





# Global Future Cities Programme

Bandung Integrated Public Transport System

14 October 2021



# BACKGROUND AND OBJECTIVES



# Local Strategic Planning (RTRW, RPJMD, RENSTRA)

RTRW 2021 -2041 Bandung City: Public transport development

### RPJMD 2018-2023 Bandung City→

"To improve the City's liveability and sustainability through infrastructure development and land use control"

One of strategies in the target indicator for "traffic congestion" is:

Developing an integrated public transport network system and environmentally friendly transportation

Renstra 2019 – 2023, City Transport Agency:

97% Bus fleets and 'angkot' in decent condition;

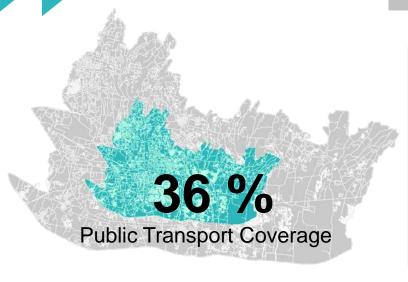
21% public transport mode share





Providing access to safe, affordable, accessible and sustainable transport systems for all.

# CURRENT CONDITION





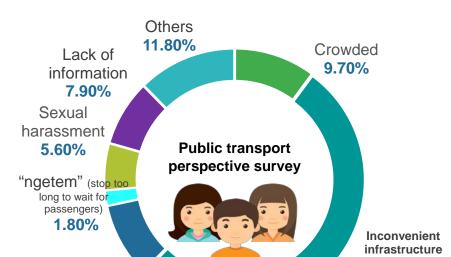


**Operation hour:** 06:00 – 18:00

Route : 5 route Headway : 20 min Ridership : 6.8 pax/bus

**Op. hour** : 05:00 – 23:00 **Route** : 36 routes **Headway** : 3 min

Ridership : 1.8 pax/fleet



Lack of facilities 8.90%



Women travel longer distance with public transport more than men

50.00%



**Peak hours:** 08.00 and 16.00-20.00

Cycling and

Walking

Ride hailing

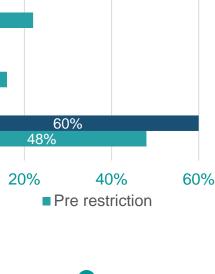
**Public** 

Transp.

**Private** 

vehicle

Kids and students
Most likely to use transit
because bus routes are
limited



PREFERRED MODE OF TRANSPORTATION

19%

14%

10%

0%

■ Restriction

16%



Disabled people prefer to use ride hailing services



# **EXPECTED IMPROVEMENTS**

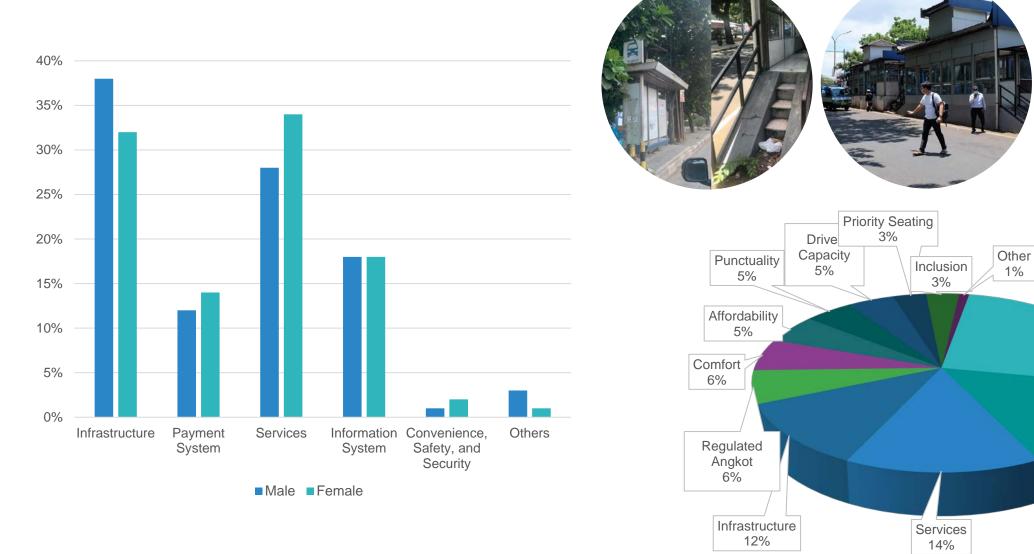
Integrated

System

25%

Safety

15%



**Public Transport Improvement Components** 

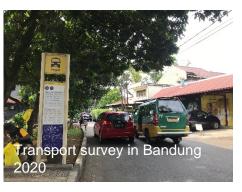
Source: GFCP Survey 2020

# Shift to integrated and sustainable transport

## Gradual, ongoing, and structured approaches

Baseline	Shift to integrated transport planning
Focus on traffic	Focus on <b>people</b>
Main target: traffic flow and capacity	Main target: <b>accessibility and livability</b> , including social justice, environmental protection, and economic growth
Focus on types of modes	<b>Focus on integrating available modes</b> and planning toward sustainable mobility
Main topic: infrastructure	<b>Combining</b> infrastructure, market interest, regulation, and promotion
Sectoral planning	Consistent planning at regional level and multidisciplinary planning
Short and medium term	Short term and medium-term plan reflected in the long-term vision and strategy
Done by sector experts	Collaborative, participatory and transparent planning

