Urban Mobility Observatory

3rd Edition

International Transport Forum

9 th ITF TRANSPORT STATISTICS MEETING

3-4 April 2023

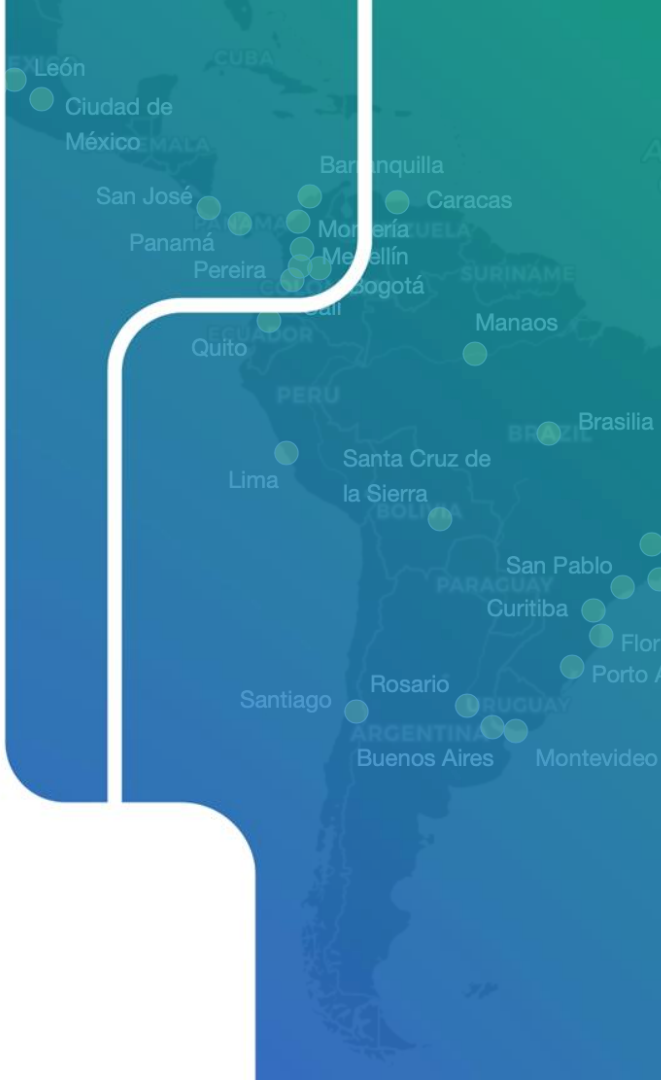
CAF DEVELOPMENT BANK OF LATIN AMERICA

IDB Inter-American Development Bank

since 2007...

Goal: “Respond to the lack of solid, reliable and up-to-date information on transport and mobility in the region”

A regional public good



OMU'S TIMELINE

CAF IDB

2007

OMU's origin

2010

1st Report
15 cities

Observatorio de Movilidad Urbana para América Latina
Información para mejores políticas y mejores ciudades

