# **"Open streets" How to plan in an emergency**

VT

THE PL

E



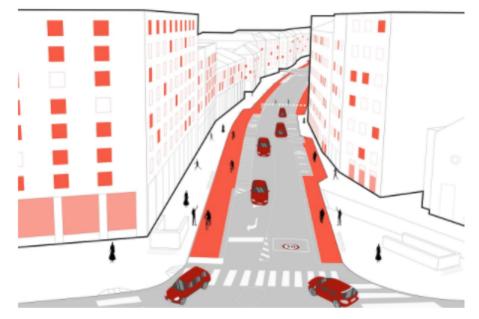
Home > Comune di Milano > Ufficio Stampa > Notizie

#### Quartieri. Con "Strade aperte" nuove aree pedonali, ciclabili, zone 30 e spazi pubblici

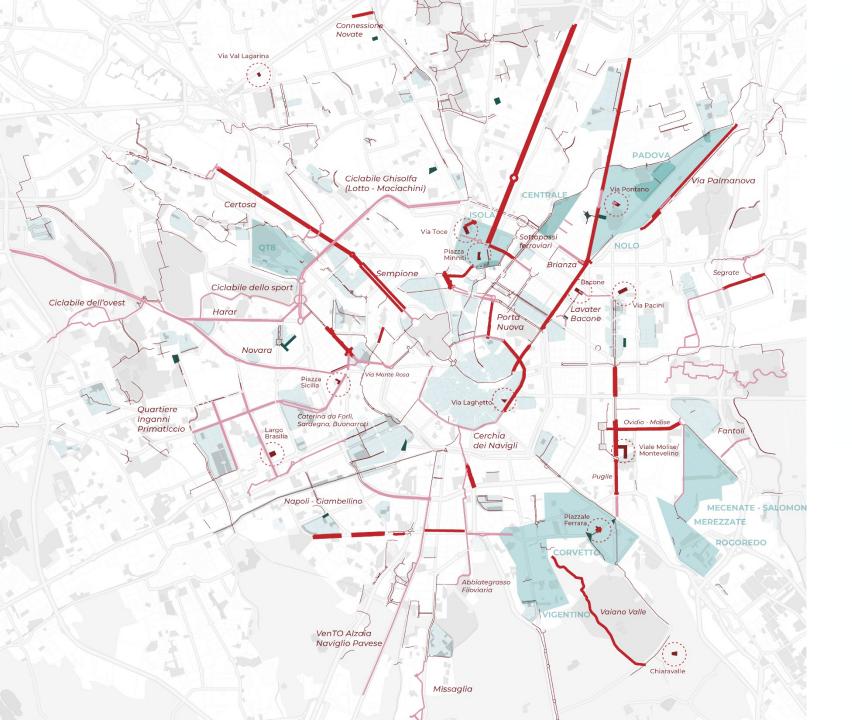
#### Il progetto dell'Amministrazione per una città più sostenibile e sicura. Lazzaretto e Isola progetti-pilota del quartiere a 15 minuti a piedi

*Milano, 30 aprile 2020* - Realizzare nuovi percorsi ciclabili anche in sola segnaletica; incrementare le strade a velocità moderata e le zone 30 e le strade residenziali a prevalente mobilità pedonale e ciclabile; ampliare i percorsi pedonali attraverso l'allargamento di marciapiedi; prevedere pedonalizzazioni temporanee nei quartieri ampliando l'offerta per il gioco e l'attività fisica dei bambini; realizzare nuovi interventi di urbanistica tattica nell'ambito del progetto Piazze Aperte; facilitare la possibilità di posare tavolini per bar e ristoranti sulle aree di sosta ai fini di recuperare parte della capienza persa all'interno per il distanziamento.

