

4D. Discovering the dimensions of a just transition

09:00 AM - 11:15 AM



Just Transition









TRANSPORT POVERTY, THE LESS SEXY SIDE OF MOBILITY

Annual POLIS Conference 2024 - Karlsruhe

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Mobilissimus

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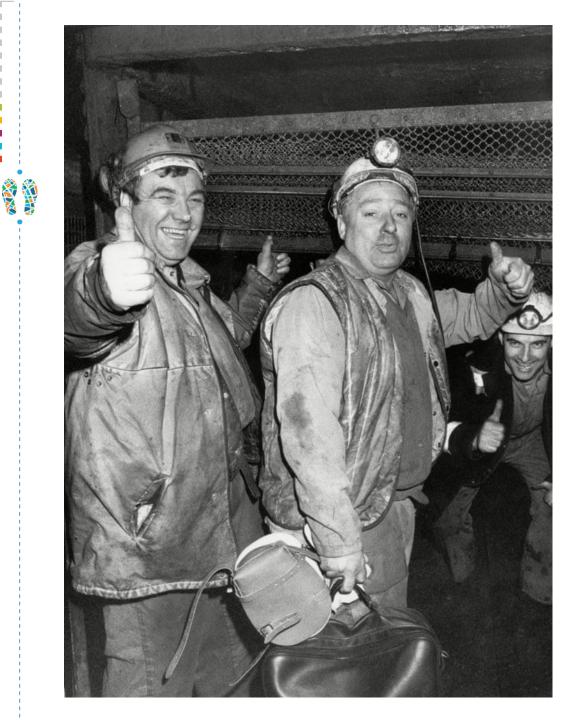
28.11.2024





WHO AM I?





HAVE A JOB THAT I'M HAPPY TO DO ON SUNDAYS!



MOBILISSIMUS AND MOBILISSIMUS.RO

- MOBILITY PLANNING AND CONSULTANCY COMPANY
- EXPERTS WITH DIFFERENT BACKGROUNDS
- WORKING IN LOCAL, REGIONAL AND INTERNATIONAL CONTEXT
- SECRETARIAT OF "MAGYAR CIVINET"



Planning and elaboration of strategies



Consultancy, communication and marketing



Professional cooperation

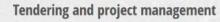


Education and trainings



Preparation of analyses and forecasts





the state of the



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FAIRTIQ – THE EASIEST MOBILE TICKETING



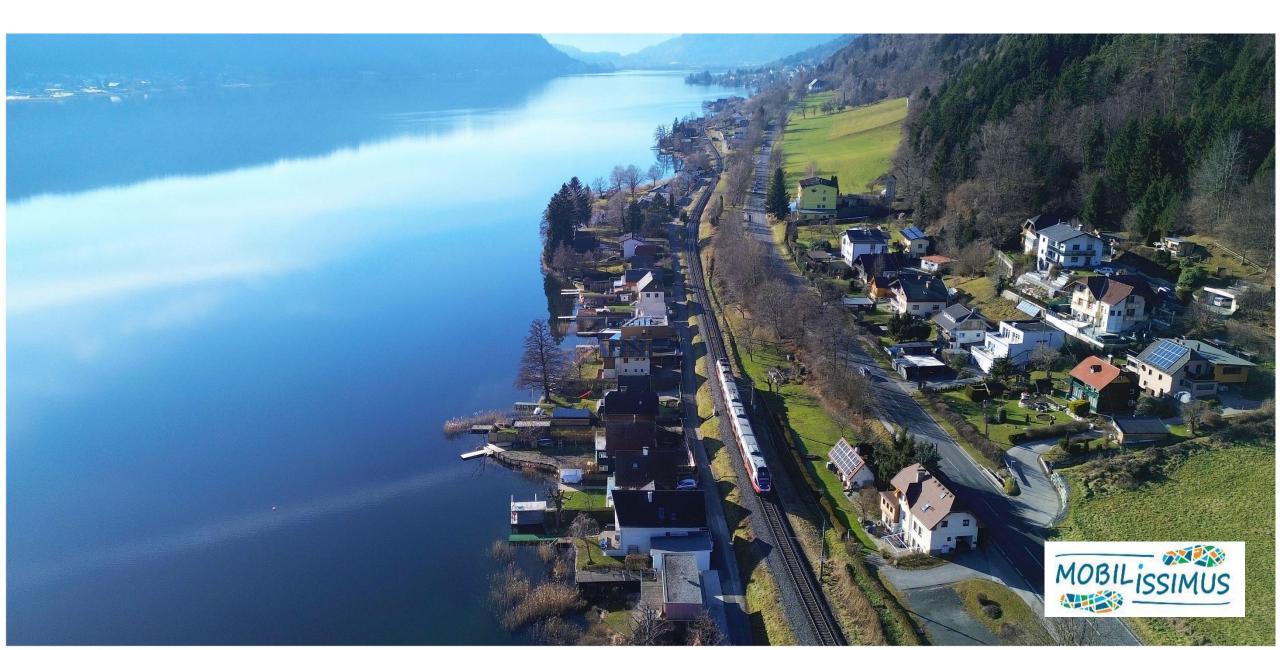


THE SEXY SIDE OF MOBILITY





BRIGHT SIDE OF MOBILITY



BRIGHT SIDE OF MOBILITY



BRIGHT SIDE OF MOBILITY





THE LESS BRIGHT SIDE OF MOBILITY





HOW DOES AI SEE TRANSPORT POVERTY?









HOW DO WE SEE TRANSPORT POVERTY?



HOW DO WE SEE TRANSPORT POVERTY?



HOW DO WE SEE TRANSPORT POVERTY?





METHODOLOGY AND OUR COMPARATIVE RESEARCH





OVERVIEW OF TRANSPORT POVERTY

"Lack of adequate transport services necessary to access general services and work, or to the inability to pay for these transport services (European Parliament 2022)."







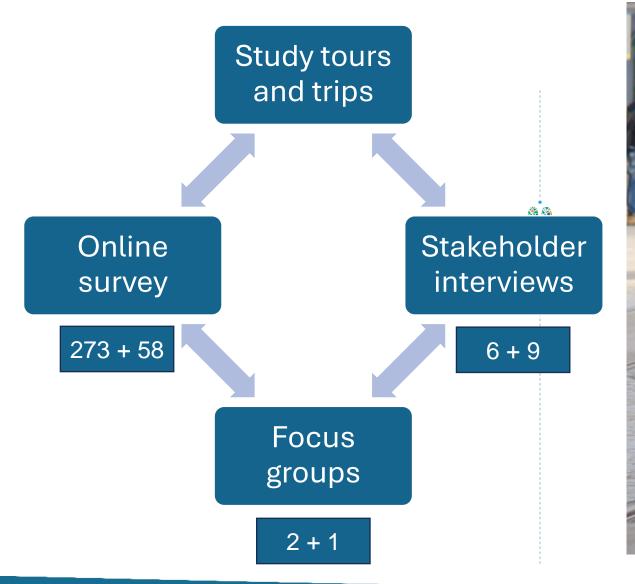
COMPONENTS OF TRANSPORT POVERTY



APPERANCE OF TRANSPORT POVERTY IN HUNGARY AND IN ROMANIA – OUR RESEARCH



RESEARCH METHODOLOGY

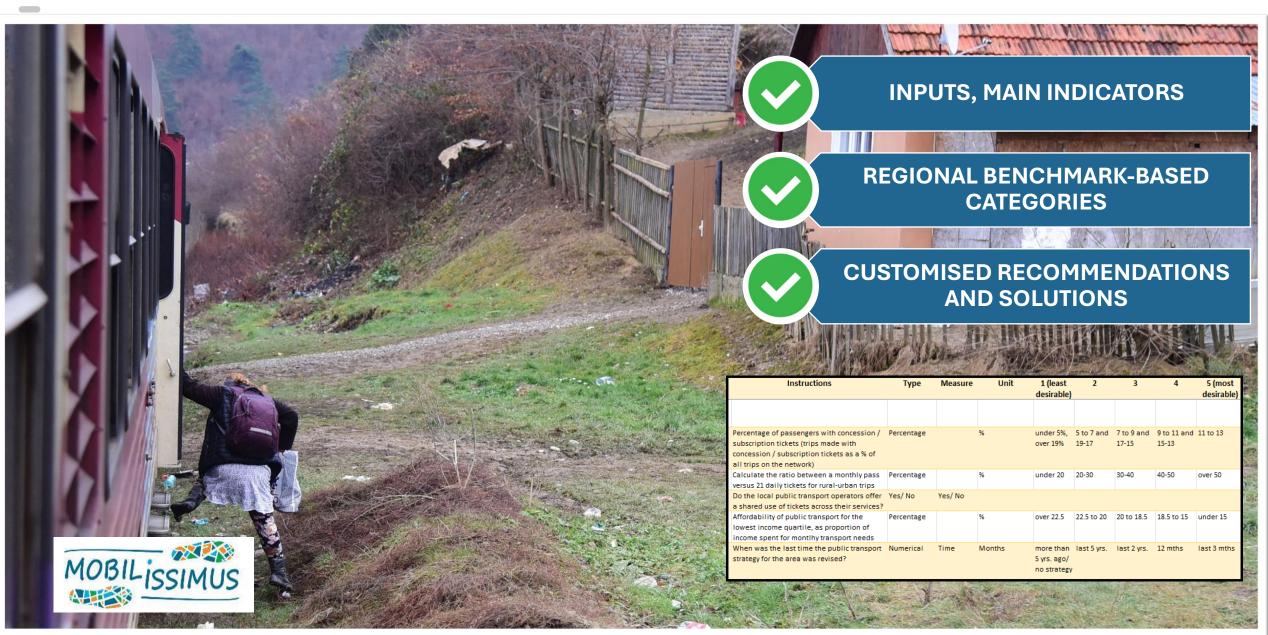




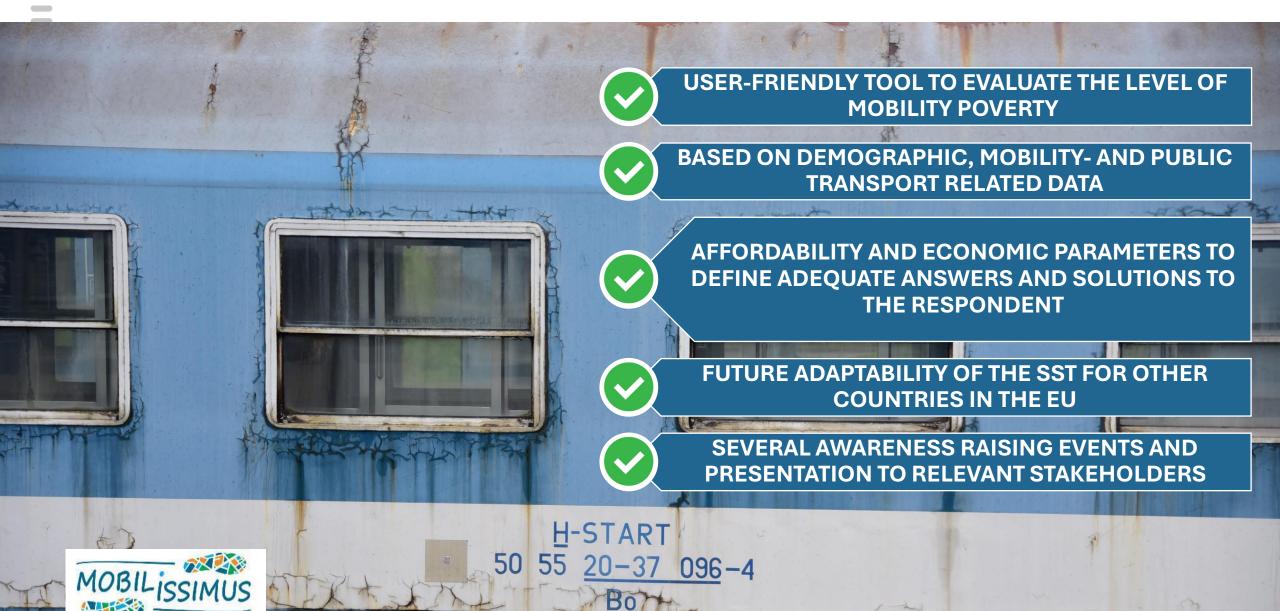




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OUTPUT: SST - SURVEY & SOLUTION TOOLKIT



