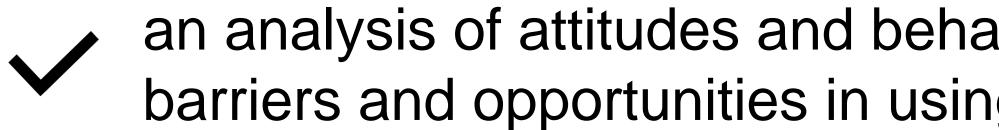


CO-DESIGNING INCLUSIVE MOBILITY COMOBILITY AN INTERNATIONAL RESEARCH PROJECT



WHAT IF PEOPLE VALUED EFFICIENT, SAFE AND ECO-FRIENDLY MOBILITY OVER CAR OWNERSHIP?

COMOBILITY'S AIMS





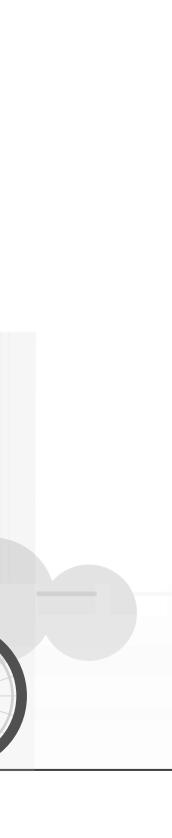




creating a publicly available package of methods and tools

an analysis of attitudes and behaviors of Warsaw residents to learn about barriers and opportunities in using mobility alternative to private cars

identifying actions that can facilitate a long-lasting change in transport habits



PROCESSES AND METHODS

CO-DESIGN PROCESS



Tight cooperation with:

- citizens,
- municipalities, \bullet
- businesses, \bullet
- other stakeholders at each stage of the project



DATA COLLECTION IN COMOBILITY



MACHINE LEARNING MODEL



TRANSPORT MODEL



EXISTING DATA



EMISSION MODEL









UNIWERSYTET WARSZAWSKI

micj.cu

Norsk institutt for luftforskning Norwegian Institute for Air Research



Szkoła Główna Handlowa w Warszawie

Politechnika Warszawska





CO-OPERATION

1 City of Warsaw

2 Association of Polish Cities

3 City of Cracow

PRODUCT

A PACKAGE OF METHODS AND TOOLS



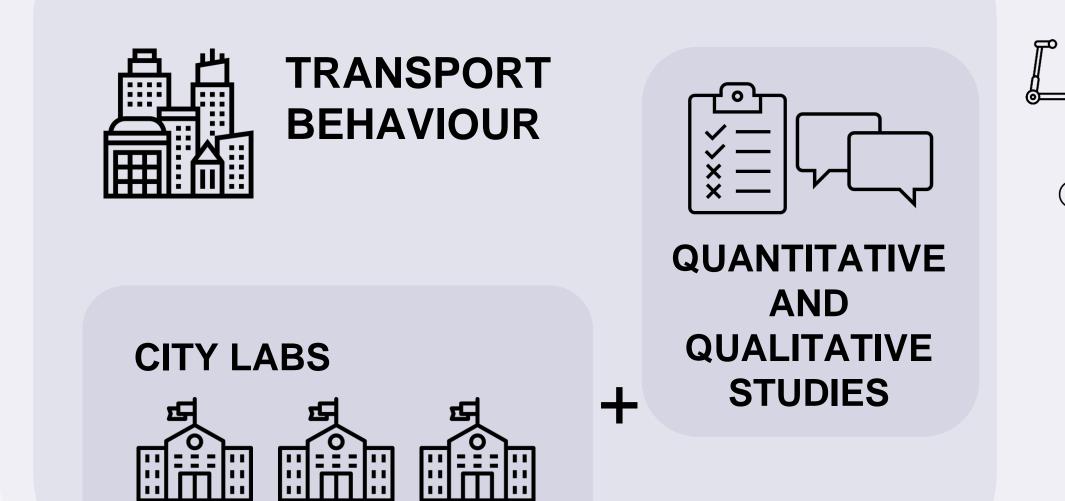
to **simulate** the effects of hypothetical scenarios in an integrated model of individual transport behavior, city traffic and air quality