Sono le azioni chiave di "Strade aperte", il piano del Comune per ripensare la mobilità e lo spazio pubblico nei prossimi mesi. Una strategia che vede convergere la visione di una città più sostenibile e vivibile, cui l'Amministrazione sta lavorando attraverso molteplici azioni dall'inizio del mandato, con le temporanee esigenze di



distanziamento sociale e sicurezza legate all'emergenza sanitaria in corso. L'obiettivo è realizzare strade più protette e fruibili da parte di tutti, offrendo nuovi spazi pubblici per grandi e bambini e incentivando gli spostamenti a piedi, in bicicletta e monopattino per le percorrenze su scala urbana attraverso un'offerta diversificata, complementare e alternativa al trasporto pubblico e all'auto privata.



#### Programmazione



Cycle routes (km) 2019 - **226 km** 2020 - **293 km** 2021 - **298 km** 

+ 72 km

# Law no. 120 of 11 September 2020 amendment of the Highway Code

Bike lanes - Art. 3, paragraph. 1, 12bis) Bike lane: a longitudinal part of the carriageway, normally on the right-hand side, delimited by a continuous or discontinuous white

EB-291NX

0

strip...

Bike lanes in the Public Transport lane - Art. 7, paragraph 1, i-ter) allow the circulation of bicycles on the roads referred to in letter i) i.e. the lanes reserved for the circulation of public transport we hick Two-way bike lane - Art. 3, para. 1, 12-ter) Two-way bike lane: a longitudinal part of the one-way urban carriageway, located to the left of the direction of travel, delimited by a discontinuous, crossable and mixed-use white strip.... Bike Boxes- Art. 3, para. 1, no. 7a) stop line for bicycles in advanced position compared to the stop line for all other vehicles... Bike Boxes - Art. 182, par. 9ter) at traffic light intersections, [...] the bike boxes may be built, extended to the whole width of the carriageway or the semi-

38 5

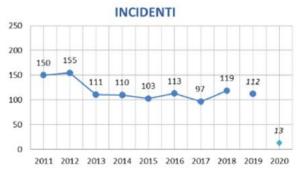
BNL

BNL

## Case study, Venezia – Buenos Aires – Loreto - Monza

## Preliminary analysis - Safety and accidents





Dal 2011 ci sono stati **1083** INCIDENTI

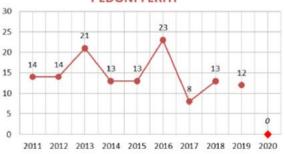
[1 INCIDENTE ogni 3,3 GIORNI]

che hanno causato 6 MORTI

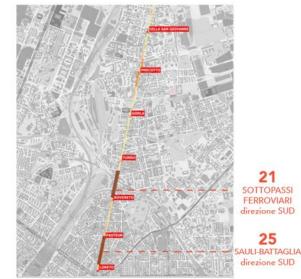




il **57%** dei FERITI è un UTENTE DEBOLE: PEDONI FERITI



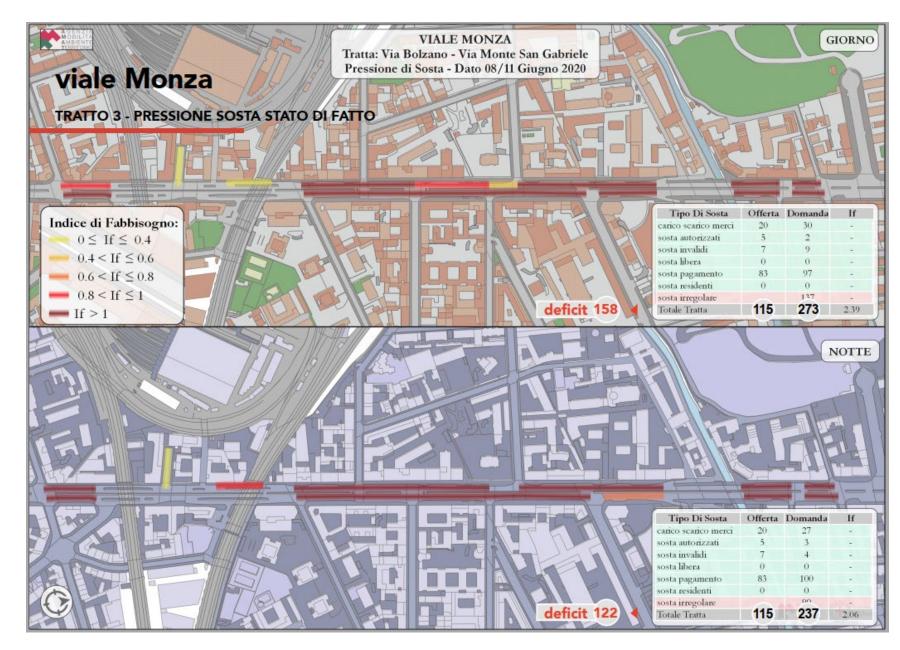
\*i dati relativi al 2019 sono in fase di consolidamento \*\*i dati relativi al 2020 sono parziali





