# Smart Urban Mobility

: shifting into peopleoriented development

(Lessons learned from Indonesia)

CALD Smart Mobility Conference Khon Kaen, 25<sup>th</sup> October 2024

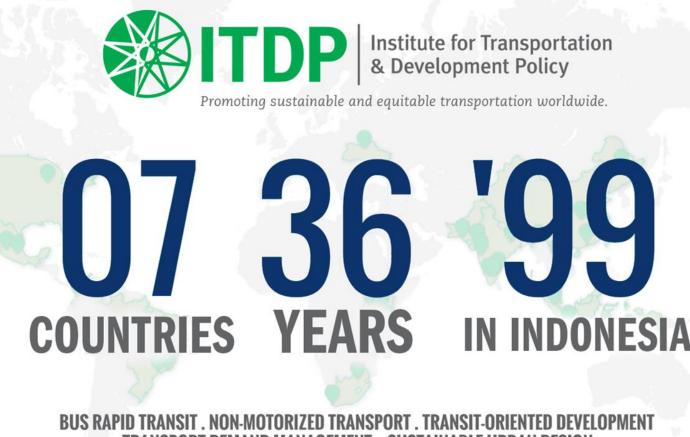




Presented by Gonggomtua Sitanggang, ITDP Southeast Asia Director gonggomtua.sitanggang@itdp.org



# Introduction to ITDP



TRANSPORT DEMAND MANAGEMENT . SUSTAINABLE URBAN DESIGN

itdp.org | itdp-indonesia.org | @itdpindonesia

Institute for Transportation and Development Policy (ITDP) is an NGO established in 1985 in New York to create sustainable and equitable transportation in cities all over the world.

ITDP assists a number of Indonesian cities to move forward, related to these following issues:

- 1. Public transportation
- 2. Walking and cycling
- 3. Inclusive accessibility
- 4. Electric vehicle
- 5. Transit-oriented development
- 6. Transport demand management
- 7. Sustainable urban design



### Introduction to ITDP





# Why Should Cities Shift?

Understanding justice mobility and cities for all



### **Cities for All**



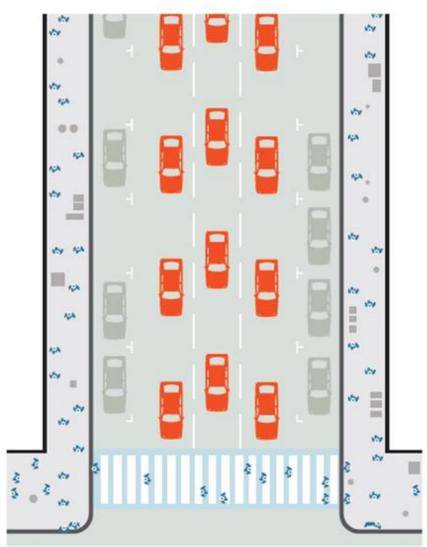
Cities have land issues (e.g. land scarcity). Streets are considered as public goods and public spaces. However, in many cities, streets are alocated more for vehicles and leave not enough room for people to mobile and access their essential needs.

> **"All"** means: All **abilities** All **ages** All **users** All **income classes**

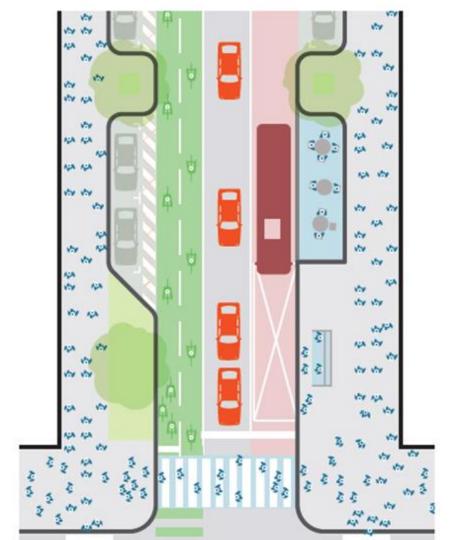


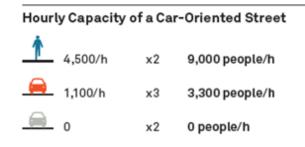
# **Stop Moving Cars**

**Car-Oriented Street** 



#### **Multimodal Street**







Total capacity: 12,300 people/h

Total capacity: 30,100 people/h"

Source: NACTO Global Street Design Guide, 2017



# **Start Moving People**

Streets should let **people** to move and be able to **access** their needs. To be able shifting to moving people, the cities' decision makers should understand how people, their citizen, mobile in the city and how they **interact with the spaces**.

