



Funding for Urban Transport Projects



Typical Urban Transport Projects

Large-scale Projects (>\$100 million)

- Rail-based Transit (MRT, LRT)
- Bus Rapid Transit (BRT)

Medium-scale projects (1-50 million)

- Pedestrian and access improvement
- Integrated ticketing system
- Bicycle Sharing system
- Cycle lanes
- Smart parking system

Small-scale projects (<1 million)

- Traffic calming
- Intersection re-design
- Safe to school routes
- Bicycle distribution

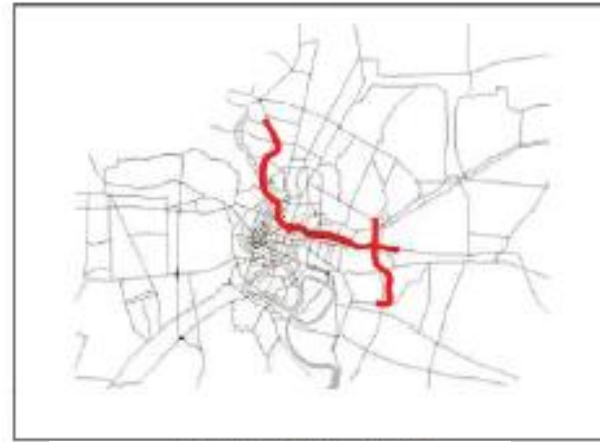
**Based on funding requirement*



What can you build with \$ 1 billion?



