

JUSTICE (ENUAC 2021-2024)

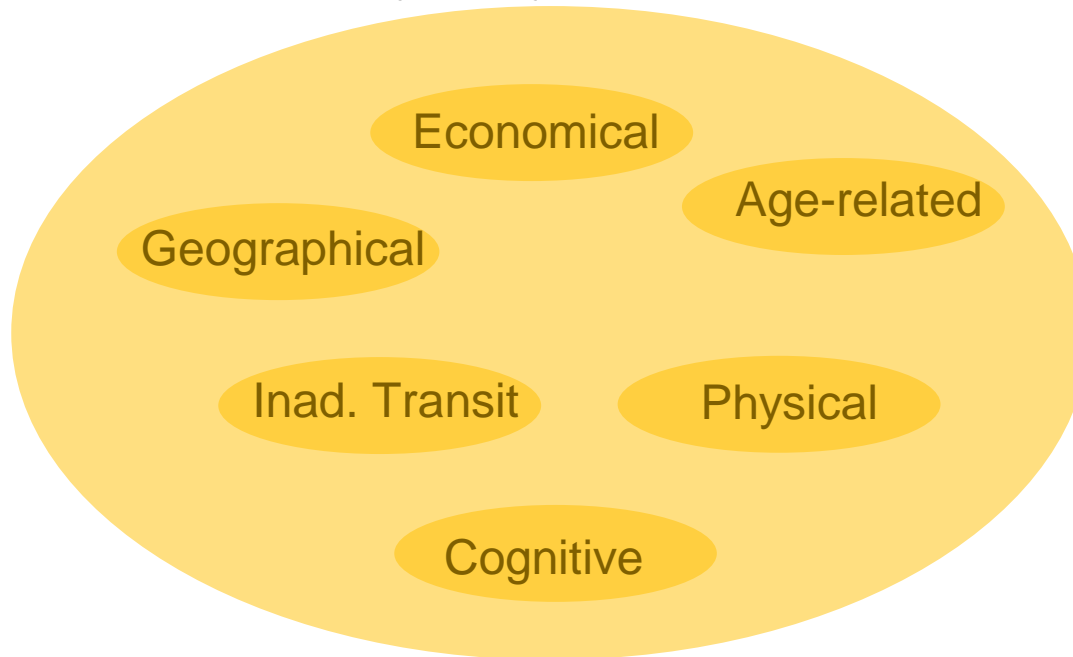


WalkUrban Final Conference
Dortmund
March 7th, 2024

What is an inclusive city?

→ Public Transit Accessibility

Impaired by a system of barriers:



GOALS

To measure and characterize accessibility for specific target groups
Draw a recommendation list for inclusive city environments



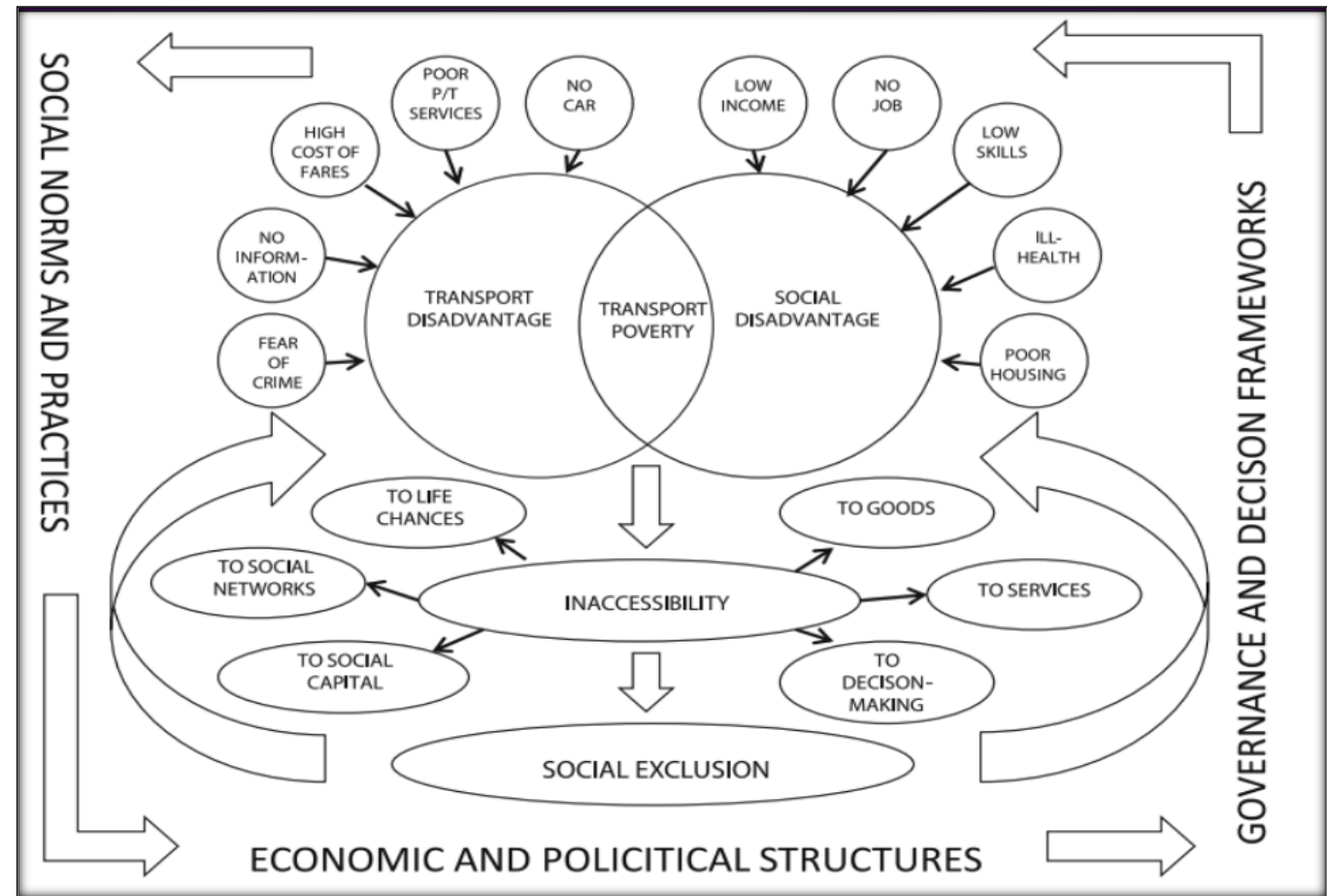
Spatial Justice through Inclusiveness & PT Accessibility

Justice concepts (Rawls 1972, Sen 2005) have been

mobilized in the transport and accessibility field (Geurs & van Wee 2011, Lucas 2012, Martens 2012, Martens & Bastiaanssen 2014, Lucas et al. 2016)

applied regarding equity issues (Foth & al. 2013, El Geneidy & al. 2016, Pereira et al. 2017)