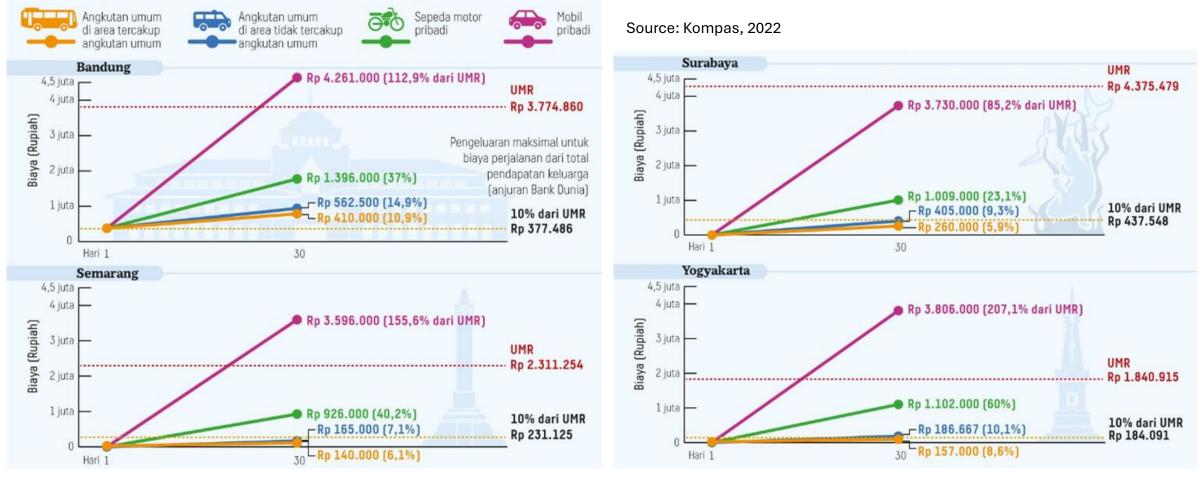
Allowing system in the cities to learn and understand the mobility patterns and address the needs of **vulnerable groups** is the key. It will include **walking, cycling, and public transportation**.





### **Justice Mobility**

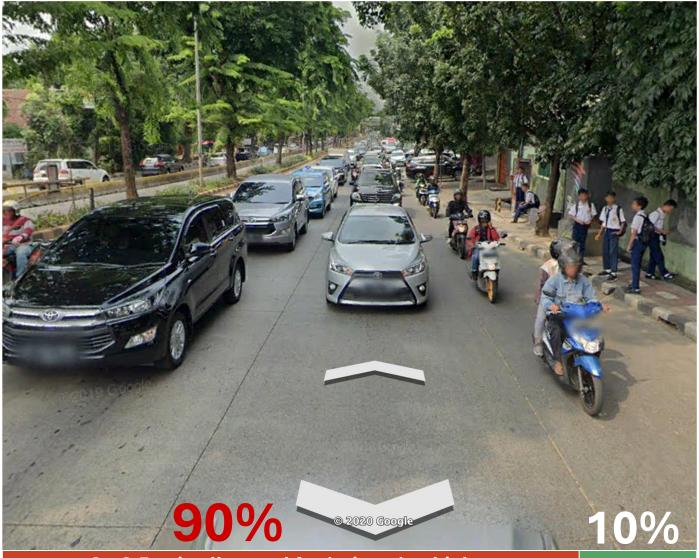
#### Biaya Perjalanan Berdasarkan Jenis Moda Angkutan



Based on surveys conducted by Kompas in 2022 in 4 cities in Indonesia, it is shown that a person with motorbike spends **3.5x** higher per month for transport cost and it is **15x higher** for a person with car compare to public transport user.



# **Injustice Street Allocation**



#### 3 x 3.5 m is allocated for (private) vehicles

1.2 m sidewalk

People with monthly salary People with monthly salary under minimum wage same or above minimum wage ₽₽₽₽₽₽₽₽₽ Pedestrian ŤŤŤŤŤŤŤŤŤŤ Cyclist Public transport user Motorcyclist nananananan Car user

9 of 10 pedestrians and cyclists in Greater Jakarta identified from low-income society.
However, the streets planning and allocation do not favor to these vulnerable groups.

Source: Statistik Komuter Jabodetabek 2019

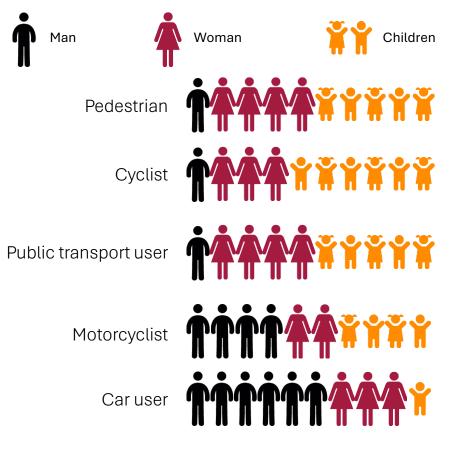


# **Injustice Opportunity**



#### 3 x 3.5 m is allocated for (private) vehicles

1.2 m sidewalk



Majority of **active mobility actors and public transport users** in Jakarta are **women and children**. The condition of injustice street allocation will result to **unsafe mobility** environment and it will lead to **inaccessible public facilities and opportunities**.

