

Bus Rapid Transit in Jakarta, Indonesia: Successes and “Lessons Learned”



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TransJakarta's BRT Characteristics

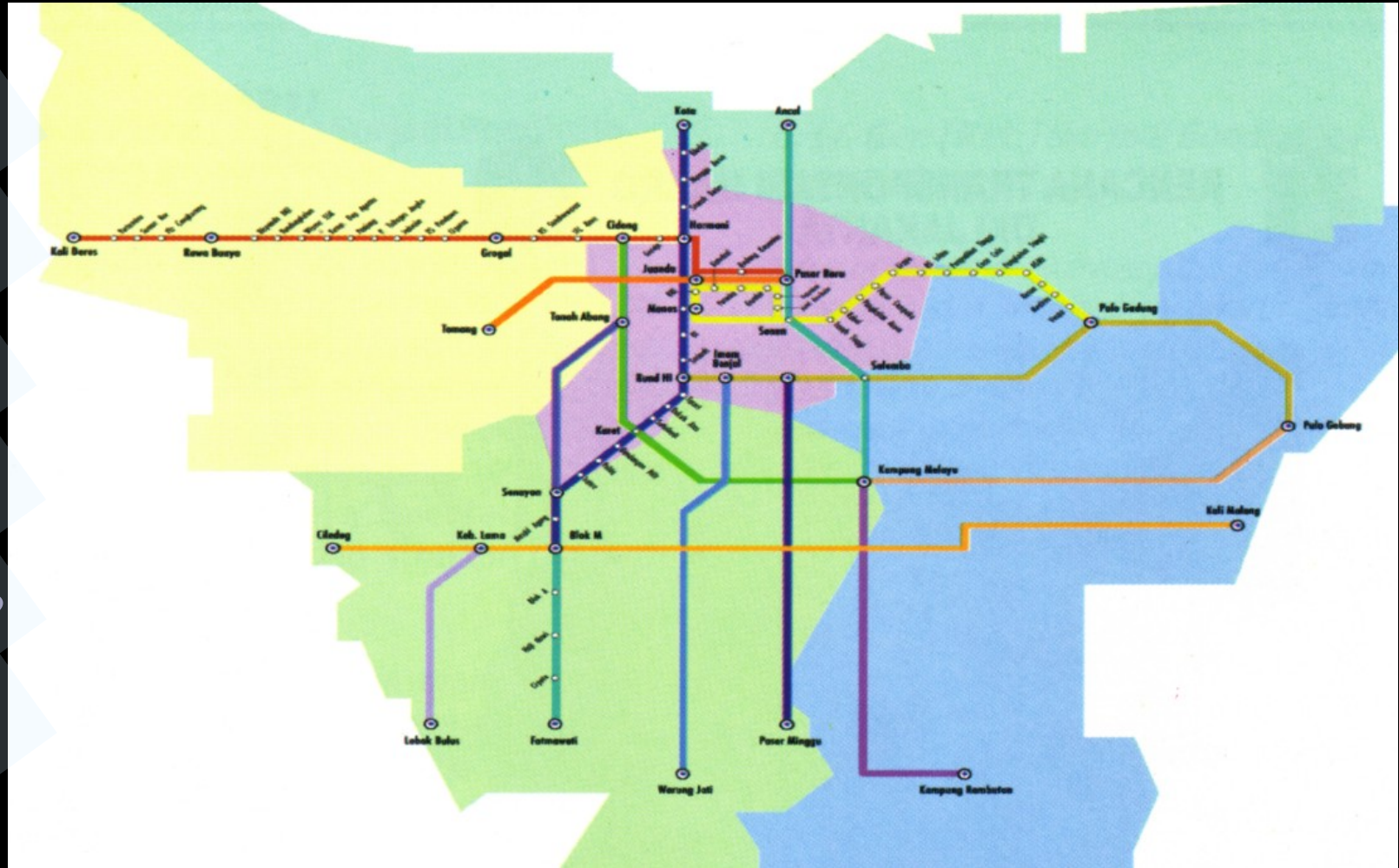
- 12.9 km trunk corridor on main corridor through city center
- 2nd Line Under Construction
- 14 Corridors Identified
- Fully physically segregated bus lanes
- Fare collection at enclosed stations rather than on bus
- Bus operator paid by the bus kilometer
- Bus operation is “private”





BRT Corridor 1 (& 2)

