

**transform  
transport**

**Transform Transport, Systematica's Research  
Foundation**

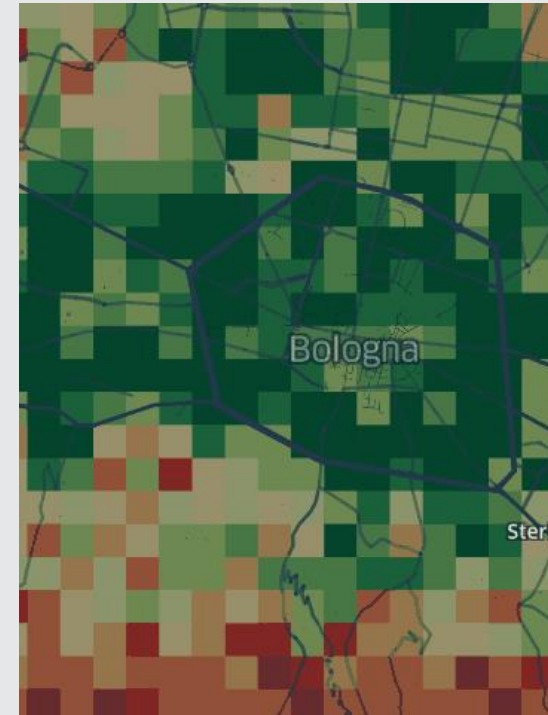
□ Systematica



## We focus on:

- + Urban Mobility Metrics
- + Livable Streets
- + Inclusive Mobility

### Apps



### Books



### Papers



### Interviews



### Events



Fondazione Transform Transport Launch  
May 11th at 6:30 pm

## RESEARCH AND INNOVATION IN MOBILITY AND TRANSPORT PLANNING

### Social Involvement

We are a non-profit organization established to improve the quality of our cities and people's lives. We are committed to exclusively focus on research initiatives that can have a positive impact on our society and environment.

We acknowledge the complexity and

### Worldwide Commitment

diversity of mobility challenges in different environments. Our team has extensive experience in a wide array of different social, geographical and climate contexts around the globe.

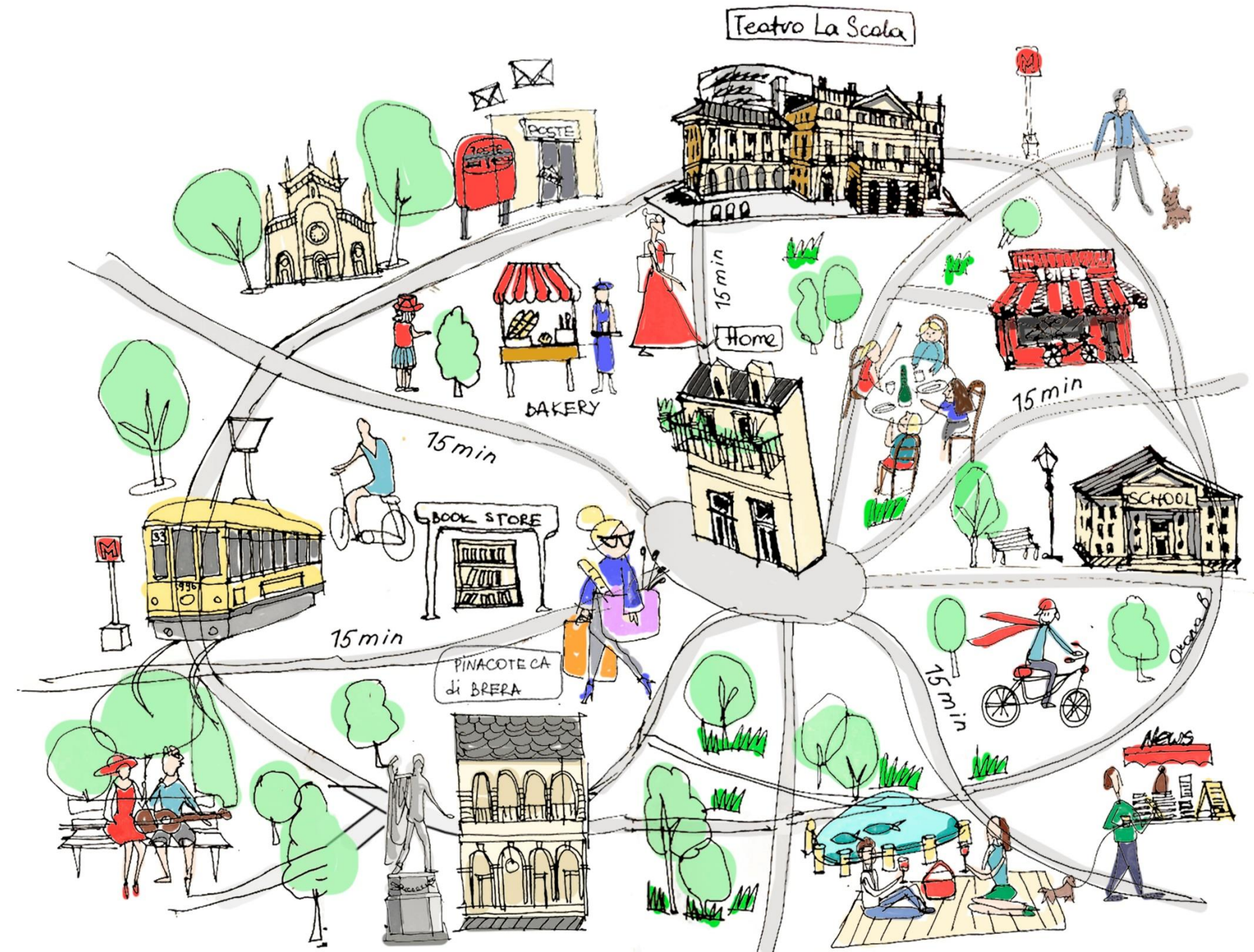
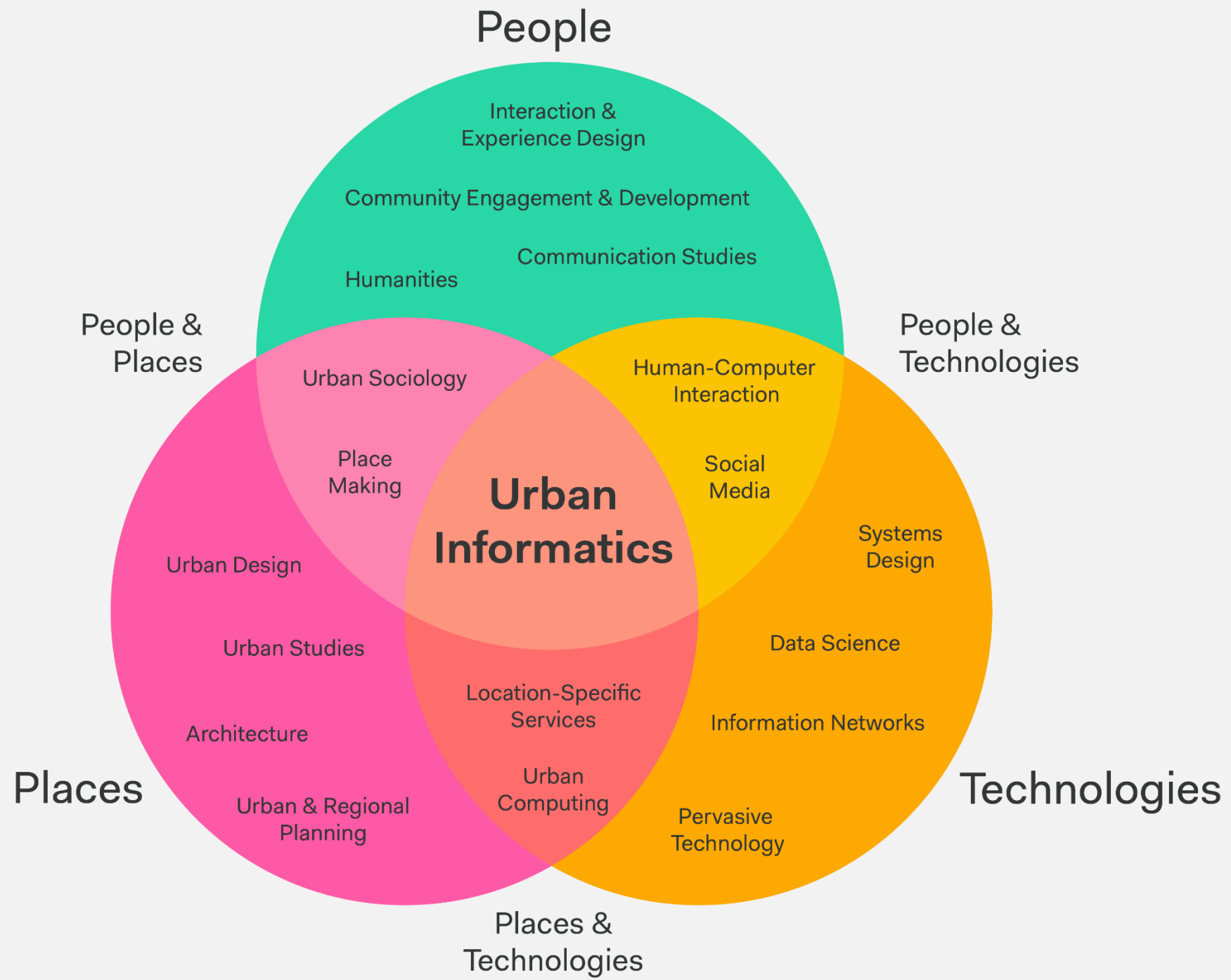
We tackle complex challenges through an

### Collaborative Approach

experimental approach, including multidisciplinary expertise within the process. We collaborate with Universities, research centers, innovation hubs, and technology providers.



