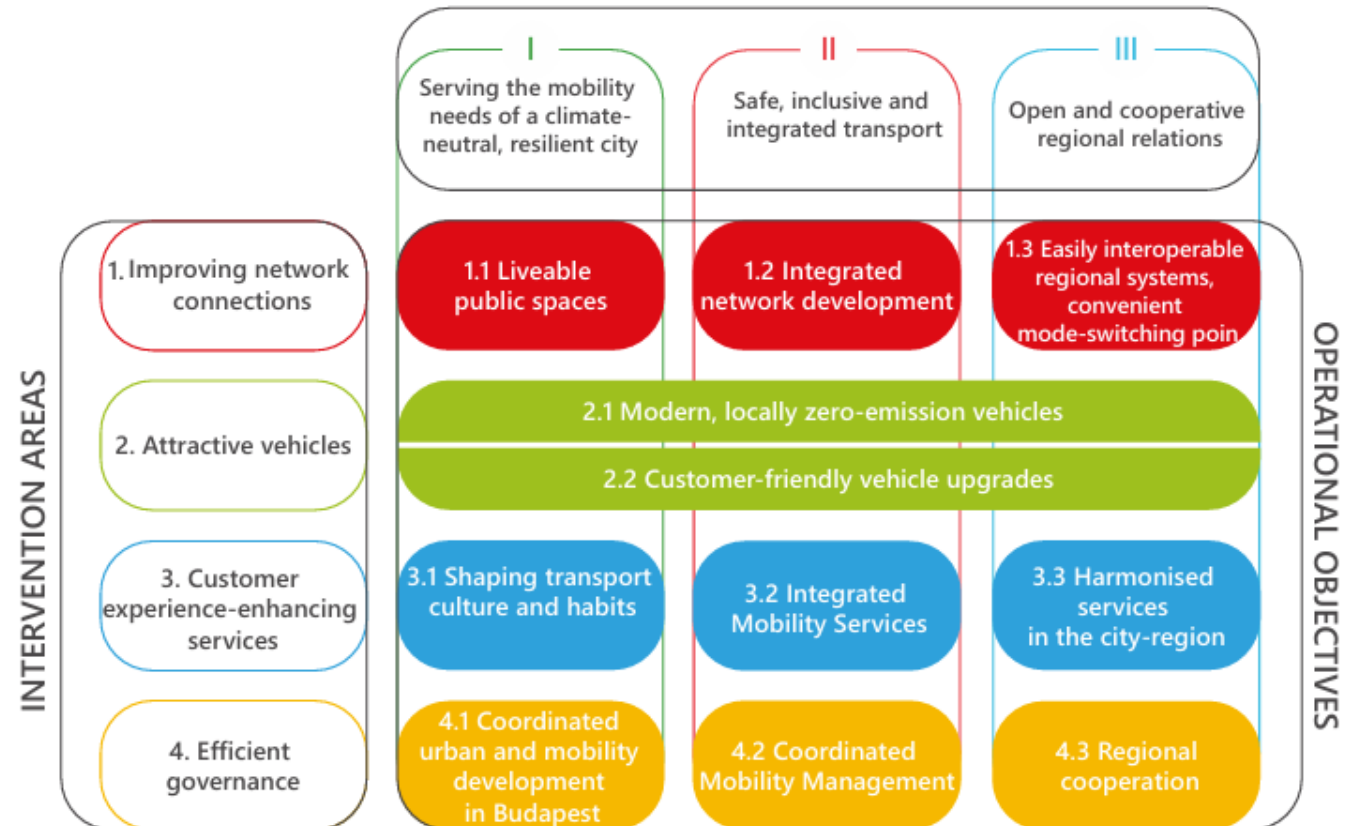
FUTURE VISION

Budapest as a liveable and attractive capital city with a unique character, a respected member of the European network of cities as an innovative economic and cultural centre of the country and the city region

OVERALL OBJECTIVE

The Budapest transport system contributes to the development of a climate-neutral, sustainable, liveable, safe, attractive and healthy urban environment, to make Budapest green and open city that creates opportunities and improves the competitiveness of the capital and its city region.

STRATEGIC OBJECTIVES



Data-driven diagnostics

Transport modes	Priority	Investments the last year	Investments the last five years
Walking		100	800
Cycling		200	1300
Public transport		5000	19000
Taxi / transport (e.g. special transport services)		200	1000
Car-sharing		100	200
Car		2000	15700
Total		7600	38000

Targets	Priority	Investments the last year	Investments the last five years
Improve safety and security		1000	4000
Increase walking a cycling		200	1300
Increase quality and use of public transport		5000	19000
Effective freight system		1000	3000
Accessibility private cars		2000	15700
Total		9200	43000

