

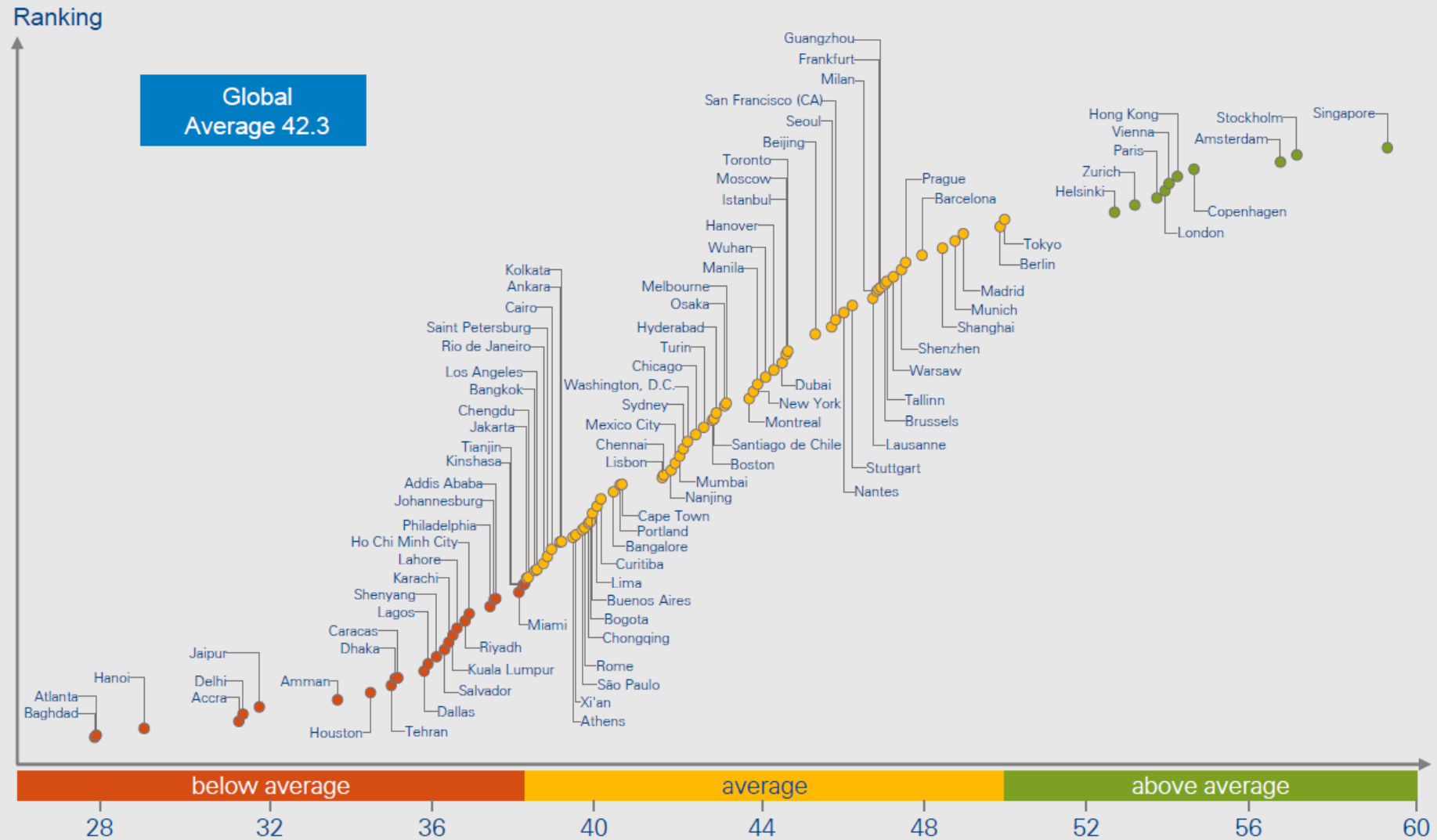
Role of State Government in Improving City Bus Services

UMI 2019

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Lead Transport Specialist
The World Bank



Arthur D. Little Urban Mobility Index 3.0 – City ranking



Role of buses in top performing cities

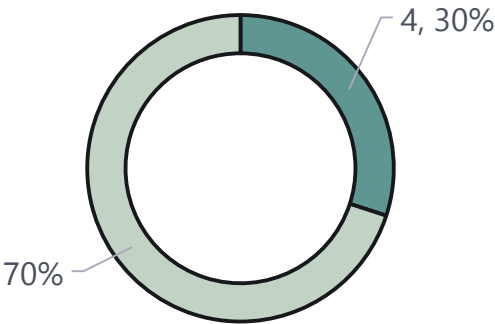
In all cities performing highly on mobility, buses are a major system component