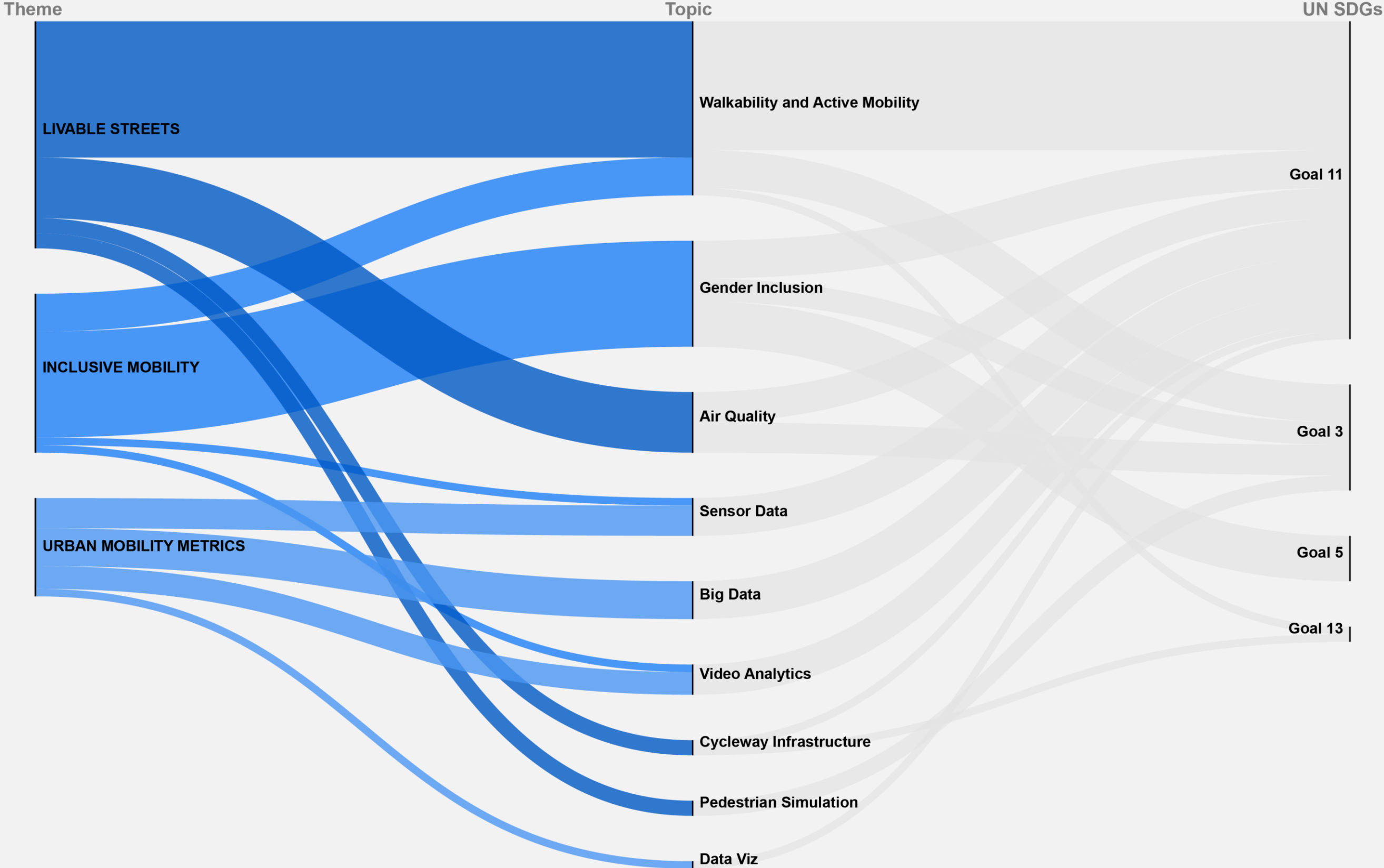
# Multidisciplinary toolkit



# Research Themes and Topics

UN SDGs tackled through our research activities

- + Sustainable Cities and Communities
- + Good Health and Well-Being
- + Climate Action
- + Gender Equality

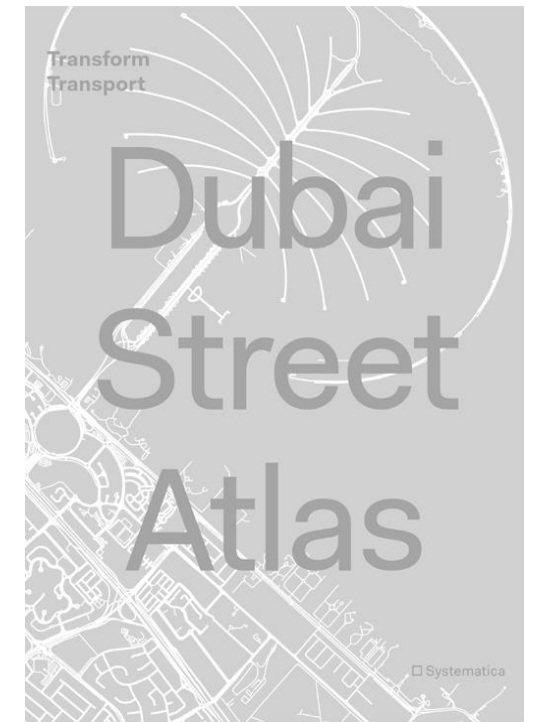
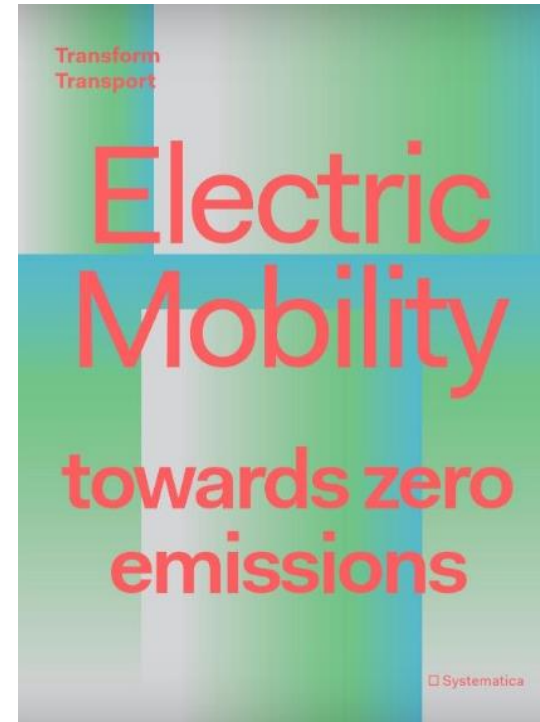