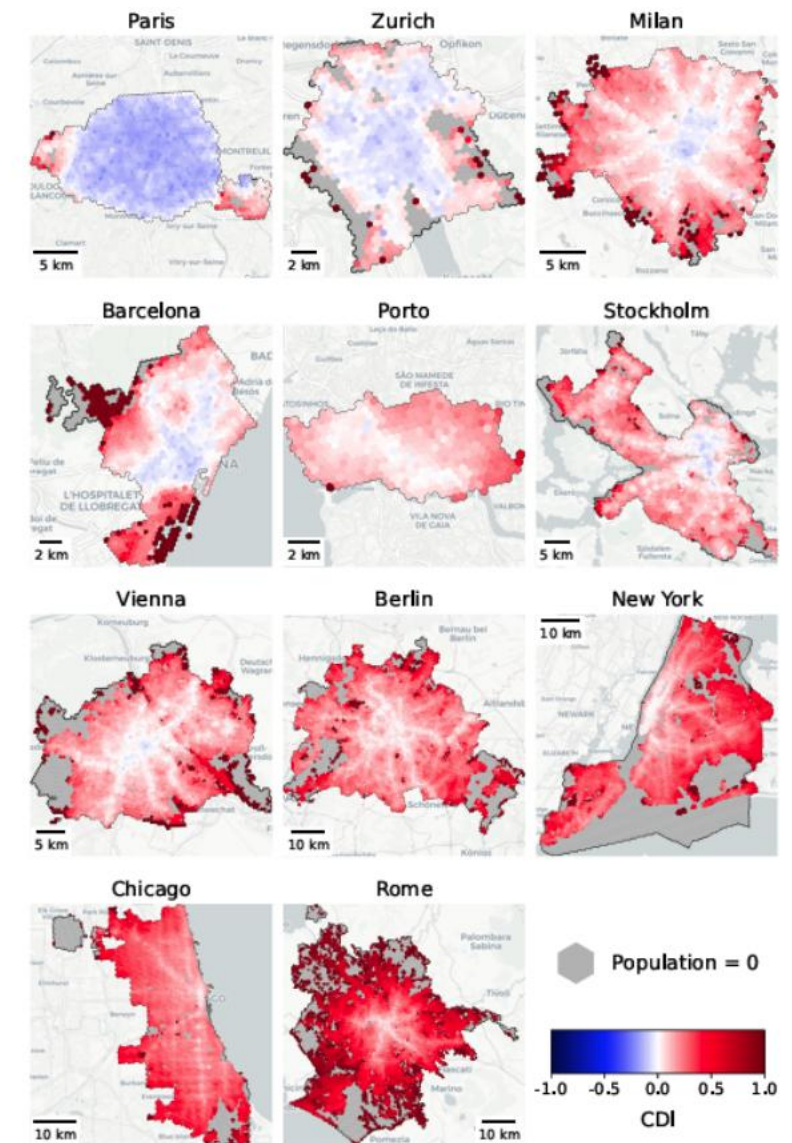
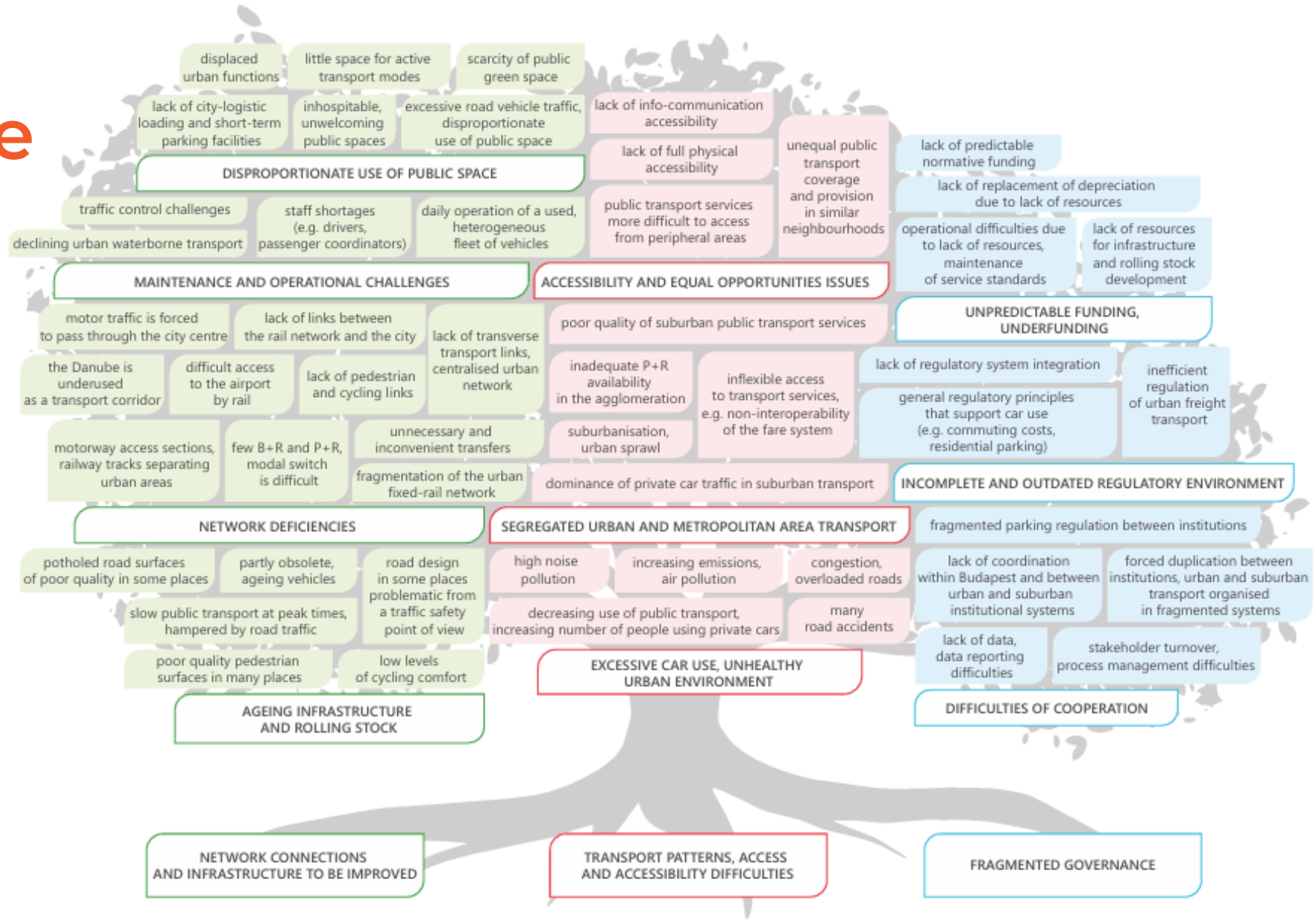