PARIS

Mode Share
PT+NMT

61%

PT Trips
(Million per Day)



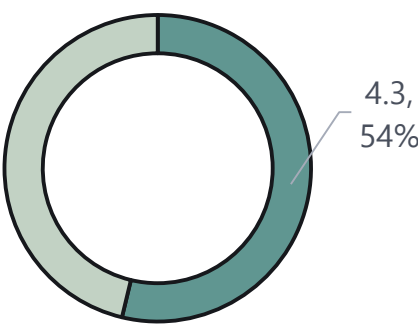
■ Bus Trips ■ Non Bus Trips

SINGAPORE

Mode Share
PT+NMT

72%

PT Trips
(Million per Day)



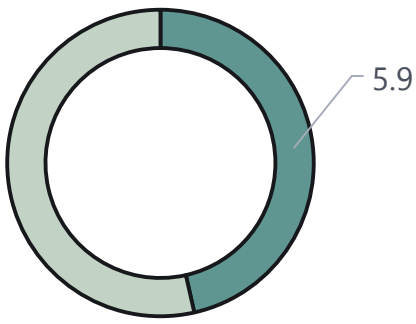
■ Bus Trips ■ Non Bus Trips

HONG KONG

Mode Share
PT+NMT

88%

PT Trips
(Million per Day)