**+ Books**

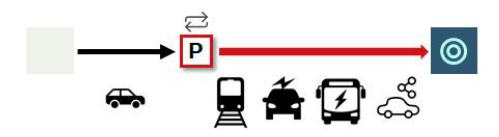
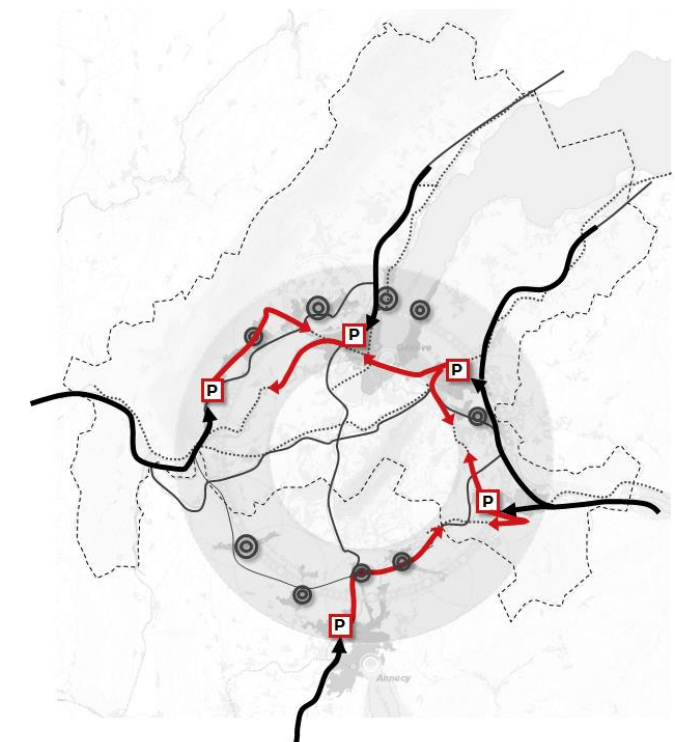
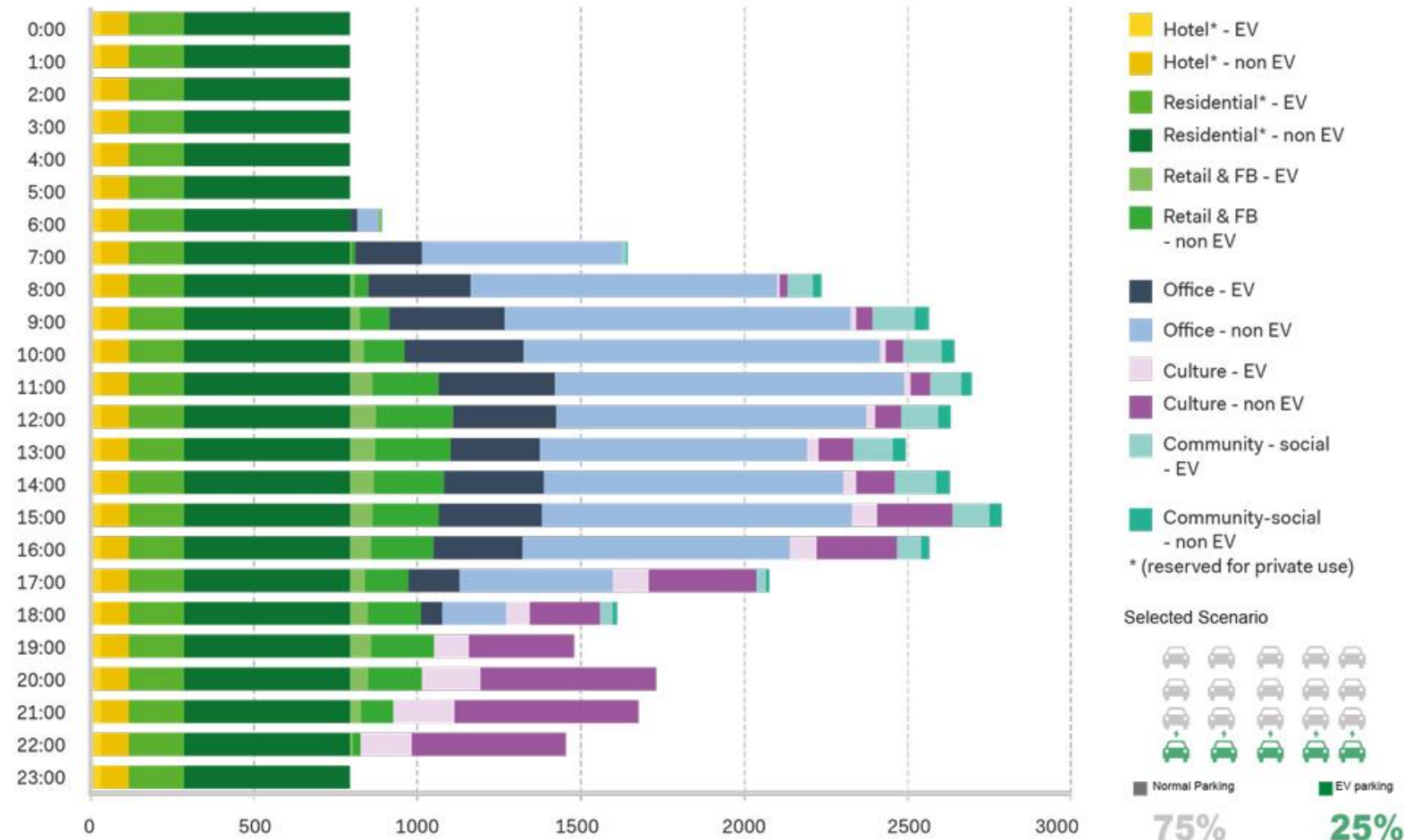


## Electric Mobility

In this publication we take a look at the electric mobility uprising and how it is poised to change the cities we live in and plan for.



# Electric Mobility:



**+ Urban Mobility Metrics**



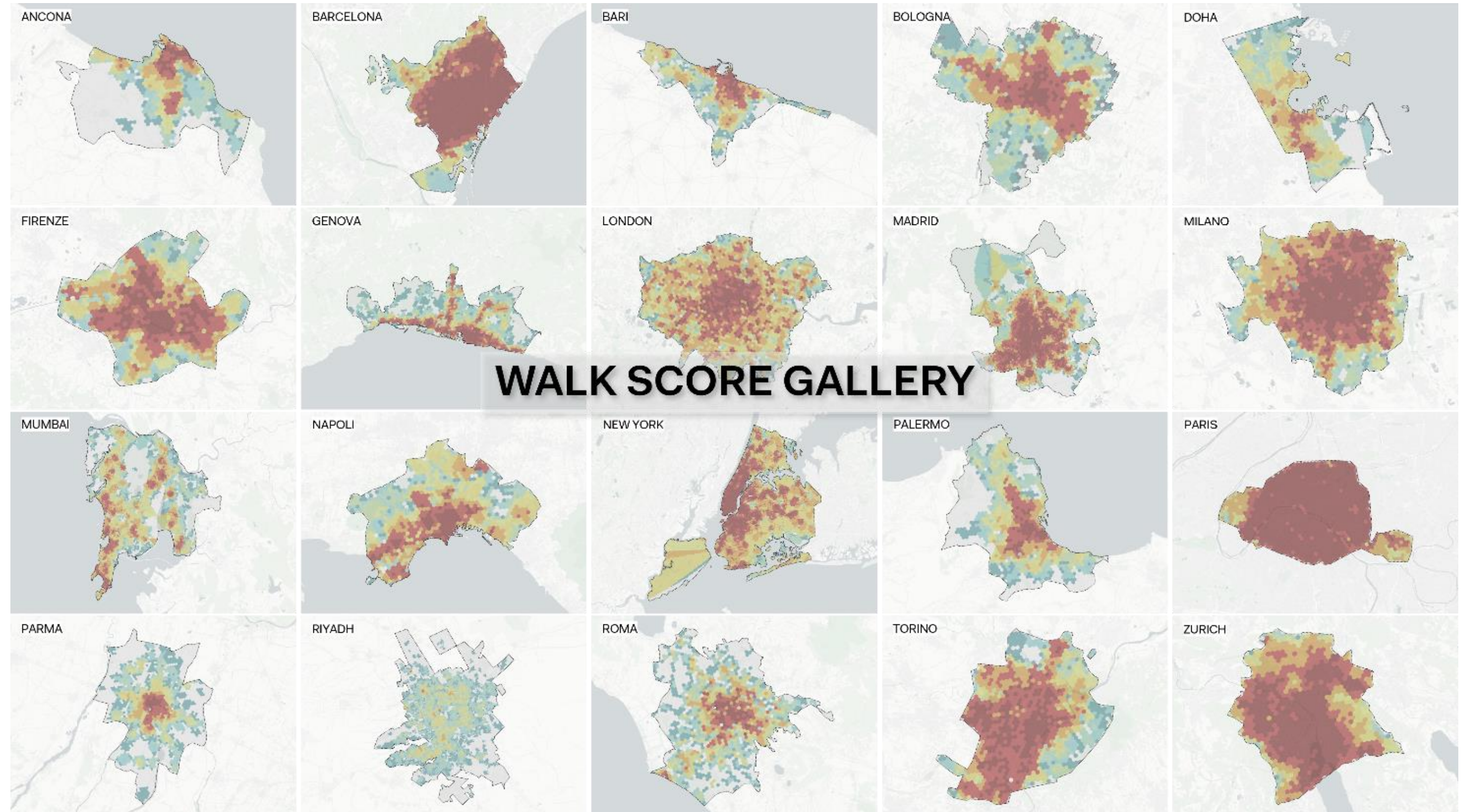
# Walk Score Toolkit

Transform Transport  
2024

Case Study: 100+ NET ZERO CITIES

Walk Score Toolkit is a python tool to quickly assess the Walk Score, a widespread walkability measure, identifying the availability of proximity essential services in urban areas.