### Viale Monza

## Preliminary analysis - Parking. How to manage public space







Viale Monza

## Preliminary analysis - Survey of flows. Understanding demand and analysing connections FLUSSI CICLABILI (h 7.30-9.30, dicembre 2019)



Piazzale Loreto

## Monitoring analysis

Monitoraggio 2020-2021

corso B. Aires

#### Oberdan

|             | 21/11/2019 | 17/09/2020 | 19/11/2020 | 18/11/2021 |
|-------------|------------|------------|------------|------------|
| auto 🖚      | 75%        | 54%        | 65%        | 58%        |
| moto 🏍      | 20%        | 23%        | 17%        | 21%        |
| bici 🚴      | 5%         | 23%        | 18%        | 21%        |
|             |            |            |            |            |
| End of work |            |            |            |            |

May 2020

Buenos Aires c/o Oberdan (monitoraggio: 26 maggio 2020 - in corso)



## Monitoring analysis

5/2020 3/2021 4/2021 6/2020 7/2020 9/2020 10/2020 11/2020 12/2020 1/2021 2/2021 5/2021 6/2021 7/2021 9/2021 10/2021 11/2021 % Bici % Moto % Auto+Leggeri

Modal share trend (weekday) c.so Buenos Aires maggio 2020 - November 2021

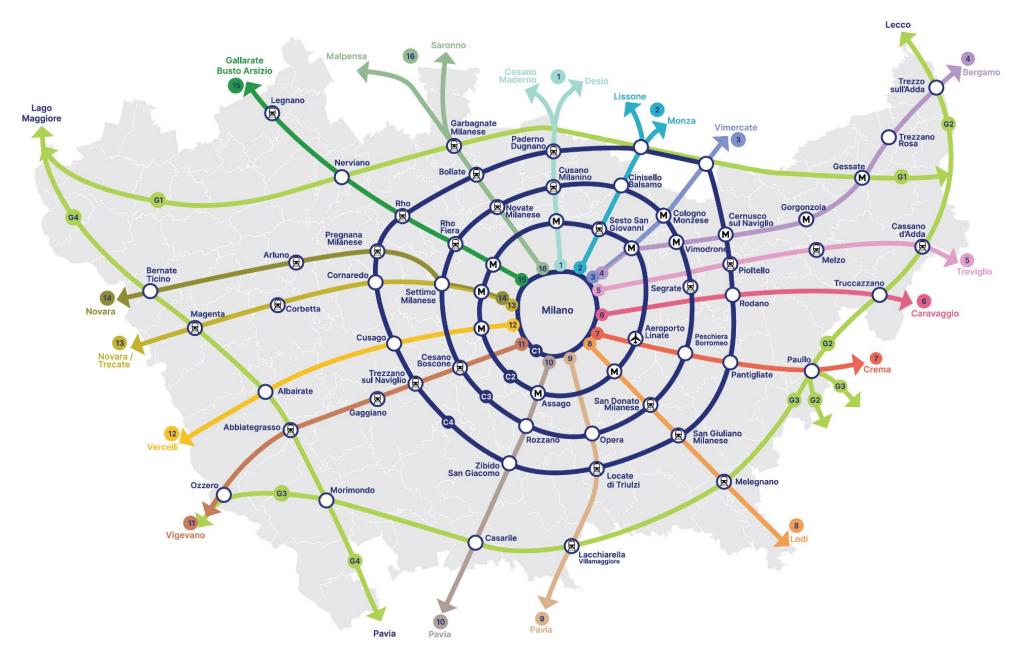
Average weekday bike 6.00-22.00 post intervention: 6.471 bikes bi-directional