DEBRECEN

DEBRECE

80 P

HONOS KTH



HUNGARY: BORSOD-ABAÚJ-ZEMPLÉN COUNTY





HERITAGE BASED, OUTDATED NETWORK AND SERVICES



URBAN AND RURAL DIFFERENCES

SAK UTÁNFUTÓKÉNT TOVÁBBÍTHATŐI LOW SERVICE LEVEL IN VACUUM AREAS

ACCEPTABLE FREQUENCY ONLY IN COMMUTING PERIOD

CHEAP TICKETS, POLITICAL PRODUCTS

STRONG APPEARANCE IN THE CITIES TOO



SPARSE PUBLIC TRANSPORT AND INADEQUATE ACCESSIBILITY





ROMANIA: BRASOV COUNTY AND COVASNA COUNTY





QUALITY AND QUANTITY RELATED ISSUES



QUALITY AND QUANTITY RELATED ISSUES



TACKLING ACCESSIBILITY IN DISPERSED COMMUNITIES

MARGINALISATION

PERSONAL SAFETY CONCERNS

ADMINISTRATIVE BOUNDARIES AND OPERATORS GENERATE ADDITIONAL ISOLATION



TOWARDS THE SOLUTIONS





BUILD ON POLICY AND GOVERNANCE







EASE THE DAILY COMMUTING

OFFER-BASED SERVICES INSTEAD OF DEMAND-BASED ONES

SHORTER JOURNEY TIME, LONGER OPERATION TIME, HIGHER FREQUENCIES

IMPROVE ALL SEGMENTS OF THE HOME-TO-WORK JOURNEYS

INTERGRATE SYSTEMS AND SERVICES

AMONG AUTHORITIES, OPERATORS, SERVICES AND ADMINISTRATIVE SYSTEMS

> ENSURE COST-EFFICIENT INTERMODALITY

J. Comp

INTEGRATE NETWORKS, TIMETABLES, TICKETING AND TECHNOLOGIES



IMPROVE FLEETS AND ACCESSIBILITY





IMPROVE NETWORKS AND SERVICES



ACCESSIBILITY AND INFRASTRUCTURE

REMOVE ACCESSIBILITY BARRIERS (STOPS, STATIONS AND THEIR ACCESS AREAS, ALSO VEHICLES)

DECREASE DEPENDENCY ON CAR BY ALTERNATIVES

> IMPROVE TRACKS AND SIGNALLING



AFFORDABILITY AND SOCIAL EQUITY

OFFEF CY

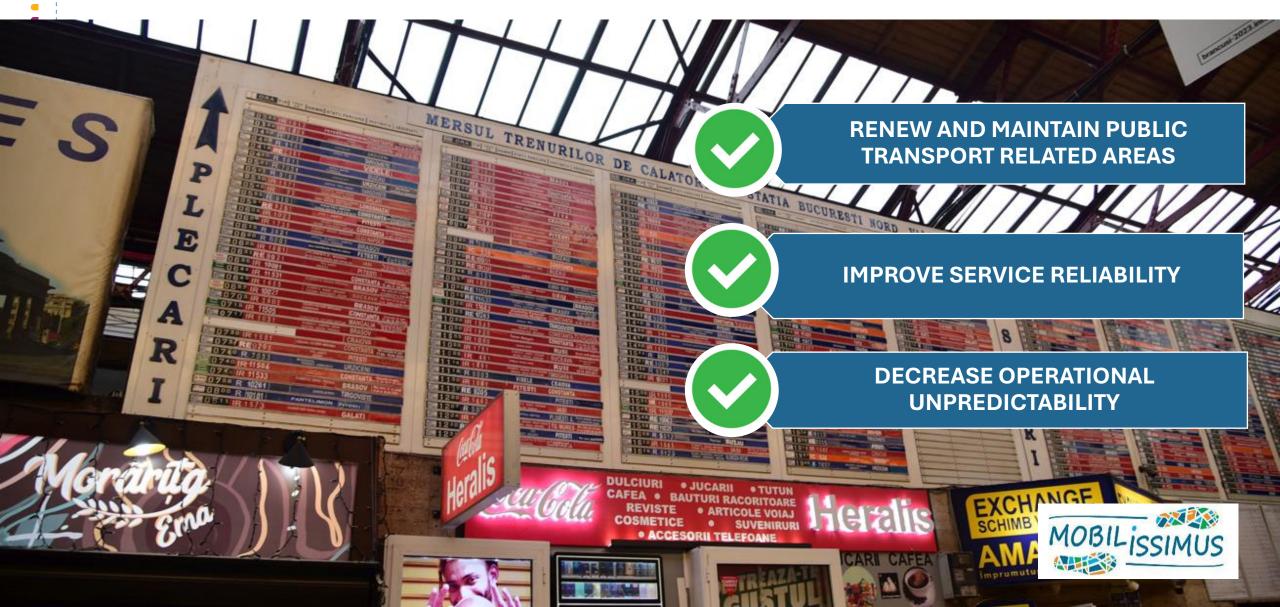
OFFERING ALTERNATIVES, LIKE SAFE CYCLING, SHARED SERVICES

EASE THE ACCESS TO HOUSING, HEALTHCARE, EDUCATION BY IMPROVED SERVICES

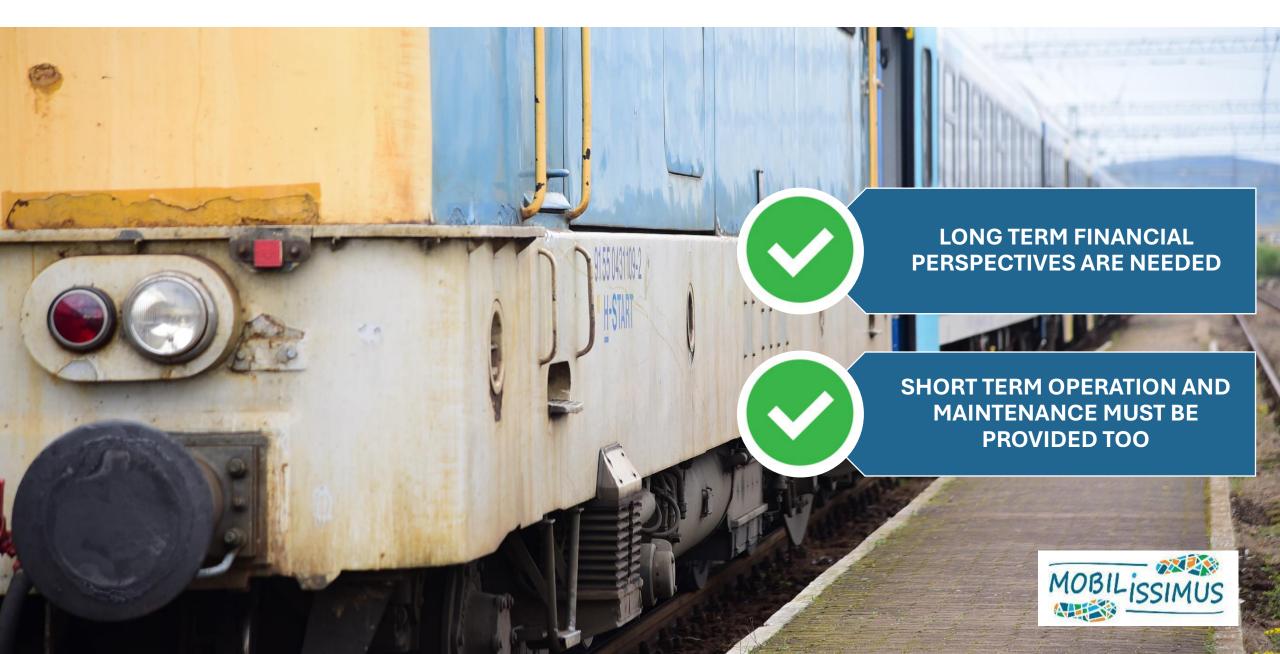
IMPROVE MOBILITY CONSCIOUS EDUCATION AND TEACH DIGITALISATION SKILLS



IMPROVE RELIABILITY AND QUALITY OF SERVICE



ENSURE FINANCIAL SUSTAINABILITY



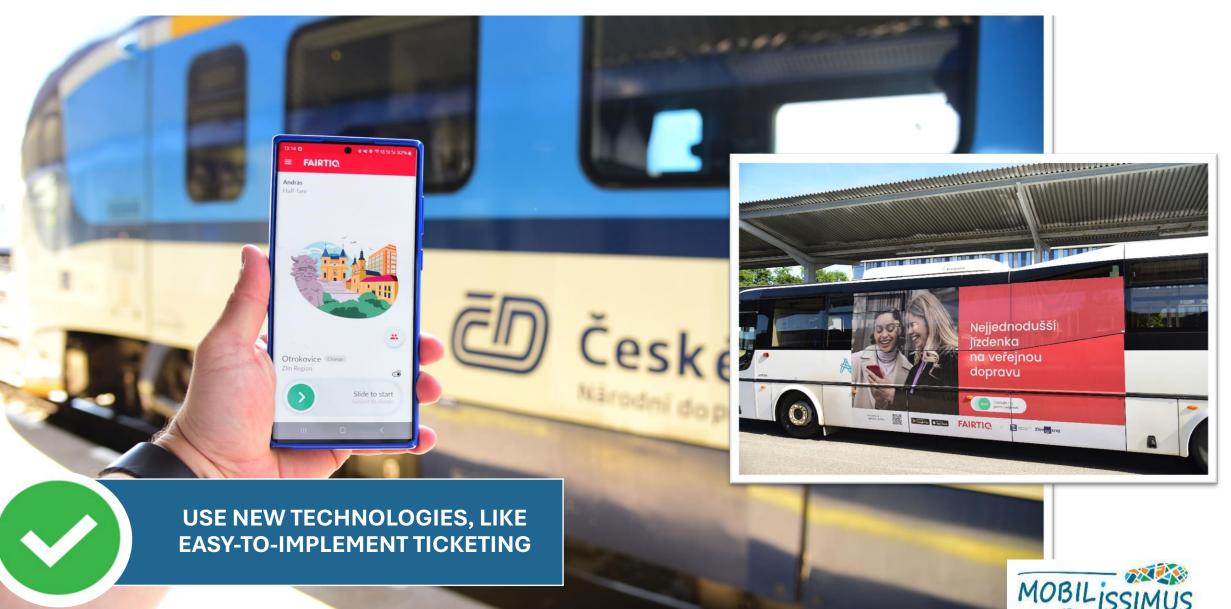
APPLY TECHNOLOGY-LED SOLUTIONS





 \checkmark

APPLY TECHNOLOGY-LED SOLUTIONS



WATCH OUR MOBILITY POVERTY VIDEO

Link: https://drive.google.com/file/d/1GHCv-EDUs_DFJAY9Z5BGyIF8Y_36EbJQ/view?usp=sharing





FOR YOUR ATTENTION! András EKÉS **MOBILISSIMUS** ekes@mobilissimus.hu +36 30 869 1674

ETHANK YOU

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Discovering the dimensions of a just transition

A paradigm shift towards accessibility justice: The case of job accessibility in the low countries

Hans Voerknecht Josefien Hoerée



Why accessibility?

- 'The role of mobility in society revolves around accessibility. Mobility allows people to actively participate in society and reach certain basic activities such as school, work, care facilities, shopping and social contacts.'
- Accessibility shortage => Limits participation in society





Approach of accessibility and mobility

- Utilitarian approach prioritizes the greater good for the greatest number of people
 - Overlooks distribution effects among different societal groups
 - Leads to improved accessibility for socially already advantaged groups
 - Looks too much at travel times
 - Overlooks the fact that for low incomes the cost of traveling is much more a threshold for accessibility than travel times





Integrated Perspective on Accessibility (IPOA)

- Considers different social functions, like school, work, hospital, ...
- Looks at the functioning of the entire Daily Urban System
- Includes spatial choices (like proximity)
- Looks at the interests and differences between (groups of) people
- Looks not only at travel times, but also at costs
- => To calculate different policy measures



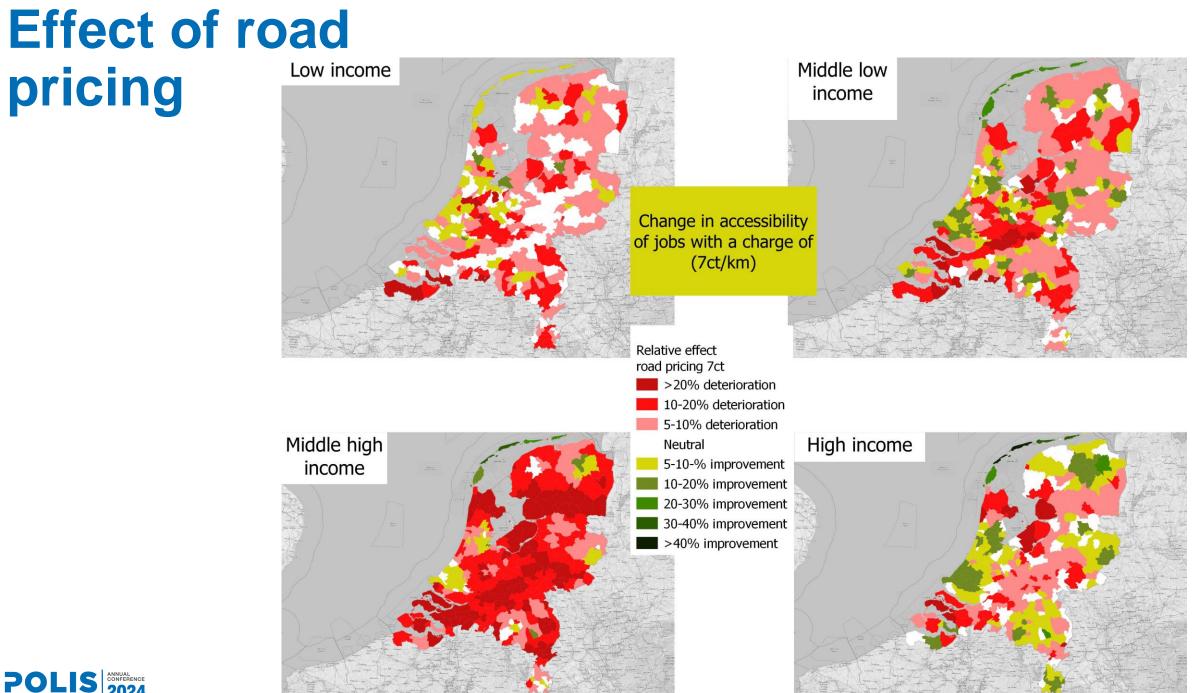


How does IPOA work?