[LEARN MORE](#)





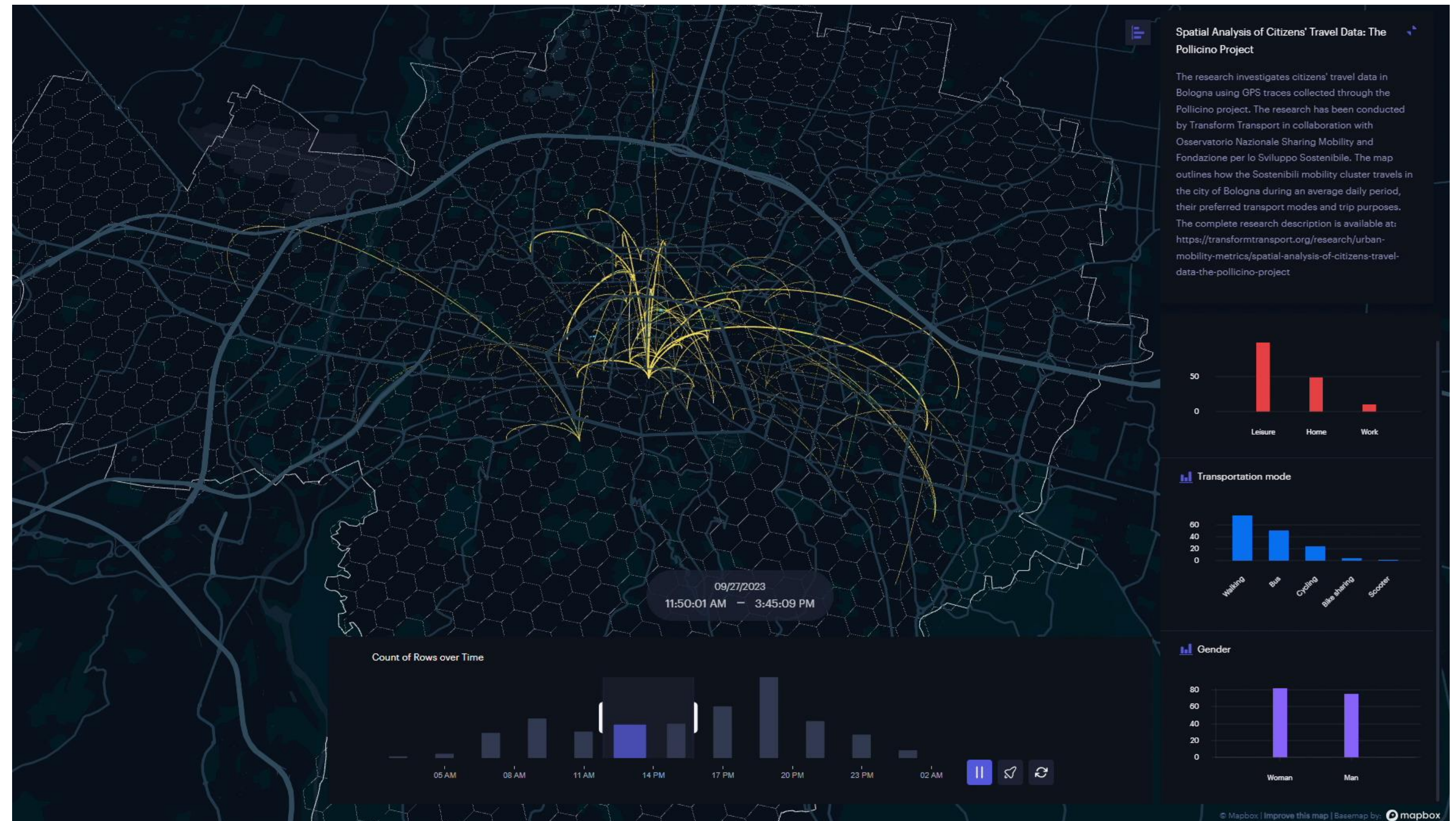
# Spatial Analysis of Citizens' Travel Data

Transform Transport & Osservatorio Nazionale Sharing Mobility & Fondazione per lo Sviluppo Sostenibile  
2023

Case Study: Bologna, Italy

The goal of this study was to extract the main spatial mobility patterns in the city of Bologna relying on the GPS data to support the decision-making process of local administrations in the field of sustainable mobility

[LEARN MORE](#)





# Deep Learning Video Analytics

Transform Transport  
2022

Case Study: Milan, Italy

Video analytics reveal pedestrian dynamics in Milan's main square, distinguishing tourists from commuters in the popular Piazza Duomo

[LEARN MORE](#)



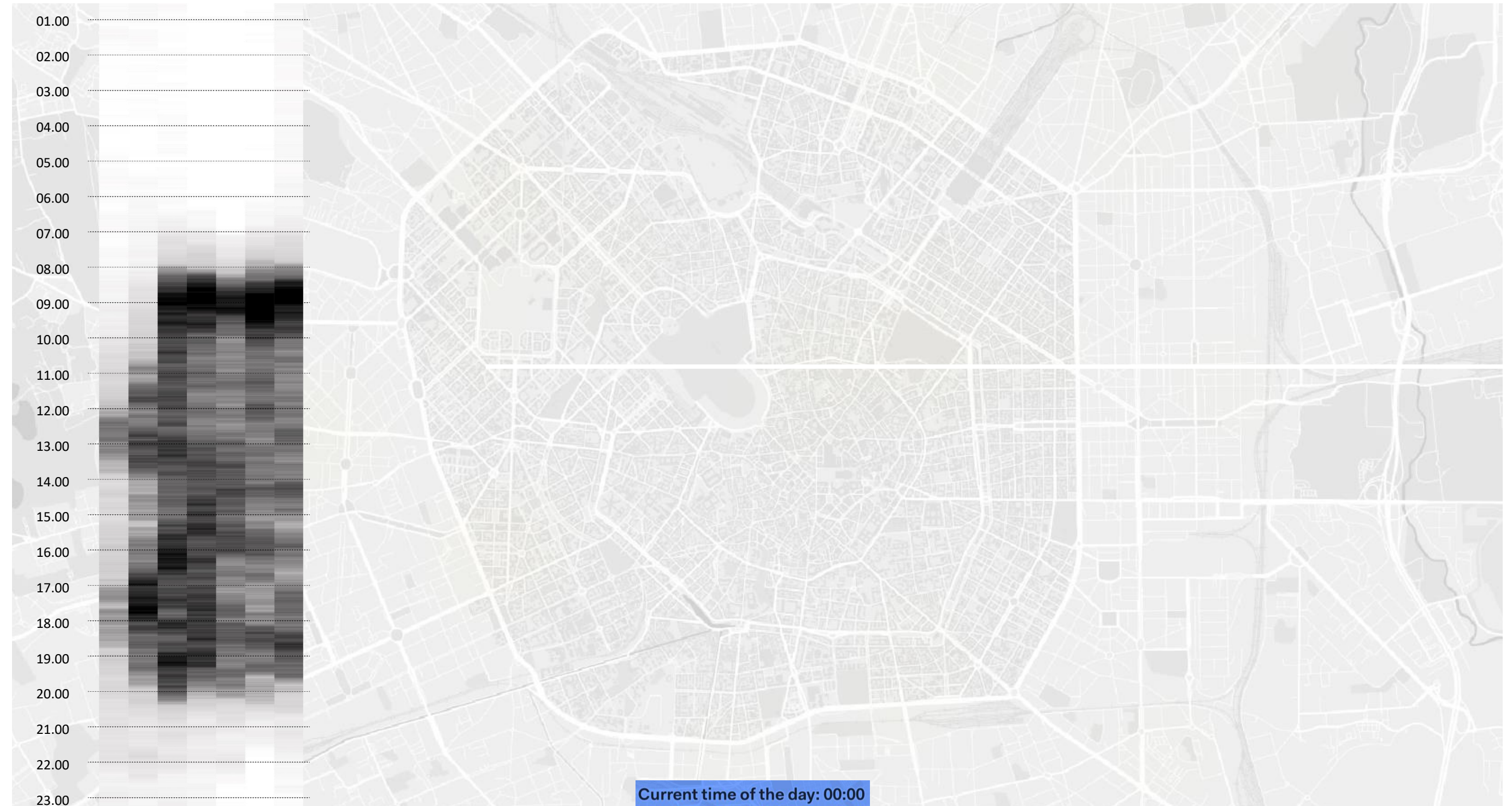


Transform Transport  
2021

Case Study: Milan, Italy

Carsharing data analysis reveals the occasional mobility nature of carsharing in Milan and its non-competitiveness with public transport options