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Success
Problems
Lessons



Smart card fare collection

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Problems
Lessons



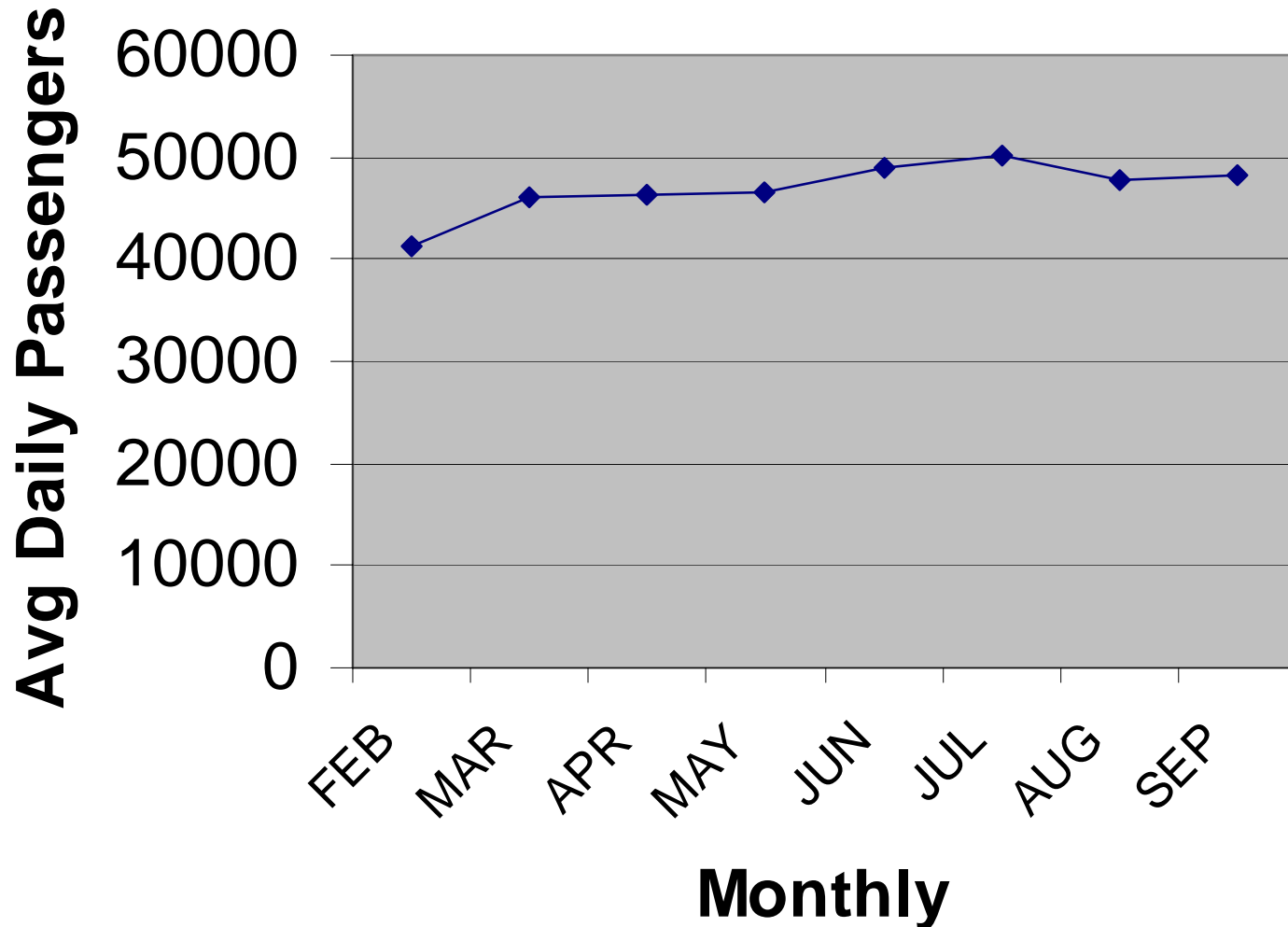
Success Points

- Implemented rapidly (8 months)
- Public supports
- 1-hour reduction in travel time at peak for TransJakarta passengers
- Operational cost covered by fare revenue after 6 months