2015

2nd Report
29 cities

2020

3rd edition
Reformulation & Update

2023

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3rd edition

Reformulation & Update

Regional public good
12 countries, 29 cities

Support data-driven decision-making

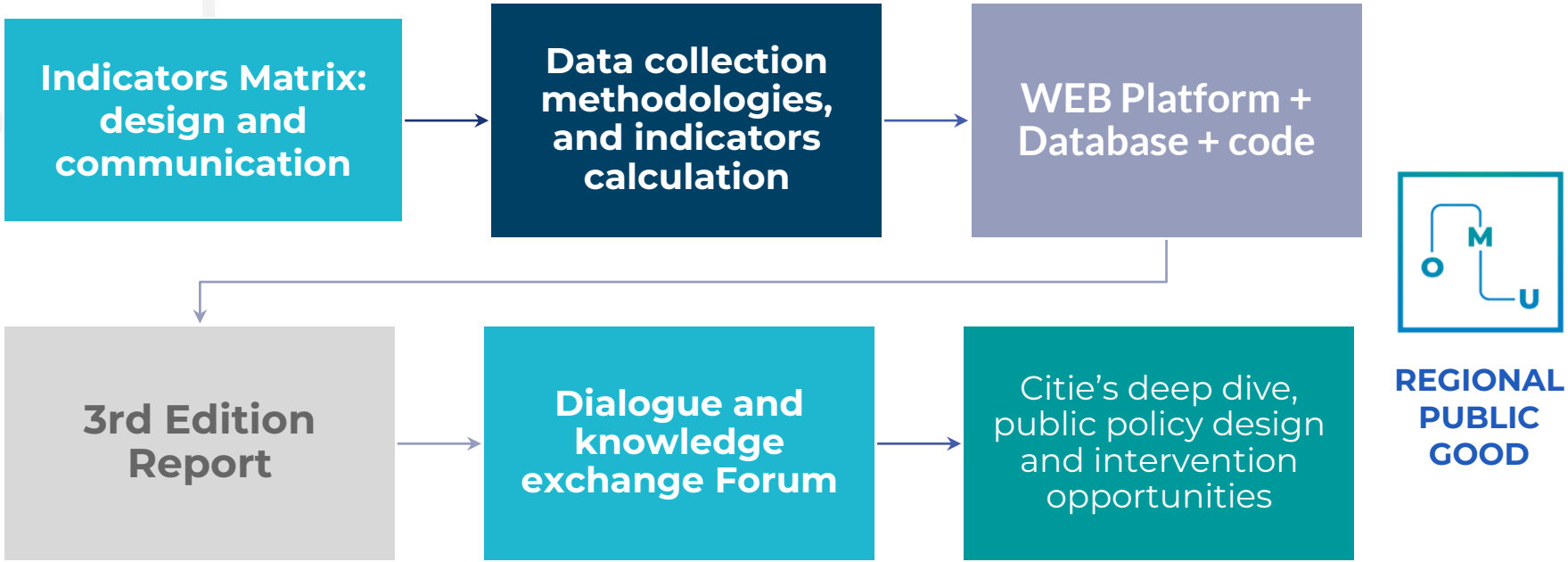
Alignment with global agendas

Incorporation of new technology

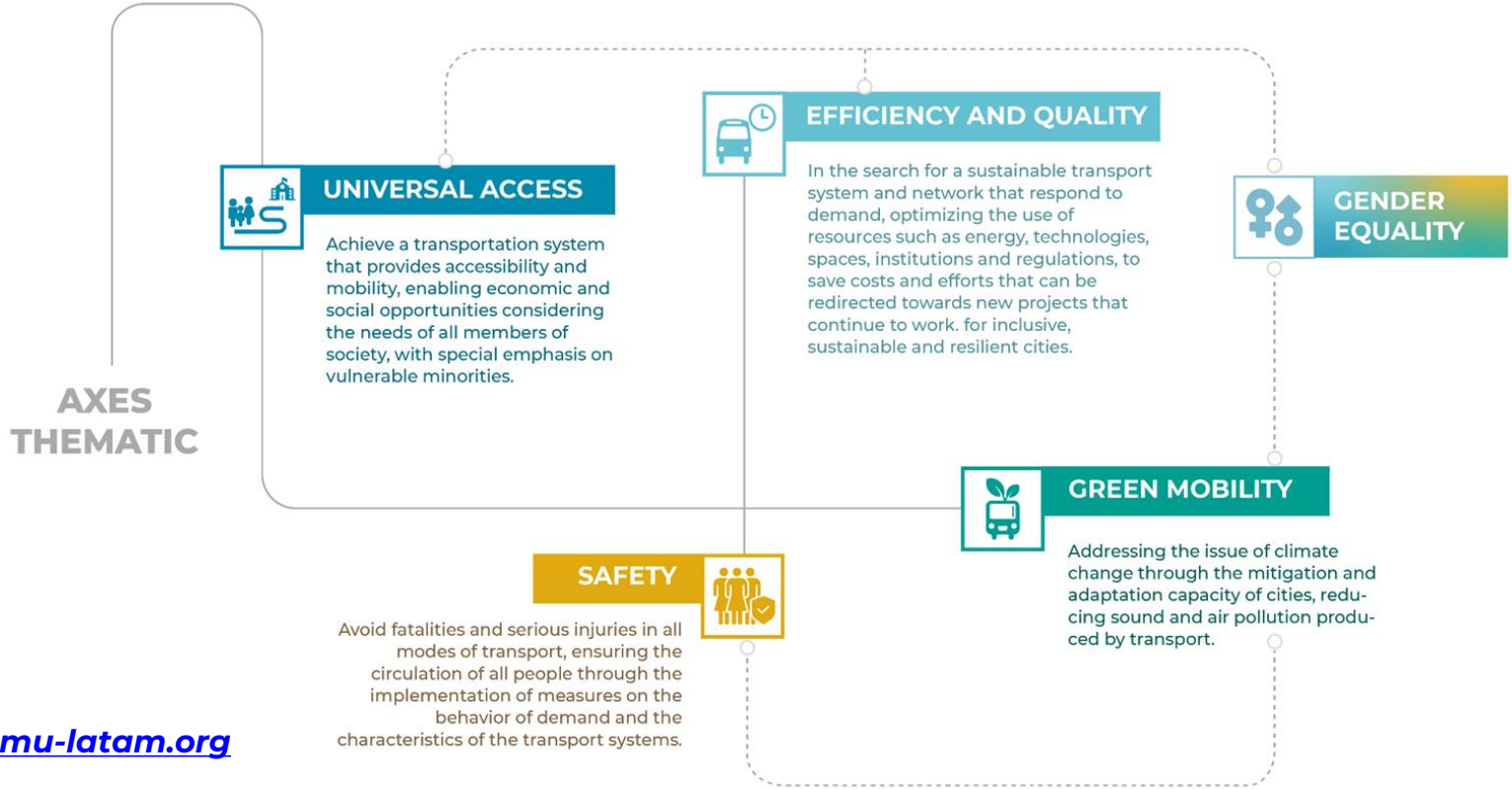
Promote cities' commitment

Discussion and cooperation networks

How will OMU contribute to the community?