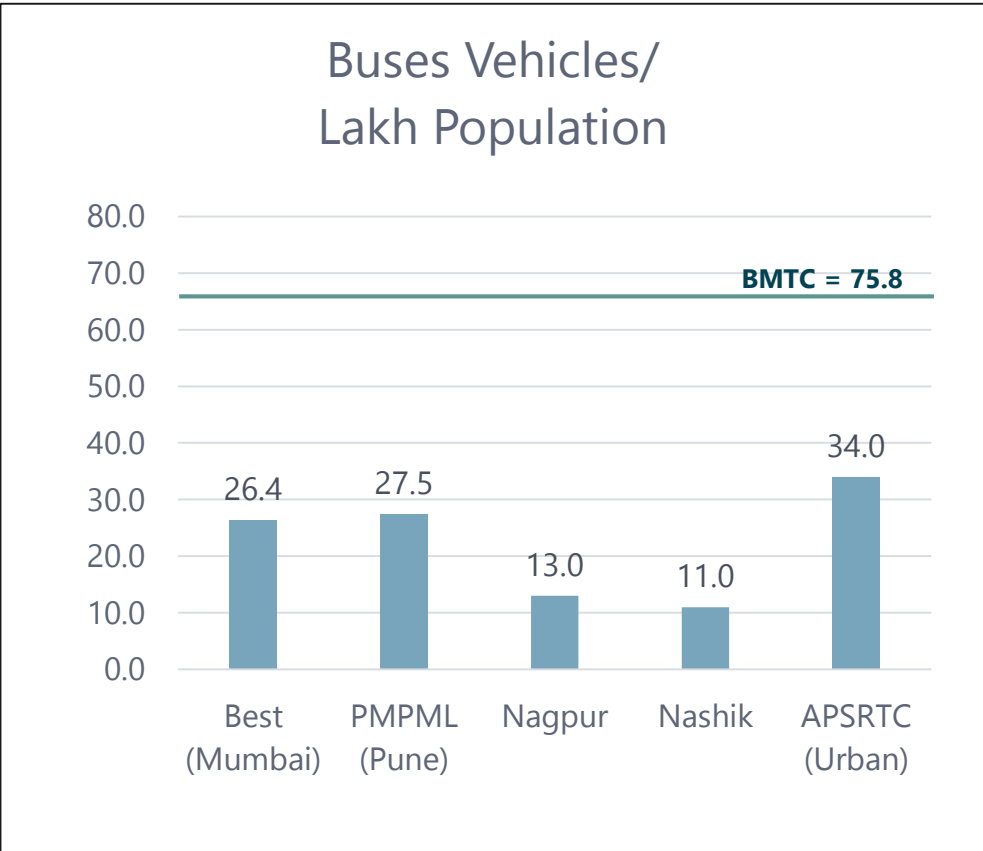


■ Bus Trips ■ Non Bus Trips

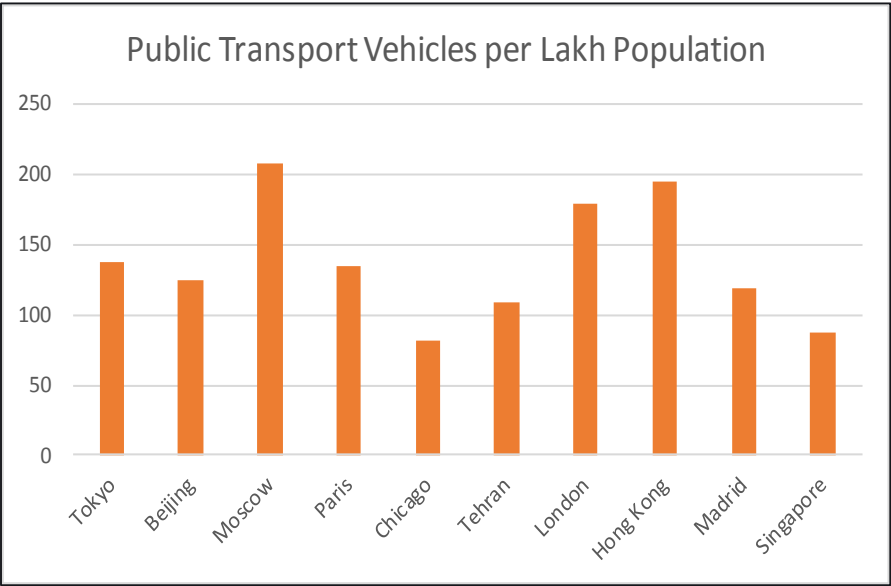
Situation in India

There is a major SUPPLY GAP (about three to four times) compared to international benchmarks and bus quality needs to improve

Low Urban Public Transport Availability per Capita



International Benchmarks for Public Transport Availability > 100

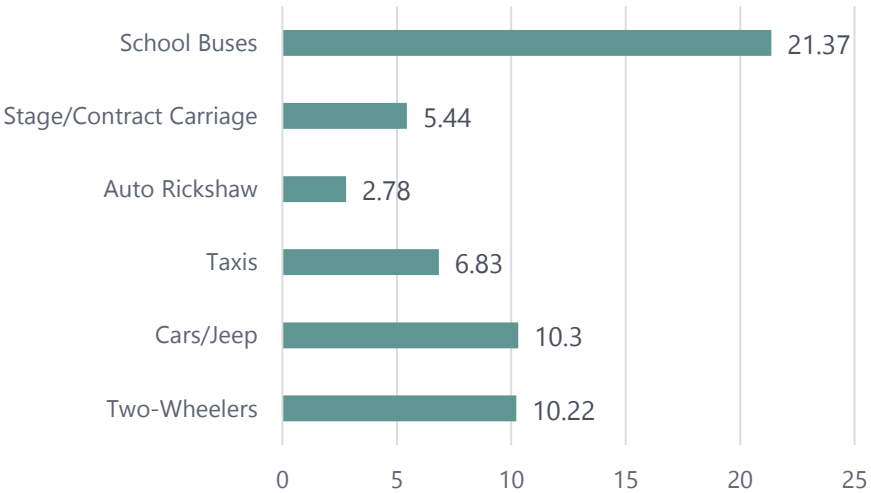


Situation in India

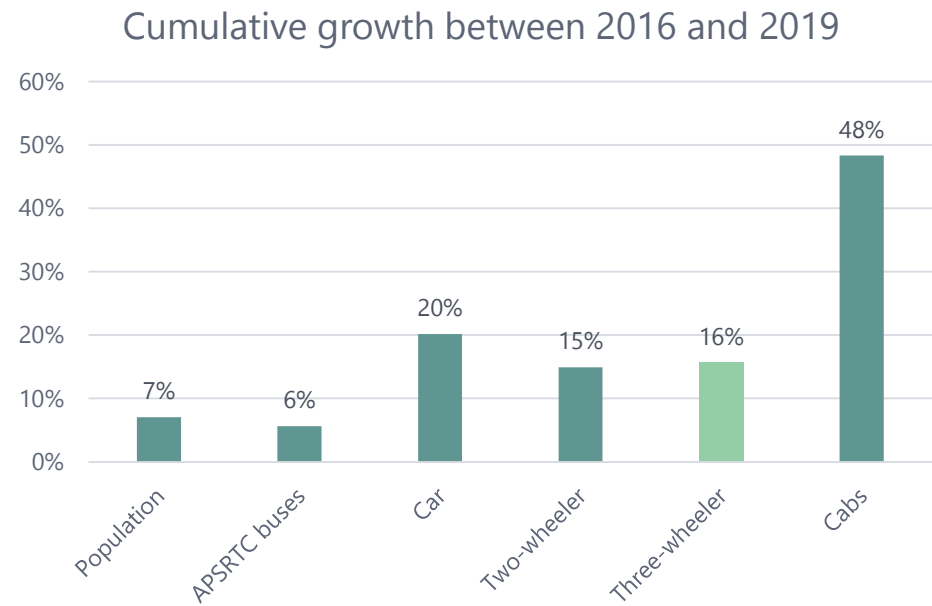
The situation is rapidly deteriorating, leading India into an unsustainable path