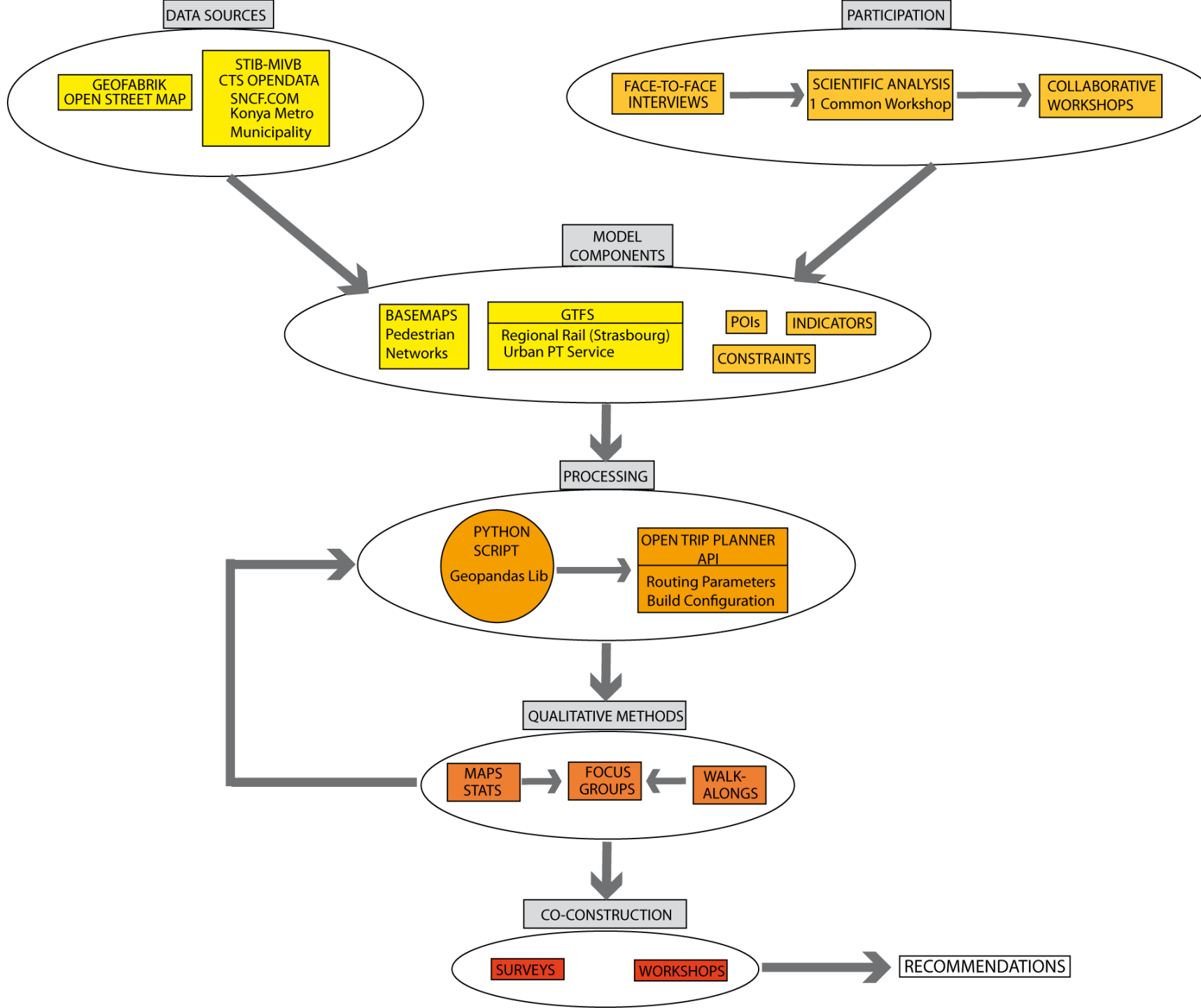
but **generally PT is implicitly supposed to be inclusive**, with some exceptions (Grisé et al. 2019)