Indicators Matrix: axes



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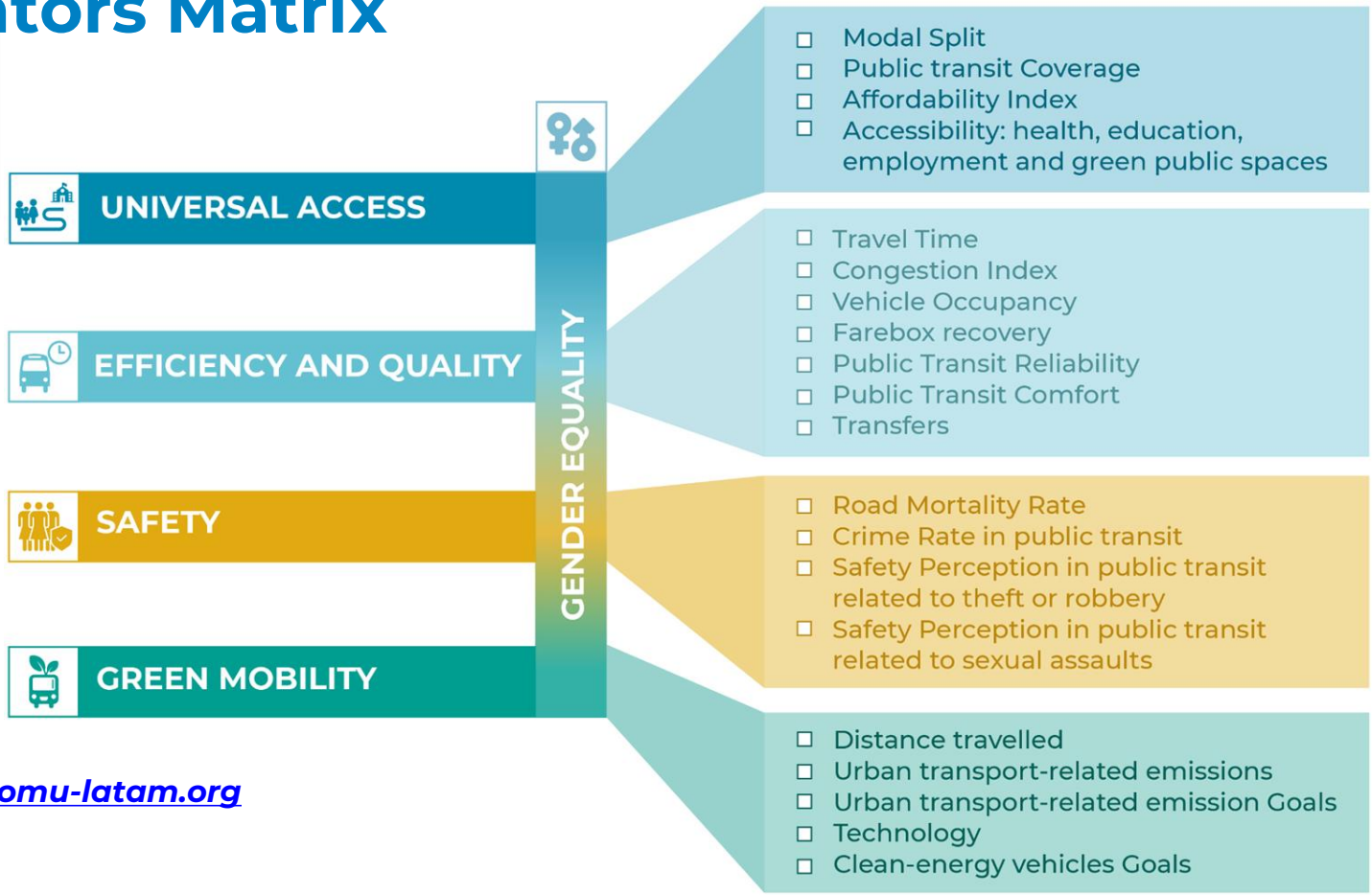
Indicators Matrix



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Our Toolbox:

Data collection, methodologies, calculations

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Data Collection & alliances

- Desk research + data reported by cities
- 17 committed cities

- Mobility Surveys
- Public transit schedules
- Public transit fares
- Public transit subsidies and revenues
- Road mortality
- Sexual harassment in PT
- Climate related goals: emissions and clean-energy fleet