Figure 3: Maps of Car Dependency Index. In the blue areas, public transport is estimated to be more efficient than cars, while the opposite is true in the red areas. Peripheries are generally more car-dependent, but the presence of urban train stations and metro stops has a positive impact—evident in the white spots where a car is not strictly necessary.

Analysis of the status quo (Budapest)



Participatory Approach

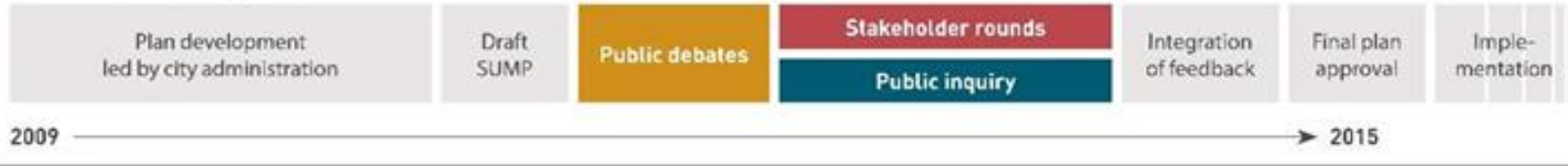


	Preparation and Analysis	Strategy development	Measure planning	Implementation and Monitoring
Inform	Face-to-face: Information event, Press conference, Information booth in public spaces, Exhibition in public spaces, Information campaign with 'local celebrity', Local citizens/stakeholders as communicators & multipliers for the community Print: Poster, Flyer, Brochure Online: Social Media posts, Website, Informational App, Broadcast/Podcasts, Video Channel, Newsletter			
Consult	Social Media (surveys) , Feedback form on Website, Survey/Feedback forms via App			
	Questionnaires & Surveys, Interviews (telephone, key people, ...)		Measures selection survey, Crowdsourcing data	Evaluation questionnaires & Surveys, Evaluation interviews (telephone, key persons, ...), Crowdsourcing data , (Travel) diary, Blind walk
Collaborate	Crowdsourcing data, e.g. Online map-based survey or Problem reporting via Ap; (Travel) diary, Walkability inspection	Delphi survey on future trends		
	Focus groups, Worldcafé, Topical events, Stakeholder round table, Public discussion			
Empower	Problem analysis workshop, Brainstorming/ Brainwalking, Blind walk	Scenario workshop, Visioning event, Future search workshop , Open space event, Participatory Geodesign	Hackathon, Measure workshop, Planning for Real	Field trip to implementation site, Co-Maintenance (Adoption programmes), Living lab
	Citizen jury/Citizen advisory committee, Voting			
			Participatory budgeting	Co-Maintenance/ Co-Implementation (Adoption programmes, e.g. tree adoption)

Budapest "Balázs Mór Plan"



Ghent "Mobiliteitsplan"



Dresden "Verkehrsentwicklungsplan 2025plus"