- Social economic input:
 - Data on housing location per zone and income group
 - Data on jobs, schools, ... per zone
 - Data on car ownership, driver license, public transport subscription, ...
 - Cost of car and public transport
- Travel time and distance for car, bike and public transport



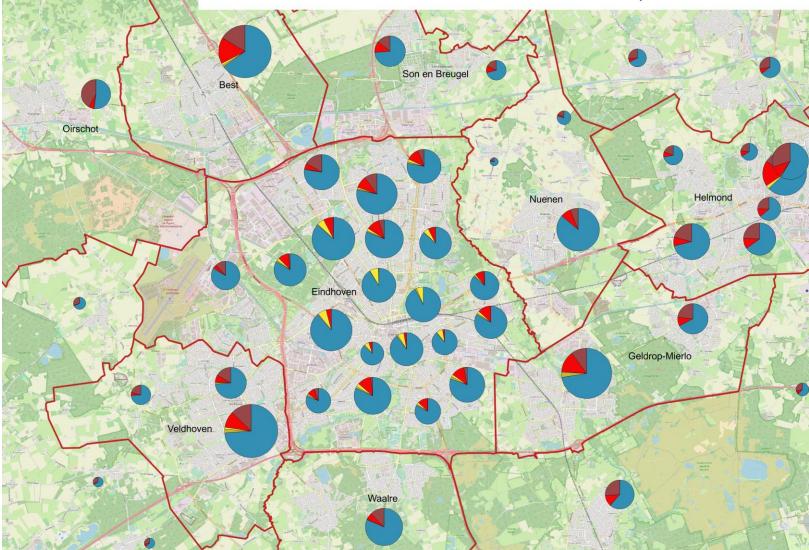


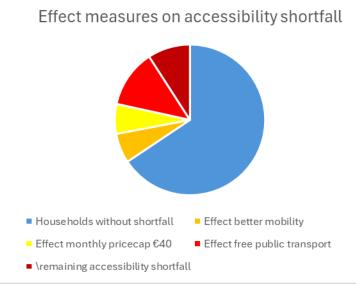




Effects of measures on accessibility shortage

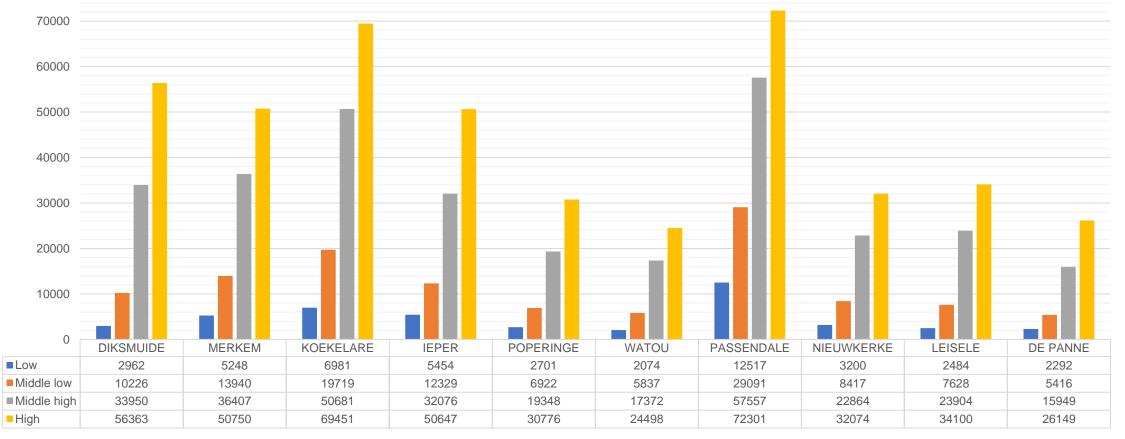
Aantal huishoudens met bereikbaarheidstekort en de oplosbaarheid ervan





- Shows the extent to which the various measures provide a solution for low-income people
- Different impact of measures in the center of Eindhoven and the municipalities around

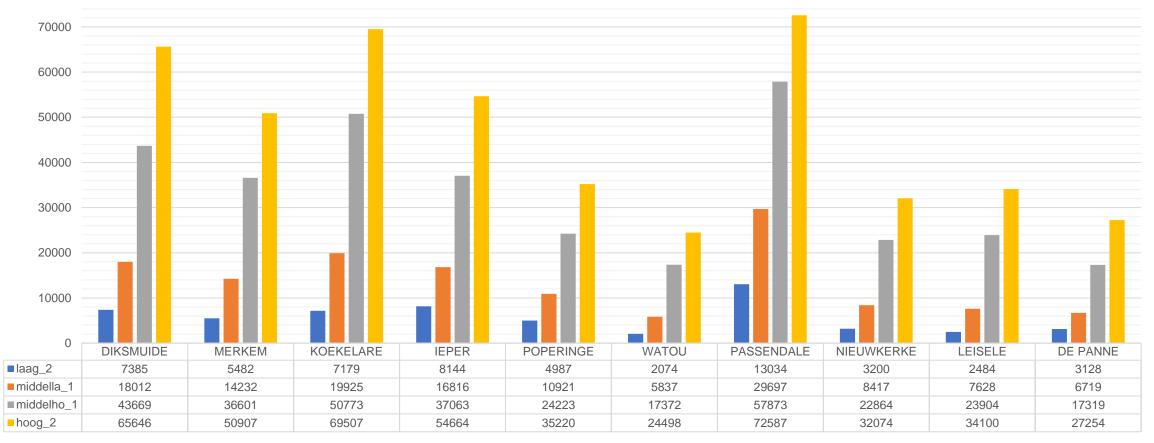




■Low ■ Middle low ■ Middle high ■ High



Job accessibility- effect of faster Public transport & Pricecap of 0.5euro



■laag_2 ■middella_1 ■middelho_1 ■hoog_2





Westhoek - Car dependency No data Average: 30% - 42,7% High: 42,7% - 59,3% Very high: 59,3% - 75,1% Very high: 75,1% - 84,4% Very high: 84,4 - 94,2% 10 km 5



0

Car dependency - percentage of low income jobs that are only reachable by car



IPOA can be used:

- On every issue where accessibility inequality is at stake:
 - public transportation concessions
 - urbanisation strategy
 - chain mobility
 - ...
- Comparing policy measures
- Providing insight into mobility measures







Thank you for your attention!





27-28 NOVEMBER 2024

KARLSRUHE (DE)

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Baden-Württemberg Ministry of Transport







Impact and design of Barcelona LEZ from a social justice perspective

Jordi Jové Palou, Àrea Metropolitana de Barcelona

Núria Pérez Sans, Institut Metròpoli

Index

0. Introduction

- 1. The low emission zone
- 2. Social side: authorizations and exemptions
- 3. Social acceptance
- 4. Social impact according to income
- 5. Take-away messages



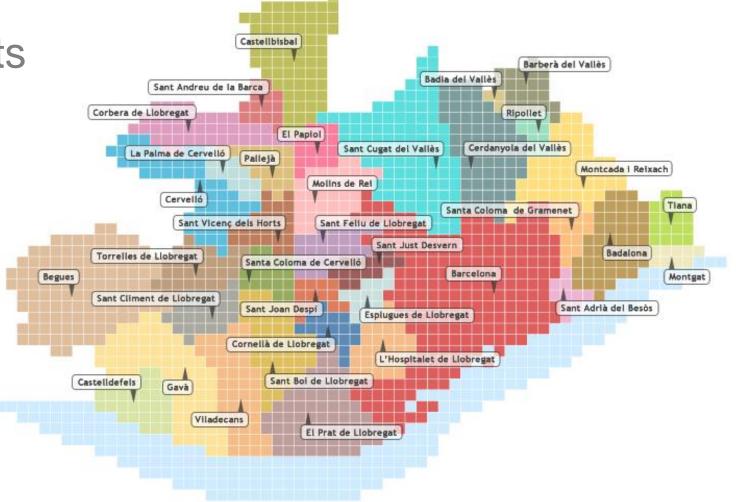




3.239.337 inhabitants

36 municipalities

636 km²





1. The low emission zone

The AMB, as an administration with competences in the protection of the environment and in mobility, has carried out initiatives, in collaboration with other administrations, to alleviate the effects of pollution on the health of the population. In the Political Agreement for the improvement of air quality in the conurbation of Barcelona (2017) it was agreed to launch the *ZBE-Rondas de Barcelona* and, it established other LEZ not started.

- LEZ in Area 40 (Zone of special protection of the atmospheric environment)
- Metropolitan LEX (Municipalities of the AMB outside the ring of Barcelona)

On July 25, 2017, the AMB approved the conditions for traffic restrictions in the Low Emission Zone of the Ring of Barcelona in the event of a pollution episode from December 2017. On January 1, 2020, the ZBE Rondes de Barcelona came into operation permanently.





2. Social side: authorizations and exemptions People Health Business City life





Dynamic tests in repair whorkshops

Vehicles in dynamic tests in authorised maintenance and repair workshops.



Special vehicles

Adapted vehicles used for the provision of special services which need temporary access.



Activities with municipal authorization

Vehicles with municipal authorization to provide service in singular activities or events on public roads.



Emergency services and other essential services

Medical services, funeral services, civil protection, firefighters, police and law enforcement agencies.



Periodic medical treatments

Vehicles that transport persons to undergro periodic medical treatments within the ZBEs.



3. Social acceptance





- 86% of the people surveyed declare that the Zone of Low Emissions Rounds of Barcelona has not affected them.
- Buying a vehicle with an environmental label is the solution with the most answers, followed by **using public transport**. These two solutions make up 53% of the total answers



- The **majority of respondents agree** that **pollution is a problem** in the metropolitan area of Barcelona.
- Almost 45% claim to have changed some habit to reduce pollution. -
- **80% agree with placing traffic restrictions** on the most polluting vehicles (without an environmental label).
- 70% positively assess the measure of traffic restrictions in the ZBE.
- 93% of respondents who have changed their vehicle have done so for a vehicle with a C, ECO or -**ZERO** label
- 61% of respondents consider themselves satisfied or very satisfied with the ZBE.
- **75%** of respondents say that **the implementation of the ZBE has not affected them**. -

Data Source

- Weekday mobility survey (Enquesta de mobilitat en dia feiner, EMEF) (official statistics): Mobility flows on working days and sociodemographic profiles of the population over 16 years of age.
- National Institute of Statistics (INE): average income per consumption unit by census section of residence.

3 residential areas according to population income (according to quintiles):

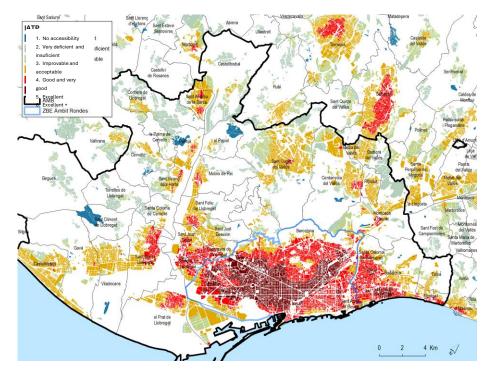
- People living in low-income areas (1rst quintile)
- People living in middle income areas (2nd, 3rd, 4th quintile)
- People living in high income areas (5th quintile).
- Public Transport Accessibility Index (IATP). Metropolitan Transport Authority (ATM).
- It doesn't include professional mobility related to freight transport and other professional sectors (1,5%, in 2019).





Social perspective on mobility (context)

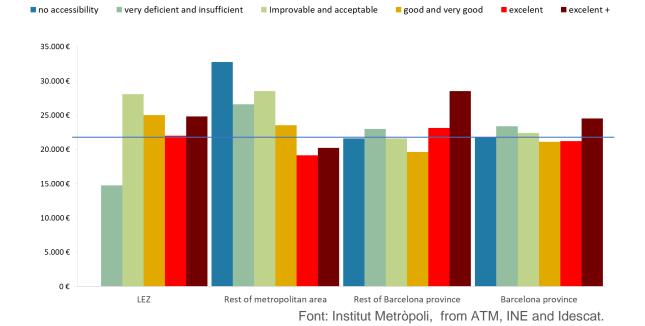
 99% of the population residing in the LEZ has accessibility public transport levels between Good and Excellent.



Institut Metròpoli from Public Transport Accessibility Index (IATP). Metropolitan Transport Authority (ATM).

- A good public transport service can be a good redistributive mechanism (regardless of income, access to services can be guaranteed).
- In the LEZ area, better accessibility is not directly related to income.