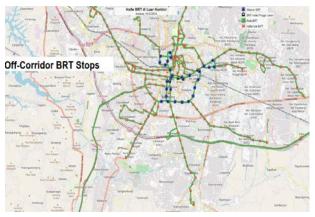




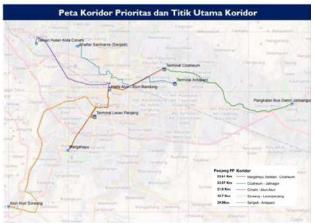




# MAJOR PUBLIC TRANSPORT PROGRAM IN BBMA



# Jarak Antar Stasiun Kereta Cepat Jakarta - Bandung 1 Halim Ground Station Arrival & Departure 2 Karawang Elevated Station Intermediate Station Intermediat





### **Bus Rapid Transit Corridor**

- 169 km
- 12 BRT Routes
- 31 stations
- On & Off Corridor Service Plan with dedicated lanes and mixed lanes

### **High Speed Railway Jakarta - Bandung**

- 142.3 Km
- 4 stations with 2 within the BBMA
- 2023-2025 operational plan

### **Buy the Service Corridor**

- Bus operation assistance programme by the Ministry of Transport
- 5 routes in BBMA
- 240 stations
- Bandung City Centre as the main hub

### BBMA Urban Railway (LRT/Monorail)

- 8 routes in BBMA
- Mostly service Bandung City feasibility study completed
- 64,000 pax/day for Stage 1 operation

"Improving public transport system in Bandung City is imminent and contributes to the success of major public transport services in the Metropolitan Area"



# FOCUS

During mobility restriction, there still be a core public transport passenger – reliance on public transport



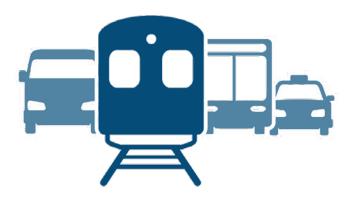
Occupancy drop 40 -70%

Slight preference reduction between pre and post restriction: 16% - 13%



Key expectations: improved service, good infrastructure, and reliable information system

### Investing in public transport is vital for Bandung City development



To address congestion problems

To contribute to regional development success

Bandung is at the centre of an important public transport reform delivered through major mass transport development in Bandung Basin Metropolitan Area for 2023-2025









deliver assistance in the development of low carbon public transport strategy.

**GFCP** Bandung

intervention could also



How Bandung GFCP Intervention assists (5 mins video)





# Challenges

- Mobility and direct engagement restriction undermines angkot operators engagement and substantive community participation
- Public transport system is not prepared to be pandemic resilient
- Local budget is prioritised for economic recovery
- Current financial institutions cannot be accessed by angkot industry to fund their fleet improvements
- Digital system vs access to smart mobility
- Transport GHG emission data has not yet informed in Bandung transport strategic plan

# **Opportunities**

- Bandung is at the centre of an important public transport reform delivered through major mass transport development in Bandung Basin Metropolitan Area for 2023-2025
- Opportunities to introduce carbon baselining to access green financing for sustainable transport
- Development green transportation modes in Bandung

# LOW CARBON TRANSPRORT STRATEGY

**Task 1.1** 

Local

Context

This year, Indonesia will play an important role as a co-chair along with the UK in the COP26 Conference which will be held in Glasgow, next November. COP26 is the United Nations (UN) Summit focusing on climate change. This is in line with the vision of the City of Bandung, as stated in the RPJMD the city of Bandung, which is committed to reducing emissions and being pro-environment.



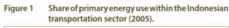
Task 1.2 Local context -Quantitati

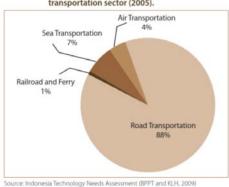
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Low carbon transportation strategy - Activities

Task 2 Carbon Baselining

Task 3 **Transport** option for Bandung





In developing countries, transportation is the largest and fastest source of greenhouse emissions

### What does Low carbon transportation strategy mean?

- Providing reliable infrastructure and services
- Safety and accessible for all
- Reducing short and long term negative impacts on local and global environment



"This study will assist Bandung City to explore various options for Low carbon transportation strategies that are most suitable for Bandung, as well as increase awareness of the challenges of climate change in the future"

### Findings – SWOT Analysis

### Strenaths

Good digital connectivity Traffic Control System **Emission testing** Tourism/Culture/Education

Existing campaigns (including climate change programme)

Existing sustainable transport infrastructure

### **Opportunities**

Cycling behavior Improvement of Public Transport Pedestrian Improvements **Travel Demand Management** Incentives and disincentives (changes in policy) Advanced technology and new modes

### Weaknesses

Integration between modes Limited public transport services Lack of policy alignment

Quality and accessibility of transport network

Topography

Limited public transport services

Lack of policy alignment

Congestion

### **Threats**

Financial capacity and budgets Strategy not integrated Climate resilience Recovery from Covid-19 Changing Behaviour Decarbonizing power sector