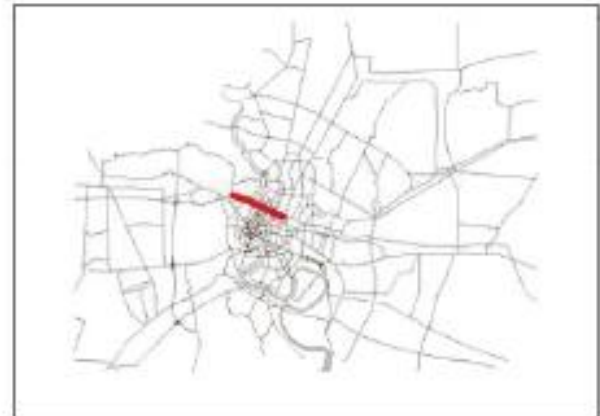
Koridor BRT 426 km



40 Km LRT



14 Km Elevated Metro



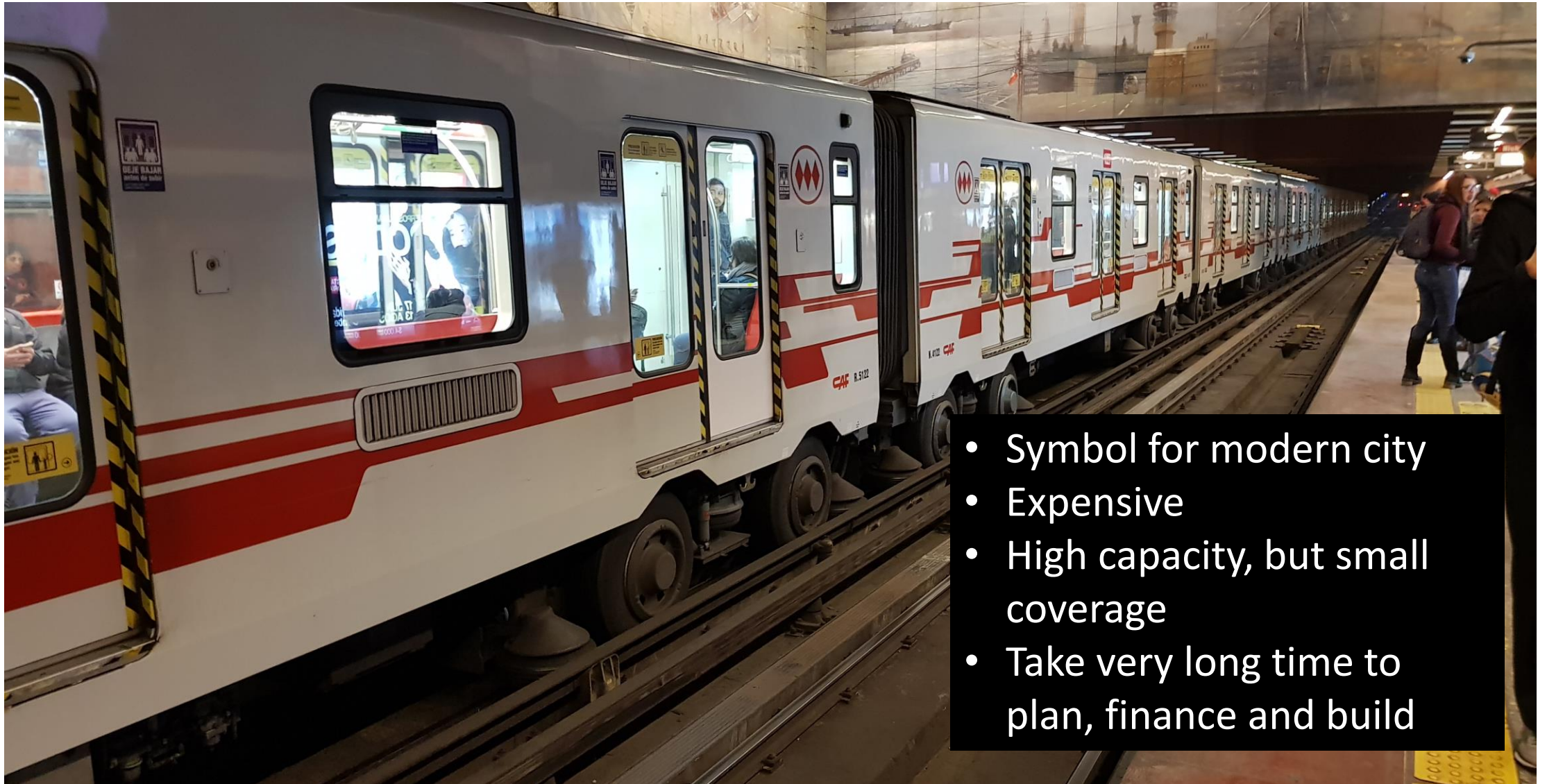
7 Km Underground Subway



Factors to select modes to fund

- **Sustainability** (operational, financial, environment)
- **Impacts to the city** (inclusive economic growth, coverage)
- **Bring wider benefits** (new opportunities, improve city's livability)
- **Improvement to existing business**
- **Implementation timeline**

Metro



- Symbol for modern city
- Expensive
- High capacity, but small coverage
- Take very long time to plan, finance and build