Level of accessibility to public transport and median income level

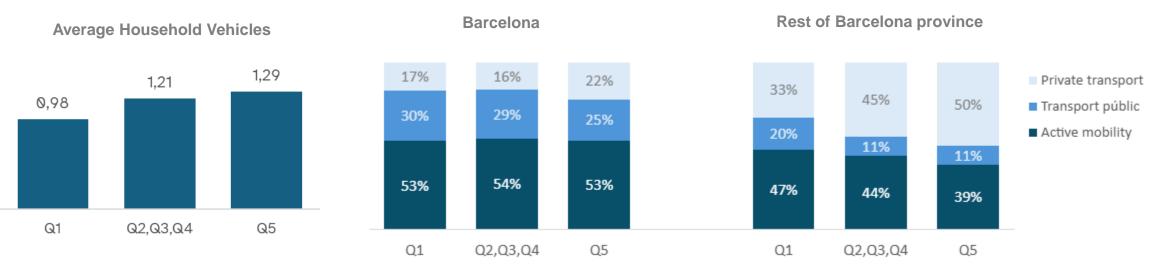




Social perspective on mobility (context)

 Less income, less access to a

 The lower the income, the less use of private vehicles and more of public driver's license and a private transport (particularly outside Barcelona city) vehicle.



Institut Metròpoli, from EMEF 2019 (ATM, Institut Metropoli and Idescat) and INE (2019)



- Only 1.2% people (58.000) residing in the province of Barcelona over the age of 16 were affected* by the restriction on movement (scenario 2019 – before implementation).
- The rest of the people travelled by authorised private vehicle (38%), 54% did not travel by private vehicle and 7% did not leave home.
- 86% of the affected people correspond to people with high or medium incomes.

	Q1	Q2,Q3,Q4	Q5	
Total people (thousands)	778	2.890	1.021	
People not affected (% of the total number)	99,0%	98,8%	98,6%	
Affected people (% of the total number)		1,2%	1,4%	

Institut Metròpoli, from EMEF 2019 (ATM, Institut Metropoli and Idescat) and INE (2019)

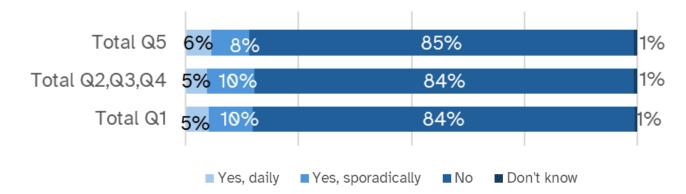
* Affected people:

- Step into the area of the LEZ Rondes: make a trip to or from the area of the LEZ
- In some of the stages of the journey he has used a private vehicle without an environmental label from the DGT
- It is carried out on a day and time when the restriction is active: working day and time slot between 7 a.m. and 8 p.m.



- 15% of people living in the province of Barcelona say they have been affected by the LEZ (Scenario 2021 after implementation, direct question).
- There are no substantial differences in the percentage of people affected according to income

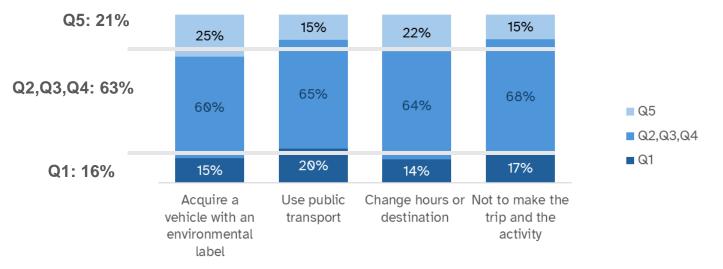
Percentage of people who declare that they have been affected or not by the restrictions of the LEZ-Rondes according to socioeconomic class and place of residence.



Institut Metròpoli, from EMEF 2021 (ATM, Institut Metropoli and Idescat) and INE (2019)



- The majority solution was to purchase a new vehicle with an environmental label (28%), but 25% switched to public transport (Scenario 2021 after implentation, direct question)
- The solutions adopted to the problem are indicators of social inequalities: High incomes--> + Vehicle renewal
 - Middle and low incomes--> + modal change public transport



TOTAL RESPONSES

Institu Metròpoli, from EMEF 2021 (ATM, Institut Metropoli and Idescat) and INE (2019)



5. Take-away messages

- In the Political Agreement for the improvement of air quality in the conurbation of Barcelona (2017) it was agreed to launch the ZBE-Rondes de Barcelona and, it established other LEZ not started.
- On January 1, 2020, the ZBE Rondes de Barcelona came into operation permanently.
- Most respondents agree that pollution is a problem in the metropolitan area of Barcelona.
- The Barcelona LEZ incorporates various social aspects to ensure inclusivity and support for all residents.
 - Among others, the social dimension of the policy design includes a tax rebate for daily driving authorizations for low-income persons, as well as exemptions from driving restrictions according to the needs of the users, the activity they perform, or the purpose of the trip.



5. Take-away messages

- The impact of the LEZ-Rondes de Barcelona on mobility journeys and people has been rather low and transversal both in terms of social groups.
- Despite having a good supply in public transport, the majority solution has been to acquire vehicles with an environmental label (28%) and switched to public transport (25%).
 - People living in affluent areas have renewed their vehicles more frequently than those in other population sectors. The solutions adopted to the problem are indicators of social inequalities: High incomes results in higher vehicle renewal, and middle and low incomes results in higher modal change public transport.
- Before assessing the impact of a measure such as the LEZ on income, it is necessary to have a good understanding of the context in which it is implemented:
 - Motorization, access to private vehicles and mobility patterns according to income, sociodemographic profile or transport public offer.
 - Urban social segregation of the population and accessibility to public transport.
 - Design of the measure (% vehicles affected).







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Baden-Württemberg Ministry of Transport





Navigating accessibility

Lisbon's journey towards inclusive urban mobility solutions

Hugo Costa, Manuel Banza, Sofia Taborda

EMEL - Municipal Company for Mobility and Parking of Lisbon 28 November 2024





- deploy an operational data space to facilitate data access, pooling and sharing for more efficient, safe, sustainable and resilient transport
- through the development of a decentralised technical infrastructure and common governance mechanisms
- use cases in 9 cities and regions across Europe
- co-funded by the Digital Europe Programme

	-
YIT	
deploy	
EMDS	



Background

- an (open-source) model to calculate sidewalk gross width of all streets in the city of Lisbon
- for the identification of streets not in line with the recommendations of Lisbon's Pedestrian Accessibility Plan







Goal

- build up layers of information to enrich the model
- harness data to:
 - enable reliable door-to-door route planning for People with Reduced Mobility (PRM)
 - better inform decision-making in Lisbon





How we are addressing the challenge









Literature review to outline of PRM groups according to their type of needs: physical, sensorial, cognitive



Consultation with PRM representatives to validate the approach

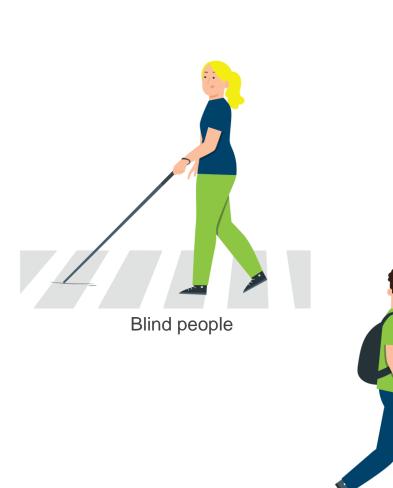


Experimentation with three different user groups to assess obstacles and barriers



Adopting a people-centred approach

- focus on both visible and invisible diversities
- select «extreme» use cases (or user groups) to maximise the range of specific needs



Neurodivergent people (with visual and/or noise hypersensitivity)

Manual wheelchair users





- each user group will experiment a set of services through a list of predefined tasks
- gather all the data attributes necessary in the task
- this exercise will be carried out in two ways

Natural route

executed autonomously and without interference, adapted to their specific needs

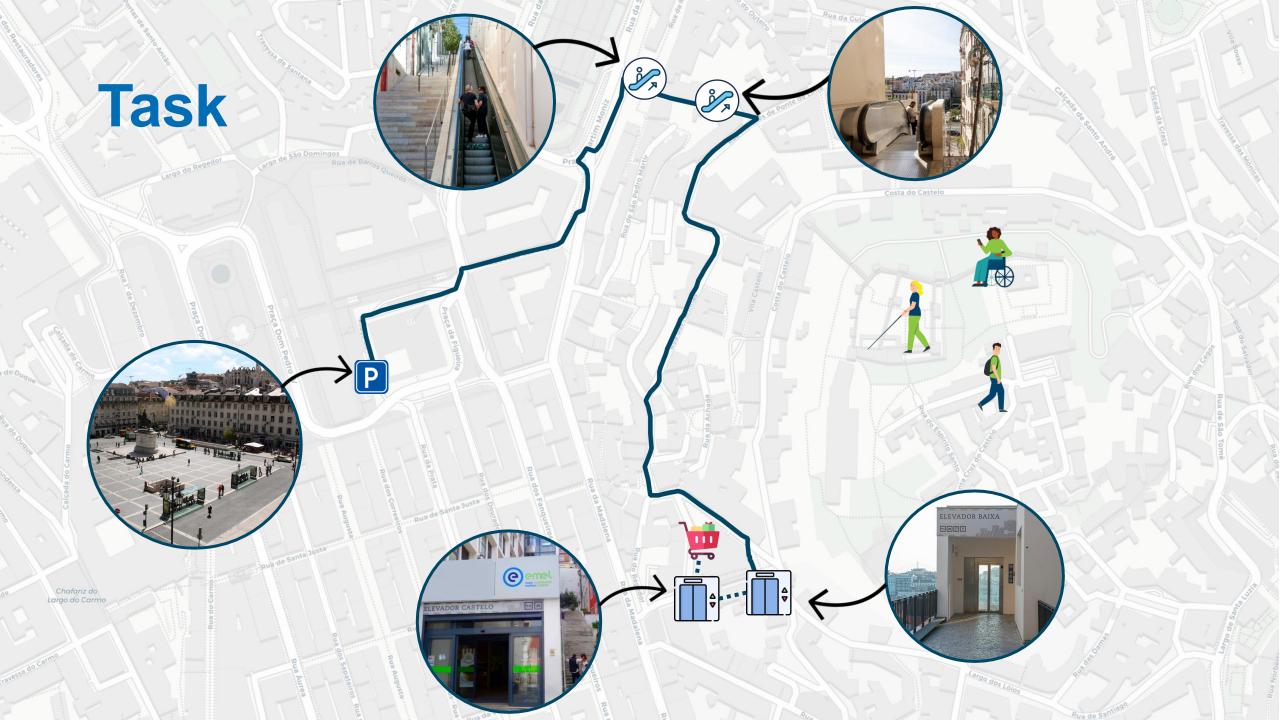




Most efficient route

as close as possible to the recommended by a journey planner





What will come next?



Gap analysis to understand data that needs to be generated



Harmonise and standardise (existing and new) data



Data sources will feed the visualisation map on and shared through the European Mobility Data Space





27-28 NOVEMBER 2024

KARLSRUHE (DE)



For more information:

Hugo Costa; Manuel Banza; Sofia Taborda projetos@emel.pt



Baden-Württemberg Ministry of Transport





Cycling Mothers Paving the Way to Safer, Inclusive Cycling

28/11/2024 Elke Franchois

Project Leader | Mobiel 21 (Belgium)





Any parents in this room?

Parents drive transport choiceswith safety in mind

- Parents play a crucial role in choosing the means of transport and route to school.
- Parents are key figures in teaching cycling and traffic skills.
- Parents' sense of safety is decisive in how children travel to school.





Belgian moms feel unsafe

Data City Monitor Leuven

- Women agree less than men that they can **cycle safely** in Leuven.
- Women agree less than men that the **traffic in their neighbourhood** is safe enough for children to go to school alone.
- Women agree more than men that cars, trucks and motorbikes drive too fast in their neighbourhood.







Belgian moms feel unsafe

Sustainable mobility survey by Mobiel 21

- 18% of all respondents indicate 'unsafe school environments' as one of the top three problems in mobility.
- 41% of **women with children under 12** indicate unsafe school environments as the most important mobility problem, ranking it second after 'traffic unsafety'.



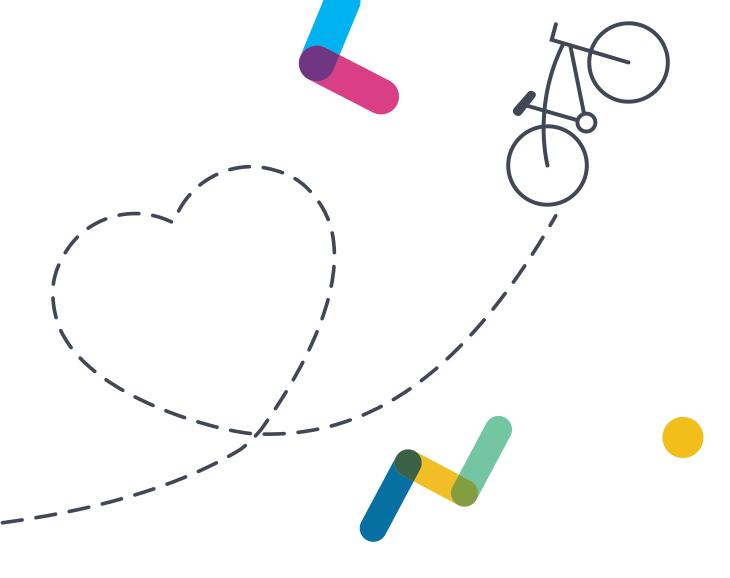






How can we **remove barriers** for children to cycle independently with confidence?