alliances

moovit

Meta

Google Environmental Insights Explorer

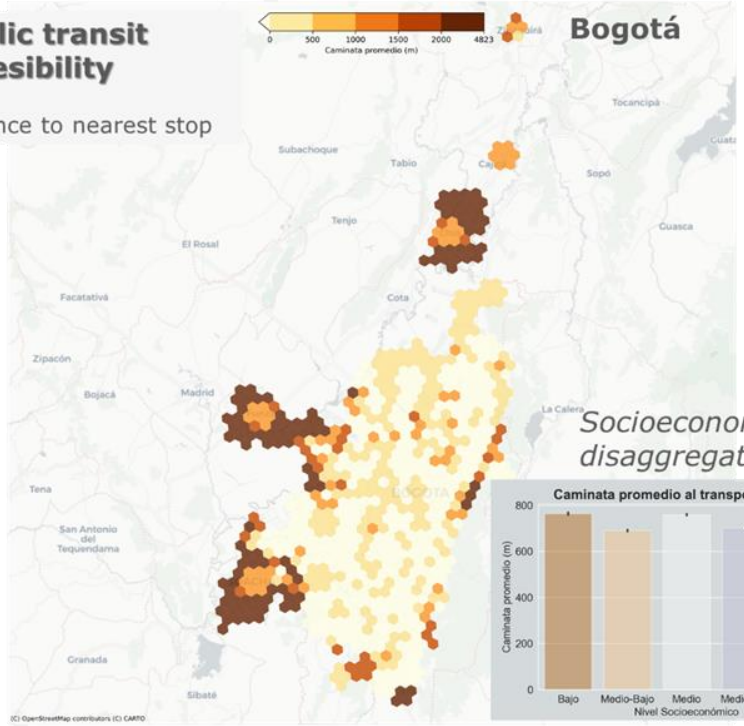
Methodologies: Data science

Python library: Pyomu
github.com/OMU-LATAM/Accesibilidad

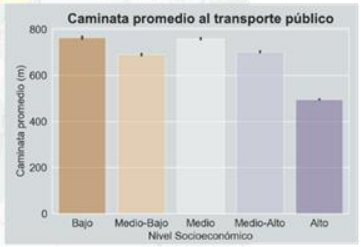
Accessibility study: Open data and machine learning open-source code

Public transit accesibility

Distance to nearest stop

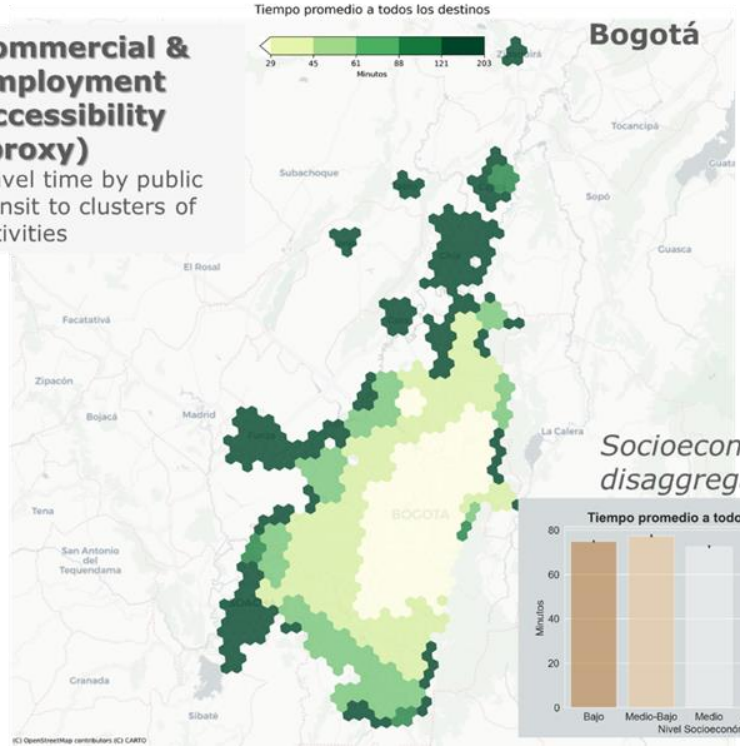


Socioeconomic level disaggregation

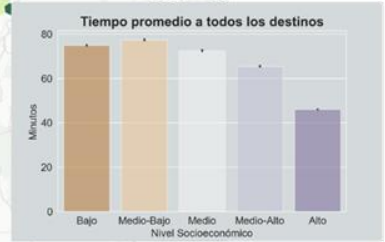


Commercial & employment Accessibility (proxy)