Growth in bus fleet is not keeping pace

Maharashtra Annual Growth Rates of Vehicle Categories (2001-15)



Andhra Pradesh Cumulative Growth of Vehicle Categories (2016-19)



Bus sector challenges

Major Supply
Gap

Bus provision is 1/3 to 1/4 of needs in cities

Low quality of
services

Aging fleet with limited customer focus

Low fleet
growth








Growing at half of competing modes

Limited public
resources for
scale up

Public operators on survival mode

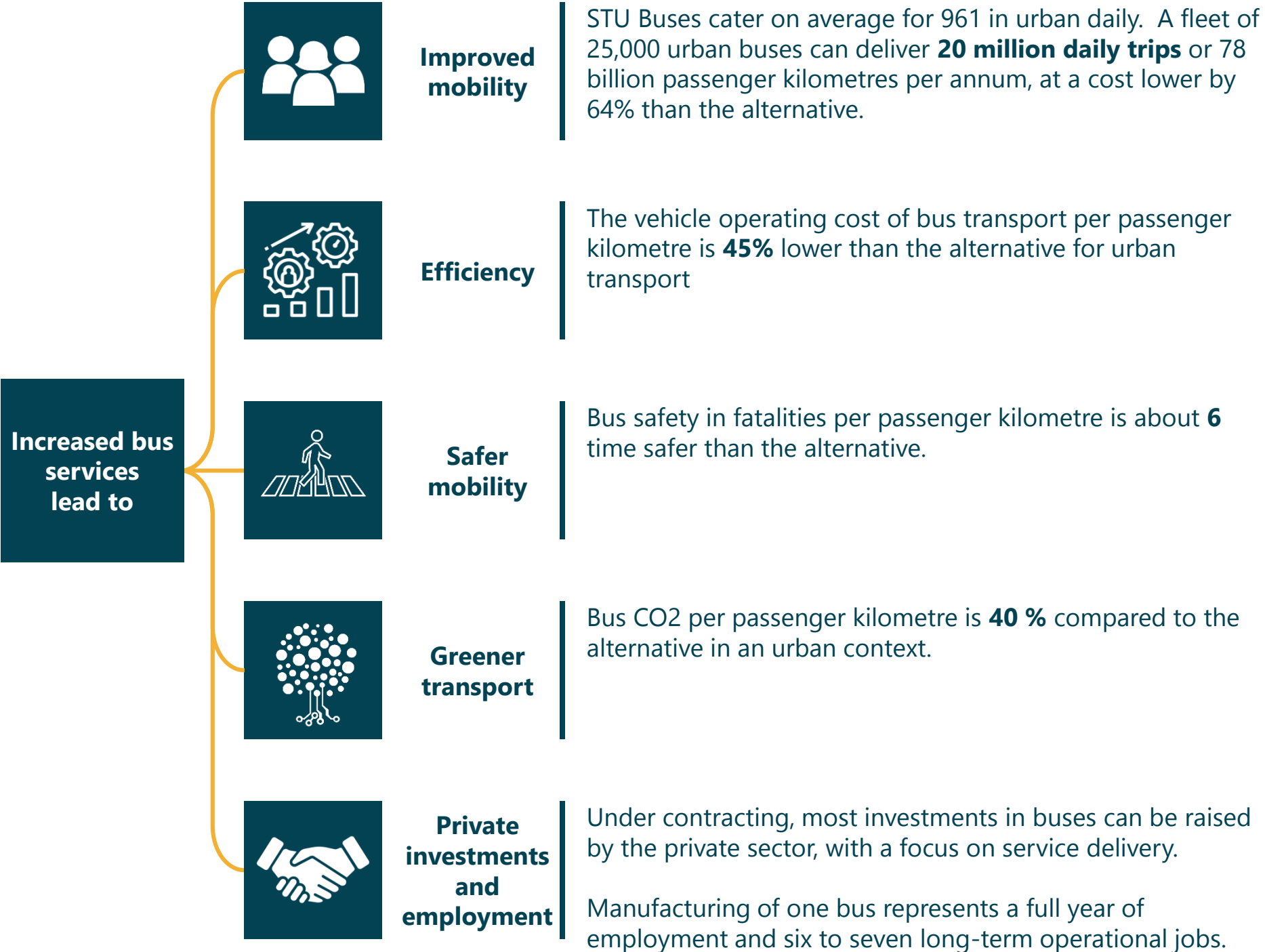


Key Challenges

-  — Fragmented institutional responsibilities
-  — Bus network not responsive to customer demand
-  — Licencing and regulatory regimes limiting market access and ineffective mechanisms to leverage private sector operators
-  — Costly service by public operators
-  — Low fare and limited government support leading to insufficient investments
-  — Congested roadways for buses
-  — Gaps in skilled resources (planning/contract management/drivers)