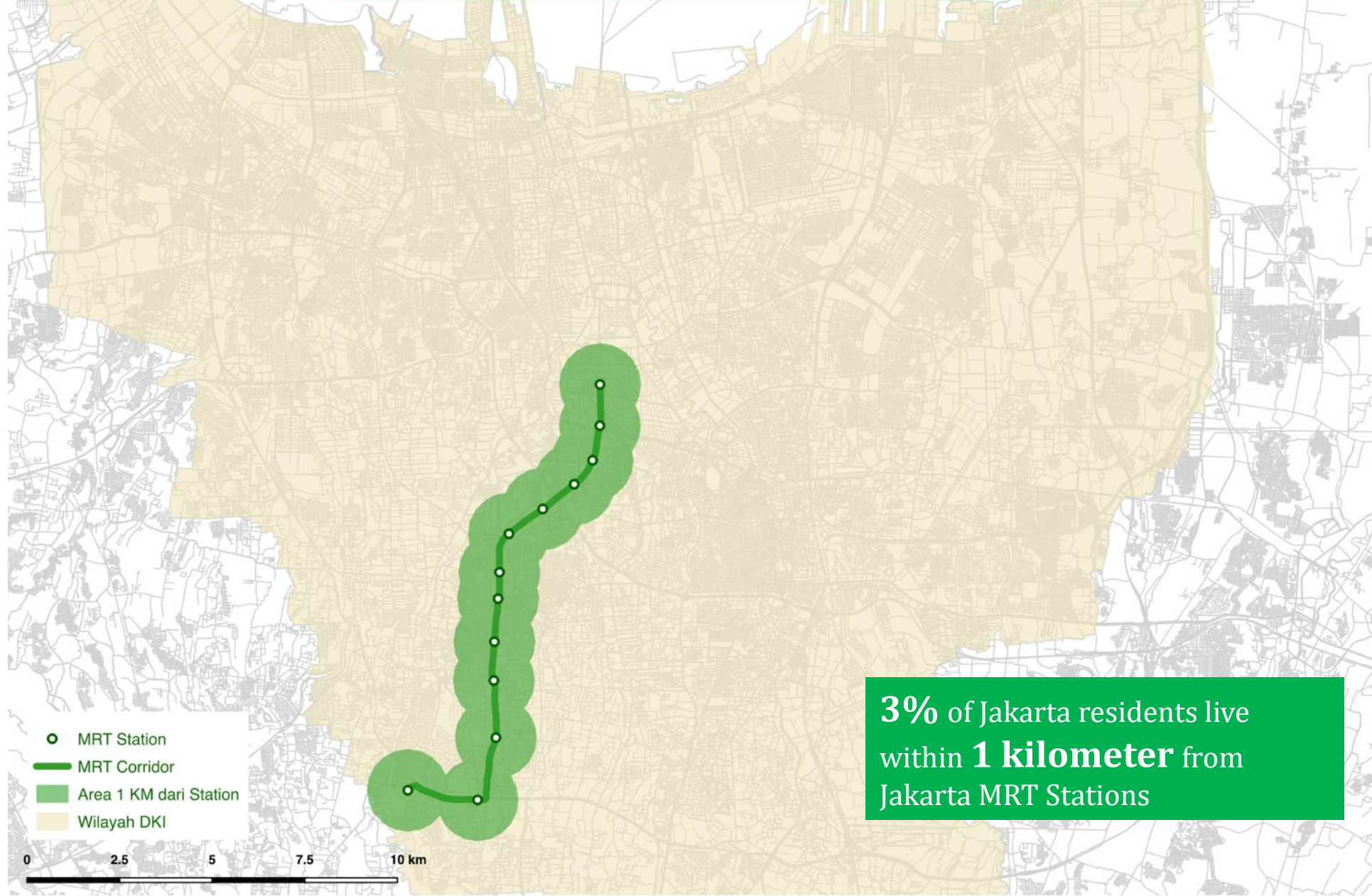
Bus Rapid Transit



- Shows equality on the road
- Affordable
- Wide coverage
- Integration with existing buses
- Relatively quick to implement