Travel time by public transit to clusters of activities



Socioeconomic level disaggregation



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Methodologies: Data science

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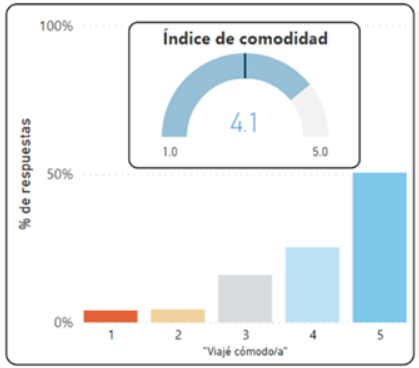
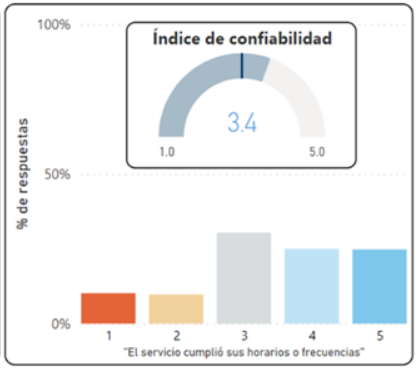
Digital Surveys

moovit

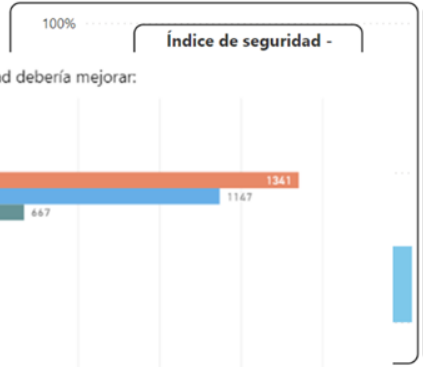
Users' perception of the public transport service

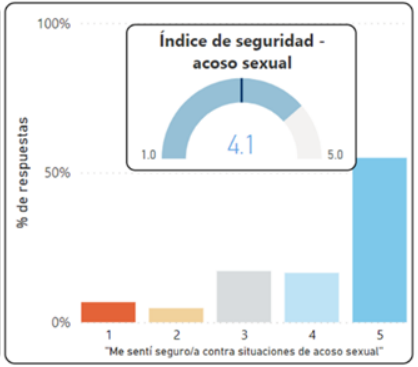
20 cities
45K responses

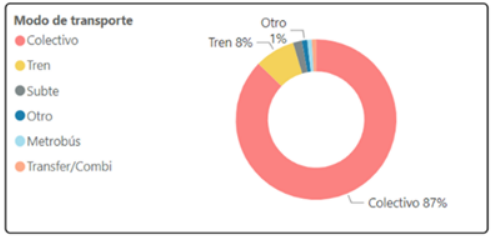


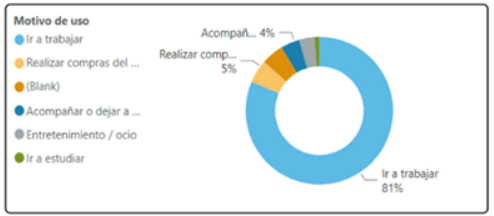


What aspects of the public transit should be improved?