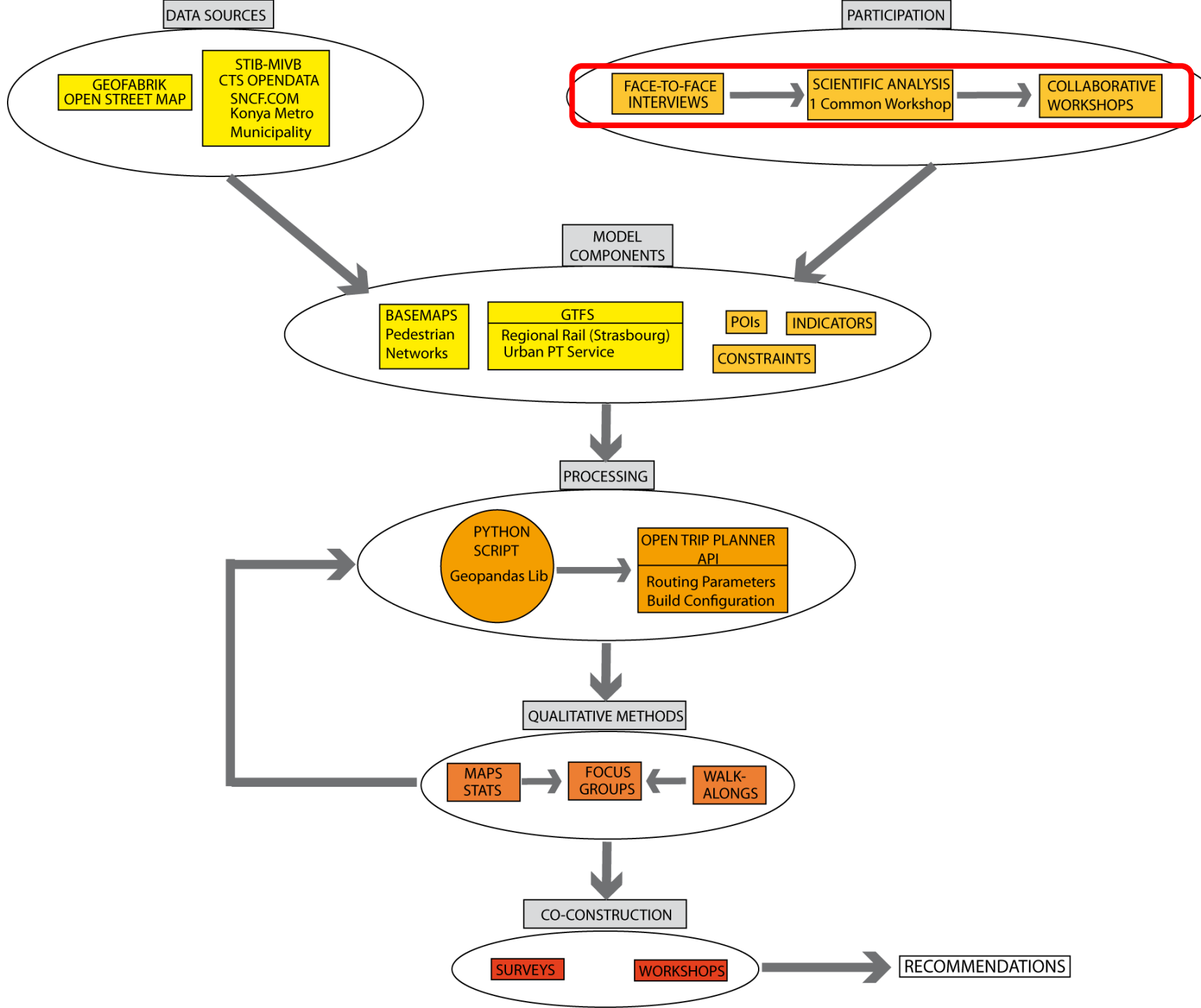


Lucas 2012

METHODS

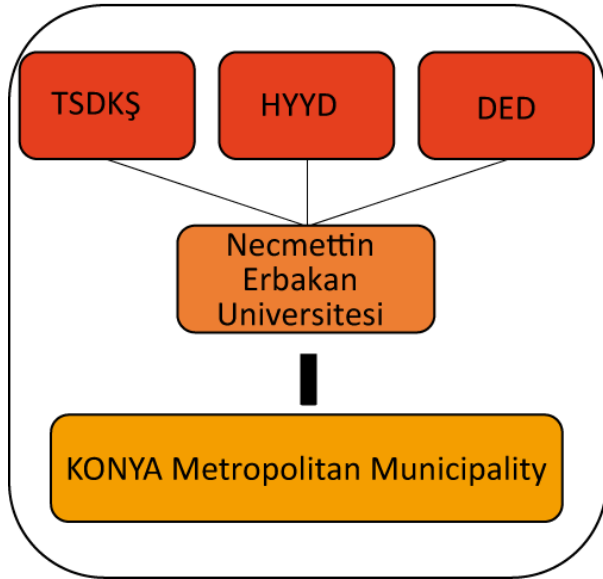




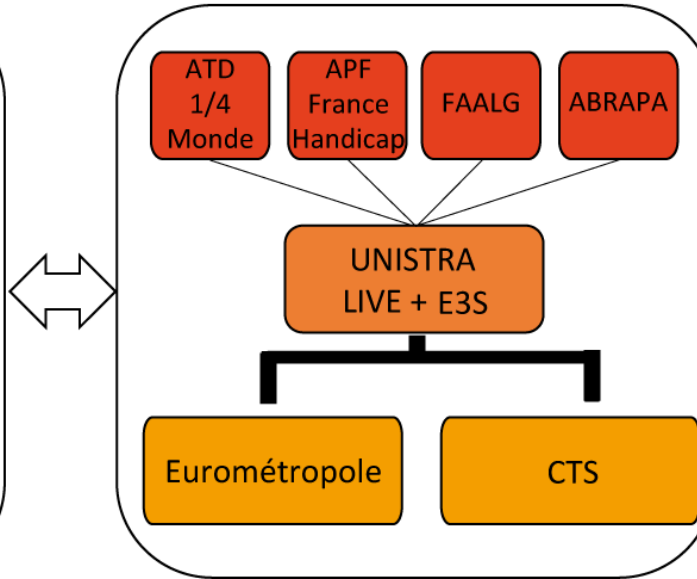




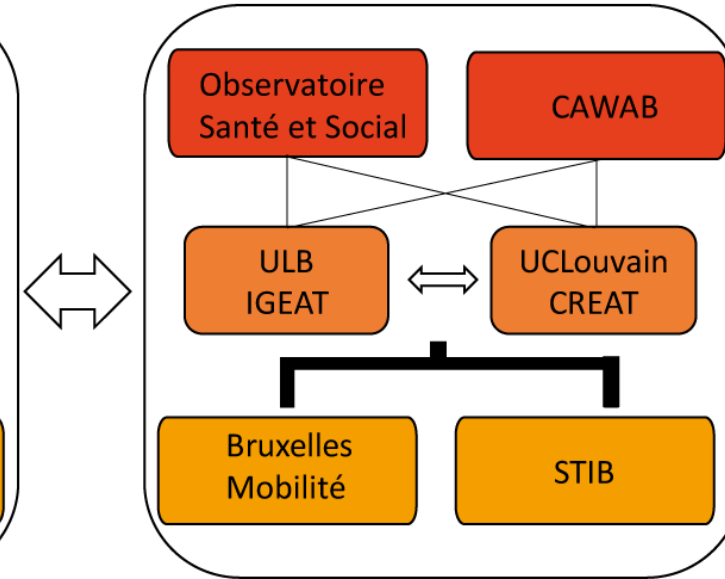
KONYA



STRASBOURG



BRUSSELS



NGOs

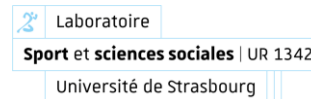
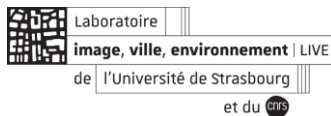
- Blind & Visually Imp.
- Disabled
- Elderly
- Socially Underprivileged