Average festive bike 6.00-22.00 <u>post</u> <u>intervention</u>: **5.053** bikes bi-directional Peak hour bi-dir.: **1.138** (time slot 18-19, Tue 04/05/2021)

Most transited day 6.00-22.00: **10.457** (Tue 01/06/2021)

# Towards a new phase, metropolitan planning

## Cambio – the network of cycling corridors in the metropolitan city



# New opportunities

THULE

Foto: Matteo Saderis

**Urban cycle road -** a single-carriageway urban road, with paved verges and pavements, with a speed limit of no more than 30 km/h with priority given to cycles.



FIG. II 318/b

FIG. II 319/b

**School zone -** a street or area within which there are buildings used for school purposes and in which particular precautions of behaviour are in force.

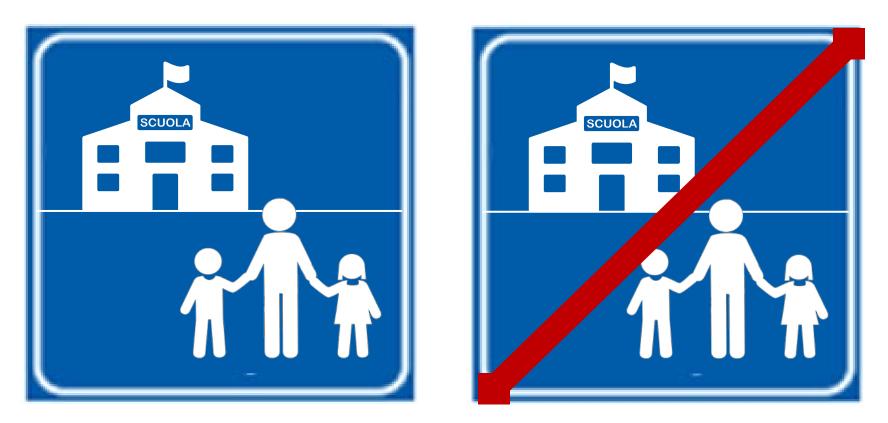
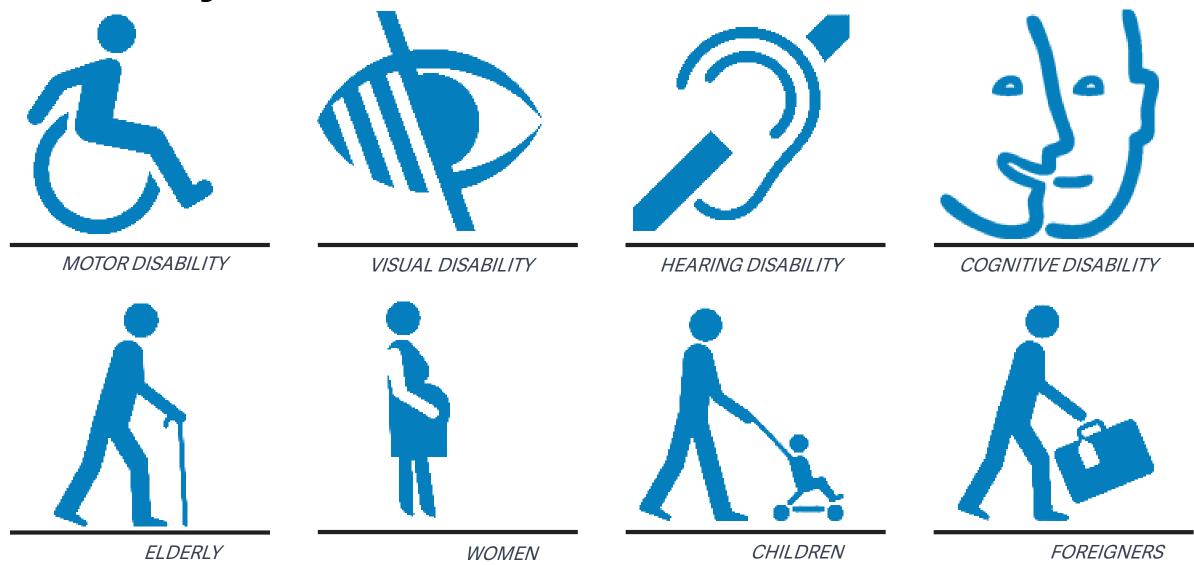