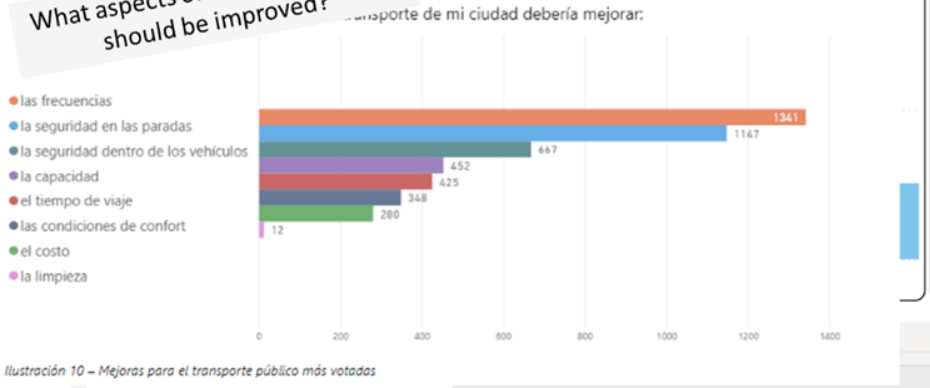


Ilustración 10 – Mejoras para el transporte público más votadas

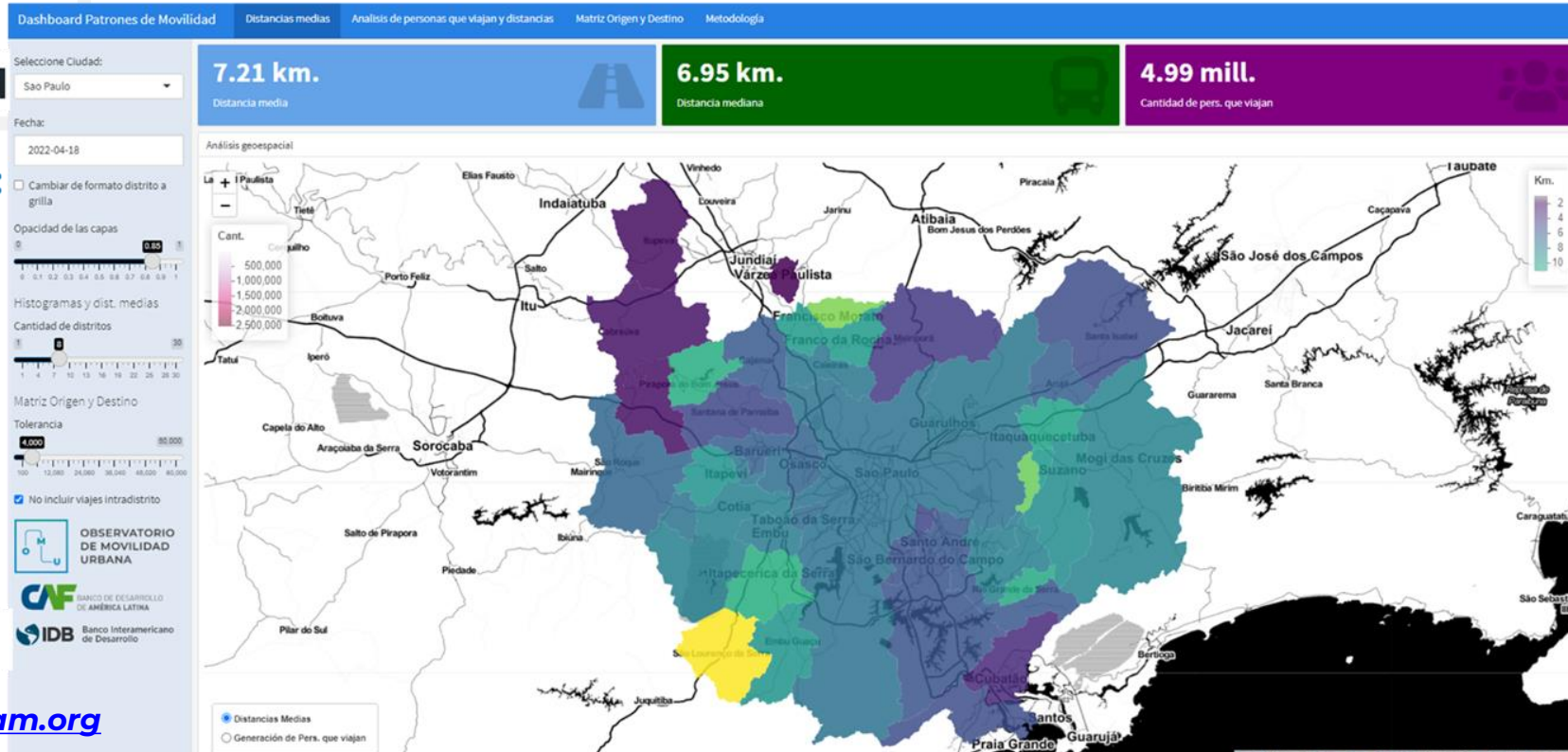
Methodologies: Data science

Code: github.com/OMU-LATAM/patrones_desplazamientos_Facebook

Data from mobile applications Travel patterns study with Facebook data.