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**+ Livable Streets**



# Cycle Safety in Milan

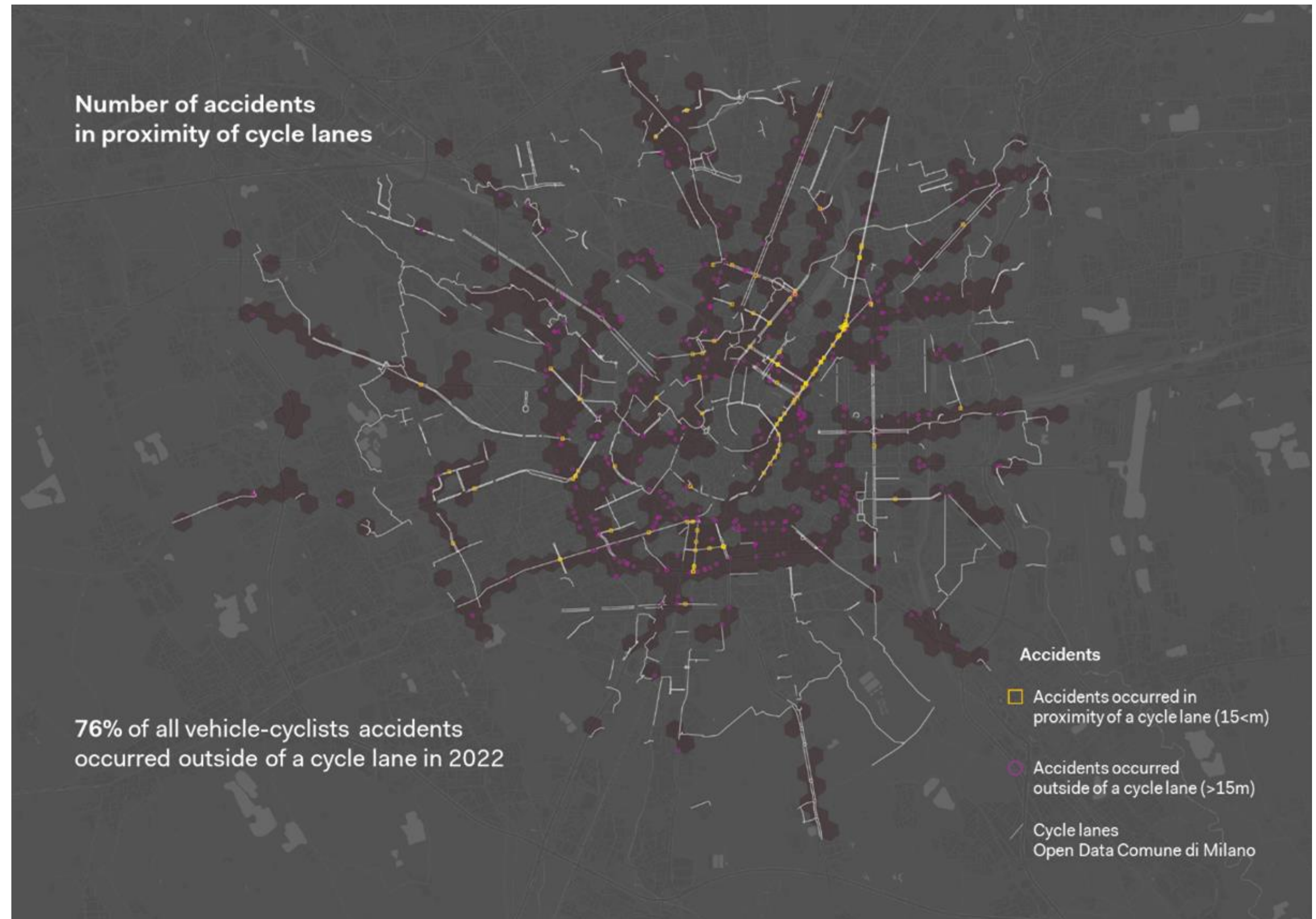
Transform Transport  
2024

Case Study: Milan, Italy

Cycling volumes increased by 56% in Milan between 2019 and 2022.

This study aims at investigating the relation between vehicular traffic, cycling volumes, and proposes possibilities for new cycle infrastructure.

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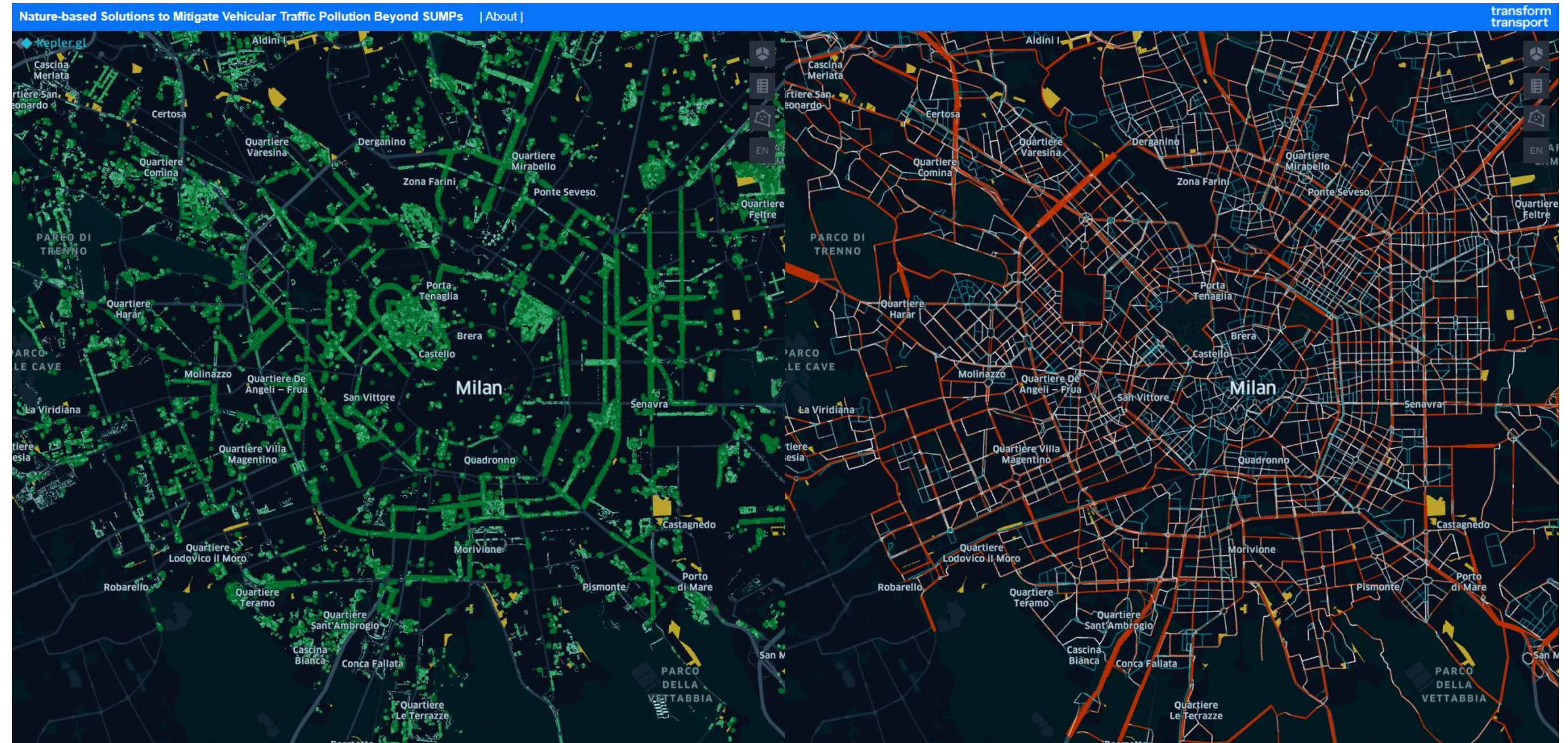


Transform Transport & LAND Research Lab® 2022

Case Study: Milan, Italy

An innovative nature-based approach to effectively tackle vehicle emissions by considering the role of urban green areas, relying on the capacity of trees to absorb pollutants