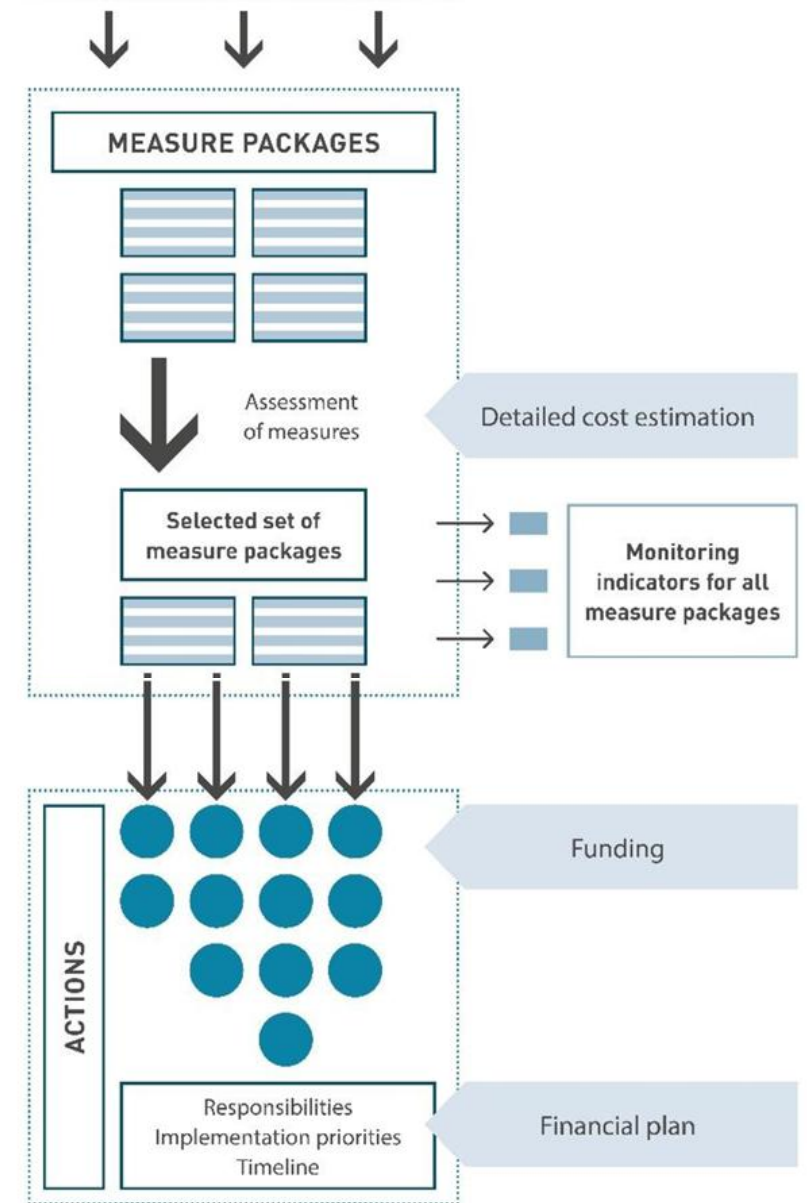
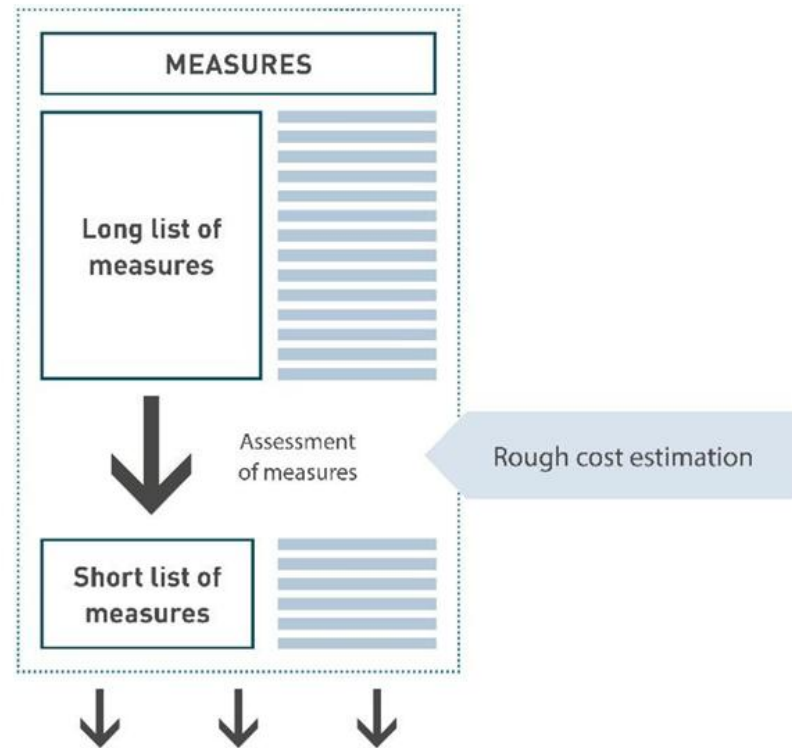
Bremen "Verkehrsentwicklungsplan 2025"



Note: This chart does not reflect the duration of individual planning phases.
© Rupprecht Consult 2019