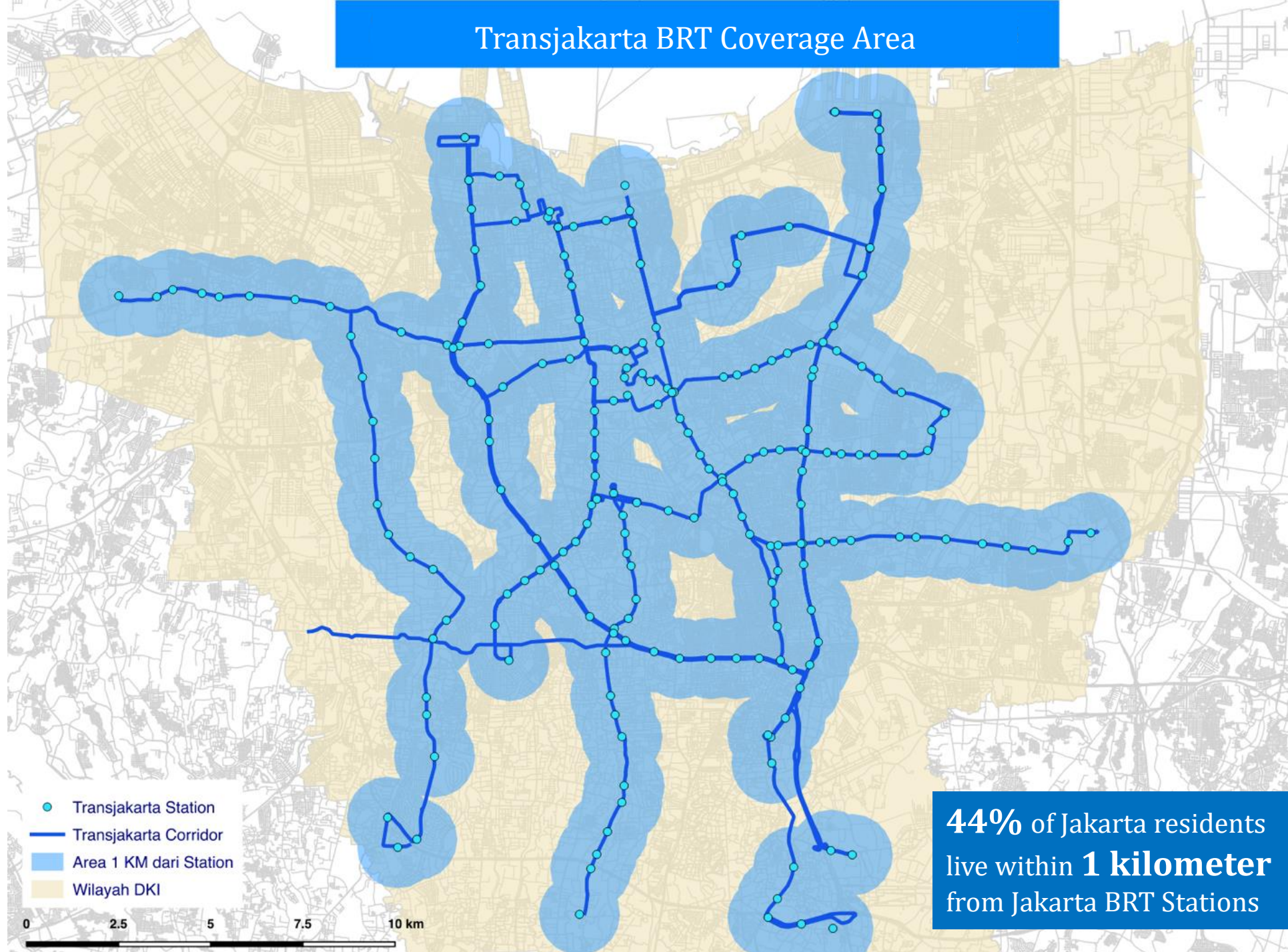


Jakarta MRT Coverage Area



3% of Jakarta residents live within **1 kilometer** from Jakarta MRT Stations

Transjakarta BRT Coverage Area



44% of Jakarta residents
live within **1 kilometer**
from Jakarta BRT Stations



World MRT Cities

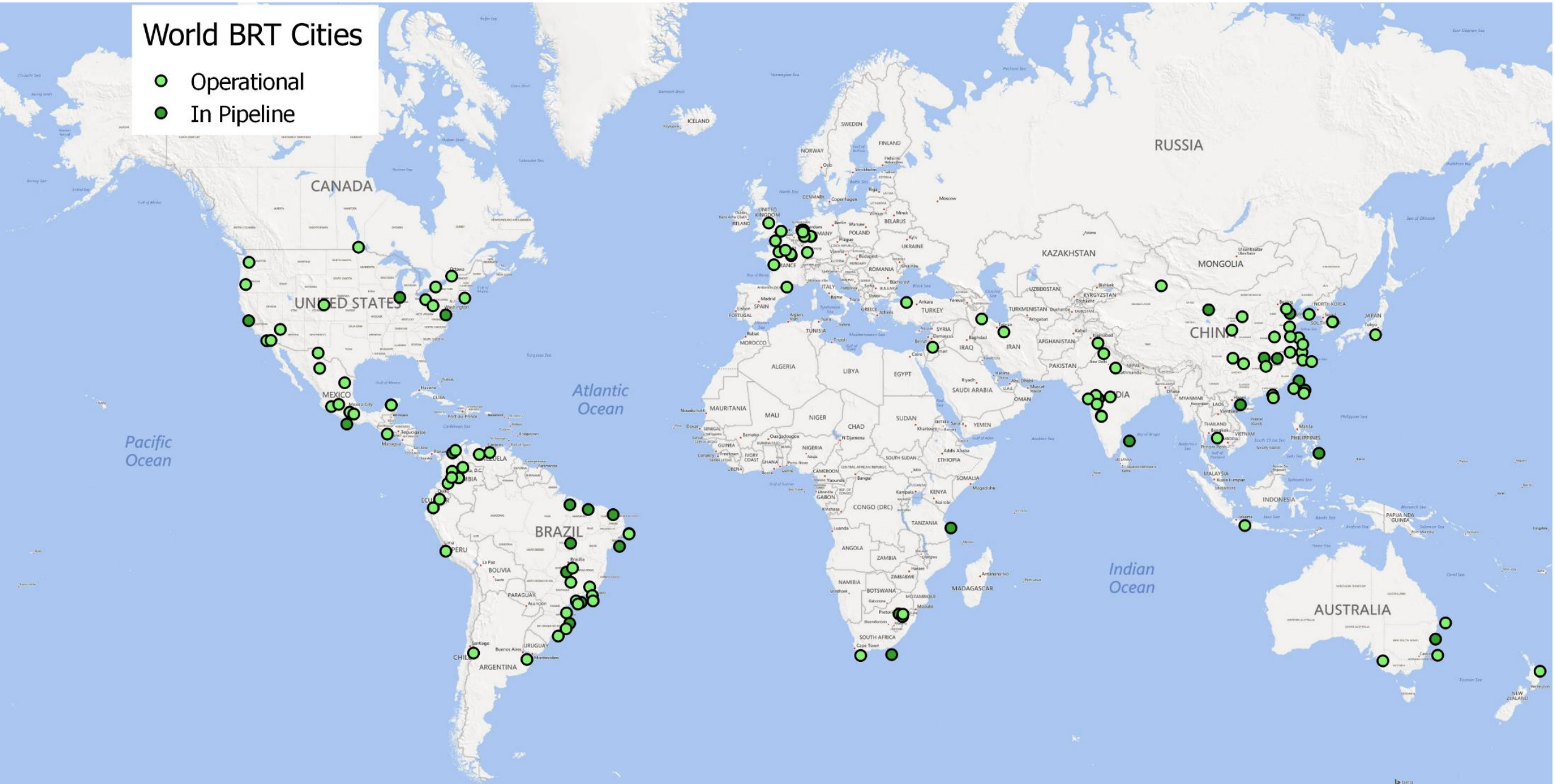
- Cities with MRT





World BRT Cities