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# Milan Sidewalks Map

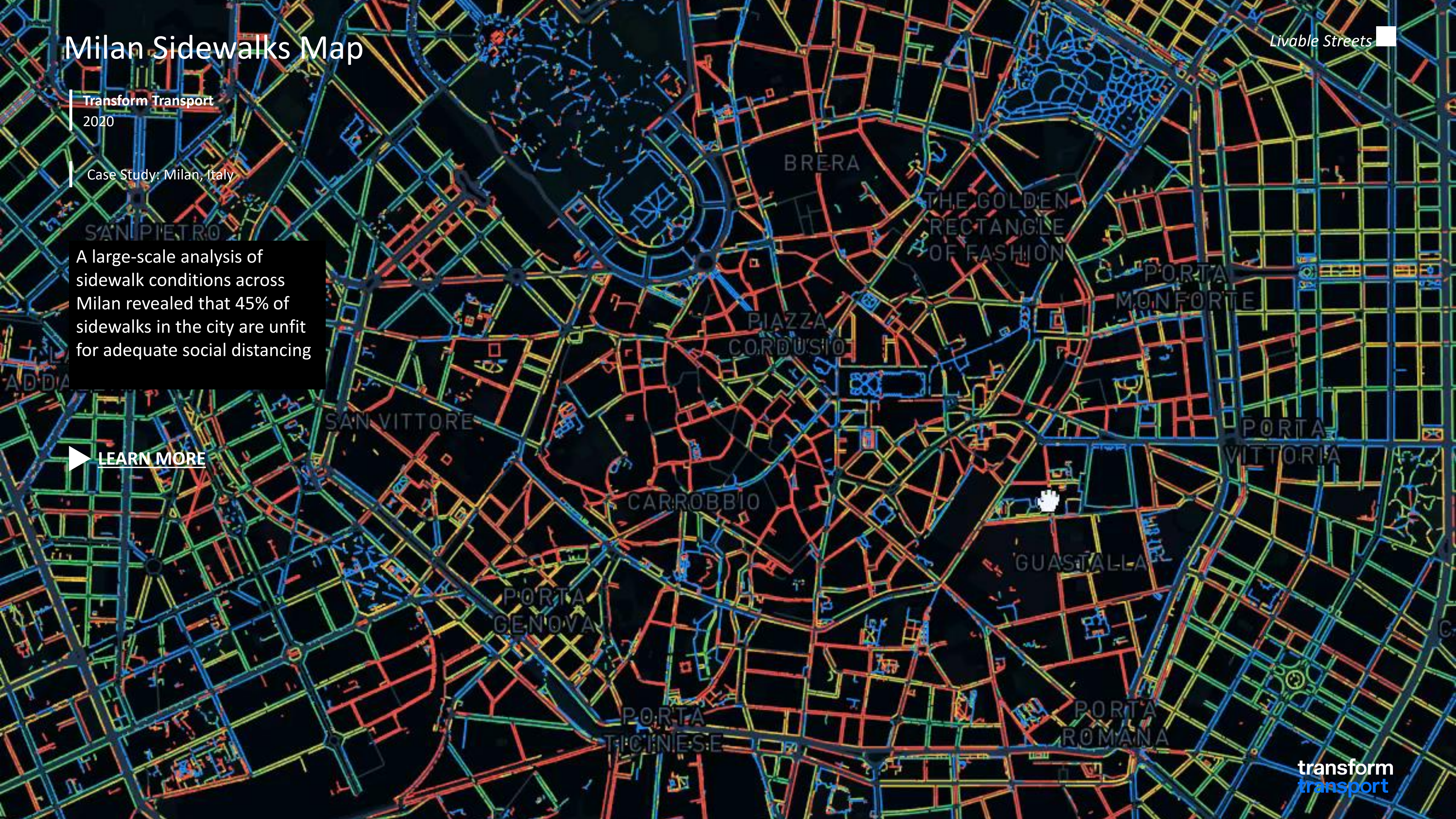
Livable Streets 

Transform Transport  
2020

Case Study: Milan, Italy

A large-scale analysis of sidewalk conditions across Milan revealed that 45% of sidewalks in the city are unfit for adequate social distancing

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**+ Inclusive Mobility**



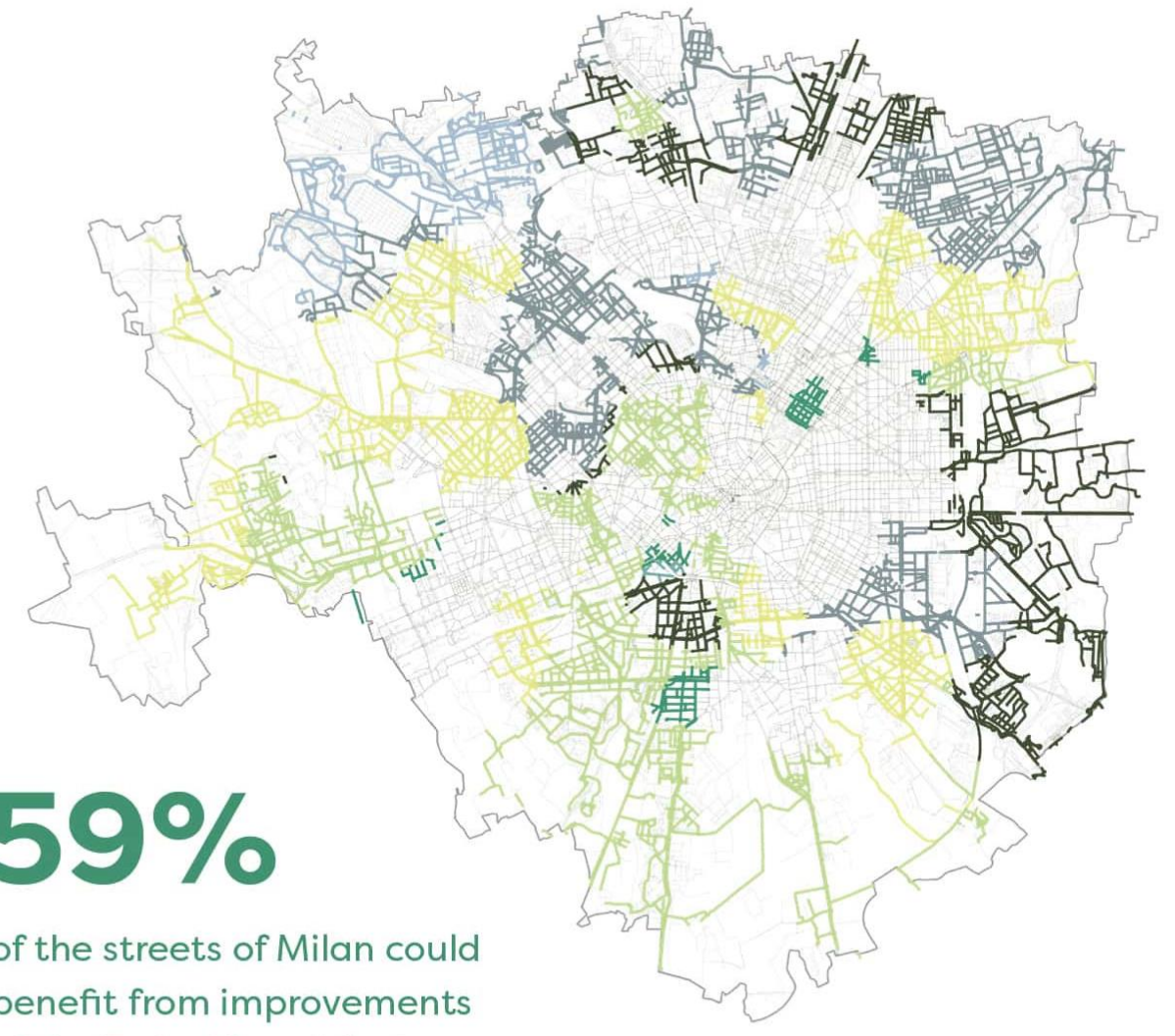
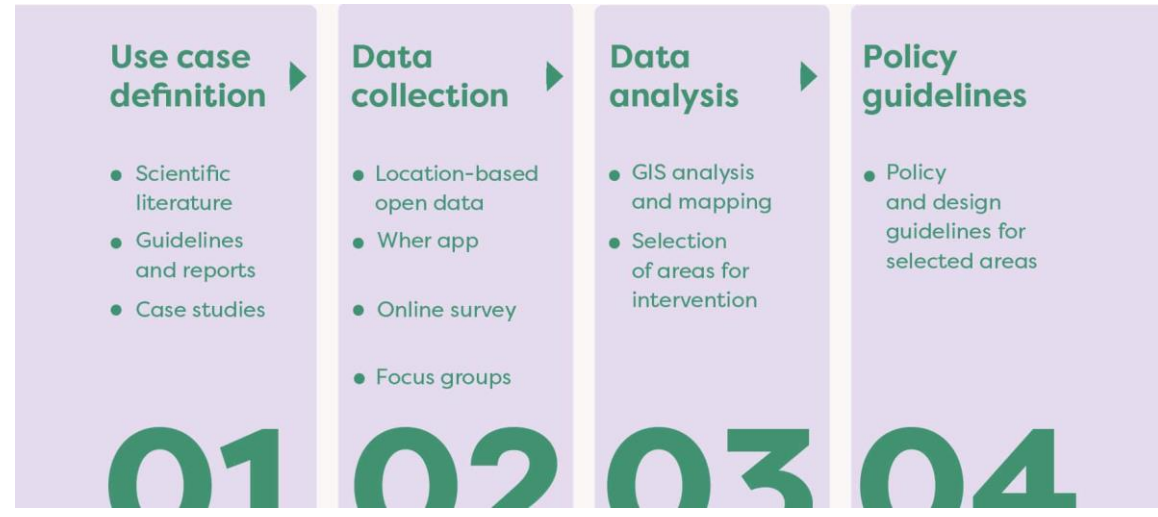
# STEP UP – Walkability for Women in Milan