Measure/project selection

Systematic quantitative assessments

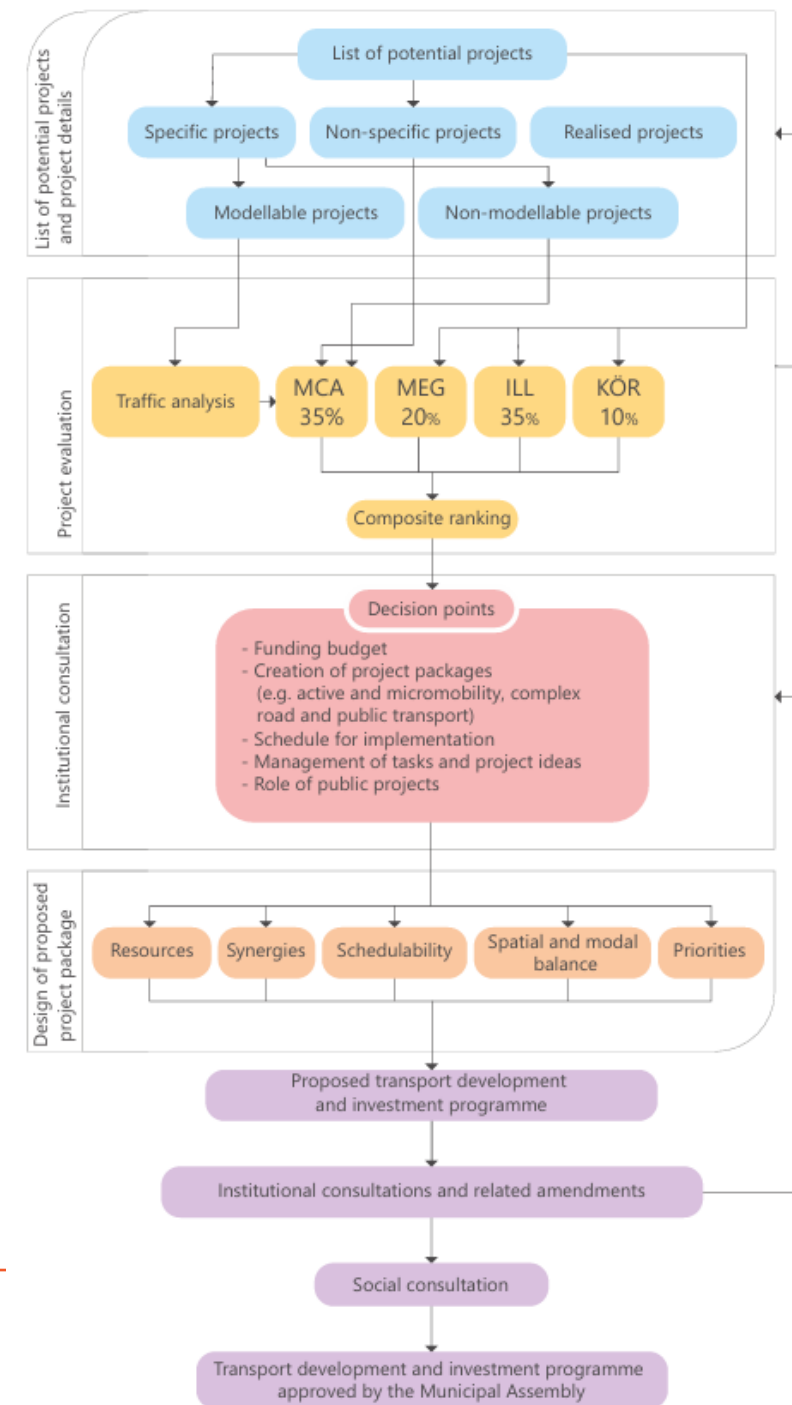


Project selection (Budapest)

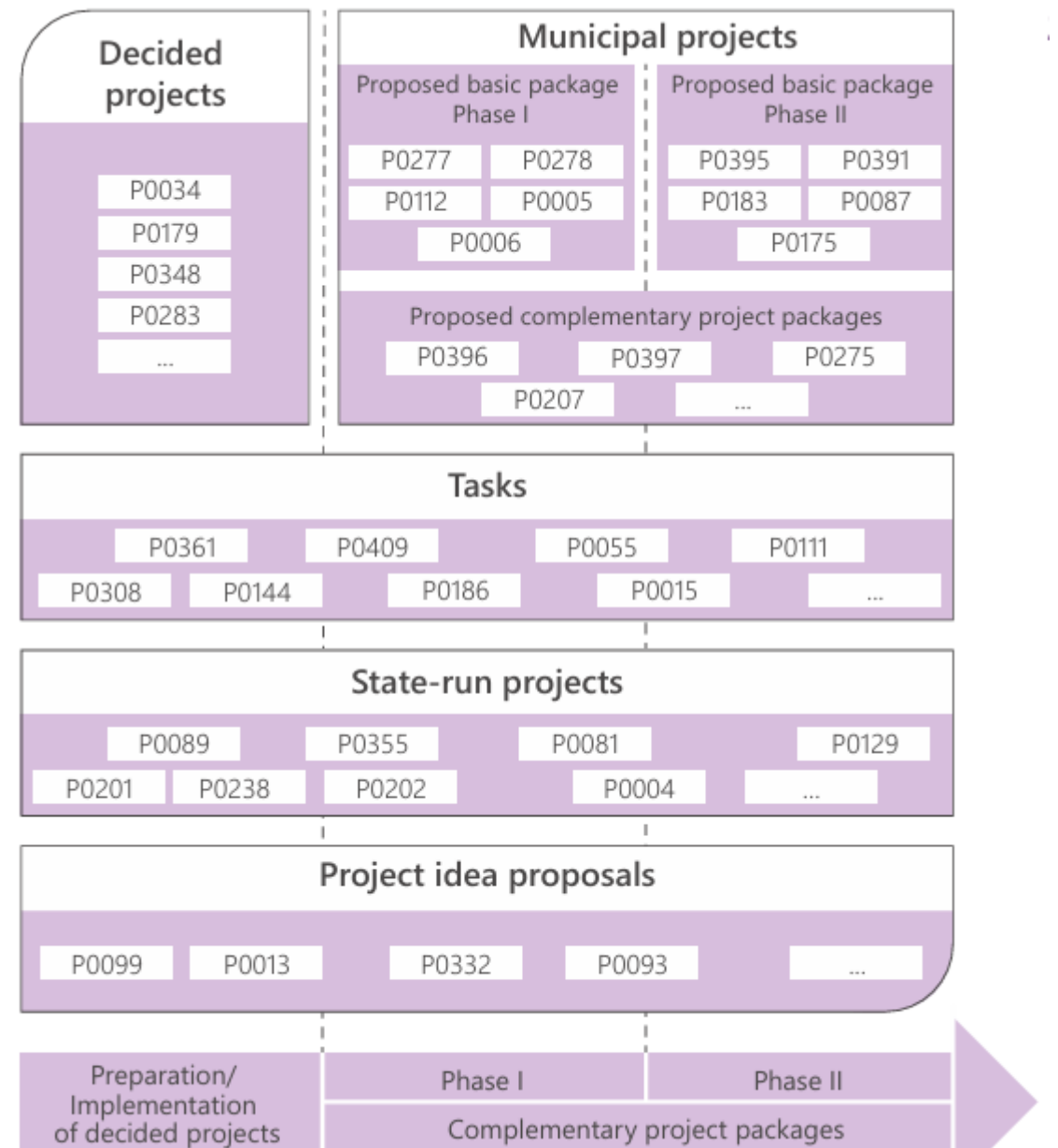
Evaluation method	Rankable project			Task	Project idea	Decided project	Implemented
	Concrete, modellable project	Concrete, non-modellable project	Not concrete project				
Fit assessment (ILL)	+	+	+	+	+	+	-
Environmental and Sustainability Impact Assessment (KOR)	+	+	+	+	+	-	-
Multi-Criteria Assessment (MCA)	+	+	+	-	-	-	-
Feasibility assessment (MEG)	+	+	+	-	-	-	-
Synergy assessment (SZIN)	+	+	+	+	+	+	-