- Operational
- In Pipeline



Components in Urban Transport Project



Funding for Urban Transport Project



Private
Investment

City Funding

National Funding

City Funding

City Funding

City Funding

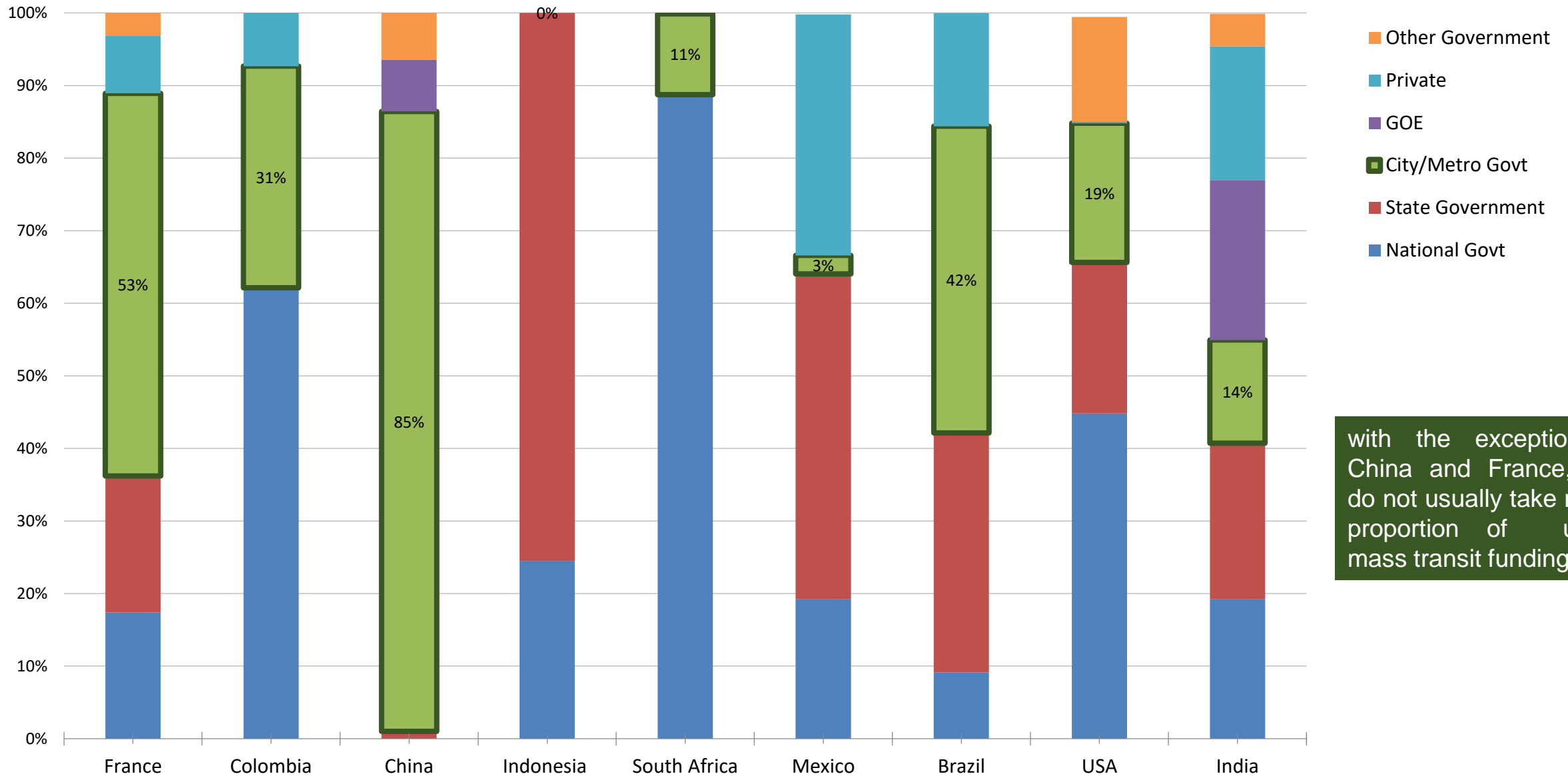
Private
Investment

City
Funding

Private
Investment



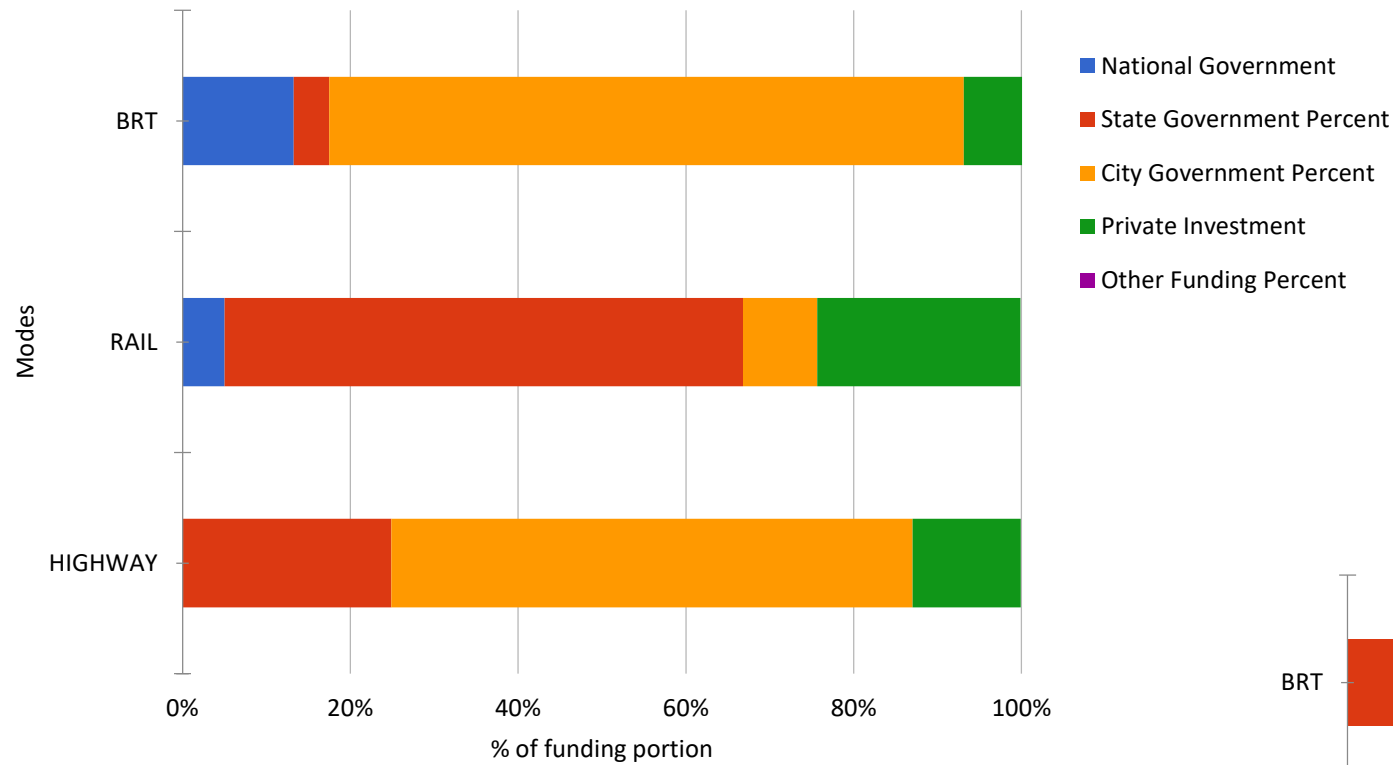
Sources of Mass Rapid Transit Funding