Let's follow the journey of our cycling moms!







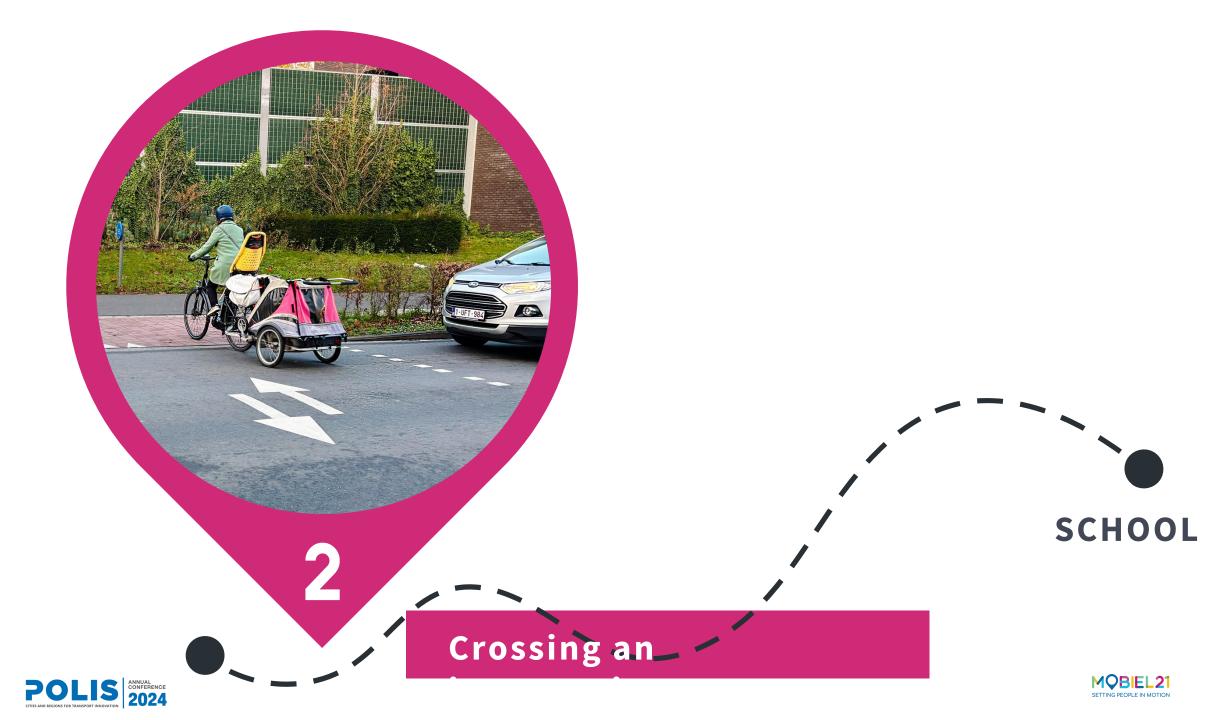
Customer Journey Mapping

- 18 diverse participants
- Preliminary telephone intake
- Bike ride in the morning together to school
- Scoring **5 contact points** along the way
- In-depth interviews right after the bike ride











Too little space for cyclists of different speeds











POLIS CITIES AND REGIONS FOR TEAMSPORT INNOVATION



POLIS CONFERENCE 2024



"The end of the road is not the end of the journey"



Policy recommendations

- Create protected or **separated cycle paths**
- Make intersections and crossings conflict-free
- Prioritise low-traffic streets
- Reduce the speed of motorized traffic
- Avoid mixing heavy traffic with bicycle traffic
- Ensure unambiguous regulations and clear signage
- Create campaigns to increase understanding, amongst all road users, of the different types and speeds of cyclists
- Communicate about traffic rules that protect cyclists, and ensure that those rules are properly enforced







all for zero







27-28 NOVEMBER 2024

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Baden-Württemberg Ministry of Transport





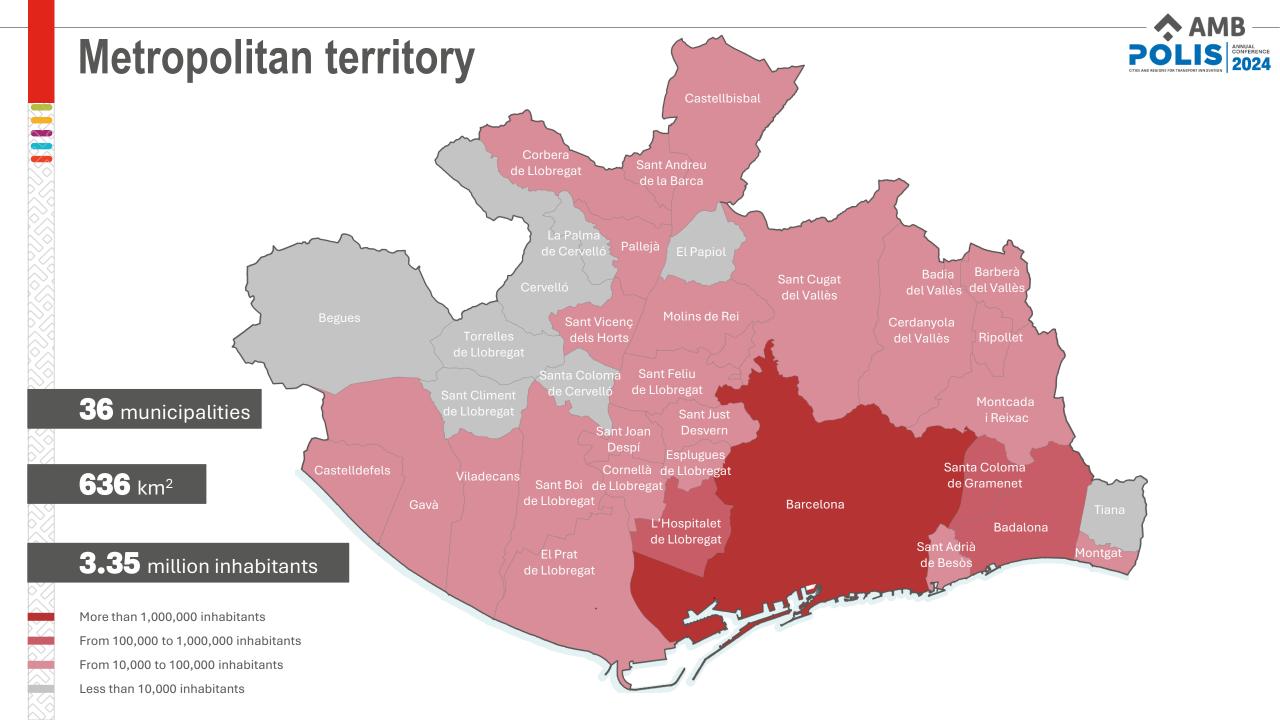


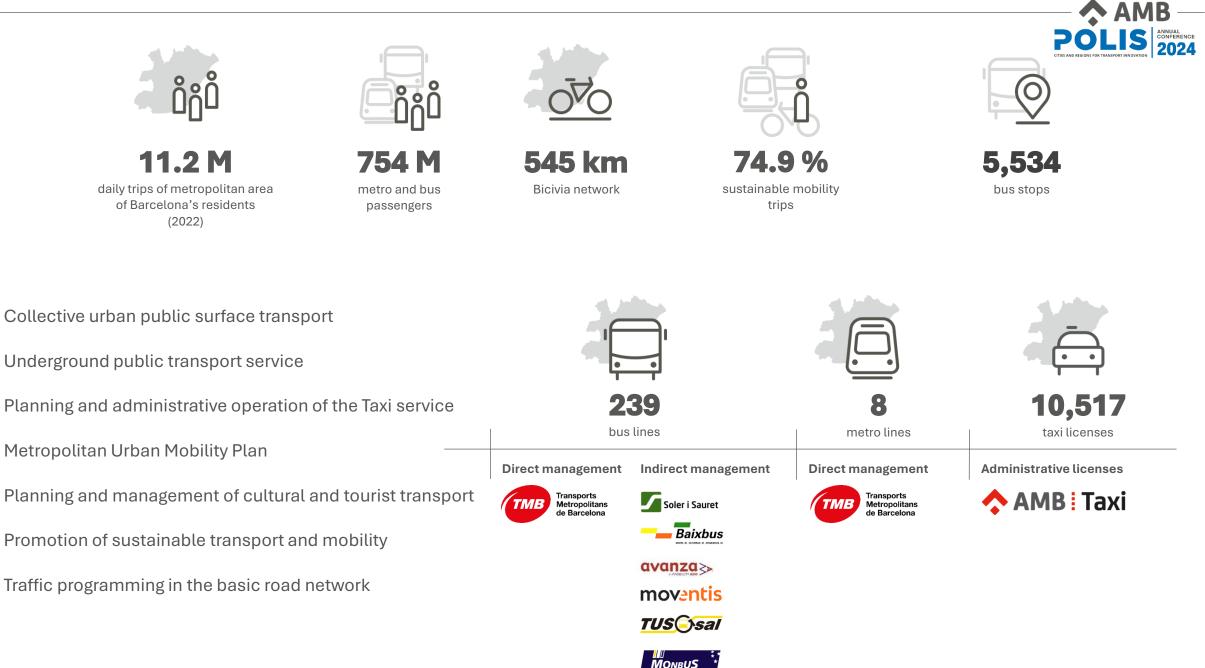
Session 4D. Discovering the Dimensions of a Just Transition

Adding a feminist perspective into AMB's transport and mobility policies











What does "the feminist view" means?



Cross-cutting look that includes all

groups that are vulnerable



What is "La Mirada" in the Mobility, Transport and Sustainability Department in AMB?

Why?

Because we are the Public Administration responsible for mobility services and public transport in the Barcelona Metropolitan Area, motor of the society daily movement.

Who?

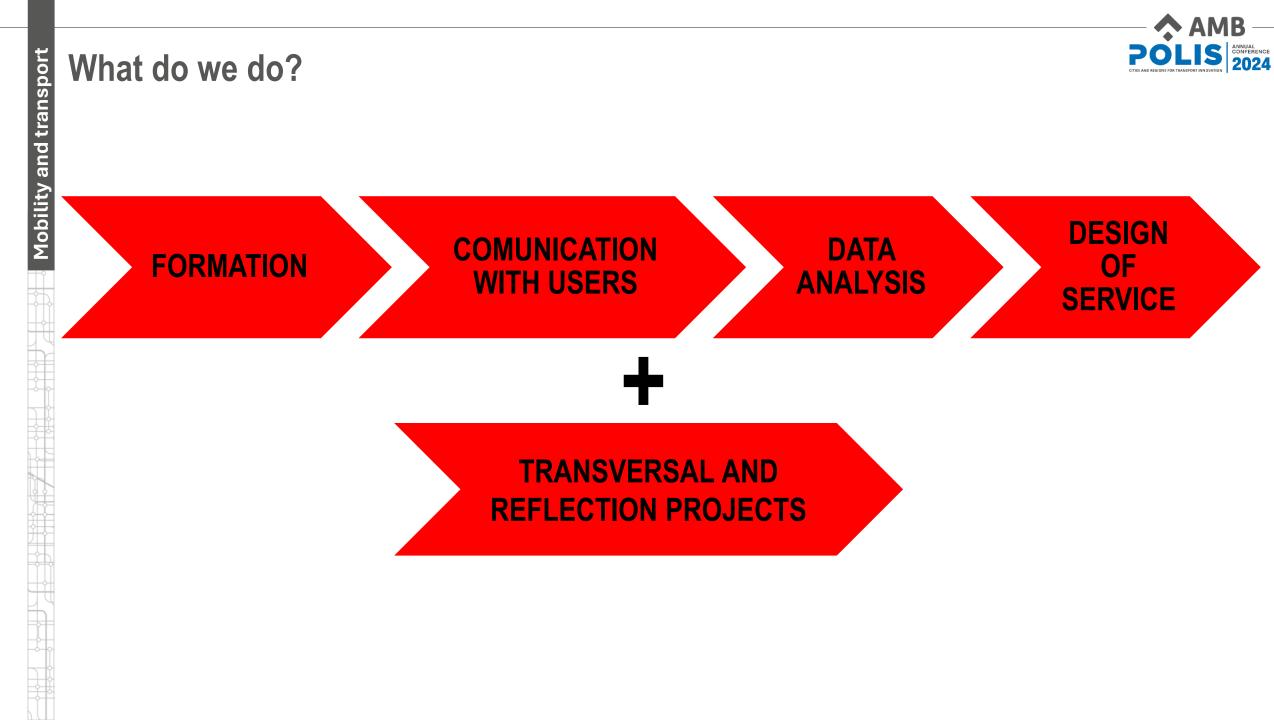
A group of 6 women, mobility engineers and a legal technician working in AMB that dedicate part of our job on improving mobility and transport with feminist perspective. (Starting in July 2020)



"THE BUS IS OURS!"

