Intermodal Integration: How Transjakarta Improved Urban Mobility

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Population Density of Greater Jakarta Area

DKI Jakarta
Area: 661.5 km²
Population: 10,467,600

Greater Jakarta
Area: 6,342.7 km²
Population: 27,957,194

Source: Badan Pusat Statistik
Visualization: Transjakarta, 2019
Old Days of Jakarta Public Transport

- Improper facilities
- Over load capacity
- Audacious driver
- No proper stop

Established in 2004 as BRT

Source: thejakartapost.com
Source: detik.com
Source: ITDP-Indonesia
The Story of Transjakarta BRT system

We started from this….

BRT Trunk-only system, No integration with other services

..and after 15 years has expanded to these services
Jakarta BRT Evolution

2004
Corridor 1 Blok M – Kota as trunk-only BRT

2008
Transjakarta runs closed network with 7 corridors

2013
Started to launch direct service routes

2016
Started to launch feeder services

2018
Integration between microbus and BRT

2017
Started to launch low floor services

2019
Integration with MRT, LRT and Microbus with AC
The Evolution of Our Network

**Trunk Only**
2004 - 2010

**Inter-Corridor**
2011 - 2015

**Integrated System**
2015 – Today

13 Corridors with 212 routes
8.3 out of 10 Jakarta Residents Have Access to Transjakarta

83% of total population of DKI Jakarta is served by Transjakarta within 500-meter radius

72% of DKI Jakarta area as wide as 474.9 km² is served by Transjakarta

13 Koridor BRT

212 Rute Regular + 7 Seasonal

51 BRT Route and Night Period
12 Transjabodetabek Route
7 Jakarta City Tour Routes
61 Integrated NBRT Routes
21+2 Public Housing Services + Free Service Line
45 Micro Bus Feeder
13 Transjabodetabek Premium Route
7 Annual Route
Jakarta Bus Public Transport Business Model

PT Transportasi Jakarta
Operated since 2004, became Regional Owned Enterprises in 2014

• Partnership with private bus operators
• Use flat rates Rp3,500 (0.3USD) and free services for segmented passengers (accounted for 30% of total passengers)

Pay the Service by Kilometer

Meet the Service Level Agreement

Big Bus, Medium Bus, Microbus Operator

KOPAMILET
BUDI LUHUR
KOLAMAS
KOMIKA
LESTARI SURYA
3581 fleet operate in Transjakarta system

**BRT Fleet**
- Articulated Bus: 290
- 13.5-m (Maxi Bus): 269
- 12-Meter: 901

**Non-BRT Fleet**
- Double Decker Bus: 28
- Low Entry Bus: 289
- Medium Bus: 410
- Microbus: 1394
TransJakarta Integration: from MRT to Microbus

Jak Lingko Fare Scheme

First Mile

- Microtrans
- BRT
- MRT

Last Mile

- Microtrans
- BRT

Jak Lingko

Max. Rp5,000 (0.3 USD) ✋ In 3 hours
TransJakarta Passengers and Corridors

- Number of Corridor
- Annual Passengers

Year: 2004 to 2018

- Annual Passengers
  - 2004: 0
  - 2005: 0
  - 2006: 0
  - 2007: 40,000,000
  - 2008: 60,000,000
  - 2009: 80,000,000
  - 2010: 100,000,000
  - 2011: 120,000,000
  - 2012: 140,000,000
  - 2013: 160,000,000
  - 2014: 180,000,000
  - 2015: 200,000,000
  - 2016: 200,000,000
  - 2017: 250,000,000
  - 2018: 300,000,000

- Number of Corridor
  - 2004: 0
  - 2005: 0
  - 2006: 0
  - 2007: 2
  - 2008: 4
  - 2009: 6
  - 2010: 8
  - 2011: 10
  - 2012: 12
  - 2013: 14
  - 2014: 16
  - 2015: 18
  - 2016: 20
  - 2017: 22
  - 2018: 24
TransJakarta Passengers and Routes

Number of Routes

Annual Passengers


Number of Routes

Annual Passengers

0 20,000,000 40,000,000 60,000,000 80,000,000 100,000,000 120,000,000 140,000,000 160,000,000 180,000,000 200,000,000

Fleet Transformation

Before

Medium Bus
Poor condition, stops anywhere, polluting

Micro Bus
Stops anywhere, sometimes old fleets are still running

After

Medium Bus
More modern, stops at dedicated place, more environmental-friendly (400 integrated fleets)

Micro Bus
Card-reader on the dashboard, stops at dedicated place (800 integrated fleets)

Transjakarta also introduces low-entry buses that run off the BRT corridor and take passengers from bus stops located on the sidewalk.
The First Mile and Last Mile: Past and Present

**Past**
- No proper stop
- Hot
- Audacious driver

**Present**
- Stop at Bus Stop
- Air Conditioner
- Cautious driver
The Power of Microbuses as Feeder

69 Routes

234k Daily passengers

24.6% From the total of daily Transjakarta ridership
Integration with Other Public Transport

Bundaran HI MRT and Bus Station

Velodrome LRT Station and Pemuda Rawamangun Bus Station

Commuterline Cakung Station
Jakarta’s BRT passenger growth 2014 - 2019

Pax/Day

Source: www.brtdata.org
Transjakarta achievement, coverage area and passenger per day record

Jakarta traffic index decreases 8% based on Tom Tom Traffic Index

Jakarta receives Honorable Mention on STA 2020

Transjakarta Passenger per Day 2015 - 2019
All of Transjakarta’s
Thank you