FIG. II 318/c

FIG. II 319/c

## Accessibility and inclusion



## **OpenStreetMap**

#### The "Barrier-free City" project aims to:

- create a more inclusive society;
- build a more accessible city for everyone;
- promote active mobility of citizens;
- enable the use of local public transport;
- support urban planning;
- guide the redevelopment of public spaces.

#### Mapping on OpenStreetMap plays a crucial role in the "Barrier-free City" project, in fact:

#### **OPTIMIZE**

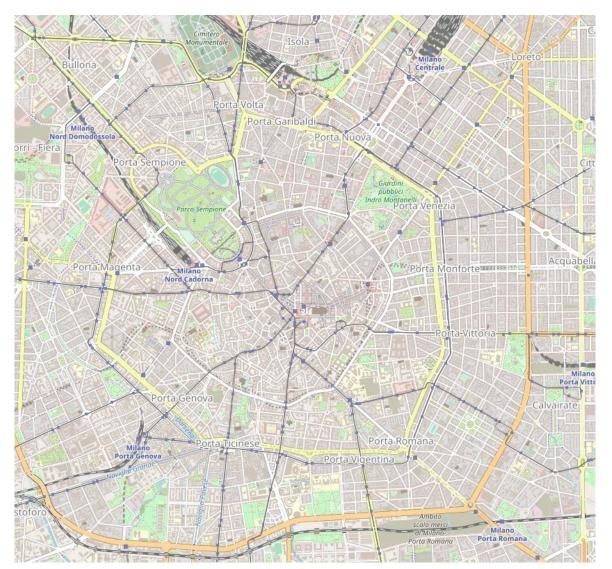
to enhance the data already mapped: integrate rather than replace or duplicate.

#### SHARING

to allow third-party companies to use the pedestrian graph and have a common basis to exchange further information (e.g., maintenance).

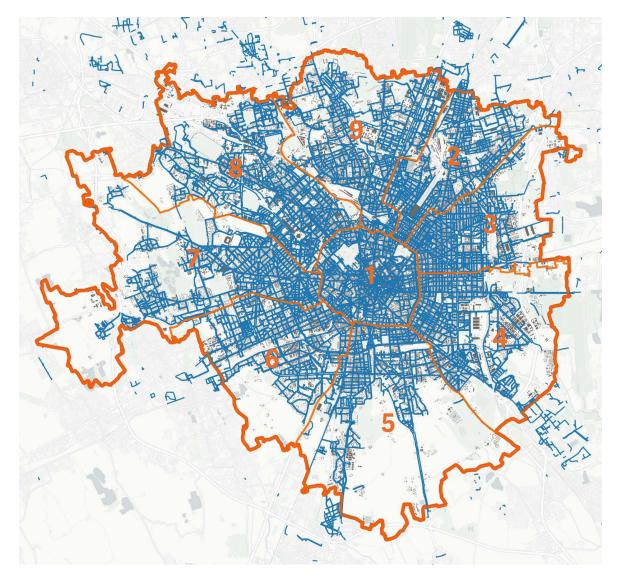
#### COLLABORATE

to enable collective intelligence on the strategic issue of accessibility.



