



Ministerul Cercetării, Inovării și Digitalizării

Parteneri:



Kingdom of the Netherlands

BUCUREȘTI

UrbanLab for Green Cities

17-19 Noiembrie

O The Entrepreneurship Academy

CITIE SMART/ RESILIENT/ SUSTAINABLE/ FRIENDLY/ INNOVATIVE/ GREEN/ VISIONARY/ INCLUSIVE/ CULTURA





MOVERLAB

UrbanLab for Green Cities București, 17-19 noiembrie 2023





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Problem

Short description of the problem:

Main identified problem is pedestrian safety near public transportation stations on road network with rush hour traffic gems.

Due to high volume of pedestrians that work, live or transit these areas, sidewalks and pedestrian crossings become too narrow for the high pedestrian density.

Analised pilot area is Bd. Dimitrie Pompeiu, around Pipera Metro Station, Bus Stop "Metrou Pipera" and Tram Stop "Electronica".

This is a 2 lanes width (1 for each direction) and tram lanes on one side. There are public and private busses that often stop and block entire lane/direction traffic.

Here pedestrian crossing is marked only with vertical signs and horizontal paint, with no traffic light or sensors.

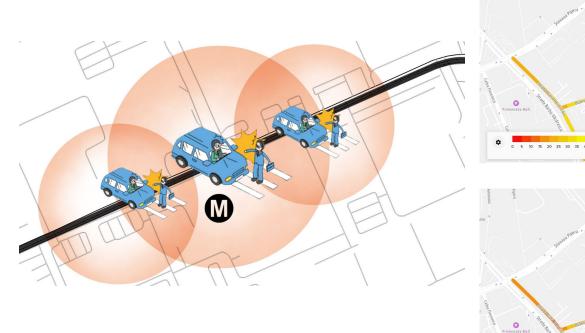


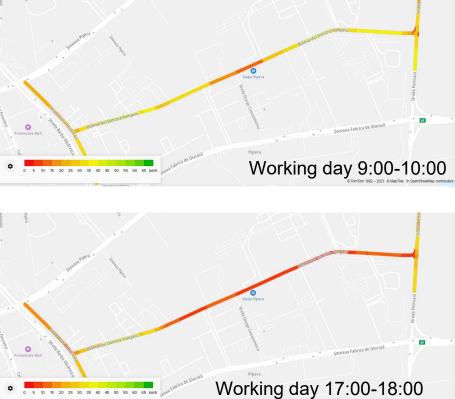




Problem - VISUAL

Road Traffic Statistics

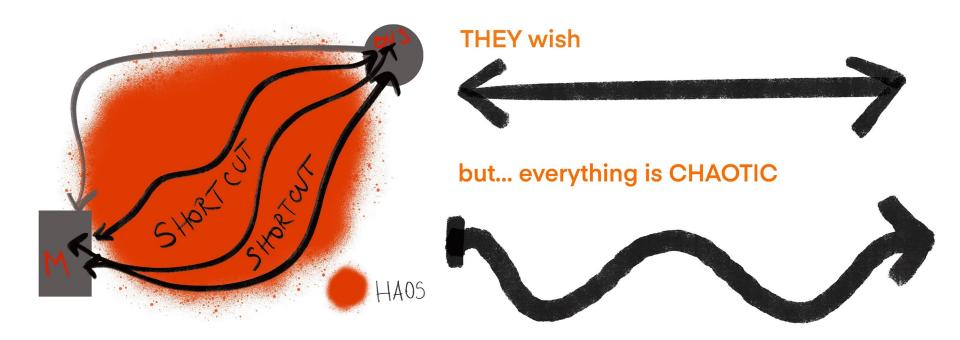








Problem - VISUAL





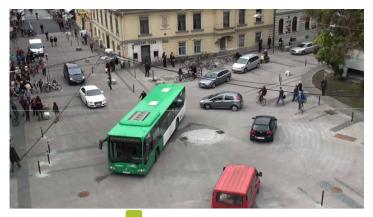
Existing Solutions

Short description of existing solutions:

- Pedestrian Crossings with Traffic light
- Raised Pedestrian Crossing or speed bumps before pedestrian crossing
- Shared Areas
- 30km/h Zones / Residential Zones











Our solution

Description

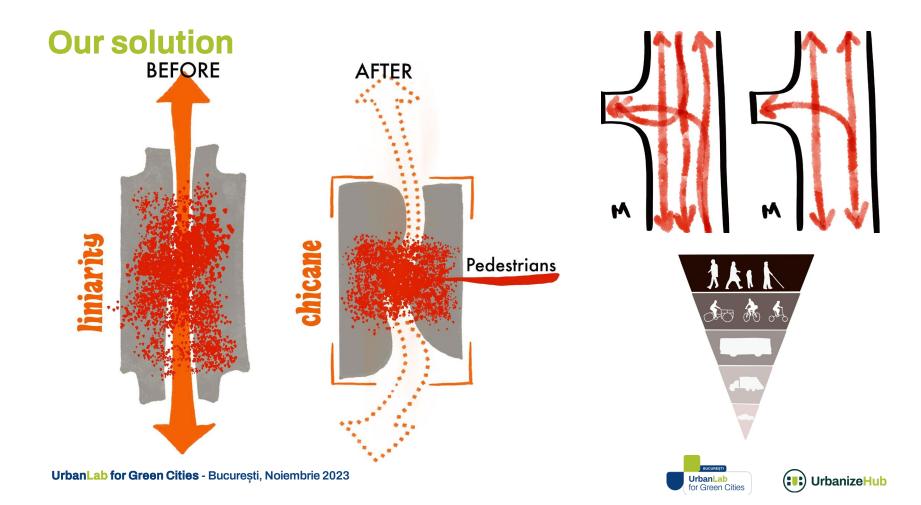
Integrated solution for both traffic pedestrians and public transprotation that involve:

- Moving Busses on Tram lanes
- Unifying Busses and Tram stations that STATIL BUS now are 80-100m away from each other
- Create a shared area for cars and pedestrians on road side with pedestrian priority and 5km/h limit for about 200m

- Shared area will be raised to side walk level, with different pavement texture to help awareness of drivers about pedestrian presence
- Create/redesign walkable and green areas to make a more pleasant environment for all participants.



(: :) UrbanizeHub



Before and after







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Urbanize

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Our solution







Solution – Competititve Advantage

	Our solution	Pedestrian Crossings with Traffic light	Raised Pedestrian Crossing	Shared Areas	30km/h Zones
Pedestrian Safety against injury from car accidents	~	×	×	<i>«</i>	~
Making public transportation more realiable	×	×	×	×	×
Driveres awareness about pedestrians and reduce distractions risks	×	Ś	<	~	×
Discouraging the use of personal cars	Ø	×	×	~	×
Increasing Pedestrian Mobility	Ø	×	×	~	×
Modern, durable and pleasant public transportation waiting area	Ø	×	×	×	×

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Potential of applicability

This solution can be applied in other similar zones with tram/ subway in Bucharest for example like:

- Strada Preciziei (Preciziei Metro Station)
- Anghel Saligny metro station
- Soseaua Progresului
- Academia Militara metro station



Implementation plan

- Months 1-3: Virtual simulation
- Months 12-24: Temporary implementation and education
- Months 24+: Permanent implementation



Necessary investments

Investitions	Price	Number of pcs	Total
Design and Arhitecture	40000 EUR	1	40000 Eur
Permeable Pavement	50 EUR / m2	5000 m2	250000 Eur
Pavement speed reducing painting	8 EUR / m	30 * 200m	48000 EUR
Urban Furniture	1000 EUR	75	75000 Eur
Total costuri			~413000 Eur

Monthly expenses

Costs	Preț	Numărul de bucăți	Total
Cleaning & Maintenance	1000 RON	4	=4000
Total costs			4000 RON



Team 6 THANK YOU!!!

MOBILITY

u. Noiembrie 2023