+ method used to assess the project type

- method not used to assess the project type



Project types, Phasing (Budapest)



Monitoring & Evaluation: Sustainable Urban Mobility Indicator set

- PT accessibility, affordability & satisfaction
- Environment, energy efficiency
- Safety
- Congestion, delays
- Multimodality
- Active travel
- Public spaces, security
- Commuting time

No.	Indicator	Type
1	Affordability of public transport for the poorest group	Core
2	Accessibility of public transport for mobility-impaired groups	Core
3	Air pollutant emissions	Core
4	Noise hindrance	Core
5	Road deaths	Core
6	Access to mobility services	Core
7	Greenhouse gas emissions	Core
8	Congestion and delays	Core
9	Energy efficiency	Core
10	Opportunity for active mobility	Core
11	Multimodal integration	Core
12	Satisfaction with public transport	Core
13	Traffic safety active modes	Core
14	Quality of public spaces	Non-core
15	Urban functional diversity	Non-core
16	Commuting travel time	Non-core
17	Mobility space usage	Non-core
18	Security	Non-core

SUMI (Budapest)

CORE INDICATORS	MODAL SPLIT	A1.1 Modal split: distribution of trips in Budapest on a passenger-km basis A1.3 Transport division of labour: distribution of trips to Budapest by trip number
	CLIMATE INDICATORS	A2.1 Greenhouse gas (GHG) emissions from transport A2.2 Transport energy use A2.3 Transport-related air pollution indicator (PM2.5)
	SAFETY	A3.1 Road safety index - serious injuries A3.2 Road safety index - fatalities
	ACCESS TO SERVICES	A4.3 Physical and audiovisual accessibility in public transport A4.4 Infocommunications accessibility in public transport
	TRAFFIC	A5.1 Road congestion indicator A5.2 Percentage of disruption to basic public transport services A5.3 Availability of Bubi public bicycles and shared micromobility tools
	CUSTOMER EXPERIENCE	A6.1 Customer satisfaction indicator
	MULTIMODALITY AND ACCESSIBILITY	A7.4 Proportion of people travelling to or from the suburbs by public transport
COMPLEMENTARY INDICATORS	K1.2.1 Percentage of main cycling network with adequate service comfort K2.1.1 Ratio of pure electric cars and trucks registered in Budapest K2.2.1 Ratio of public transport services provided by modern, accessible vehicles K3.1.1 Passenger safety-perception indicator K3.2.2 Level of satisfaction with passenger information services K3.3.1 Rate of fare integration	
INDEX OF PROGRESS	The index shows the progress made in implementing the 44 actions set out in the BMT Objectives	

Mobility reporting (Budapest)

Core indicators

Complementary indicators → Index of progress

- Indicator code number, title
- Topic code
- The indicator infographic
- Evaluation, analysis
- Unit of measurement, Baseline, Actual, Target
- Definition of the indicator
- Methodology of the calculation
- Additional information



6 **DEFINÍCIÓ**

7 **MÉRÉS MÓDSZERTANA**

8 **ADATFORRÁS**

9 **FELELŐS SZERVEZETI EGYSÉG**

Code numbering of basic indicators:
A. [Subject number]. indicator number.