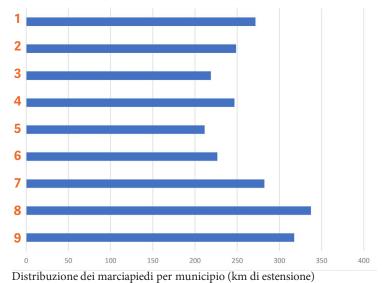
*OpenStreetMap is an editable map of the world built by volunteers and released under an open-content license.* 

## Pedestrian path



Sidewalks are the main pedestrian link between residences, local public transport, and public and private services, and are therefore among the main points of interest in mapping and analysis for promoting accessibility. However, other types of pedestrian paths such as open spaces, green areas, indoor paths in services and stations also need to be implemented.

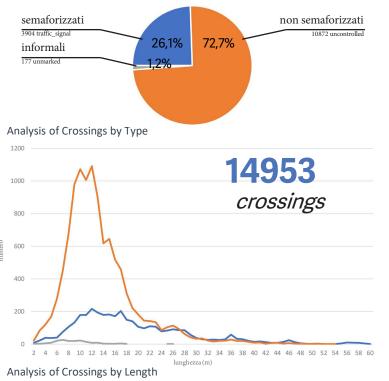
#### 2360 km Of sidewalks



## Crossings

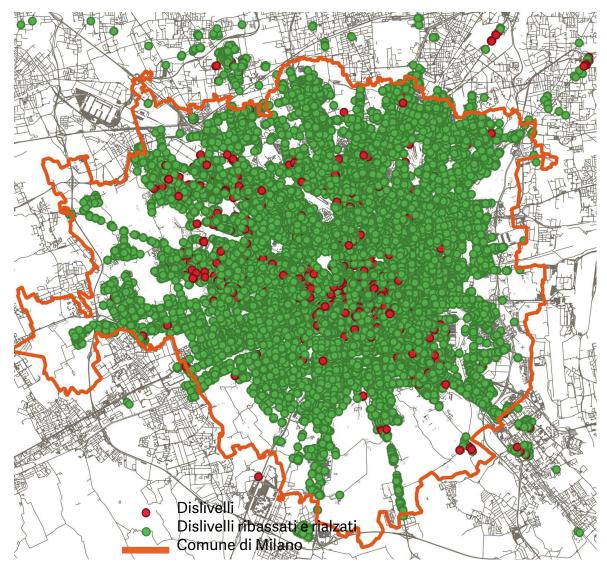


Crossings are the main problem related to the mobility of people with disabilities, both due to changes in level (physical barrier) and the risks associated with other traffic flows (trucks, cars, motorcycles, bicycles). Crossings can be signalized or not, and sometimes they are informal but commonly used (the most dangerous ones).