Why it matters

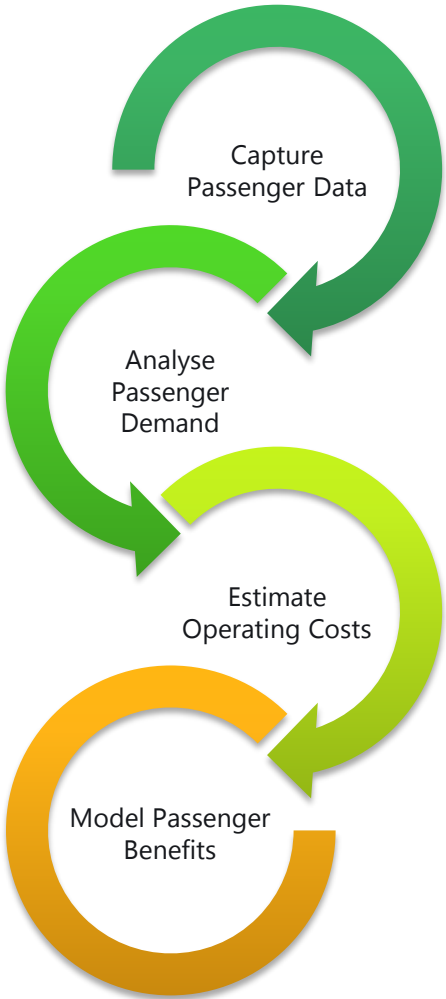
Assumes an alternative for passenger-kilometres at 72% 2W/3W and 27% cars



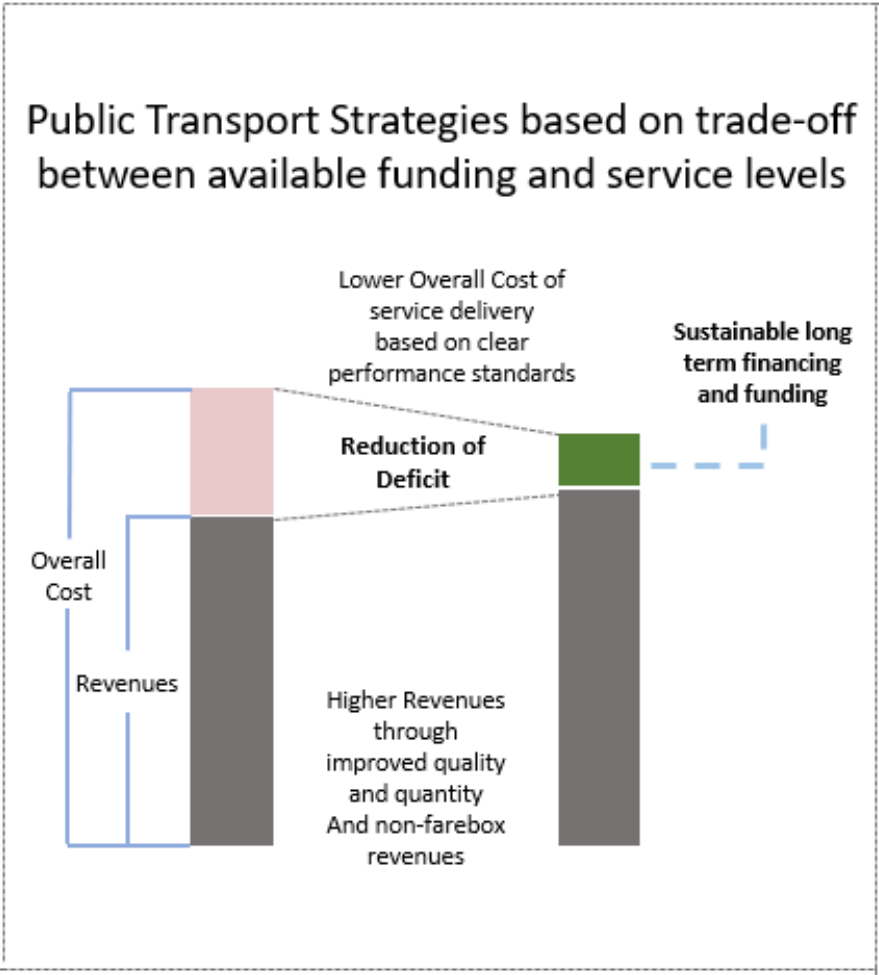
Transforming Bus Transport Provision

Strategizing improvement of Bus Service Delivery quantity and quality with optimized financing