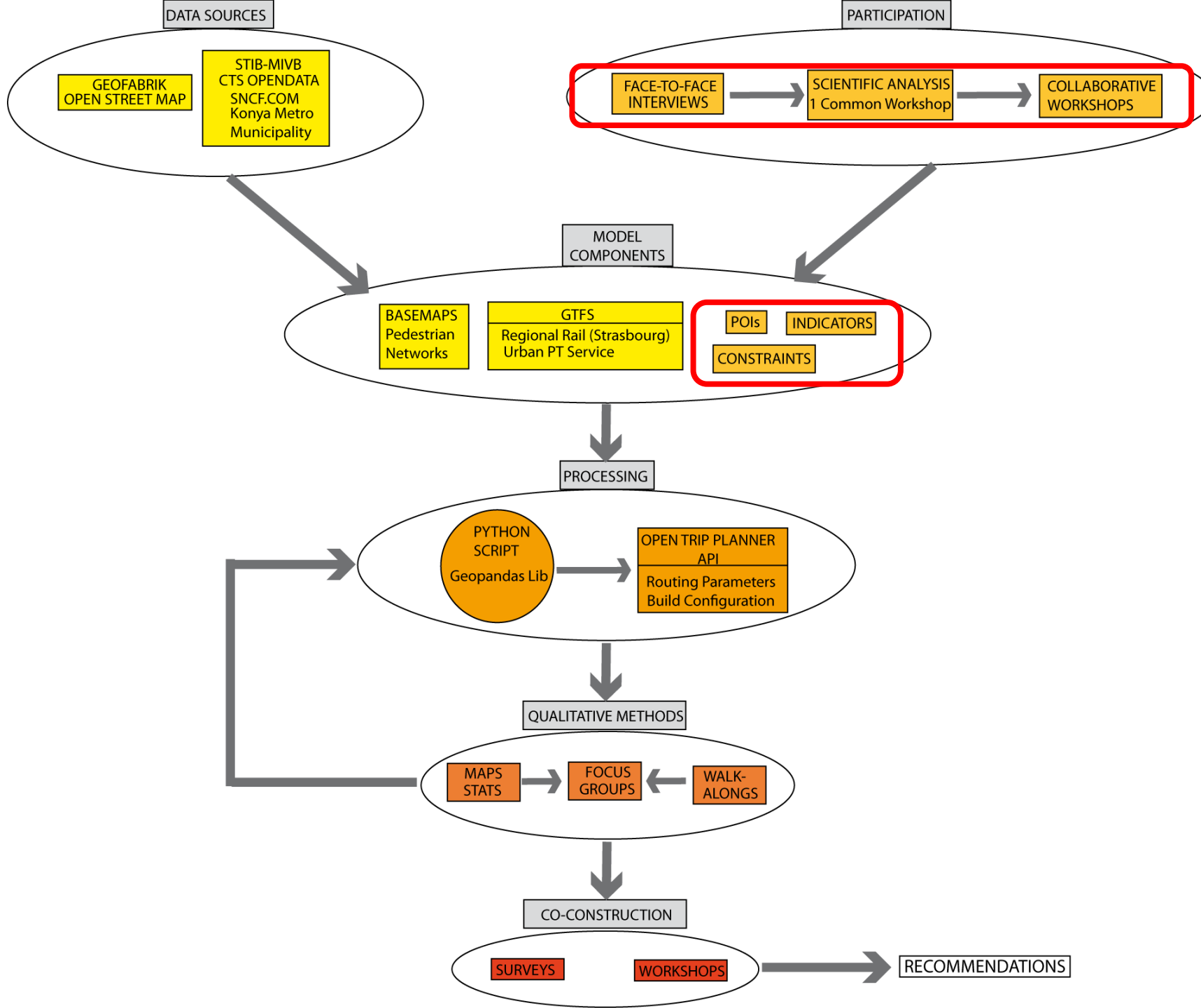
Academics

- Research Labs

Stakeholders

- Transport Authorities
- PT Operators





Participation Outputs: Accessibility Barriers, Indicators & POIs

- Accessibility Barriers

High Priority - Brussels

Stations with Elevators only

Disabled Compliant Stations only

Desk or Automat only

Shelter with seats only

No Underground station

High Priority - Strasbourg

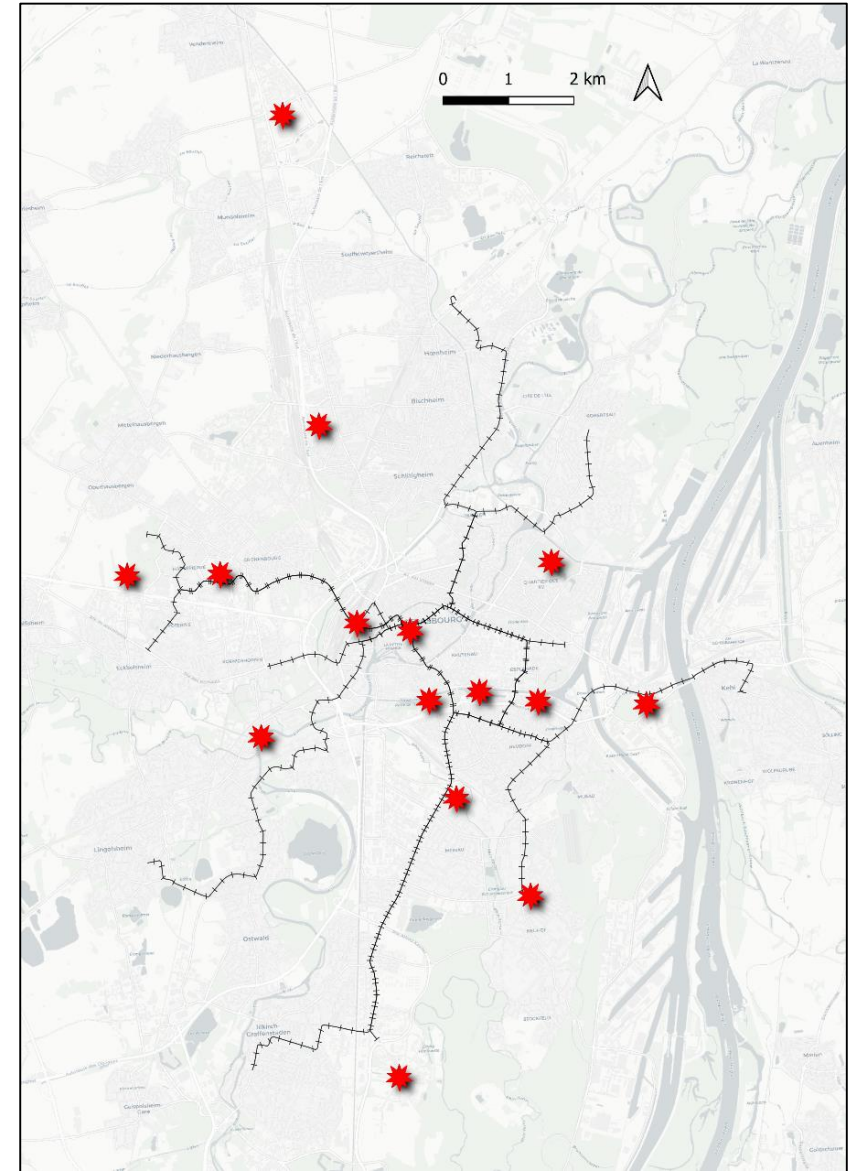
Max Walk distance

No Transfer

No Bus

No Tramway

Slow Walk Speed



Participation Outputs: Shared Views on Justice

Distributive Justice (Equity)

Who benefits from access and opportunities ? Who faces risks, costs, and impacts?

Recognition Justice (Inclusion)

Are the various needs, values, abilities, knowledge and practices of different groups acknowledge and respected?

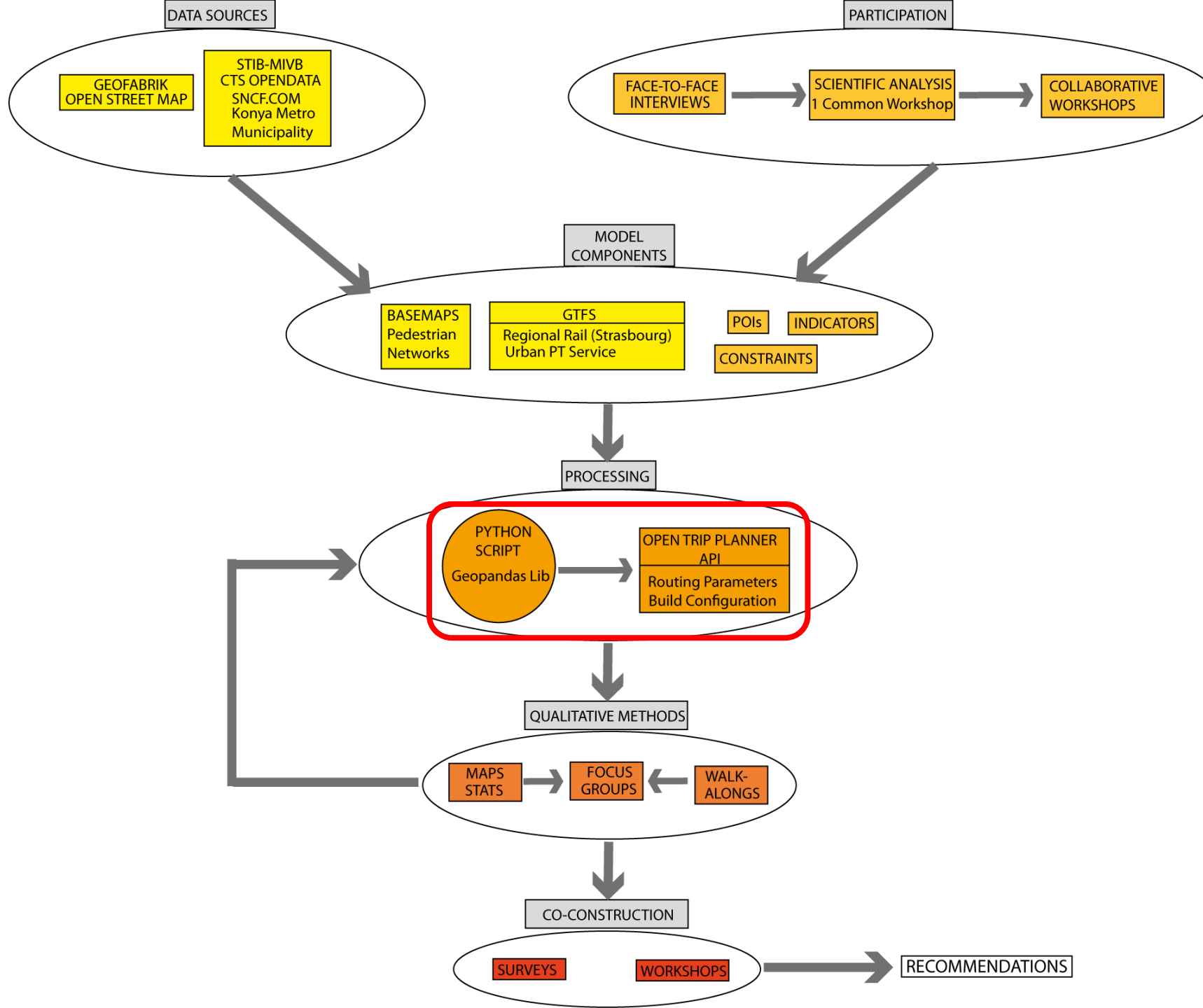


Procedural Justice (Participation)

How inclusive and participatory is decision-making and governance of PT in terms of identifying problems and implement solutions?

AUTONOMY?

UNIVERSALISM?