Transform Transport, TeMA Lab, Sex & the City, Walk21  
2024

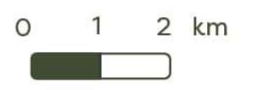
Case Study: Milan, Italy

This project aims to study women's perceptions of safety while walking at night in the city of Milan in relation to the urban characteristics of its public spaces

[LEARN MORE](#)

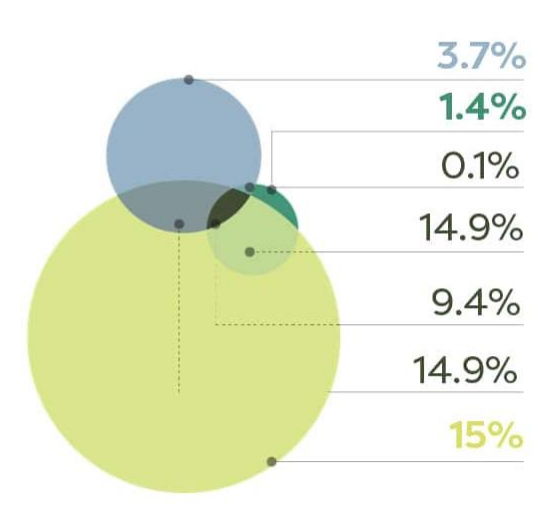


**59%**  
of the streets of Milan could benefit from improvements of the **3 significant factors**

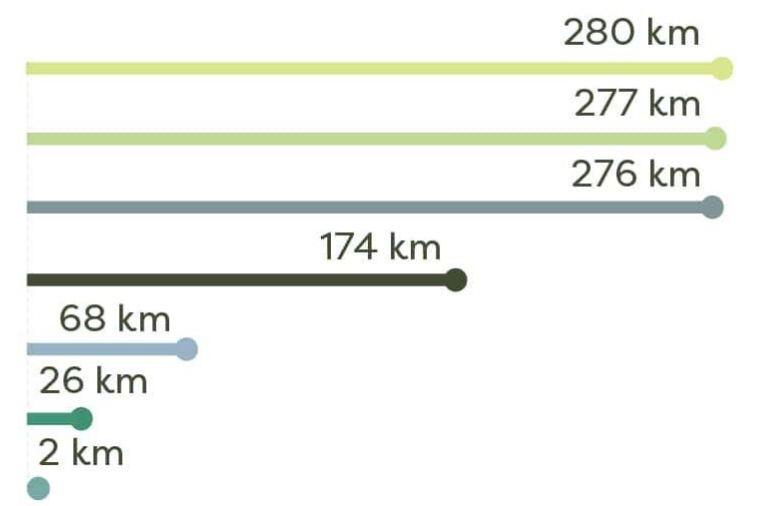


■ Food & Beverage    
 ■ Public Lighting    
 ■ Public transport

### Percentages of network



### Streets kilometers





# Walkability for Children

Transform Transport & Fondazione Innovazione Urbana  
2022

Case Study: Bologna, Italy

The impact of a tactical urbanism intervention in the city of Bologna is studied through the analysis of public space use using video analytics

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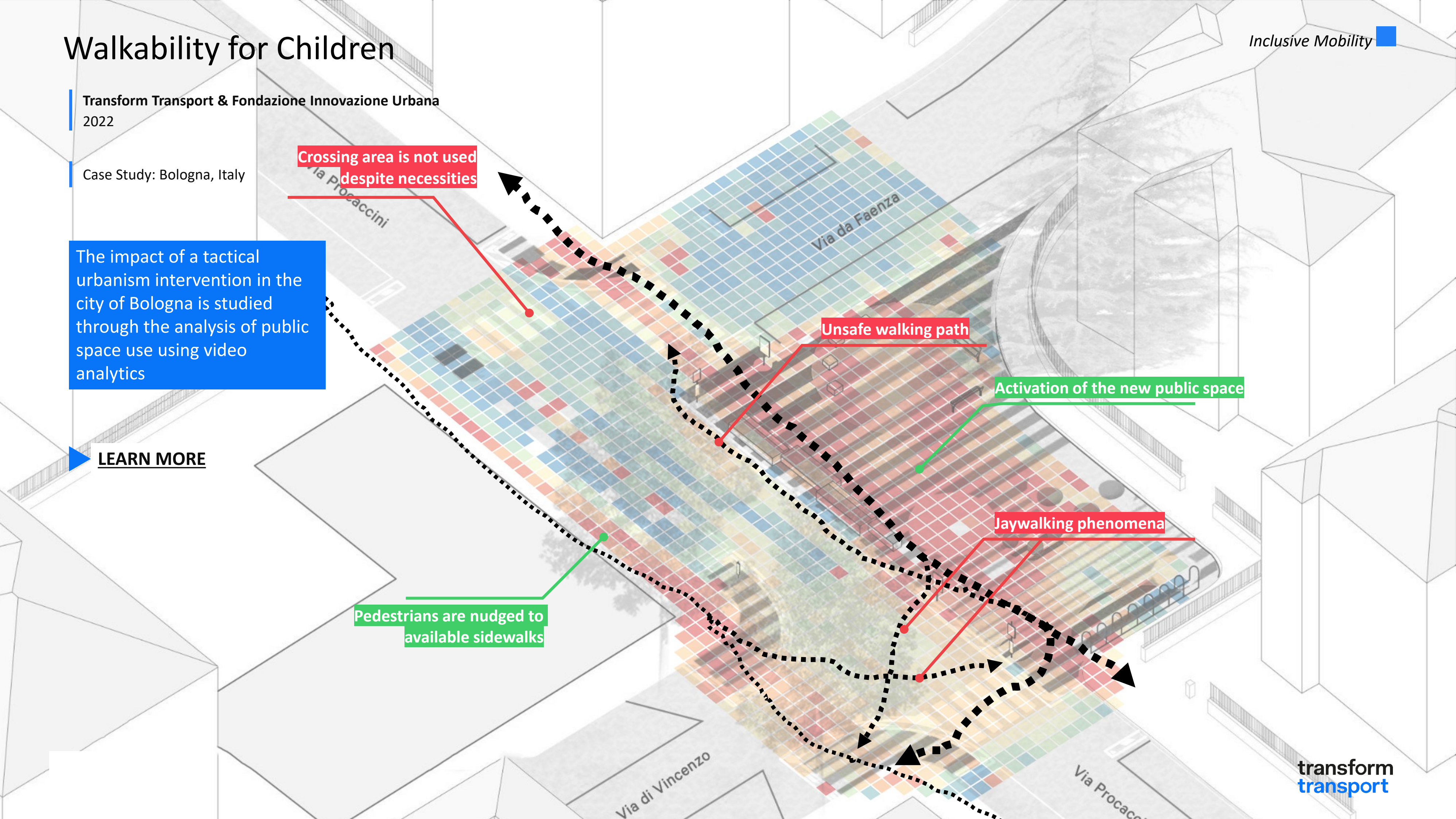
Crossing area is not used despite necessities