6 **DEFINÍCIÓ**

7 **MÉRÉS MÓDSZERTANA**

8 **ADATFORRÁS**

9 **FELELŐS SZERVEZETI EGYSÉG**

Code numbering of additional indicators:
K. [BMT operational target number]. indicator number.



6 **DEFINÍCIÓ**

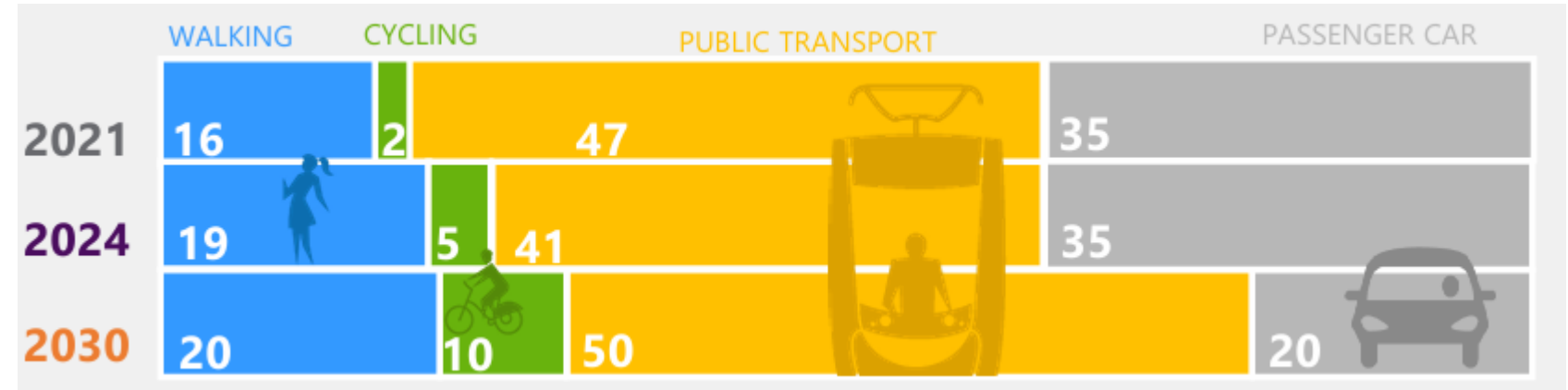
7 **MÉRÉS MÓDSZERTANA**

8 **ADATFORRÁS**

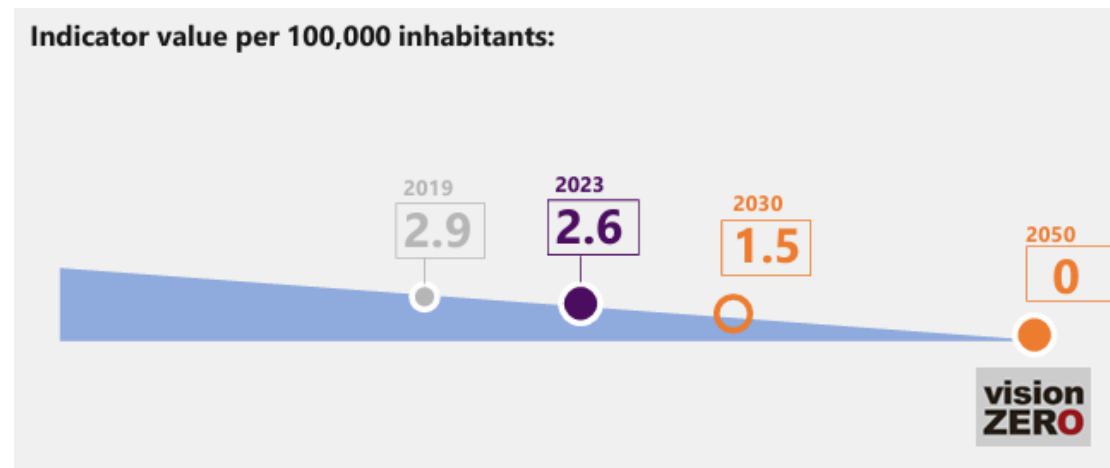
9 **FELELŐS SZERVEZETI EGYSÉG**

SUMI examples (Budapest)

Modal split



Fatalities



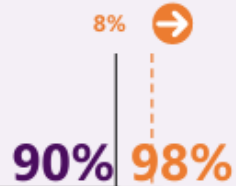
SUMI examples (Budapest)

Transport energy use

Accessibility

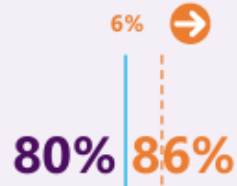


The level of physical and audiovisual accessibility of public transport sectors:*