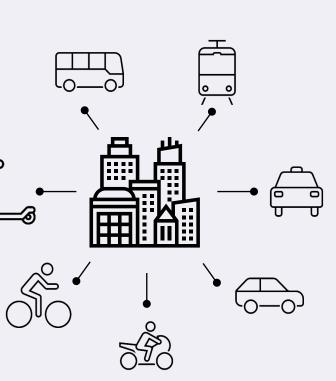
A SCALABLE PACKAGE OF TOOLS AND METHODS

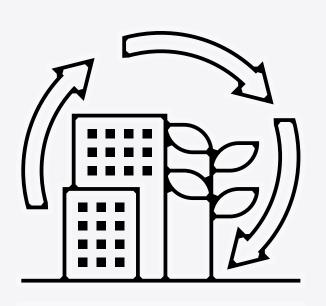
TRANSPORT MODEL

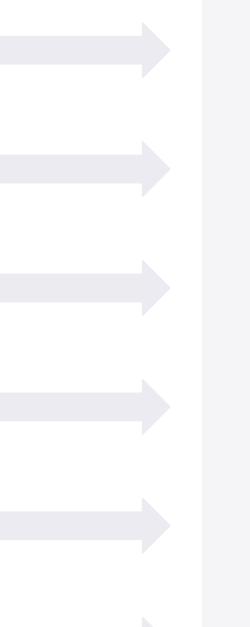


WARSAW

ENVIRONMENTAL MODEL





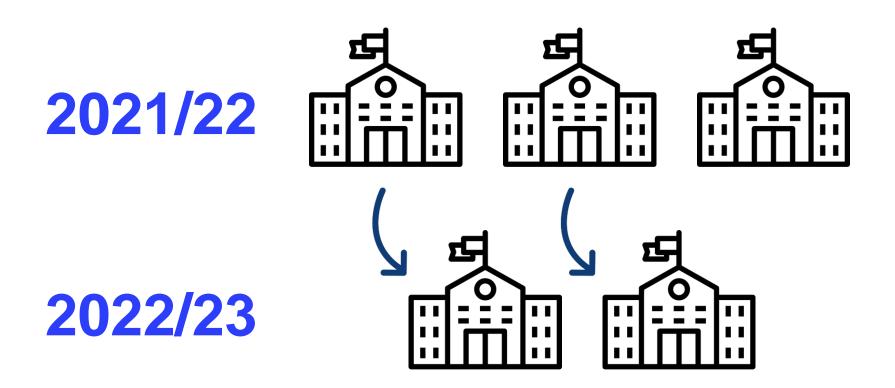


OTHER CITIES





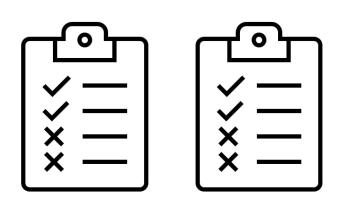
CITY LABS



 involving local school communities, experts, decision makers, researchers and entrepreneurs in the process of generating knowledge

- Co-creating solutions during workshops with a wide range of stakeholders
- Experiment: an implementation of solutions developed during the workshops
- Interventions in the urban space
- Air quality measurement
- Educational activities
- Survey research
- City Labs evaluation
- Assessment of the effectiveness of educational activities and interventions

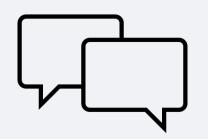
QUANTITATIVE STUDY



2 survey rounds

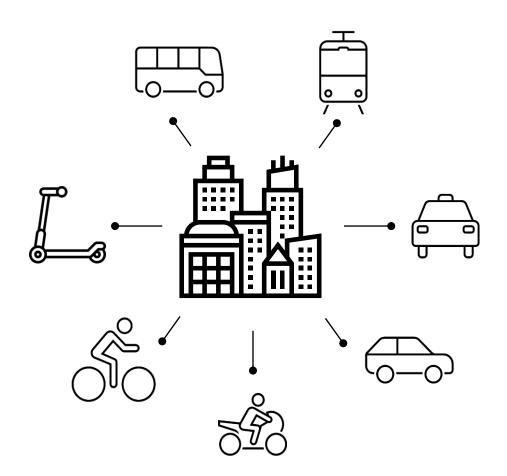
- data on mobility choices
- a representative sample (Warsaw and the surrounding area)

QUALITATIVE STUDY



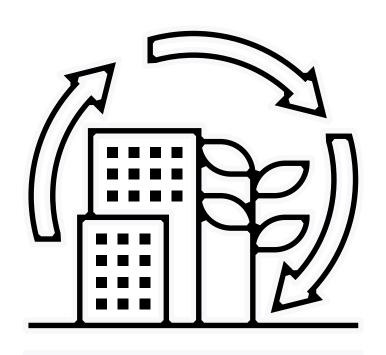
- in-depth interviews
- stakeholder engagement
- considering the knowledge and perspective of local government in the entire process of creating solutions in the CoMobility project