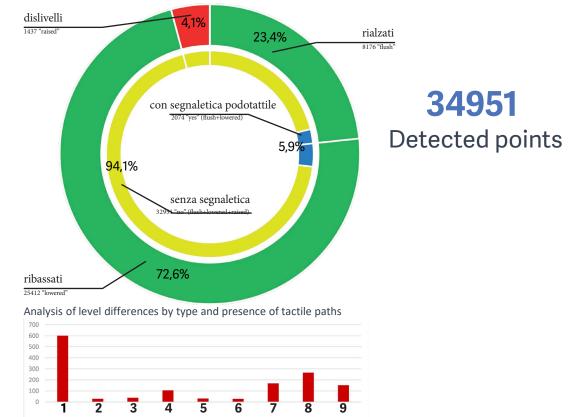


Barrier free City

## Kerbs and ramps

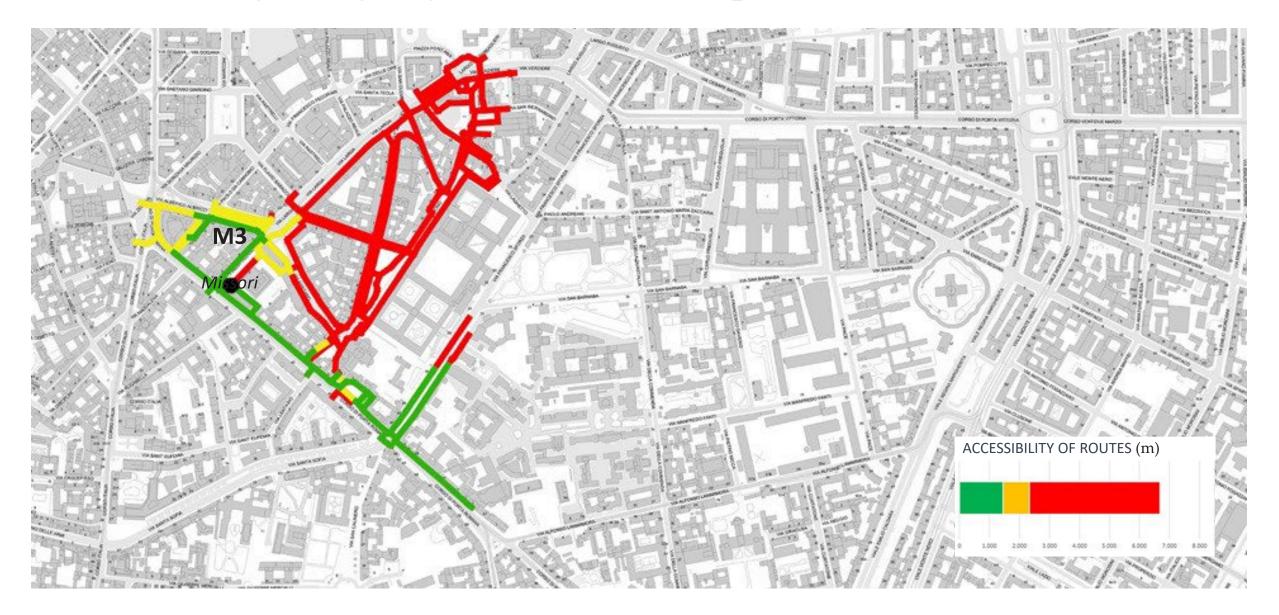


The point of transition between sidewalks and crossings is the privileged point of interest for ensuring the maximum accessibility of public space. They may or may not have tactile signaling.