with the exception of China and France, city do not usually take major proportion of urban mass transit funding



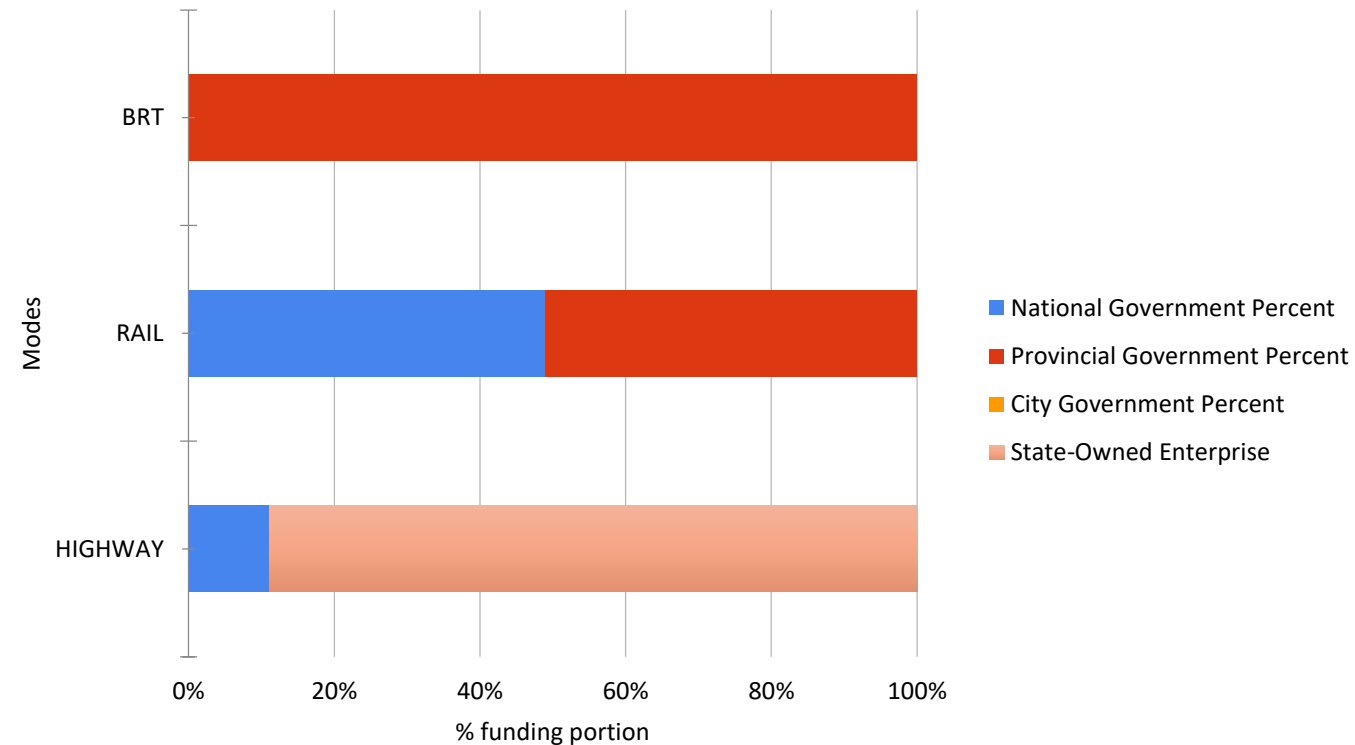
Funding Sources by Mode In Brazil



City funding capacity vs mode selection

Not many cities in Indonesia can fund mass transit projects, whereas Brazil has cities invested in BRT systems