Source: ITDP's survey in 24 Kampung Kota Jakarta, 2020



# **How Do Cities Shift?**

Redefining "SMART" in the implementation of smart city development



# Data to Plan, Monitor, and Evaluate



Disaggregated Data

**Pedestrian Counting** 

**Cyclist Counting** 

Tap In – Tap Out

**Route Preference** 

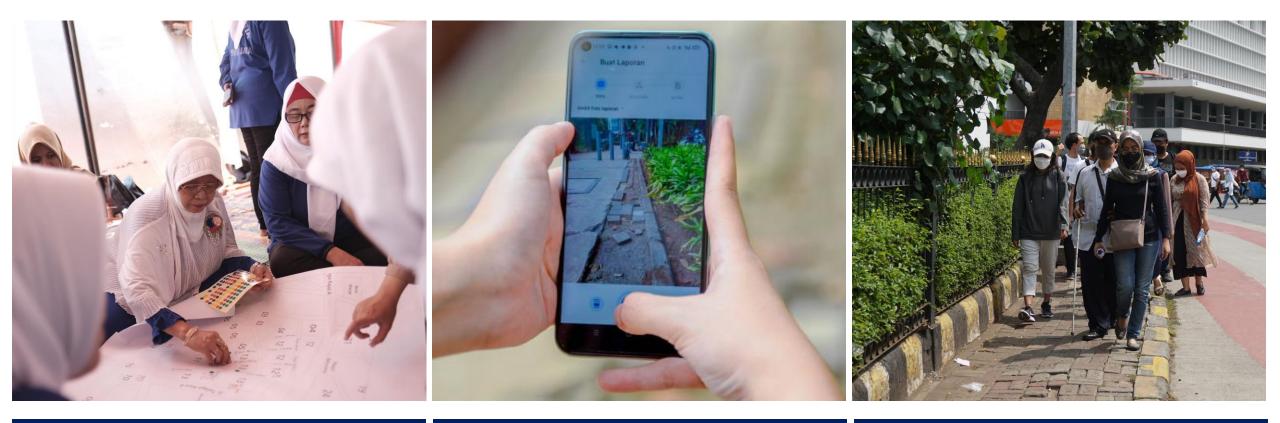
Land Use

**Road Safety** 

Public Transport Performance



### **Enable People to Collaborate**



Co-planning & Co-design

Citizen Report

Co-audit



**Expected Results** 



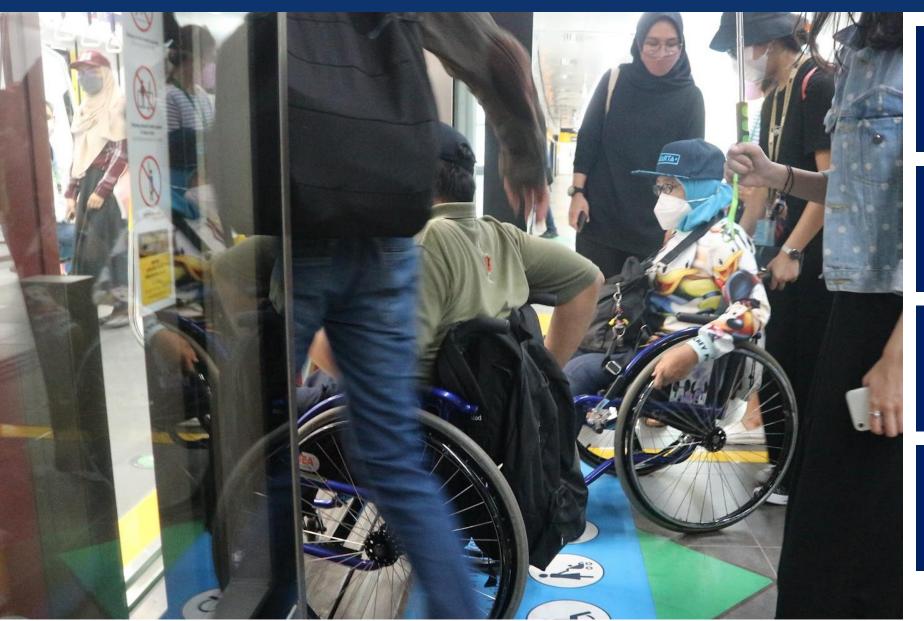


# What Are Next?

Identifying opportunities and follow-ups







Strong commitment & political will is needed

It is long, continuous, and iterative process

There is a need for adoption to regulation and/or policies

Do not forget to scale-up pilot or tactical urbanism projects









- **ITDP indonesia**
- **y** @itdpindonesia