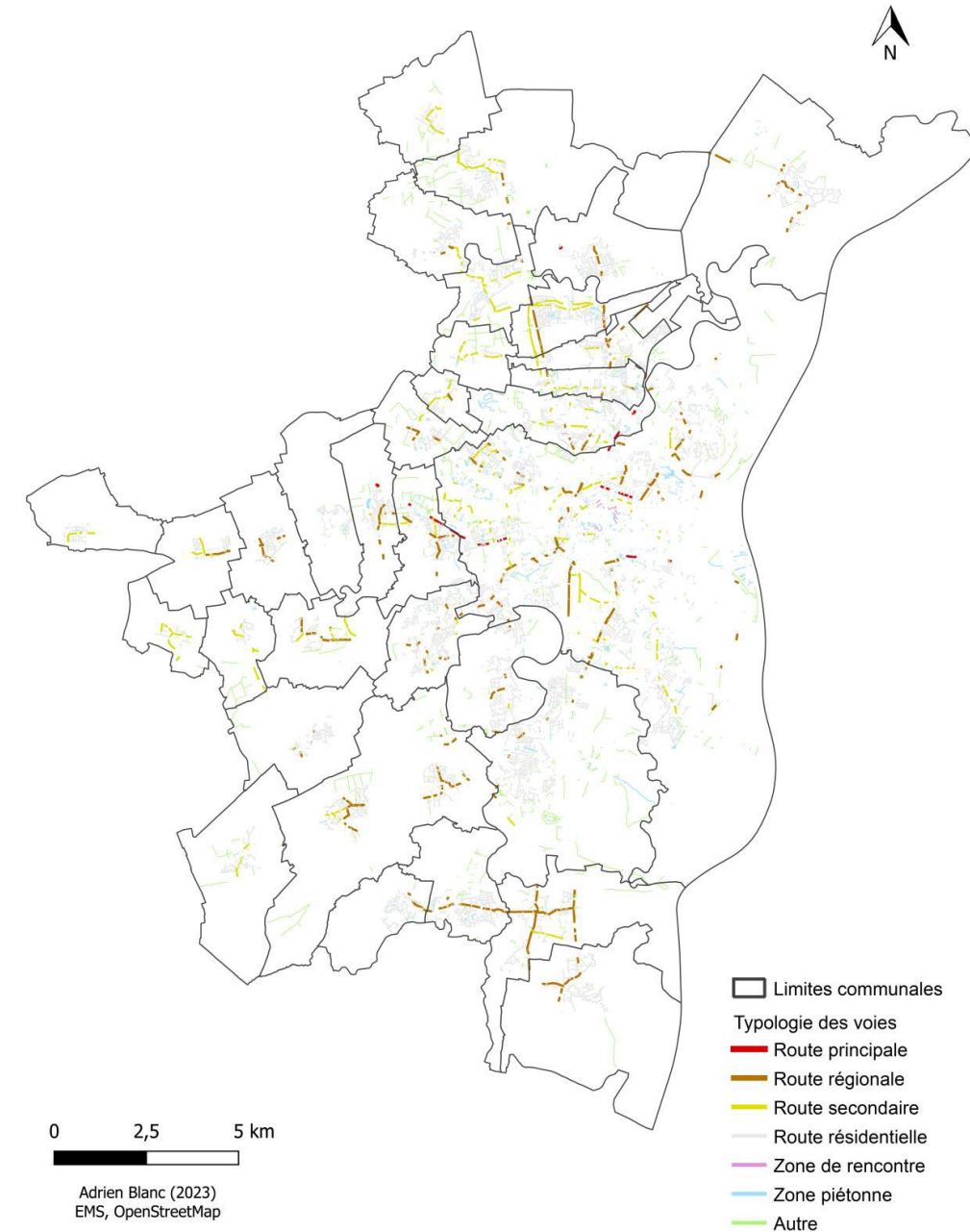
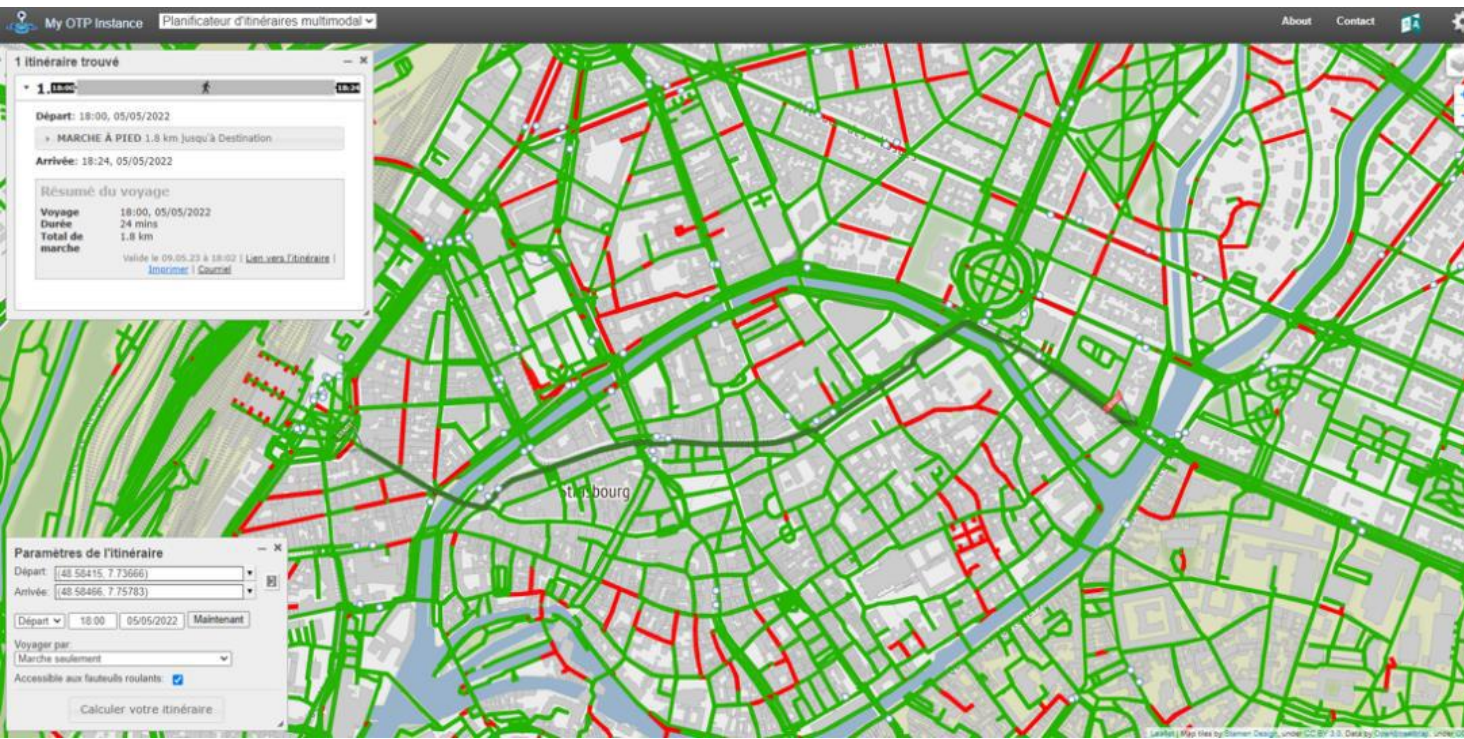