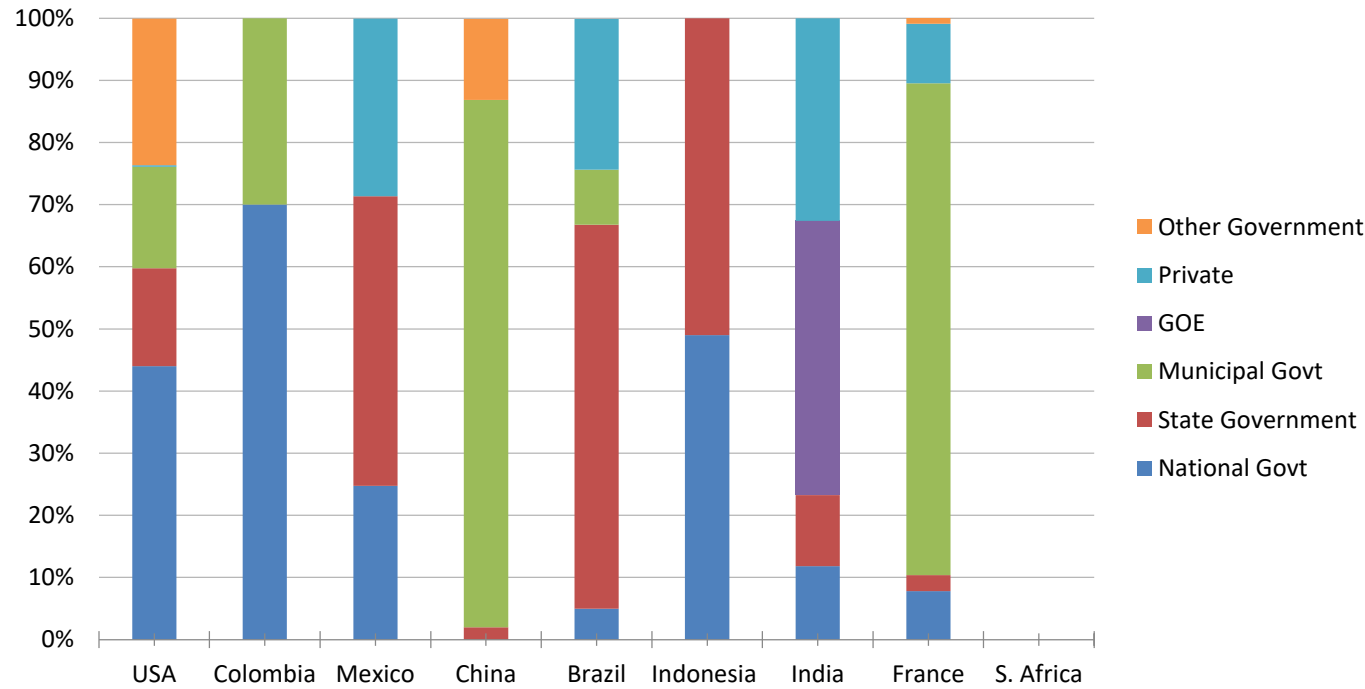
Funding Sources by Mode In Indonesia



2015 data



Urban Rail Project Funding

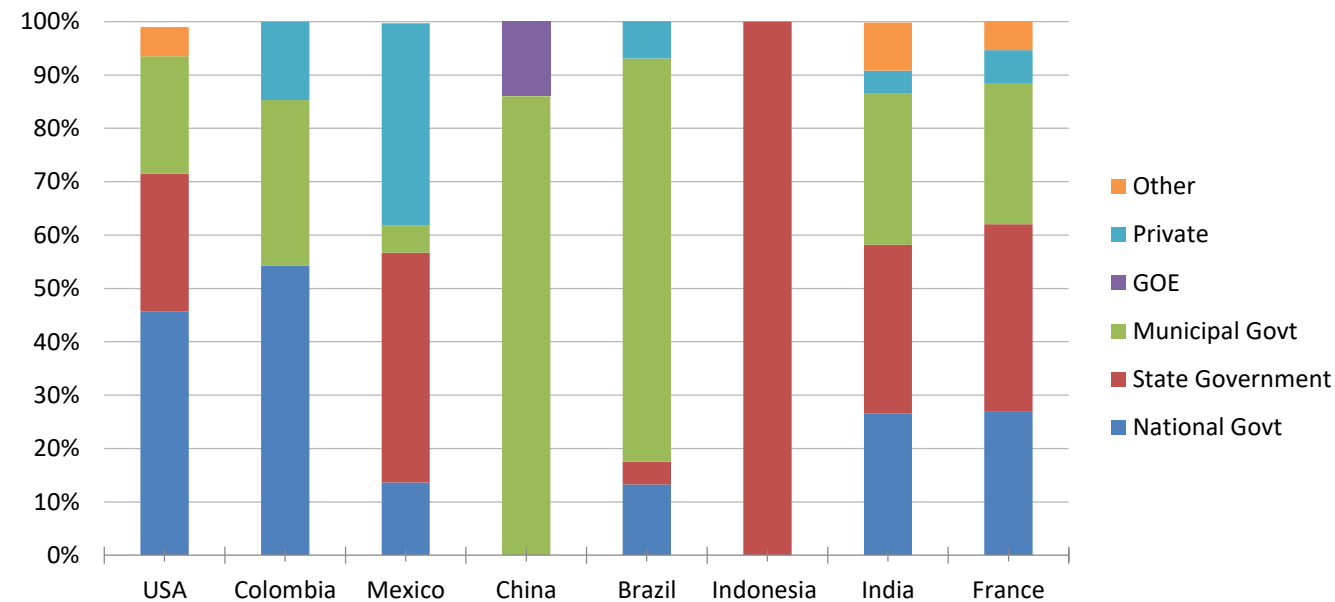


Funding BRT vs MRT

BRT projects are less dependent from national funding as opposed to the urban rail project

2015 data

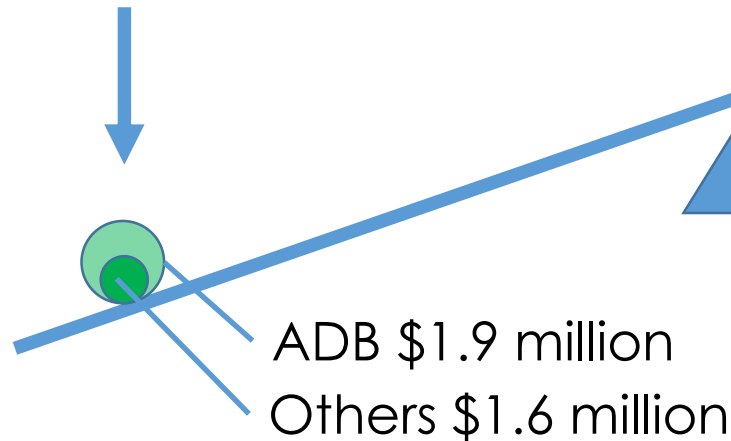
BRT Project Funding



The role of external organisations: Leverage

\$3.5 million
ADB & ITDP technical assistance

Figure includes only ITDP contracts;
ADB in-kind contributions are additional



\$1.9 billion
sustainable transport financing

Additional projects are in pipeline

further replication

Others
\$1.04 billion

ADB
\$832 million





Project	Financing		ITDP Technical Assistance	
Yichang <ul style="list-style-type: none">▪ Bus Rapid Transit (BRT)▪ Cycle sharing▪ Cycle lanes▪ Car restrictions▪ Roadway design	\$ 150 million	ADB	\$ 320,000	ADB
	\$ 350 million	Others	\$ 300,000	Oak Foundation
		▪ Yichang government	\$ 100,000	Climate Works
		▪ Commercial banks	\$ 100,000	Grantham
		▪ State-owned banks	\$ 90,000	Rockefeller Brothers Fund
	=====		\$ 50,000	Hewlett Foundation
	\$ 500 million	Total	\$ 50,000	Yichang City
			=====	
			\$ 1,010,000	Total