EL BUS ÉS NOSTRE









FORMATION FOR PERSONNEL OF BUS OPERATORS

FORMATION



PREPARATION OF EDUCATION PROGRAM IN PROJECTS WITH GENDER PERSPECTIVE FOR PEOPLE OF THE MOBILITY AND TRANSPORT DEPARTMENT





COMMUNICATION CAMPAIGN (in progress)

INCLUSIFY (EIT project) → COMUNITY "AMBVOSALTRES"

COMUNICATION WITH USERS

AMB VOSALTRES

Listen, engage, improve



Objectiu empoderar les dones per a <u>una mobilitat inclusiva</u> i implicar-les de manera proactiva per desenvolupar una eina i una metodologia que responguin a les seves preocupacions i reptes sobre el sistema de transport.

Consorci: 🔷 AMB Årea Metropolitana

WALK21

AMB INFORMACIÓ

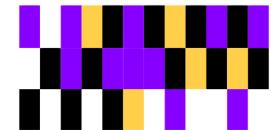




DATA ANALYSIS

METROPOLITAN SURVEY TO WOMEN AND NON-BINARY PEOPLE ABOUT CYCLING MOBILITY





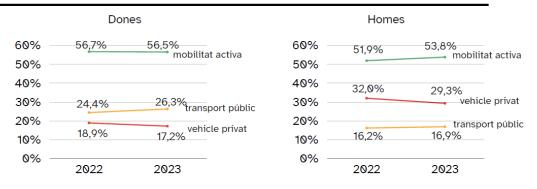
Institut Metròpoli

ANALYSIS OF METROPOLITAN INDICATORS ABOUT FEMINIST MOBILITY

Una mirada de gènere en les polítiques de mobilitat de l'AMB

Indicadors metropolitans de mobilitat amb perspectiva de gènere. Una aproximació a partir d'infografies

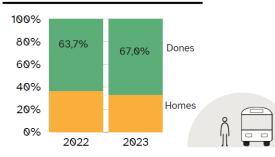
Distribució modal dels desplaçaments



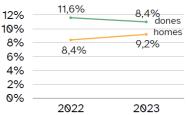
Distribució percentual dels desplaçaments per l'ús del mitjà de transport, respecte el total desplaçaments de cada sexe

Enquesta de mobilitat en dia feiner (ATM, Idescat i Institut Metròpoli), 2023

Usuàries del servei de bus metropolità diürn AMB



Percepció d'inseguretat/perill al transport públic





Proporció de dones i homes que relaten sentir inseguretat o perill quan es desplacen en transport públic

Font



DESIGN OF SERVICE

SUPPORT TO THE ACCESSIBILITY PLAN OF THE METROPOLITAN BUS NETWORK

021

ESTRATÈGIA METROPOLITANA PER UNA XARXA D'AUTOBÚS ACCESSIBLE I INCLUSIVA

METROPOLITAN STRATEGY FOR AN ACCESSIBLE AND INCLUSIVE BUS NETWORK

- 1. New accessibility management model
- 2. Consider accessibility as part of quality of service
- 3. Information and communication technologies
- 4. Improve bus stops accessibility
- 5. Identify and improve accessibility on buses
- 6. Information about metropolitan bus network to users and other experts
- 7. Actions for a more inclusive metropolitan bus service

"STOP ON DEMAND" SERVICE FOR WOMEN AND YOUNGERS IN NIGHT BUS SERVICES



BETTER LIGHTING OF BUS STOPS



TOILETS FOR BUS DRIVERS AT THE END OF EACH LINE



TRANSVERSAL AND REFLECTION PROJECTS



MEDITERRANEAN WOMEN URBANISTS NETWORK



PARTICIPATION IN THE CATALAN HARASSMENT PROTOCOL IN PUBLIC TRANSPORT (ATM)



ATM Àrea de Barcelona Autoritat del Transport Metropolità

3. Pla contra l'assetjament sexual al transport públic



www.amb.cat

lamirada.mobilitat@amb.cat







MyFairShare –

Individual mobility budgets as a foundation for social and ethical carbon reduction

Kristin Tovaas, AIT Austrian Institute of Technology Florian Lorenz, Consultant for Postcarbon Urbanism



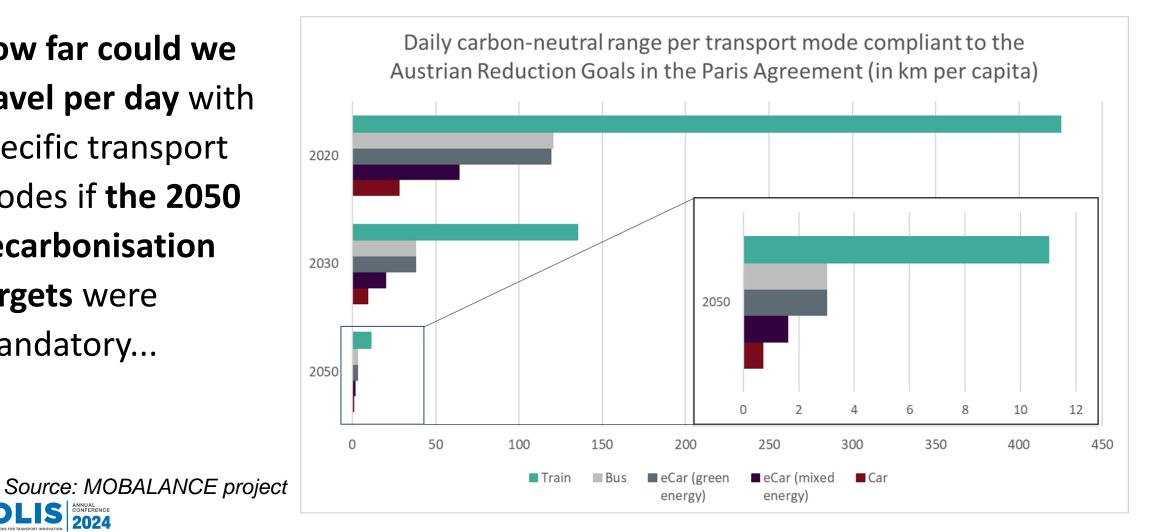
- We've become an **increasingly mobile society**
- Resulted in little to no success in reducing overall emissions or narrowing the gap between the mobility privileged and the mobility disadvantaged







How far could we travel per day with specific transport modes if the 2050 decarbonisation targets were mandatory...





The call to action

What does it take to **design a** climate-compatible mobility system while at the same time satisfying people's needs?



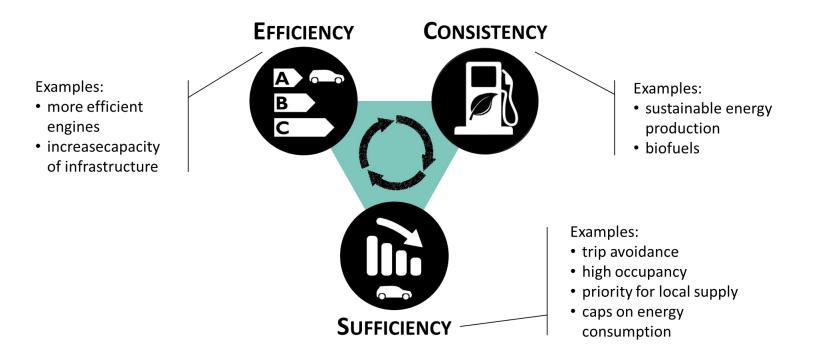








We need to **shift our perspective** on mobility: from accessibility to transport, to **accessibility to essential everyday activities** (e.g. living, working, learning, caring, supplying and enjoying).





Fairness as the guiding principle

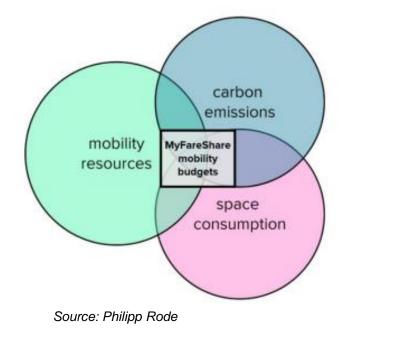
Activity Space Basic everyday life functionalities



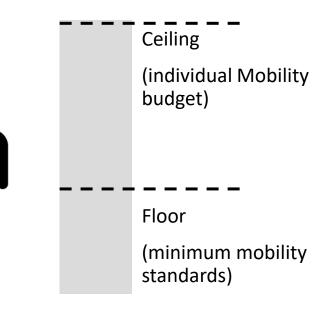
A focus on fairness accounts for group-specific activity spaces, their typical sets of everyday life functionalities and acceptable travel time budgets as the basis for developing transport policies for a sustainable and just transition.



What if each of us had a mobility budget?



Yearly mobility budget



The upper limit is defined by how much transport emissions we can "afford" per person per year

The lower limit is defined by **how much emissions have to be accepted** for a person to reach the nearest everyday funcitonalities.





Instruments for establishing fair accessibility

MyFairShare Minimal Budget Viewer

This Shiny App is part of the MyfairShare Project

Define Input Variables

Predefined Groups

Choose a predefined group

Average of all

Work

10

Educatio

0

Shooping

8 Errand

2 Leisure

6

100

work education

shoopin errand

leisure

Modes available

Predefined maximal travel times

predefined Traveltimes:

15 min foot, 20 min bike, 45 min PT

15

15

15

Minimal Budget Map nformation shown in map Minimal GHG budget Travel Time Population in cluster Work places in cluster Schools in cluster Facilities for errands in cluster Shopping facilities in cluster Leisure facilities in cluster Choose a living lab to view X Update map Living Lab 01: Vienna . Weekly number of trips per activity Number of reached places Work 100 0 ----Q Edu 1 3 0 Shop 1 2 0 0 1 👩 Foot 🛃 Bike 👩 Public Transport 👩 Bike&Ride 👩 Park&Ride 👩 Car Travel time adjustment for selected group - values in % pt car 100 100 Minimal CO2 budgets in g/week <3393 <6786 <10179: Goal 2030 <13572 <18250 <22928: average 2021 <27605 <152348 Maximal Time allowed per activity in each mode in minutes <272412 eaflet | © OpenStreetMap contributors, CC-BY-S pt car bnr pnr 45 26.76 45 45





bike

100

bike

20

20

20

20

20

45

45

45

45

28.88

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45

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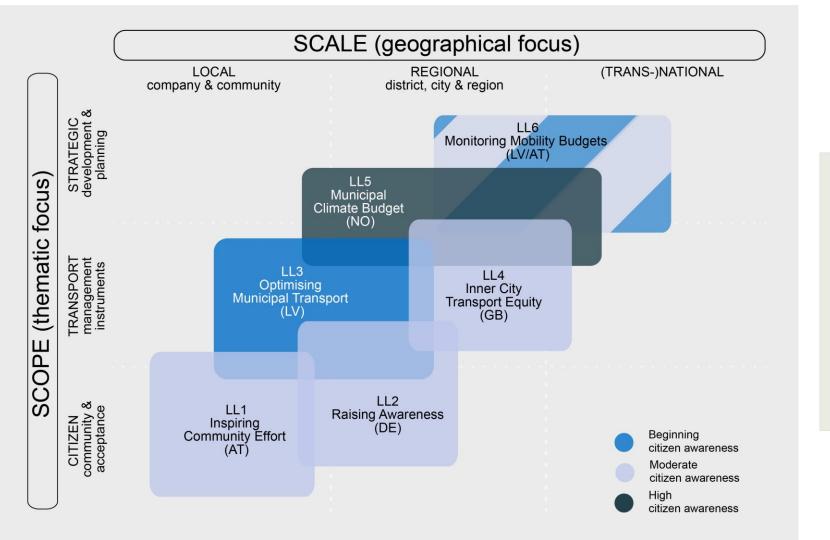
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Living Lab Approach



Living Labs

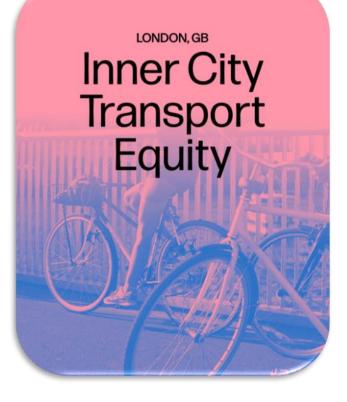


Findings from Living Labs – London/GB

- Empirical, mixed-method study based on theories of social justice, transport equity, and planned behaviour.
 - Empirical element of the study conducted a representative survey and analysed existing datasets
 - The Living Lab experiment was structured around a citizens' jury, mobile application (app) tracking and engagement, and in-depth interviews

• Main results

- \circ Lack of sense of fairness can lead to resistance from the community
- To activate stakeholders, it is important to establish a shared understanding of the concept of fairness.
- One method that could ensure this, would be using citizen juries. These juries should be diverse to accurately represent the community's reality and lifestyle and ensure a fair and inclusive process.





Findings from Living Labs – Vienna/AT

- Study design: behavioural, observational and participatory
 - $\circ~$ Four-weeks experiment with three test groups
 - $\,\circ\,$ Scenarios: baseline, economic-budget and carbon-budget
 - Scenario modelling (2023, 2030 and 2040), self-assessment surveys, mobilitydata collection via mobile phone app, concluding Consensus Conference
- Main results
 - Information alone is not sufficient to change behaviour (in the short study period) > structural conditions need to change
 - Fairness aspects are centre for participants when discussing implementation of individual mobility budgets
 - Measure should be accompanied by lasting communication that appeals to existing interests of the targeted stakeholders.
 - The Consensus Conference is a promising format for engaging civic stakeholders in proactive, mutually enforcing, co-productive ways.