Unsafe walking path

Activation of the new public space

Jaywalking phenomena

Pedestrians are nudged to available sidewalks





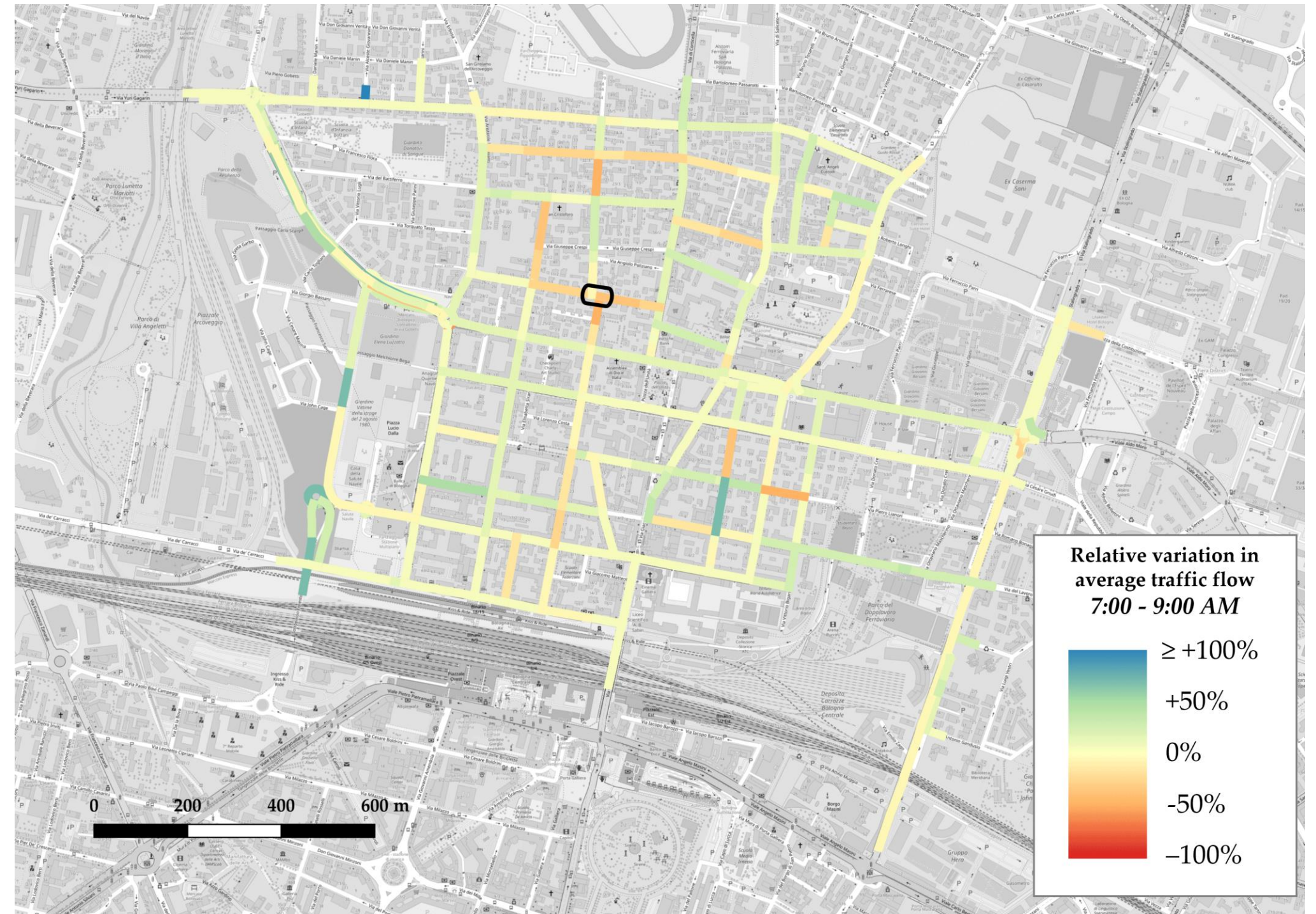
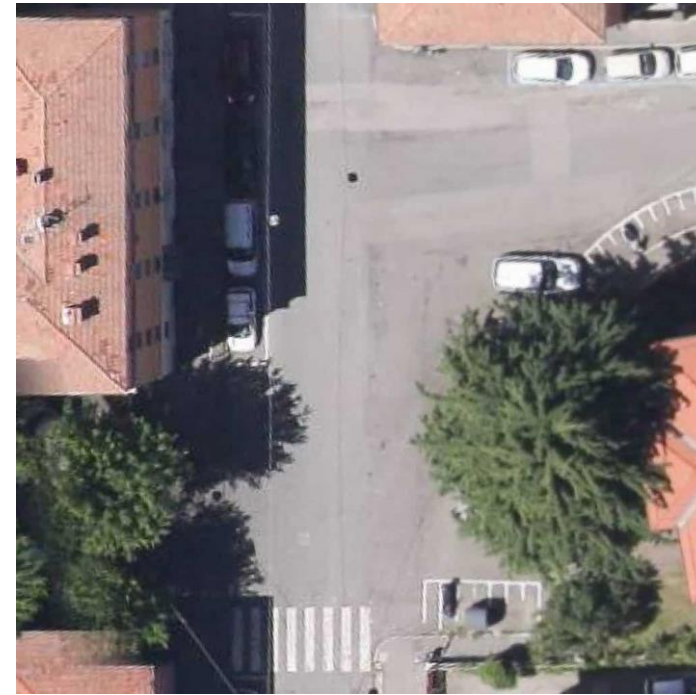
# Tactical Urbanism

Transform Transport & Politecnico di Milano  
2023

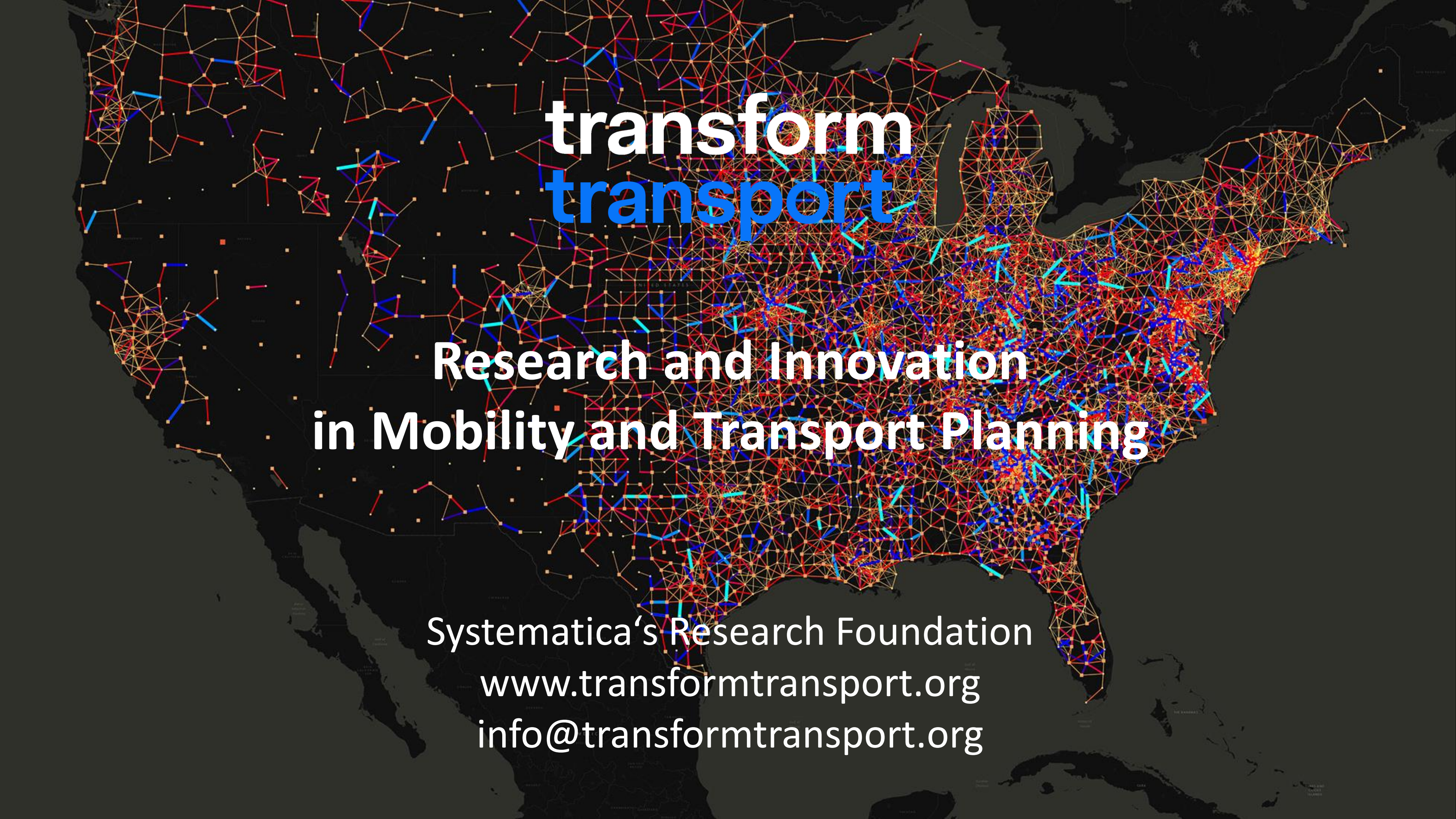
Case Study: Bologna, Italy

This study aims at assessing the effects on private vehicular patterns in the neighborhood of Bolognina, following the implementation of a temporary square dedicated to young students, under the principles of tactical urbanism approach

 [LEARN MORE](#)







# **transform** **transport**

## **Research and Innovation in Mobility and Transport Planning**

Systematica's Research Foundation  
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