TRANSPORT MODEL



- Using Warsaw's transport model for traffic and pollution modeling
- Taking into account the scenarios developed in the project (City Labs)
- Combining machine learning models for mobility with data collected in the surveys

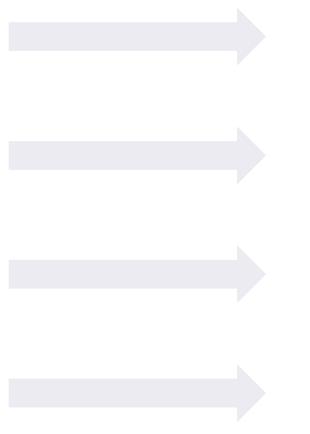
ENVIRONMENTAL MODEL



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- Models integrating machine learning solutions with environmental data
- E.g. pollution emission in particular areas

OTHER CITIES



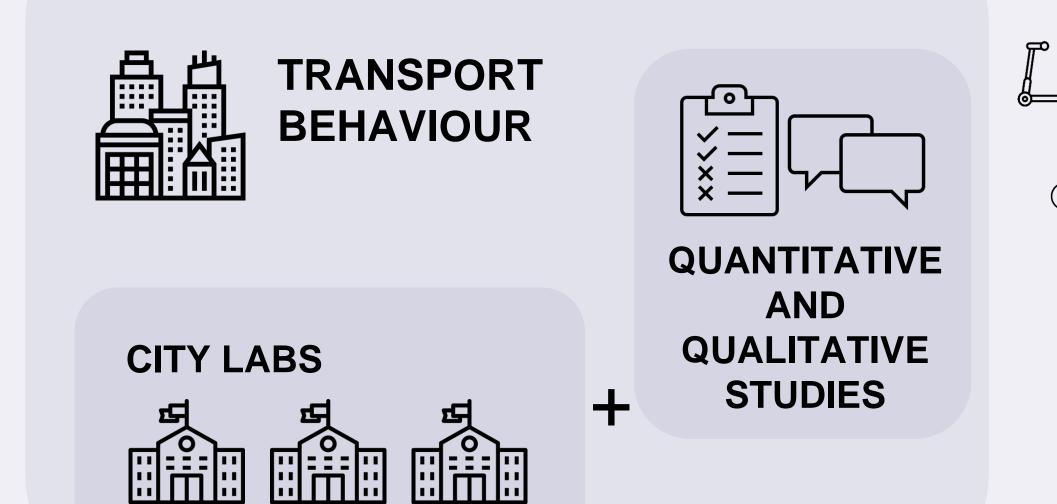




- Workshops for local governments presenting the results of City Labs
- Feedback on the co-creation process and guidelines for City Labs in different context
- Feedback on the developed solutions
- Platform for the exchange of knowledge and experiences

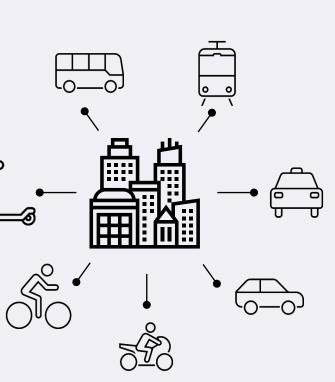
COMOBILITY: CO-DESIGNING INCLUSIVE MOBILITY

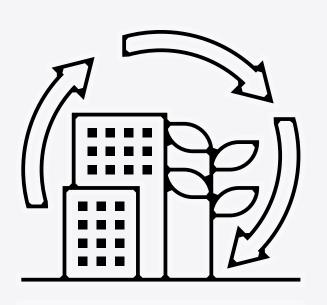
TRANSPORT MODEL

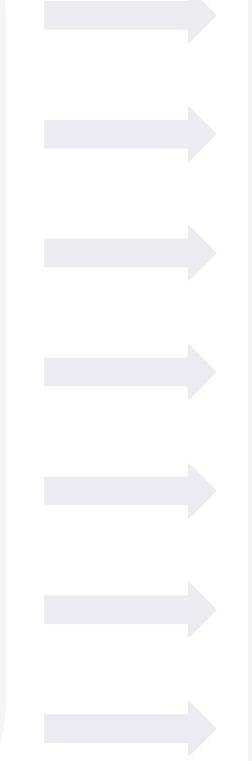


WARSAW

ENVIRONMENTAL MODEL







OTHER CITIES