VIENNA, AT Inspiring Community Effort





Carbon budgets help shifting from "access to mobility" to "access to everyday functions"

Improving local accessibility to reduce public investment and maintenance costs, climate impacts and social costs

Supporting participation and public debate increases acceptance, consensus and active contribution





www.myfairshare.eu/guidance

An evidence-based decision support for selecting the most effective instruments to implement Individual Mobility Budgets.

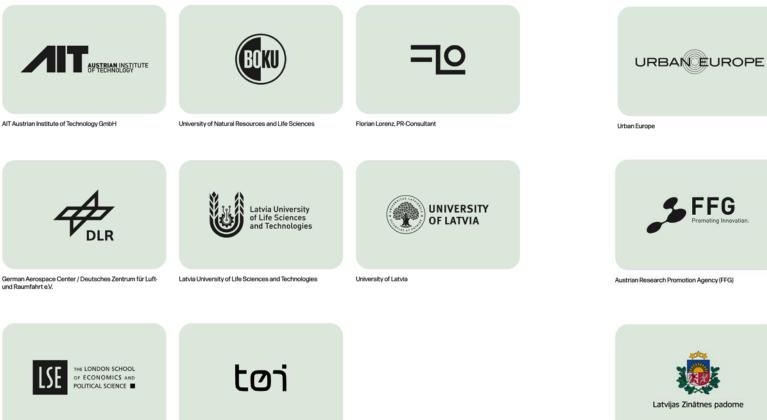
Fact Sheets:

- Individual Mobility Budgets
- Communicating Mobility Budgets
- Mobility Budget Planning Scenarios
- Dealing with Ripple Effects





MyFairShare – A Collaborative Effort



his project is supported by the European Commission and inded under the Horizon 2020 ERA-NET Cofund scheme inder grant agreement N° 875022

Federal Ministry of Education

Economic and Social

Research Counci

and Research

Federal Ministry of Education and Research

Economic and Social Research Council (ESRC)

ERA-Net

European Commission

T Federal Ministry

Republic of Austria

Federal Ministry Republic of Austria Climate Action, Environment Energy, Mobility, Innovation and Technology

The Research Council of Norway

The Research Council of Norway

Energy, Mobility,

Climate Action, Environment,

Innovation and Technology

European Comission

Latvian Council of Science

London School of Economics and Political Science

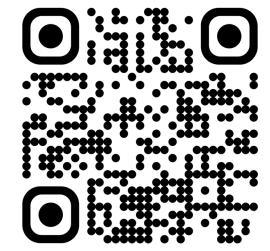
AIT Austrian Institute of Technology GmbH

und Raumfahrt e.V.

Institute of Transport Economics / Transportøkonomisk institutt







POLIS CITIES AND REGIONS FOR TRANSPORT INNOVATION

27-28 NOVEMBER 2024

KARLSRUHE (DE)

For more information:

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Baden-Württemberg Ministry of Transport







SMALL



POLIS Conference 2024 - 28/11

Esen Köse & Sami Angsthelm

Know your users



When you think of people with reduced mobility, you mainly think about them but there are many more people who have reduced mobility and they all want to participate in sustainable mobility





And there are many PRMs

In Europe

- 95 million people are over 65yo
- 45M households with children
- 100+ million live with some form of disability

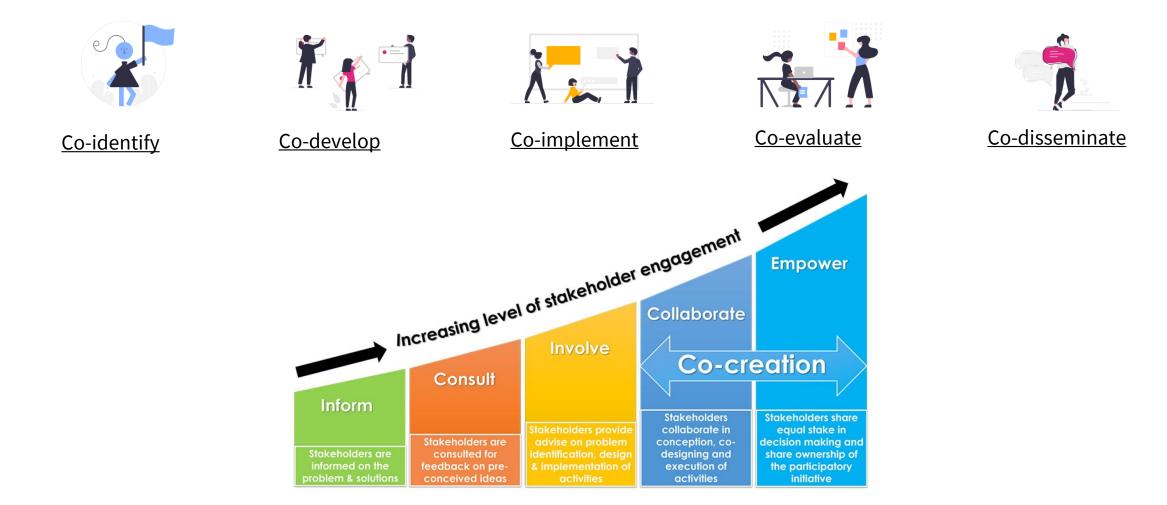




Co-creation as foundation



Co-creation has many phases...



...and many faces



SMALL project partnership

Key facts

- Budget: €4.4M
- 11 pilots, 8 cities
- Duration: 2022-2026
- Goal: co-create more accessible shared mobility solutions







Our approach

Understand needs

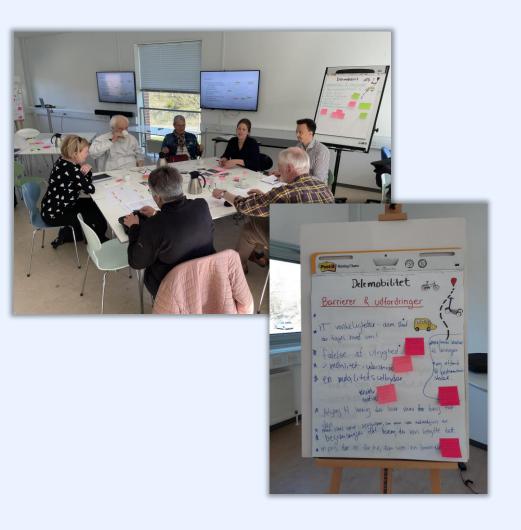
co-design shared mobility solutions with end-users

Test new solutions (adapted vehicles, digital solutions, volunteering schemes)

11 pilot projects across 8 cities and regions in real settings

Draft new policies

New policy guidelines to help decision-makers and operators to integrate new inclusive solutions.



On partner level

Co-creation methodologies per end-user



Focus group		
Short description	During this targeted group discussion, participants are invited to discuss specific topics or issues, led by a moderator.	
Co-creation phase	co-identify, co-develop	
Duration	2-3 hours	
Mode	offline	
No. of participants	small group (10-15)	
Effort	medium	



Storyboard	
Short description	Can help to understand specific user tasks across a process of implementation focus is on user experience (by using pictures and drawings).
Co-creation phase	co-implement
Duration	1-2 hours
Mode	offline
No. of participants	small group (5-10)
Effort	medium



User diaries	
Short description	Day-to-day experiences of using (shared) mobility services can be captured in a structured way to detect patterns and irregularitics.
Co-creation phase	co-identify, co-evaluate
Duration	1 day to a week
Mode	offline or online
No. of participants	large group
Effort	high



Field trip	
Short description	Organise a guided tour through the neighbourhood with different actors present Field trips can, e.g., be used in a planning context.
Co-creation phase	co-identify, co-develop, co implement
Duration	2-3 hours
Mode	offline
No. of participants	mid-sized group (up to 30)
Effort	low



On project level

SMALL Insights paper

Insights to maintain this focus

beyond the project lifecycle



SMALL Insights

How can people with reduced mobility become an important driver of shared mobility?



Publication date: September 2023







Main actors for co-creation, but there is more!

<u>Cities/municipalities</u>

Limited knowledge about the target groups

Not enough time and budget planned for cocreation

Hierarchical and organisational rigidity in cities

Operators/designers

Limited knowledge about the target groups

Tenders are unrealistic

"Inclusive shared mobility is not profitable"

End-user (representatives)

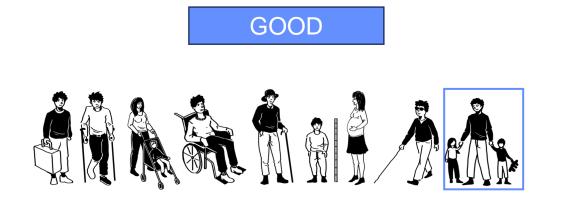
Prejudice against shared mobility

Lack of knowledge or awareness on shared mobility solutions

fear for safety

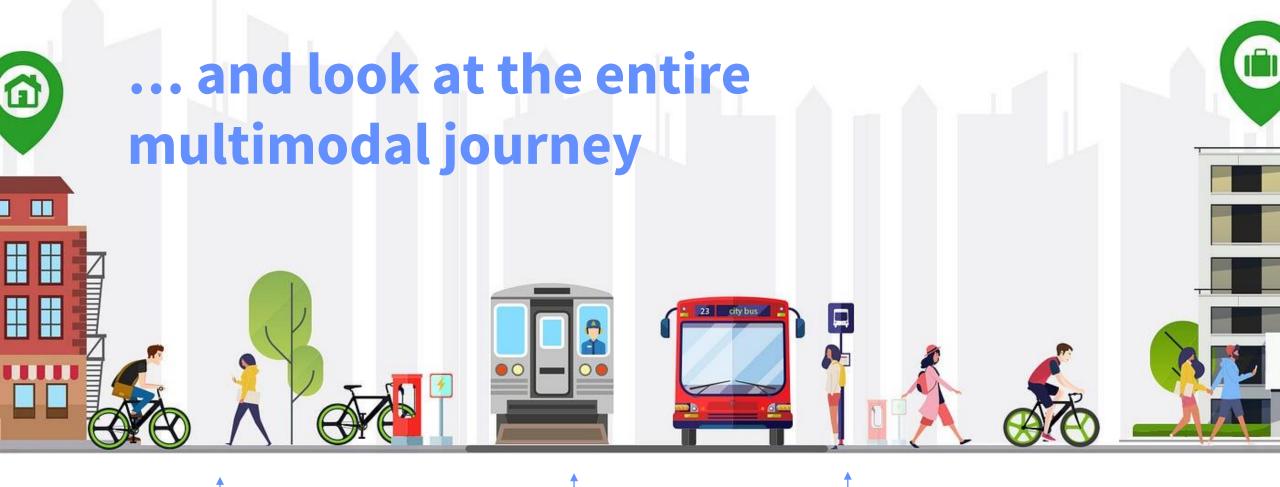
How do we collaborate with them?

Move from personas to mobility needs...



MUCH BETTER



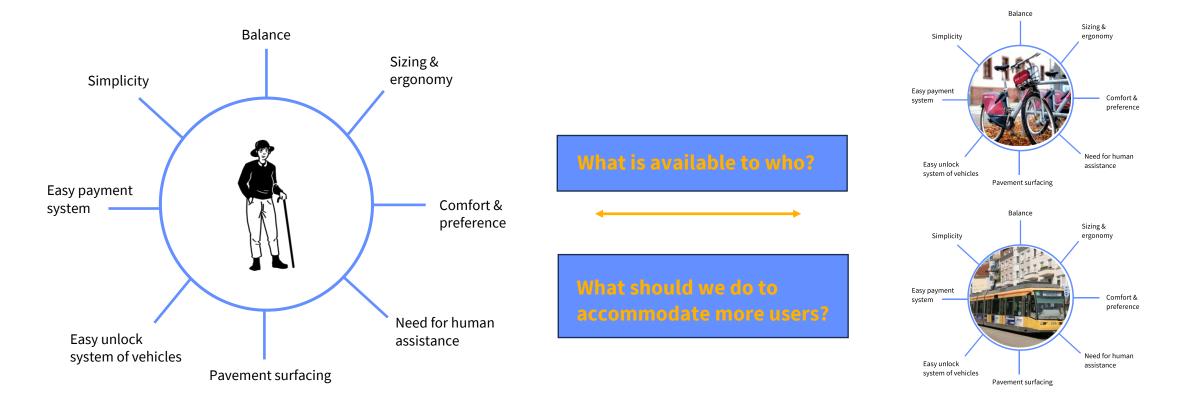


Physical environment

Mobility environment

Information environment

Assessing mobility needs and its match with mobility solutions



The inclusive mobility manager

What should you do?