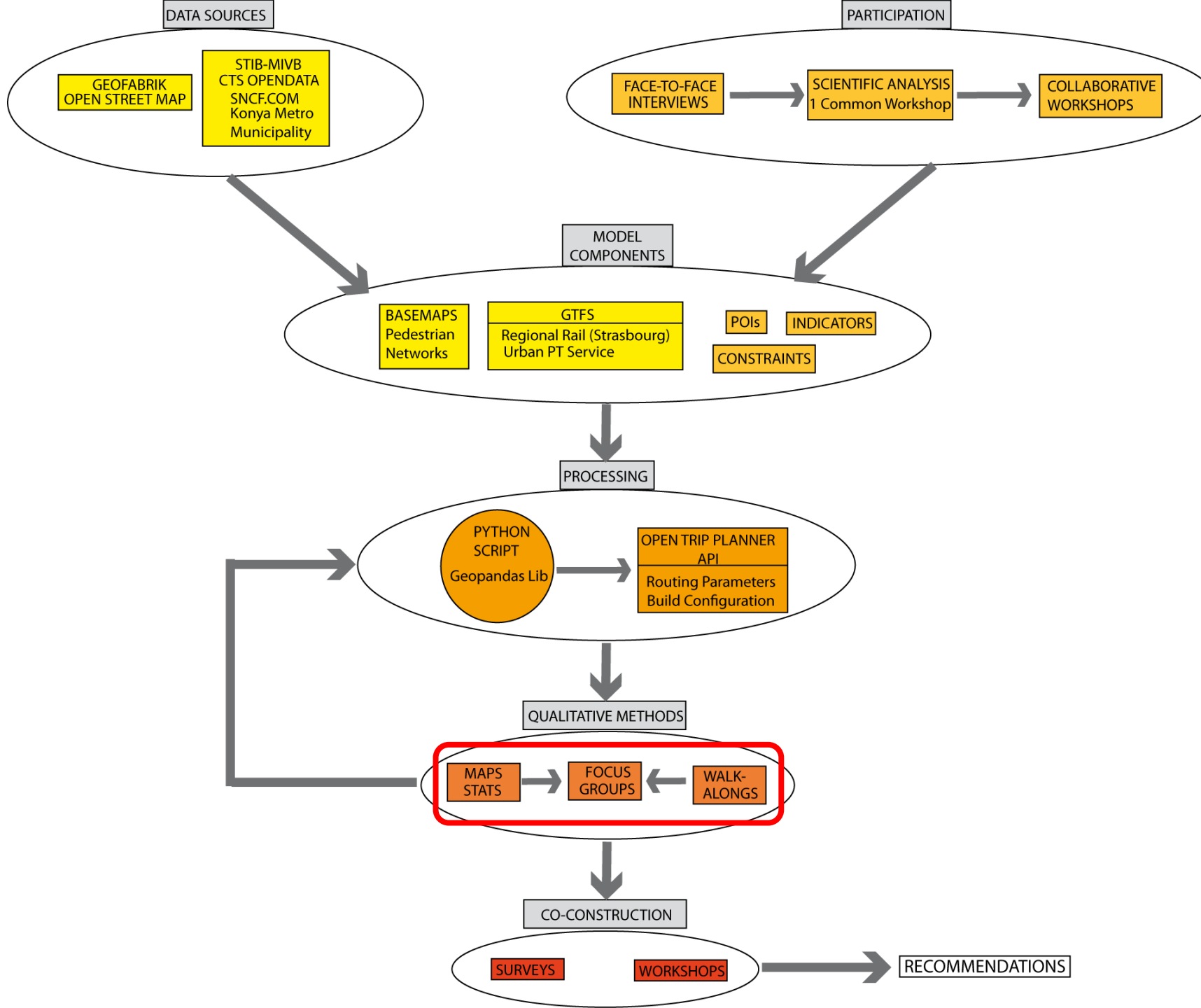
Methods & Data

Inaccessible Streets for the Wheelchair users



- OSM Basemaps
- GTFS: urban PT + Rail (Strasbourg)
- Accessible stations, vehicles (Brussels), and sidewalks (Strasbourg)





Qualitative Methods: Measuring and Expressing

- 72 go-alongs in the 3 cities
- 3 Focus Groups

→ Refinement of the measures
→ Building profiles
→ Express not possible to model
barriers