Meta

Coverage: 20 cities



UBA Universidad de Buenos Aires

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Methodologies: Data science

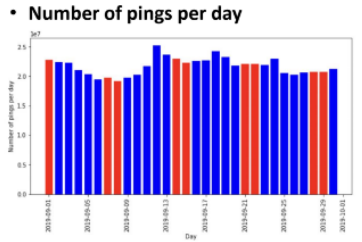
Data from smartphone location data

Travel patterns study with apps GPS data

Time frame: 3 months (2019, 2021 & 2022)

KPIs: Travel time, trip rate and modal split (!)

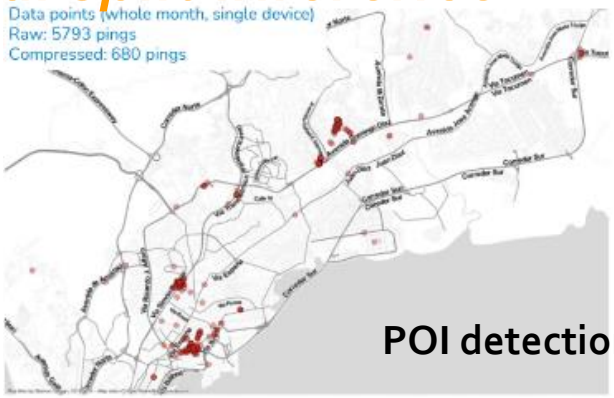
Challenge: modal split inference



Pilots: 3 cities

UNIVERSITY OF TORONTO
FACULTY OF APPLIED SCIENCE & ENGINEERING
Transportation Research Institute

UBA
Universidad de Buenos Aires



POI detection

Check out our website:

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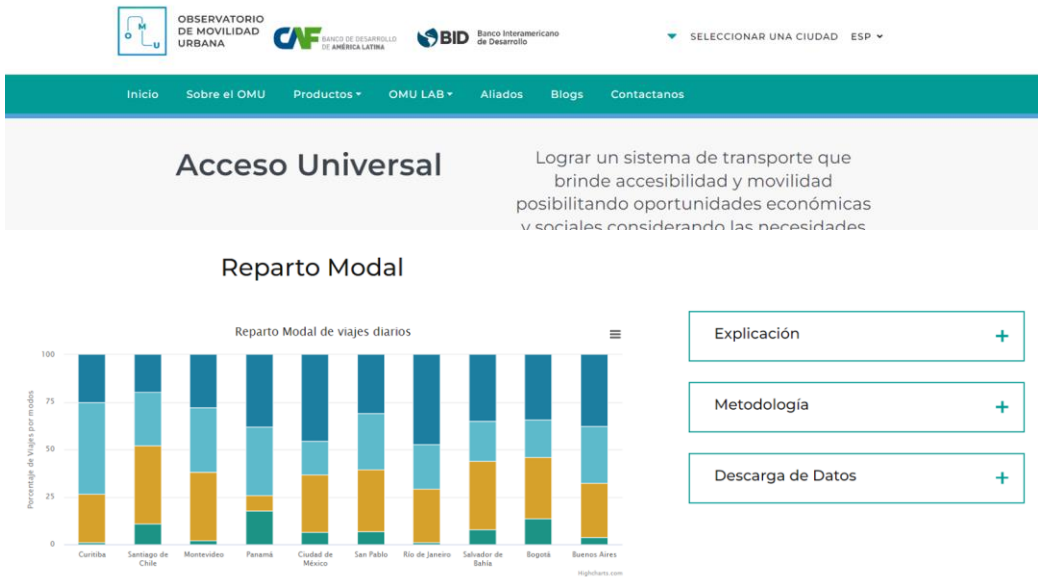

Stay tuned, there is more to come

THANK YOU!

URBAN
MOBILITY
OBSERVATORY

Una iniciativa de

CAF BANCO DE DESARROLLO DE AMÉRICA LATINA

BID Banco Interamericano de Desarrollo

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