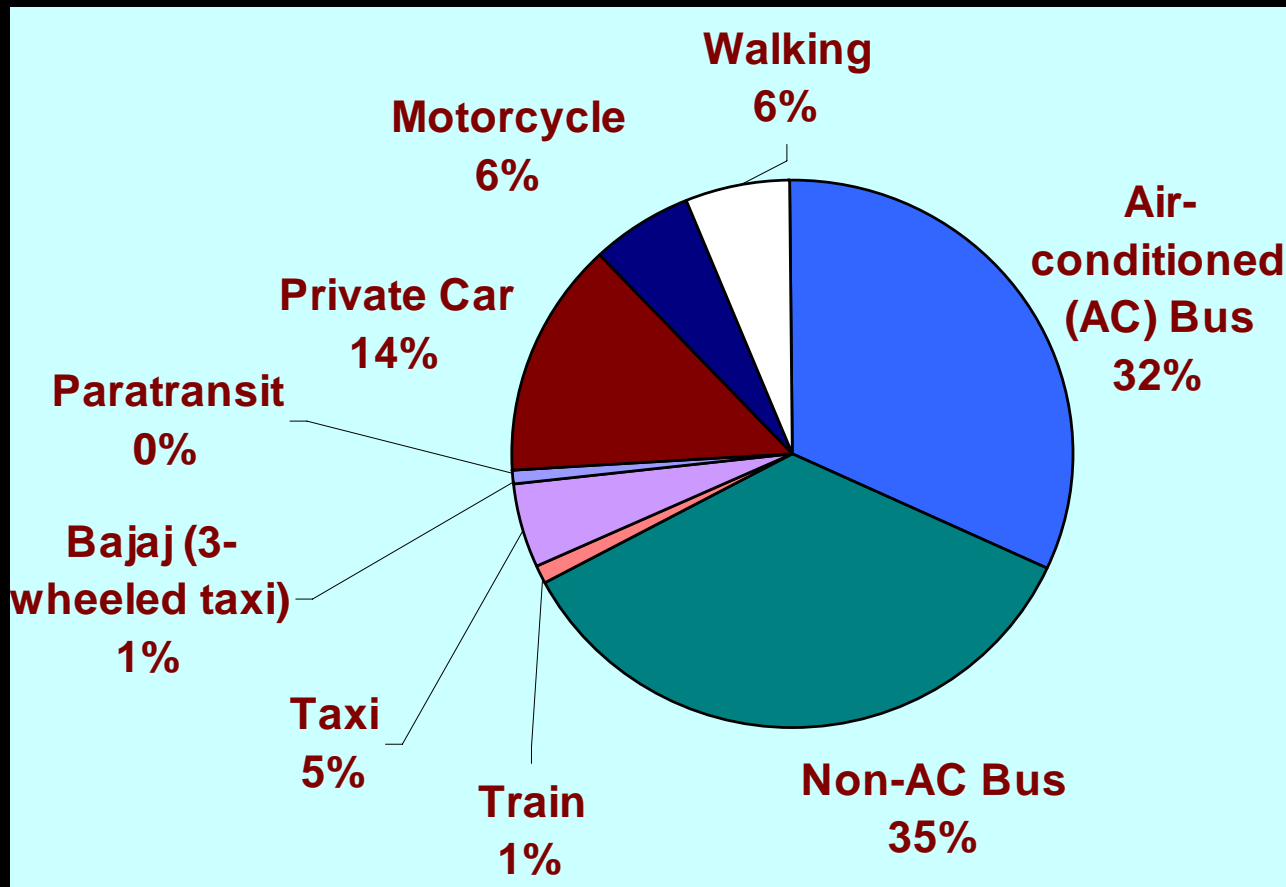


Political demonstrators, well-known for blocking traffic, let the busway through. Busway ridership surged during the 2004 campaigns.

2004 Ridership, TransJakarta



Previous mode used by BRT Passengers



That's a way to get us out of our cars!

(Even I used to drive in Jakarta!)

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TransJakarta Succeeded in Giving Public Transport a Better Image