Be aware



Co-create



Convince and feel





Stay up to date with innovation Coordinate modalities



Test and learn

Register for our co-creation webinars

SMALL 1st Co-creation webinar: Mastering cocreation in mobility research



SMALL 2nd Co-creation webinar: How to organize user engagement

11/12



Read our project outputs



Observatory & Policy database



SMALL Insights



SSELL Internet of Consultance

SMALL publication



co-creation toolbox



Get in touch

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Sami Angsthelm (Bax) Mail: s.angsthelm@baxcompany.c om Phone number: +34 93 476 04 44



Follow the SMALL project

sharedmobilityforall.eu

interregnorthsea.eu/sma П **in** Shared Mobility for All









SINFONICA

POLIS Conference

28 November 2024

Lars Meijer Provincie Noord-Brabant



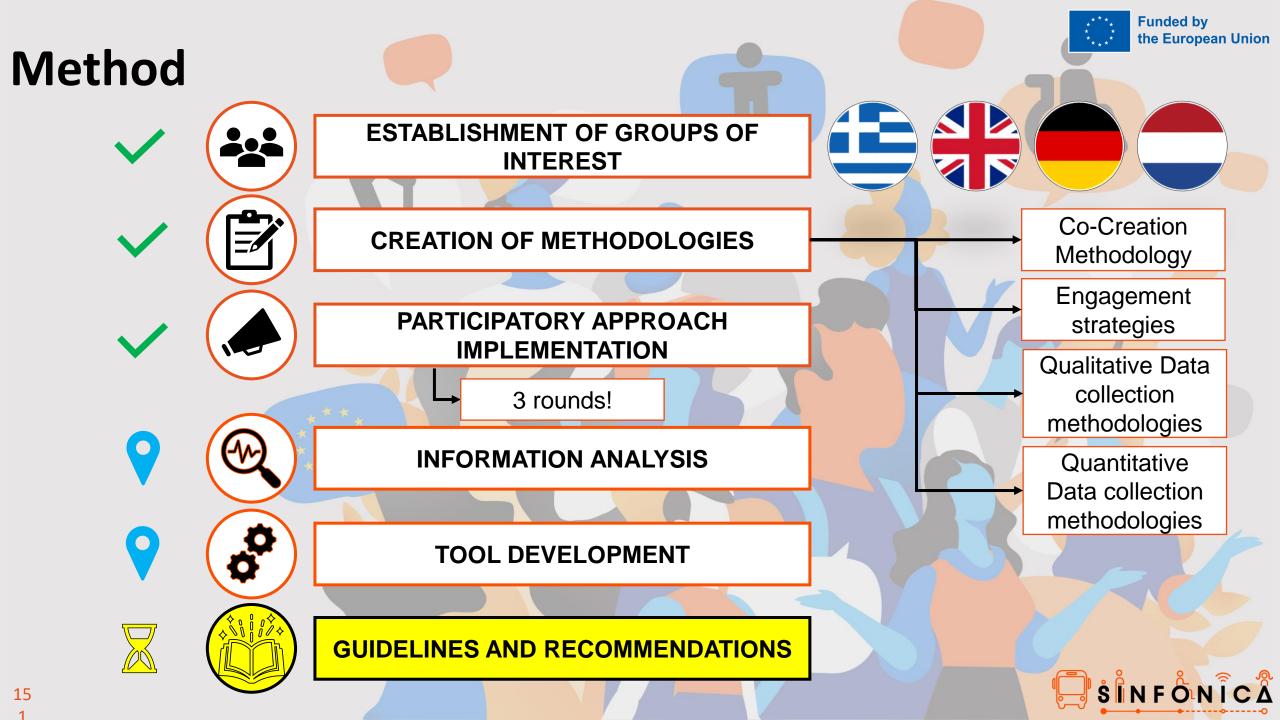


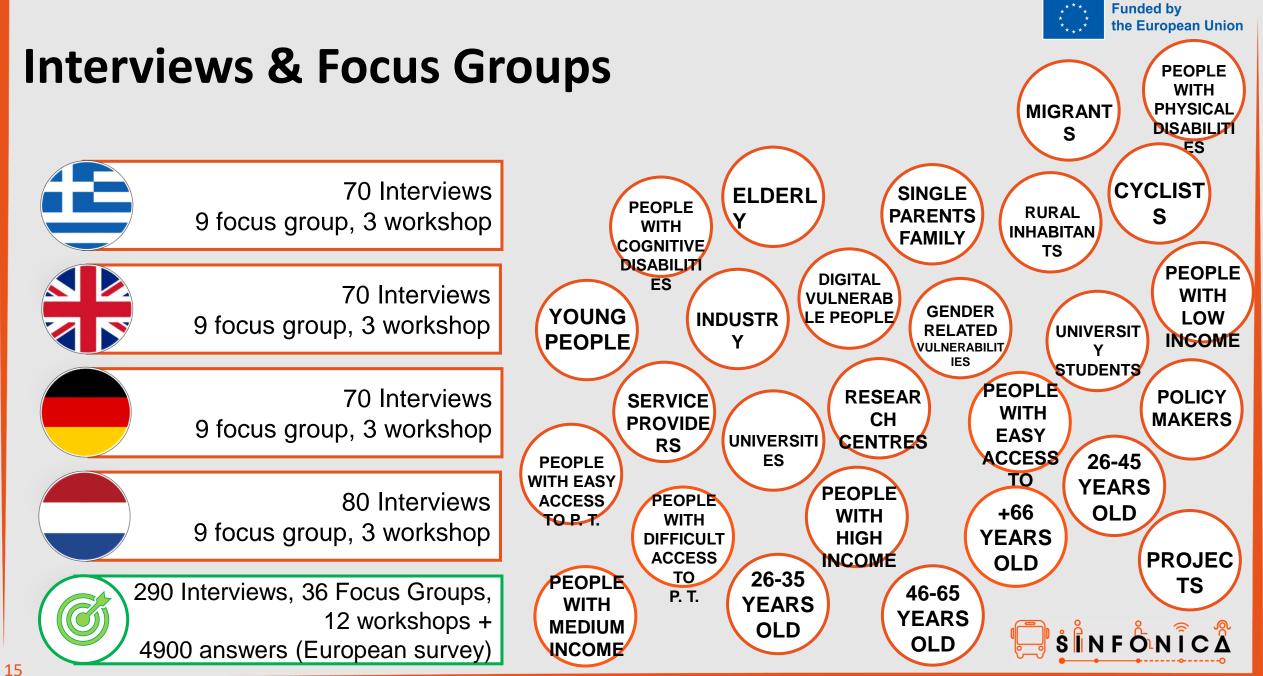
SINFONICA at a Glance

- SINFONICA: Social INnovation to FOster iNclusive cooperative, Connected and Automated Mobility
- Call identifier: HORIZON-CL5-2021-D6-01
- ➤ Time frame: 2022 2025
- > Partners: 13 + 1 (7 countries)
- ➤ Budget: 3 759 723,75 €
- SINFONICA Goal: to develop functional, efficient, and innovative strategies, methods and tools to engage CCAM users, providers and other stakeholders to collect, understand and structure in a manageable and exploitable way their needs, desires, and concerns related to CCAM.

> Bottom up approach!







Preliminary and Partial Results: Methodologies & Strategies

- The Co-creation methodologies are complex but are worth: the physical meetings and the role-playing game are the most useful options!
- The engagement strategies need to be constantly changed, improved, discussed: we can't have a single strategy that work for everyone for the whole project period.
- The focus groups help to reveal more interesting insights, but interviews make people more comfortable and have proven to be

ō certain targets.



Preliminary and partial Results: What people think and feel

- We have asked to rank the 4 As (availability, accessibility, affordability, acceptability). For the moment, it is difficult to find a common view in ranking the 4 As despite the homogenous group categories. However, it seems that availability is considered the "pass" to be able to consider CCAM.
- In the actual public transports, the limitation that is mostly being perceived seems to be the lack of freedom of movement.
- It is mostly believed that CCAM will improve transport characteristics compared to current public transport.





Preliminary and partial Results: What people think and feel.

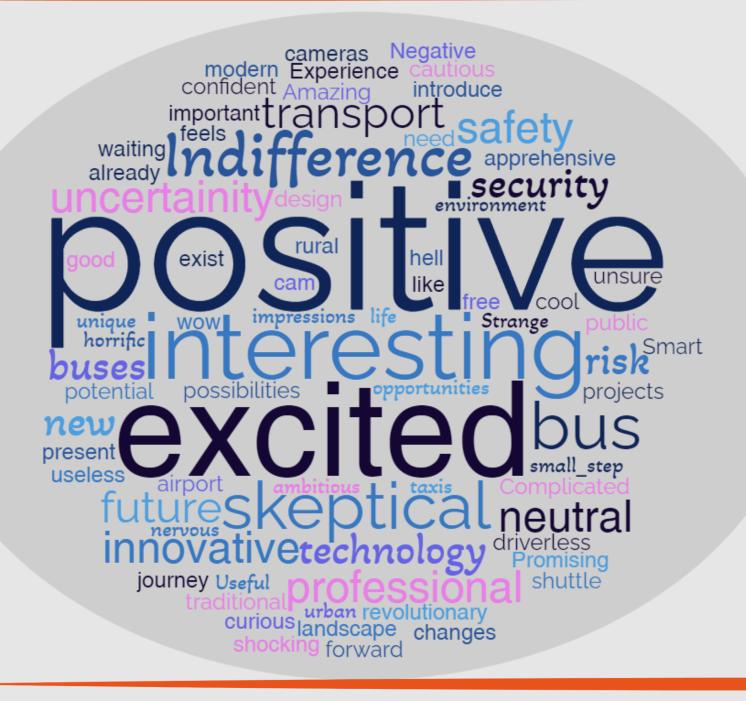
- Security & safety features in CCAM seem to be very important for most of the participants.
- Many people declared that they completely trust technology and that are very interested in new technology options (very few early birders among them).
- >There is still some difficulties within the digital-related issues.

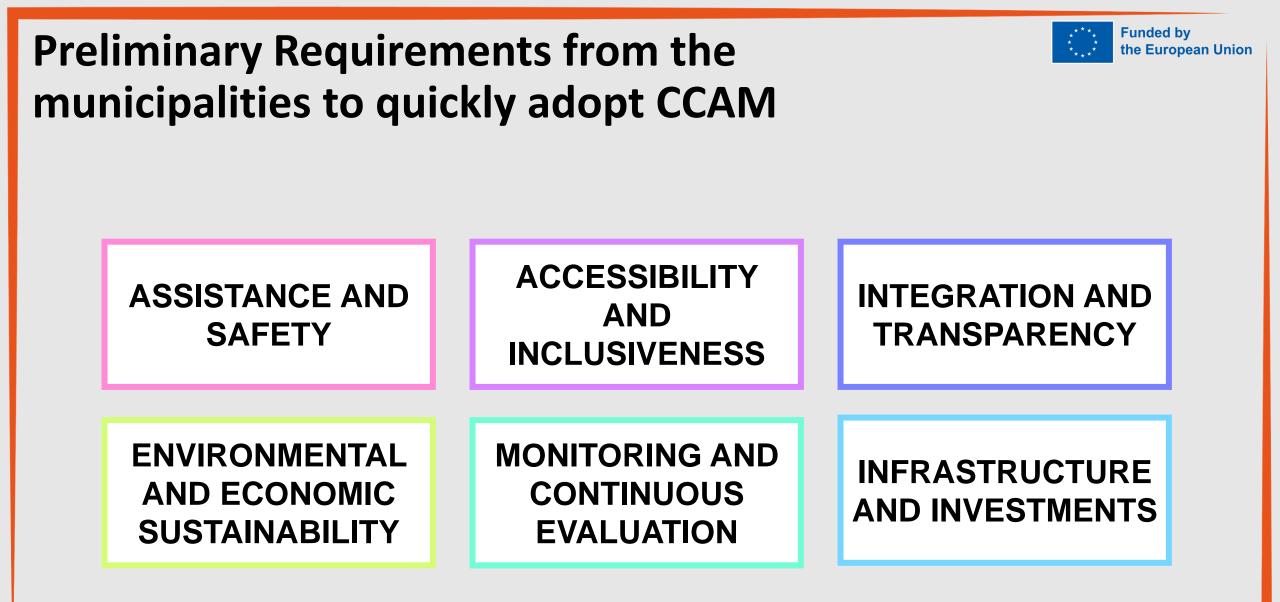


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How would you express in one word your first *immediate* attitude towards highly digital and autonomous forms of mobility? ŜÎNFÔNÎ









What to expect from SINFONICA

Methodologies

- \rightarrow Engage users and stakeholders.
- \rightarrow Collect certain data with specific target
- \rightarrow Build a community.
- \rightarrow To co-create with the community and with the stakeholders.
- \rightarrow To train new colleagues.

Knowledge

 \rightarrow Create a strong knowledge base with users' and stakeholders' needs and requirements (not leaving anyone behind!). \rightarrow Create the knowledge map explorer an interactive and user-friendly tool

information.

to deliver tailored

Guidelines & Recommendation S \rightarrow Create guidelines and recommend. for the implementation of inclusive, equitable and accessible CCAM solutions. **A & A**

 \rightarrow Increase the acceptance and the awareness of CCAM

solutions around

Disseminate

- To reach not- \geq technical people.
- \rightarrow Would you like to tell people something about your project / product related to CCAM?! Write <u>uel</u>



CCAM vocabulary for nontechnology experts

Simulations from where the CCAM services' scaled up impacts on the mobility of the defined demand population.





Funded by the European Union

Thanks for your attention!

Lars Meijer Imeijer@brabant.nl



www.sinfonica.eu



SINFONICA Project @SINFONICAeu

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