Urban Fabric

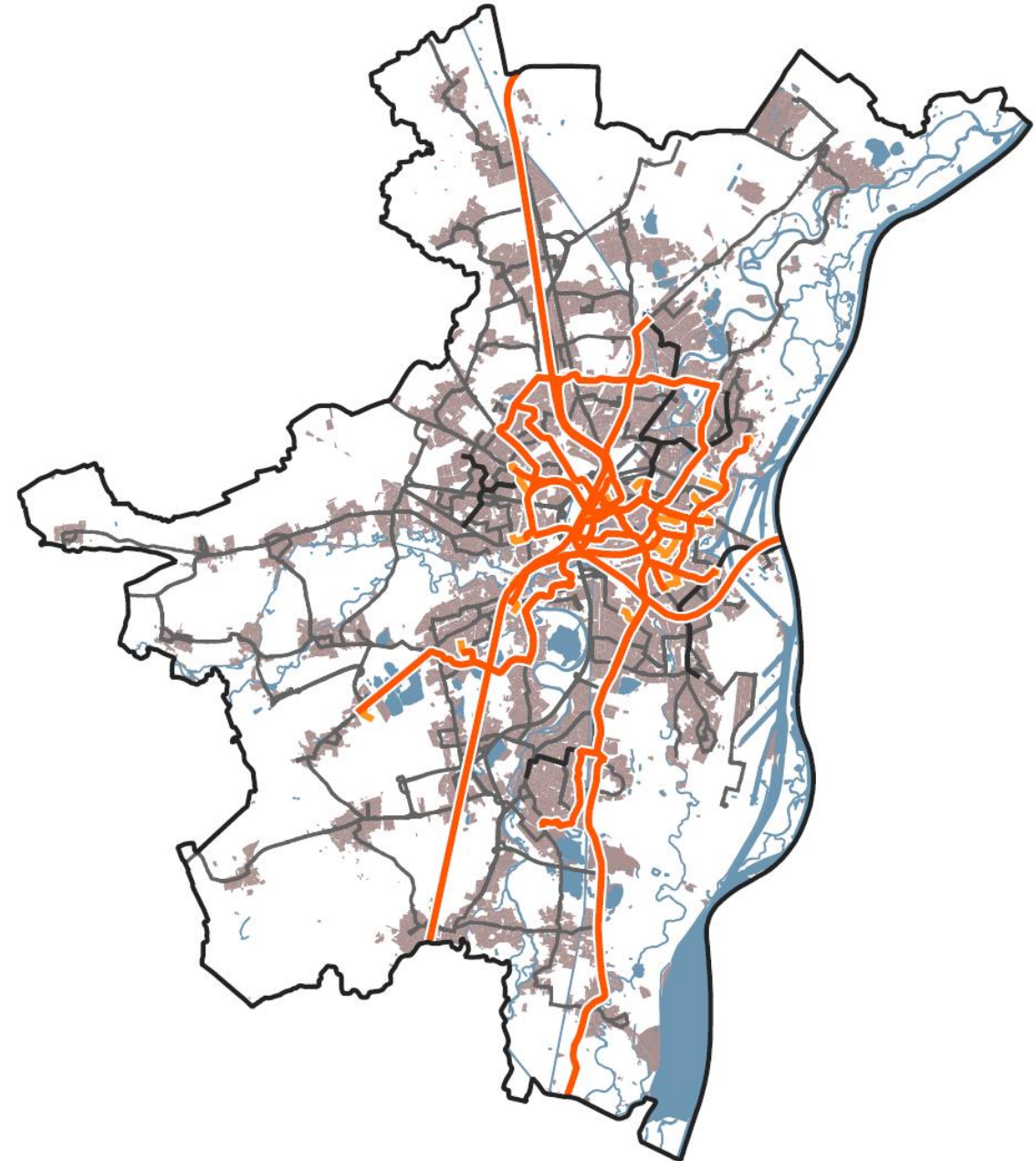
- Built areas
- Water bodies

PT Network

- tramway
- bus

Go-along routes

- PT
- Walk to/from PT



Justice Project
Sources : DataGrandEst, CTS
Realization : Olivier Finance

EARLY RESULTS

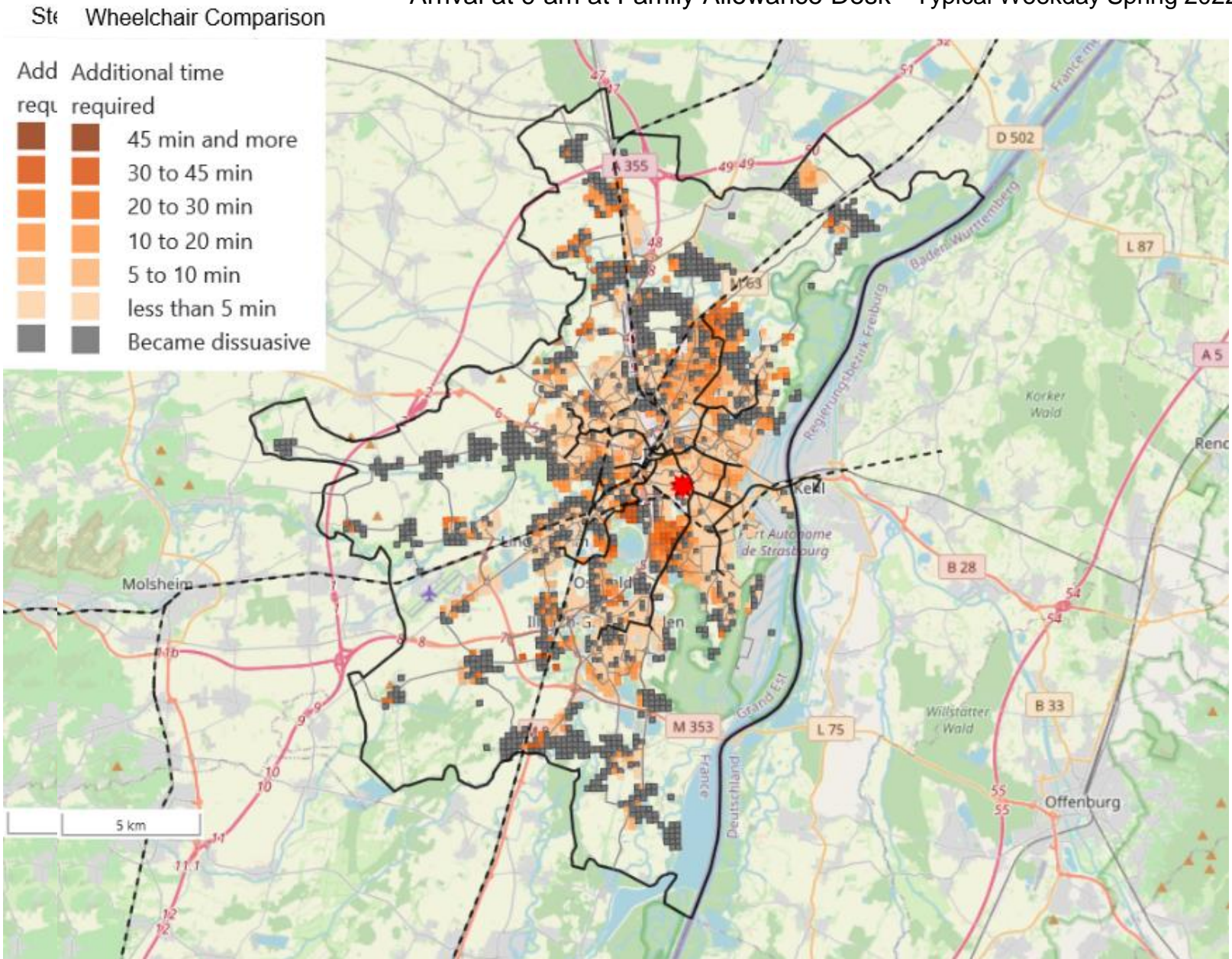


JUSTICE
3 cities • 4 audiences

Credits (photographies): Mehmet Samil ÖZRENK (KBB), "Atomium" by Nan Palmero from Flickr.com (CC-BY), "Les quais Strasbourg" by Pierre Bn from Flickr.com (CC-BY)

Measured Accessibility (Strasbourg)

Arrival at 9 am at Family Allowance Desk - Typical Weekday Spring 2022



Expressed barriers (Strasbourg)

Roadways

High Sidewalks
Signs for obstacles
Dangerous Crossings

Transit Service

Frequency
Range of operating hours

Rolling Stock

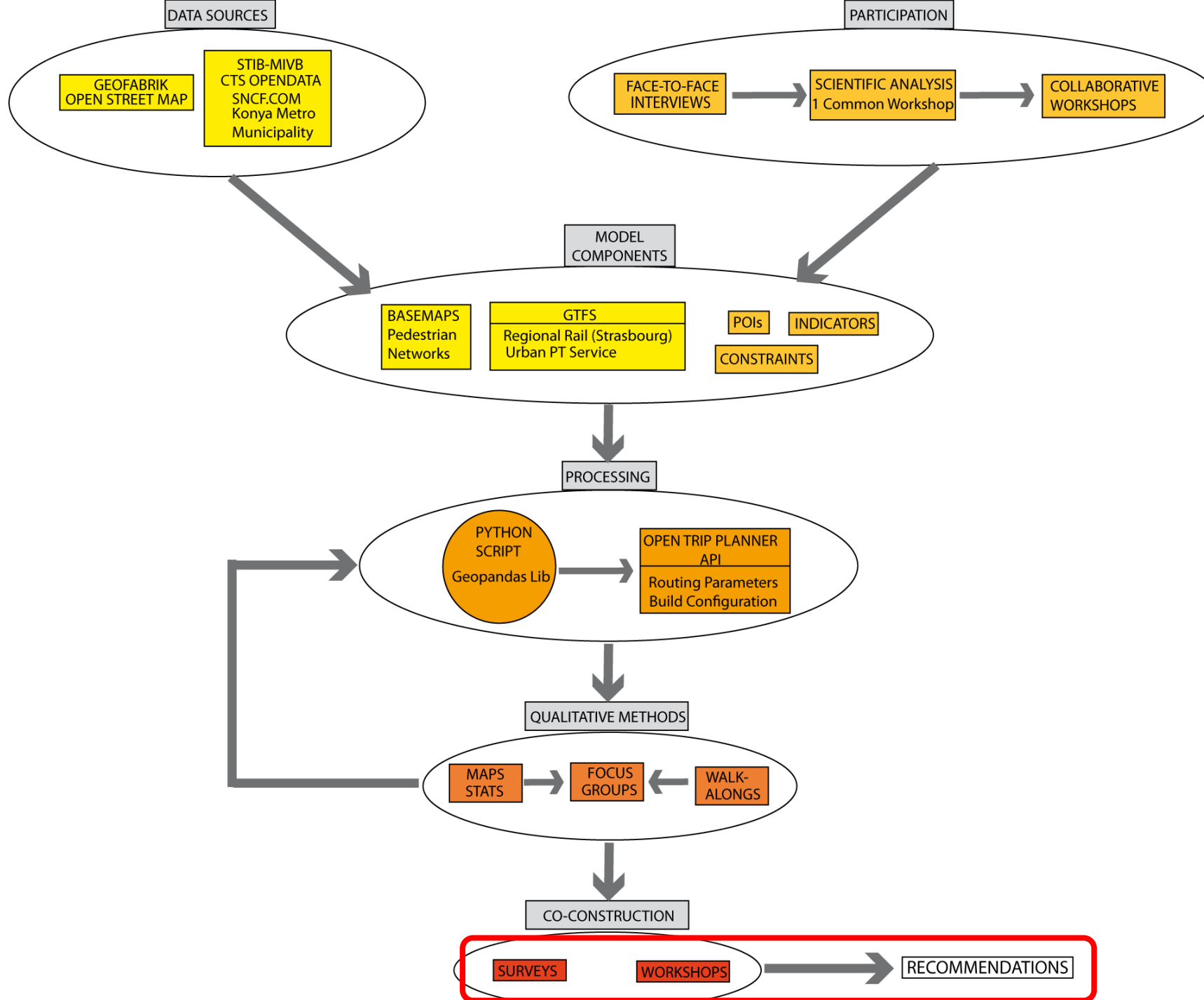
Number of handholds
Door opening

Citizenship

Bus drivers way of driving
Consideration for fragile groups

Information

Voice announcements number on platform
Voice announcements sound level on vehicle
Apps
Screens in vehicles or in stations