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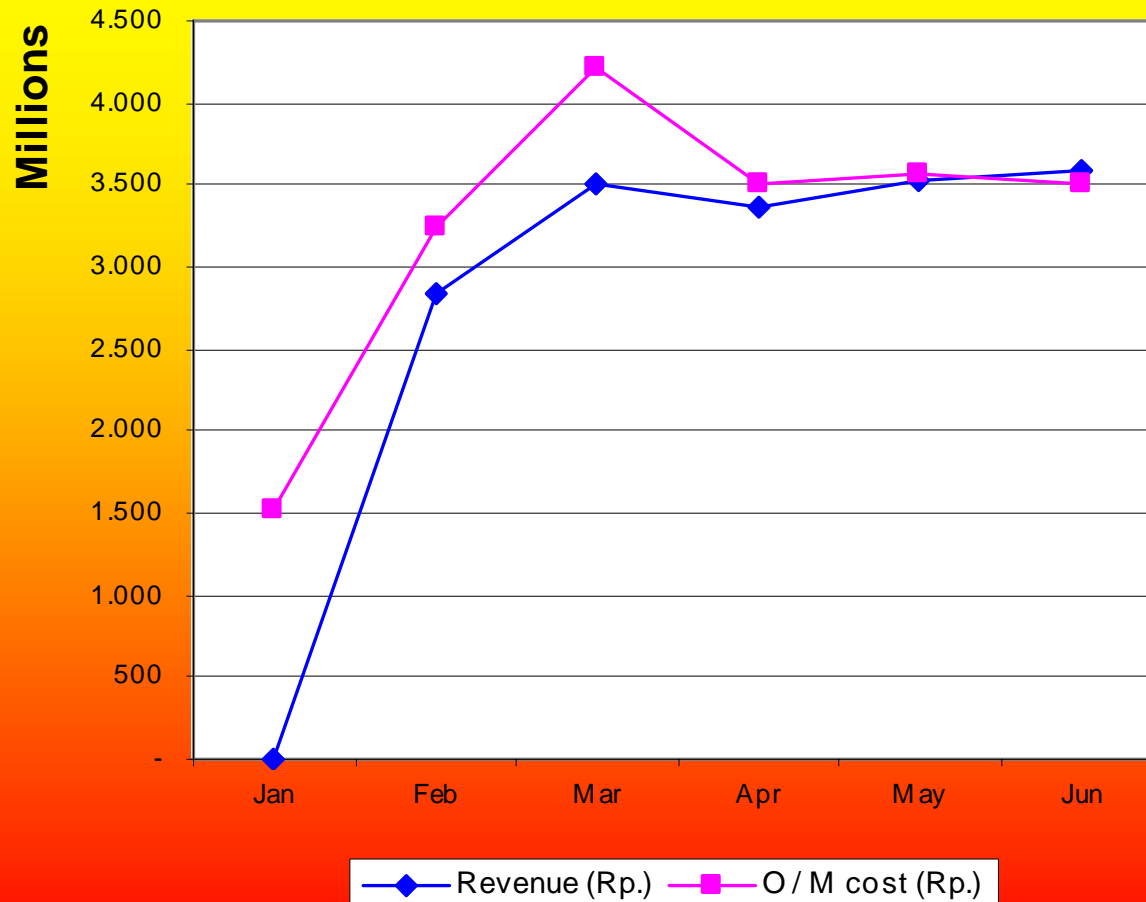


Security against pickpockets was a key to attracting upper and middle income

TransJakarta Breaks Even

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Annex 5: Revenue vs O/M cost



Governor Got Some Political Benefit (for better or worse)

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“Lessons”

- No clear or enforced structure of making decisions
- Contracting and procurement non-competitive and non-transparent!
- System was designed with no reference to potential demand.
- System capacity only 8000 pphpd when total bus demand in corridor was about 12000.
- System only captures 1/3 of potential demand.
- Ticketing system disfunctional and non-transparent

Institutional Issues

- Budget went through Department of Transportation. (DisHub)
- Nominal Authority was head of the busway coordination team (Tim Coordinasi). (ITDP input was to this body)
- All procurement, contractual, and ultimately technical decisions were made by DisHub. Influence of coordination team was not so strong.

Contracting Issues

- Bus Procurement done by government (DisHub) rather than private operators w/out competitive bid in non-transparent way. Price high and bus sub-optimal.
- Ticketing system equipment and software also procured by DisHub. The system is almost useless for fiscal control and ridership monitoring.
- Operating contract awarded w/out competitive bid to consortium of existing operators and govt owned taxi company. (operating cost/km are too high)

Problems w/ the Buses

- 12 meter non-articulated is too small
- 1 floor-level / platform-level door is too few
- Overweight, damaging the road and consuming too much fuel
- Cost too much
- Euro I (not exactly clean)
- Non-owner operated means maintenance is an issue



Station Issues

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Single door, single station at each stop dramatically reduces capacity



Designed to protect the bus, not the passenger . A few minor accidents.