Lanzhou <ul style="list-style-type: none">▪ Bus Rapid Transit (BRT)▪ Cycle sharing▪ Cycle lanes▪ Road design	\$ 150 million	ADB	\$ 110,000	ADB (forthcoming)
	\$ 450 million	Others	\$ 800,000	Climate Works
		▪ Lanzhou government	\$ 100,000	Hewlett
		▪ Bus Company		
		▪ Commercial banks		
		▪ State-owned banks		
	=====		=====	
	\$ 600 million	Total	\$ 1,010,000	Total
Karachi <ul style="list-style-type: none">▪ Bus Rapid Transit (BRT)▪ Pedestrian Plaza▪ Cycle lanes	\$ 97 million	ADB	\$ 300,000	ADB
	\$ 87 million	Others		
		▪ Sindh Government		
		▪ DFID (UK)		
	=====			
	\$ 184 million	Total		
Peshawar <ul style="list-style-type: none">▪ Bus Rapid Transit (BRT)▪ Bus Depot & Terminal▪ Cycle lanes▪ Pedestrian plaza▪ Campus cycle sharing	\$ 335 million	ADB	\$ 995,000	ADB
	\$ 150 million	Others		
		▪ European Investment Bank		
		▪ AFD		
	=====			
	\$ 485 million	Total		
Totals	\$ 832 million	ADB	\$ 1,905,000	ADB
	\$ 1,037 million	others	\$ 1,590,000	Others
	=====		=====	
	\$ 1.869 billion		\$ 3,495,000	Total



Summary

- Whole package of sustainable urban transport improvement
- City is the champion, utilize their funding
- Integrated public transport network (not 'piece meal')
- Leverage through international institution



ITDP

Institute for Transportation
& Development Policy



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