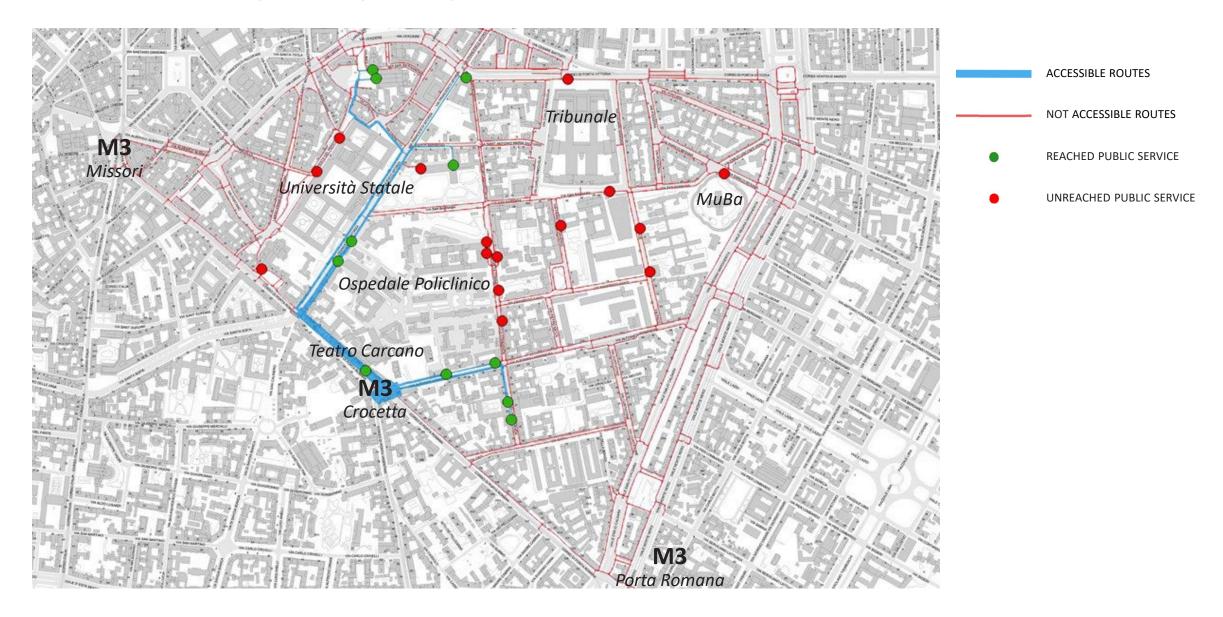


Number of unconnected level differences by municipality

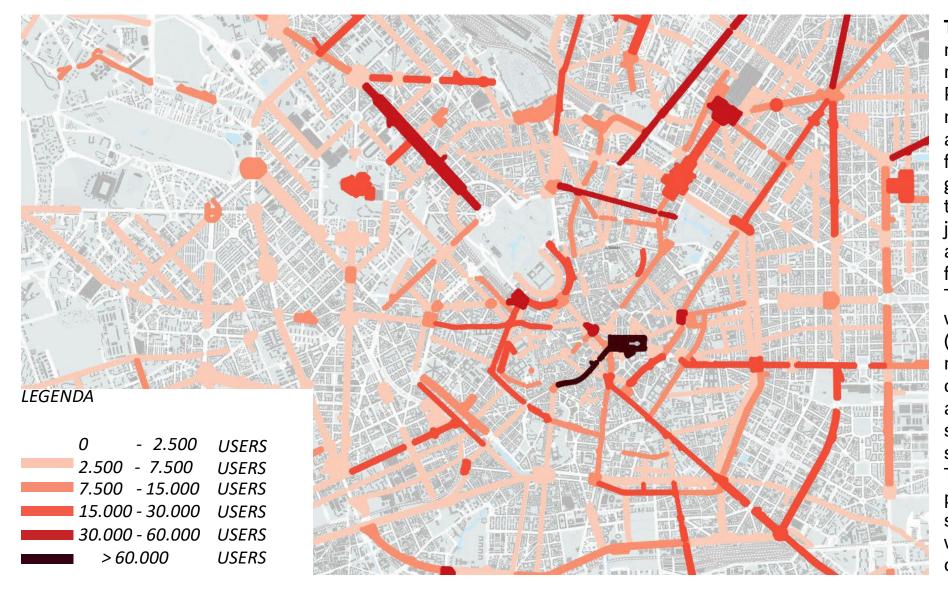
## Accessibility analysis from Public Transport



## Accessibility analysis of Public Services



## Use of roads during morning rush hour by pedestrian



The calculation method used was a modeling simulation of the movements made with the Local Public Transport (LPT) in the morning rush hour from 8:00-9:00 am. This allowed us to estimate the pedestrian flows on each street in Milan generated by LPT users (trips made to reach the starting station of the journey, to change lines if necessary, and to reach the final destination from the end station). The origin/destination of each trip was obtained from the O/D matrix (which provides an estimate of the movements made between each pair of zones) and the location of attractors/generators of movements such as residences, public/private services, and workplaces. The map represents the main pedestrian routes, where for each street axis the number of LPT users who walk on that street during their commute from 8-9 am is reported.

# THANK YOU!

### For more information: <u>andrea.canevazzi@amat-mi.it</u>