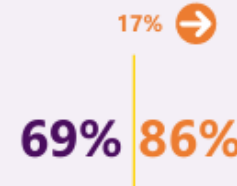
Metro sector

821 000 trips/workday



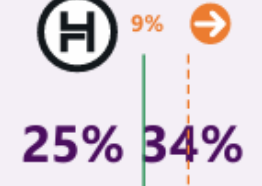
Trolleybus and bus sector

1 355 000 trips/workday



Tram sector

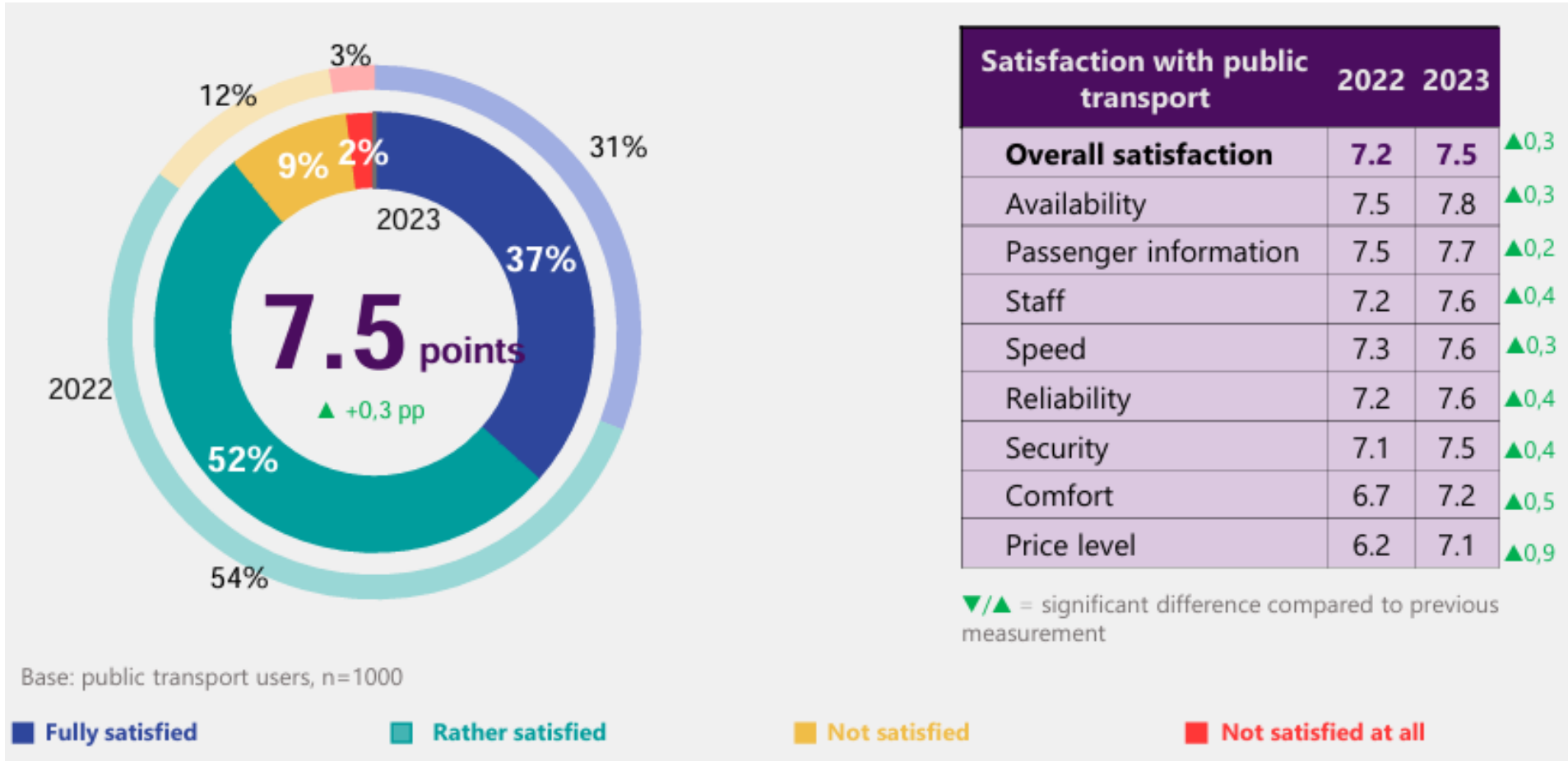
944 000 trips/workday



HÉV suburban railways

136 000 trips/workday

SUMI examples (Budapest)



4. Challenges



Plans are easy, change is hard!



Main barriers

- Political will, inconsistency of actions and plans
- Limited staff resources
- Lack of vision
- Lack of clear responsibilities
- Data availability
- Lack of stakeholder involvement
- Funding
- Resolving conflicting interests
- Domination of traditional transport planning



What could help?

- Learning from each other, Case studies
- How to sell the plan, and encourage decision-taking
 - Right framing of the issues
 - Sense of ownership – participation
 - Pressure of Monitoring & Evaluation (SUMI)
 - Quick wins, Testing out



Resources

Official Guidelines:

examples, practical considerations, checklists

<https://urban-mobility-observatory.transport.ec.europa.eu/>

UMO's EU city database on SUMP's
(c. 550 SUMP's around Europe,
5 listed in Ireland: Cork, Dublin, Galway,
Limerick, Waterford)



Thank You



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