Plan an effective network



Enhance efficient delivery



Increase financing/ funding

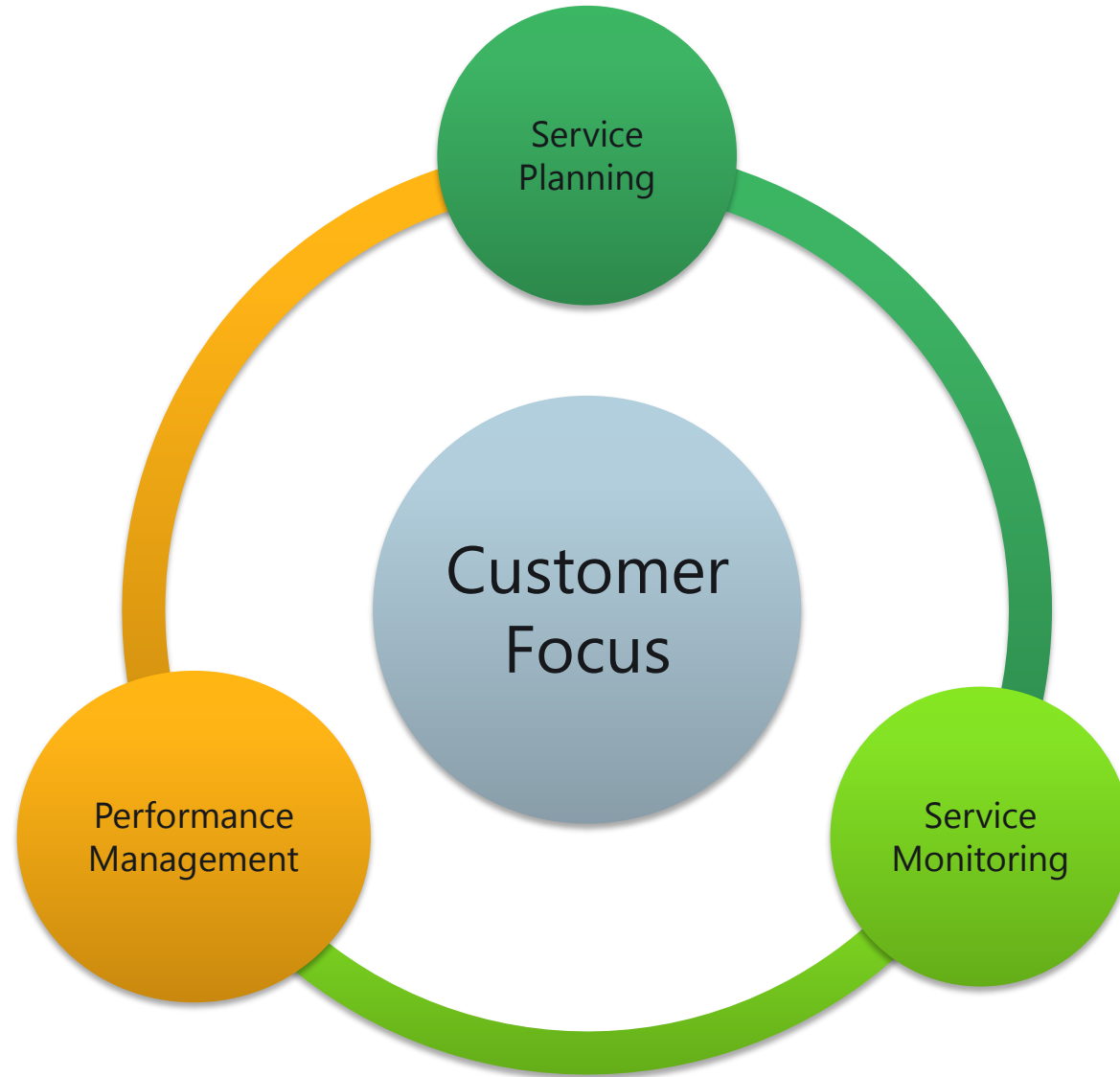
Fare+fare increase +subsidies+ non fare revenues ensuring long term sustainability