Co-Creating Workshops

January – March 2024, Brussels - Konya - Strasbourg



Actions (Konya)

Kiosks to allow disabled people to report their presence at the bus drivers

40 buses & 3 bus stations equipped thanks to the JUSTICE project



Conclusion

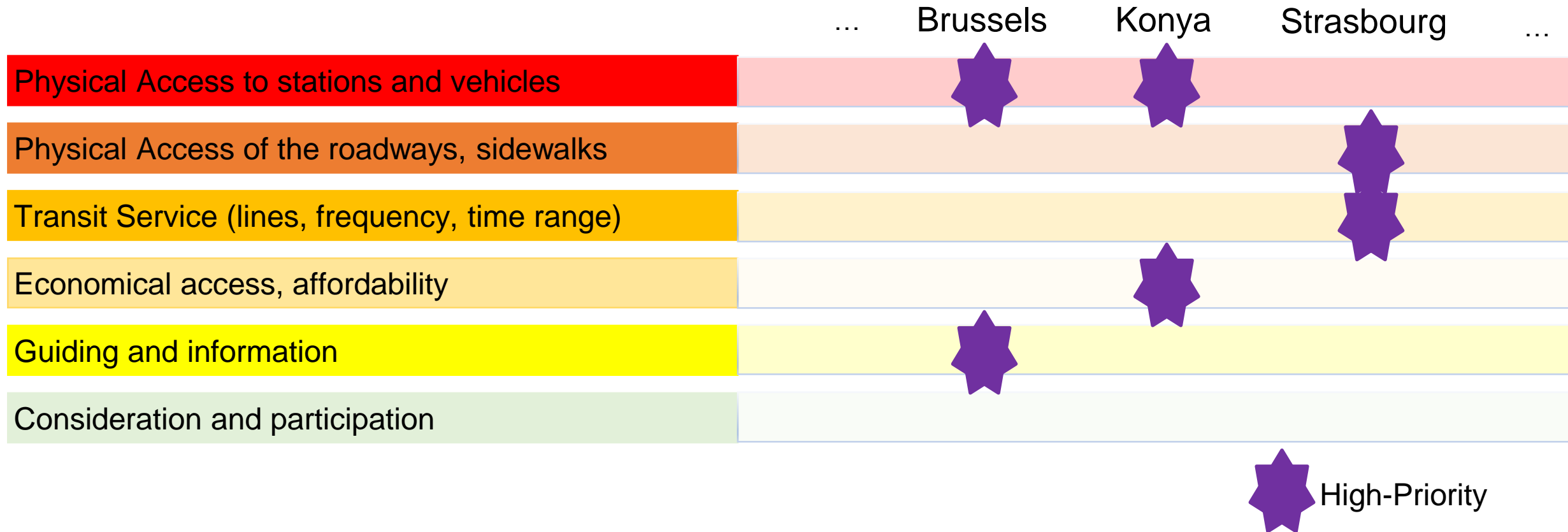


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What is an inclusive city policy?

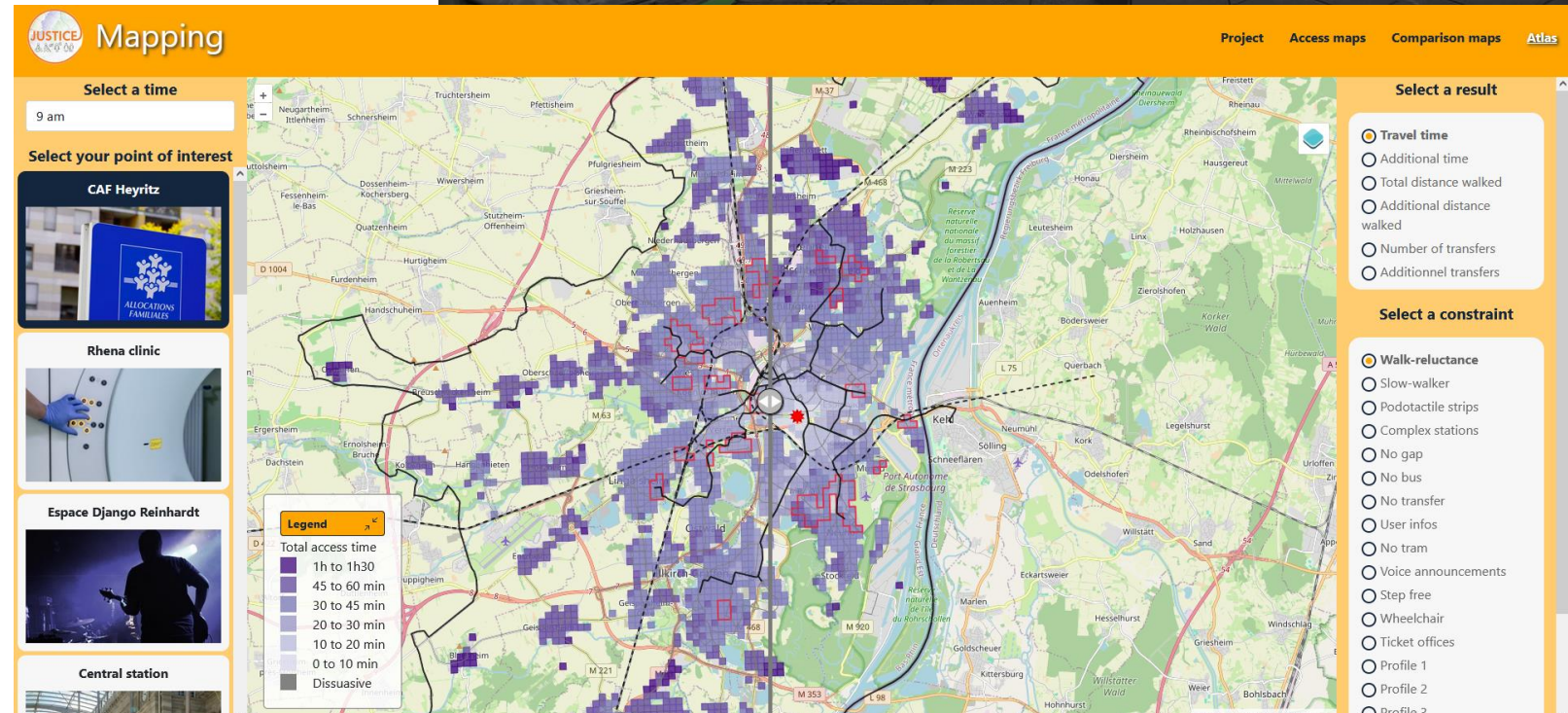


Public Transit Accessibility Strategy



Dissemination

- Film
- [Atlas](#)
- Final Event April 24th



THANK YOU FOR LISTENING!

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JUSTICE
3 cities · 4 audiences



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