Station design and operating schedule main capacity problem

- Bus queuing due to slow boarding times
- Also caused by weak schedule enforcement
- A passing lane and a second station at each stop could triple capacity



“Blok-M” Bus Terminal badly designed: a major bottleneck

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“Blok M” Terminal Alighting & Boarding Problems

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Success
Problems
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Fortunately, mistakes reasonably
easy to fix



Reconstruction at Blok M Terminal, Jakarta

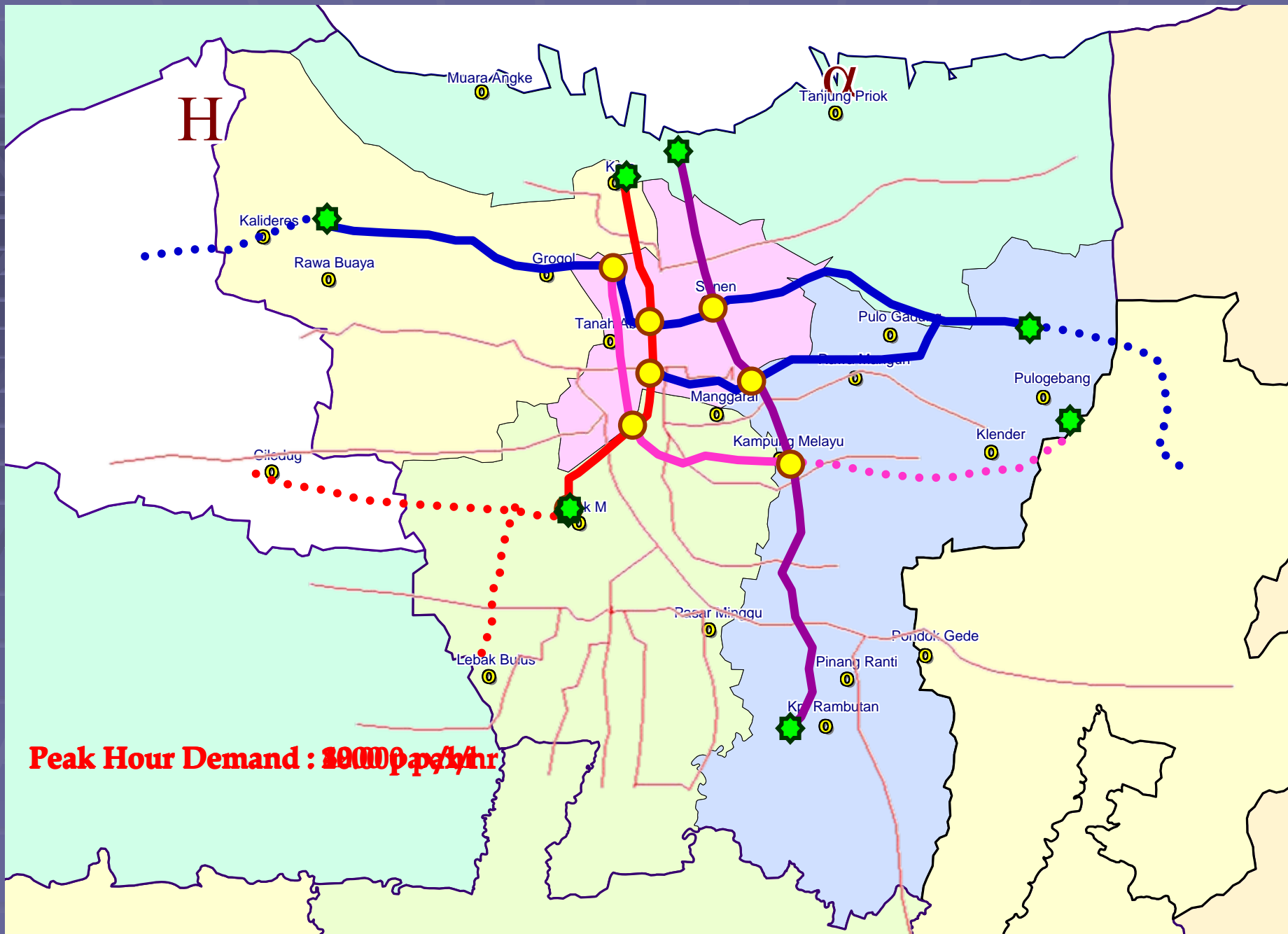
Kota terminal alighting & boarding

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Problems
Lessons



**Enforcement is good, but
roundabouts are difficult to control**





Pedestrian facilities



typical pedestrian ramp



primary route
from train
station to Kota
busway
terminal

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Pavement Damage: Should have used concrete and lighter buses

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Lessons Learned

- Essential that the decision maker empowers people who are technically competent
- Building supporting institutions and regulatory structure is more difficult than physical BRT design issues
- Public and local NGOs can play a role in pressing govt to fix problems