Leverage private capital for investments

Unlock efficiencies through private sector operations under contract

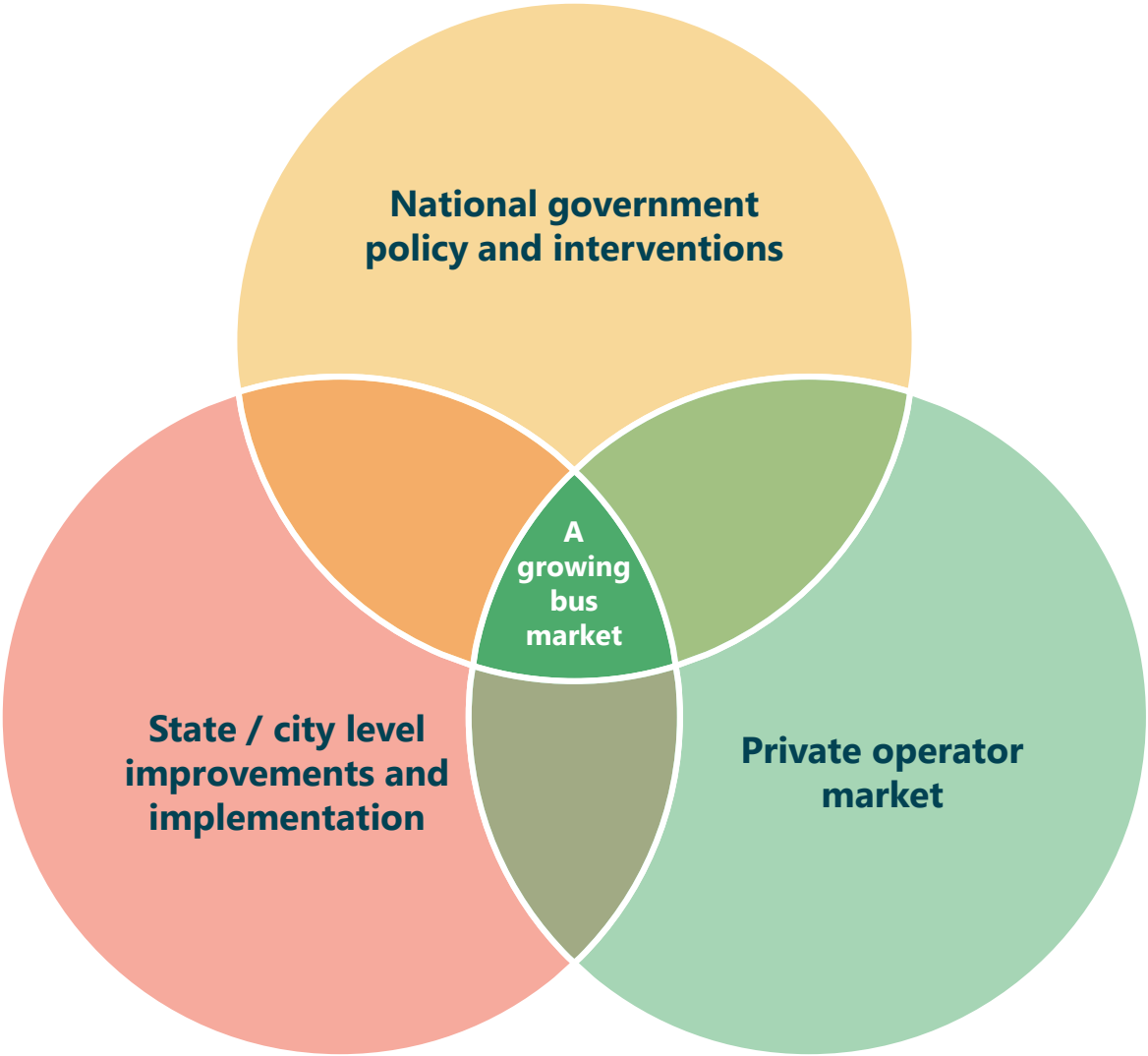
Pillars of Success

All elements of this framework need to work together to deliver maximum benefit



Solution requires engagement of many stakeholders in the bus market

The development of bus services needs to be anchored in a clear sector vision, shared among the stakeholders.



National government policy and interventions that create the environment for improvements in the bus market, including resolving nation-wide issues and enablers, for example boosting capability and providing consistent contracting documentation.

State / city level improvements and implementation will set a vision and ensure improved performance for the authorities who are accountable for bus networks

A market of private operators who have sufficient trust in the contracting authorities and the process to participate with confidence, capacity to provide consistently good quality services, as well as access to the required resources and financing.

Role of the State

Establishing capacity to implement critical Requirements for successful bus sector rejuvenation

State level policy on Public Transport /UM	Includes targets for coverage, service delivery models, institutional arrangements and funding strategy.
Operationalization of Institutional Arrangement	Nodal responsibility for policy, planning, contracting and management, monitoring and evaluation; Five year business plan with KPI for authority and operator; strategy for transitioning to outsourced operations
Sustainable approach to PT funding	Create fare setting and funding mechanism to keep system solvent over time.
Contracting Approach	Efficient service delivery through outsourcing based on standardized document (hybrid/quality/performance based GCC) with expeditious dispute resolution mechanism
ITS Platform	ITS system covering all aspects of bus operation, and contracting, as well as interactions with customers

Setting up a Vision for Urban Bus Services

Service Design

- What cities should be served by formal public transport?
- What types/segmentation of bus services should be provided?
- How much service should be provided?
- How should private sector services be involved in service design and delivery?

Institutional Frameworks

- Who should be responsible for policy, regulation, service planning?
- Who should manage service operations?
- Who should be financially responsible?

Business and Operating Models

- Who should operate bus services?
- How should private providers be involved in service design and delivery?
- What performance standards should be used?

Financing and Funding Mechanisms

- What funding programs should the Union, state and cities provide?
- How should state funding be awarded?
- Should state create local revenue sources?
- What should be requirements for tariff setting and adjustments?

Establishing long term Financing and Funding

A combination of revenue streams (fare/non fare revenues and viability gap funding) allow cities and states to meet their obligations under GCC, with the overseeing entity as a pass through.

Business planning

- Embed decisions impacting financing and funding (like fares) in a business planning process
- Earmark source for gap funding and infrastructure development
- Require appropriations for subsidies and discounts established by policy
- Establish fare setting with gradual adjustments

Use non-fare revenues

- Contribution by employers (France/Sao Paolo)
- Revenues from Business Rate Retention (Greater London)
- Revenues from advertisement
- Revenues from cars

Improved targeting

- Direct subsidy to those in needs
- Differentiated services @ different fare rates

Keep in Mind Social, Environmental, Economic Societal Goals

And

Direct/Indirect Beneficiaries

Existing Practices in Financing and Funding

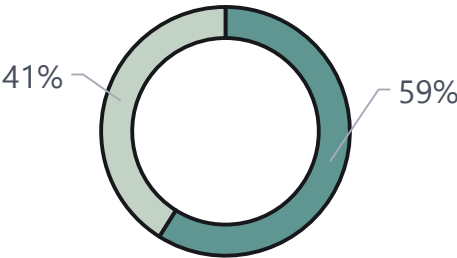
Cities seldom cover their costs from fares only.

SAO PAULO

Support from Government (2018)

\$900 m

Expenditure Coverage



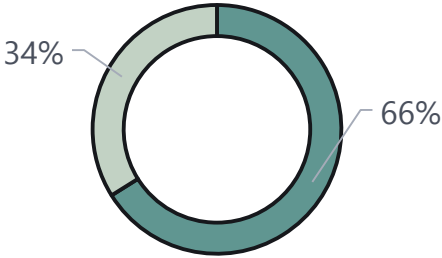
Fare Non Fare

LONDON

Bus Operational Deficit 2017-18

\$934 m

Expenditure Coverage



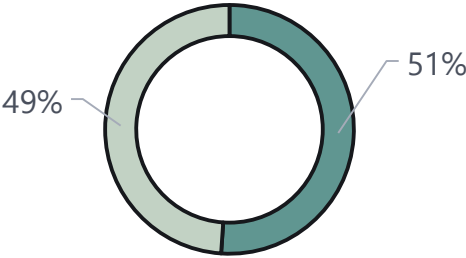
Gross Income Deficit

SINGAPORE

Support from Government (2017/8)

\$633 m

Expenditure Coverage



Gross Income Deficit

The five pillars of a successful contracting model



Current findings in India: Trusted partnerships

Barrier to growth:

Contracts are in place but they are not reliably honoured by either side.

- Late payment
- Payment deductions without clear rationale
- Operators not able to complete contracts
- Lack of structured opportunities for dialogue between STUs/operators
- Lack of clarity or trust regarding dispute resolution and arbitration

Need to build capacity on both authority/operator side

Moving forward:

Improved contracts, with standard unambiguous terms

Better payment terms and security

ITS for effective monitoring

Regular dialogue between STUs and operators

Good Practices in Business Model

A growing number of cities adopting GCC contracts with performance criteria (applied as well to public operators)

SYDNEY

GCC with performance criteria for 5 years (+3)

State buys many of the buses and the contracts focus on service delivery

Public and private operators

KPI focused on punctuality, % of trip cancelled, complaints, bus defect rate.

14 contract regions for Sydney (9 open tender and 5 direct award)

LONDON

GCC with performance criteria for 5 years (+2)

Private operators(~20) purchase buses based on TfL specs

KPI strong focus on Reliability and Excess Wait Time.

Multi year program (~15% of all routes awarded each year)

Operators need to prequalify first

Takeaways

Service focus

Open tender

Comprehensive KPIs

Reliability/punctuality safety/customer

Conclusion: Many opportunities for bus services

Keys to success:

**A clear vision and
plan**

**Building capability
in new skills**

**Leveraging best
practice in India and
Internationally**

**All parties working
together**

Supported by:

Institution

Funding and financing

Private Sector Effectiveness

Improved Infrastructure



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Thanks!