I. Introduction

Public Transport Planning and Industry Reform: An Introduction
Course Objectives

1. Learn Basic Characteristics of Public Transport
2. Acquire Basic Service Planning and Analysis Skills
3. Understand Options for Providing Public Transport
Why is Public Transport Reform Important?

• Prime Public Transport Goal

  Meet Community Access and Mobility Needs

• How do we best meet this goal?

  Effective institutional arrangements, planning, and management!
Objectives of Reform

Develop a public transport system that is:

- **Effective**
  - *Meets mobility needs* and is reliable, affordable, safe, and user friendly

- **Efficient**
  - *Minimizes costs* consistent with standards of effectiveness

- **Financially Sustainable**
  - *Consistent with short and long term community resources*

- **Consistent with Broader Community Objectives**
  - *Supports community development and minimizes impacts* e.g., pollution, congestion
Key Mechanisms

• Organizational Framework
  – Forms of competition
  – Detailed rules for operation

• Regulation
  – Protects user needs
  – Ensures fair competition
General Organizational Frameworks

- No competition
  - Government authority plans and operates services as public monopoly
- Competition *in* the market
  - Government authority grants operating rights to private companies
- Competition *for* the market –
  - Government authority plans services and contracts for private operation
No Competition
Public Monopoly

*Government plans and operates services as a public monopoly*

**Advantages**
- Direct government control over services and fares
- Easy service and fare integration
- Sensitivity to social objectives

**Disadvantages**
- Poor management incentives
- Political interference in day-to-day operations

**Typical Results**
- Low efficiency and service quality
- Financial sustainability problems

**Examples**
- United States, former Soviet Union
Bangalore, India Example

• One operator (BMTC) serves the metropolitan area
  – Provides different types of services based on BMTC planning
  – Operates large and small buses
  – Outsources some functions

• Broad policy direction provided by state
  – BMTC retains full management authority over services, fares, and labor

• No independent regulation other than safety
Making SOE, Public Monopoly Work Better

- Build in incentives for management
- Maximize out-sourcing
- Establish clear roles for political leadership and management
- Set clear performance objectives, measures, required actions, and consequences
Competition *in the Market*

Government grants operating rights to private companies who may compete on the street for customers

**Advantages**
- Limited government operations management
- Management incentives for efficiency

**Disadvantages**
- Strong government technical oversight of services and fares needed
- More difficult service and fare integration
- Difficult to revise service network
- Difficult to provide unprofitable services

**Typical Results**
- Financially sustainable
- Oversupply of low-quality services
- Insensitivity to social objectives (e.g., congestion, affordability)

**Examples**
- Latin America, Africa, Asia
Hong Kong Example

- **Strong government planning and analysis**
  - **Corridor/sub-area**
    - Small number of companies operating large buses including double-deckers
    - Larger number of companies operating mini-buses
    - Different types of services based on private market assessment within regulatory limits

- **Very tight regulation/enforcement**
  - Number of companies and buses
  - Quality of buses
  - Safety
  - Fares

- **No subsidies (huge captive market)**
Making Competition *in* the Market Work Better

- Create strong planning and regulatory body
  - Manage the amount of service operated to insure profitability and quality
  - Set realistic fare levels based on sound economic principles and operating practices
  - Enforce safety and operating rules
  - Establish sound licensing policies (e.g., number, renewal period, ceilings on ownership)
- Provide publicly-funded infrastructure
- Provide strong traffic management and enforcement
- Provide joint services
  - Public information and marketing
  - Assistance in vehicle procurement
Competition for the Market

Government plans services, sets fares, and contracts for private operation

Advantages

– Direct control over services and fares
– Management incentives for efficiency
– Control of service quality through contract provisions
– Sensitivity to social objectives

Disadvantages

– Strong government planning and oversight of services and fares needed
– More difficult service and fare integration
– Requires strong contract management

Typical Results

– Financially sustainable
– Relatively high efficiency and service quality

Examples

– Latin America BRT, United Kingdom, France
UK Outside London Example

- **Strong government planning and analysis**
  - Corridor/sub-area
    - Small number of companies operating large and/or small buses
    - Different types of services based on public authority plan
- **Results**
  - Early problems in contract specification and management that were corrected
  - Higher quality services, lower subsidies
Contract Types

• **Gross-cost contracts**
  – Fare revenues go to public authority
  – Contractor risk limited to costs

• **Net-cost contracts**
  – Net-cost = Total costs — Fare revenues
  – Contractor risk includes costs and revenues (riders)
Making Competition *for the Market Work Better*

• Maximize competition
  – Multiple tenders (break up services)
  – Limits on awards to one company
  – Public provision of infrastructure and facilities
  – Assistance in procuring vehicles
  – Reduce contractor risk
    • Gross-cost contracts
    • Pass-through of volatile cost items (e.g. fuel)

• Provide joint services
  – Public information and marketing
  – Street supervision
  – Fare collection

• Provide reasonable contract incentives
## Summary of Key Features

### Competition Frameworks

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<thead>
<tr>
<th></th>
<th>Monopoly</th>
<th>In Market</th>
<th>For Market</th>
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<tr>
<td>Operations Efficiency</td>
<td>—</td>
<td>+</td>
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<tr>
<td>Service/Fare Integration</td>
<td>+</td>
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<tr>
<td>Quality Control</td>
<td>+</td>
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<tr>
<td>Political Interference</td>
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<td>Passenger Demand Response</td>
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<td>Government Skills Required</td>
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<td>Sustainability</td>
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All frameworks need regulation
  - Set rules of conduct and operation
  - Enforce rules

Regulation can cover:
  - Fares
  - Service levels: frequency, hours, accessibility
  - Service quality: reliability, crowding
  - Vehicles: access, comfort, safety, emissions

Effectiveness of regulations
  - Regulations are meaningless without enforcement
  - Incentives can assist compliance
Institutional Implications

The reform of urban bus transport requires:

• A regulatory framework
  – Legal basis to impose the appropriate obligations and incentives

• Competent regulatory institutions
  – Able to plan route networks, administer regulations, guide industry development, and monitor outcomes

• A responsive operating industry
  – Amenable to control, willing to enter into competition and to invest (e.g., buses, garages)

• A government entity to provide supporting infrastructure
  – e.g., Passenger facilities, traffic management, bus priority schemes
Reform Also Requires Consideration of Transition Issues

- **What service will be provided?**
  - Current, revised, or new route network
  - Frequencies and days of operation

- **How will current stakeholders be treated?**
  - Companies which “own” operating rights
  - Owners who provide the buses
  - Drivers and other labor
  - Combinations of the above
Examples of Potential Shareholder Treatment

• Government “compensates” stakeholders for change
  – United States: Competition in Market TO Public Monopoly

• Government requires stakeholder involvement in new system
  – United Kingdom (Labor): Public Monopoly TO Competition for Market
  – Cali, Colombia (Companies/Bus Owners): Competition in Market TO Competition for Market

• No effort made to address stakeholder concerns
  – Indore, India: Competition in Market TO Competition for Market
What is the Best Reform Option?

The answer depends on the local setting

• Desire of the government to control outcomes
• Legal authority for oversight and control
• Availability of funding to support government oversight and control
• Political willingness to exercise legal authority
• Ability to develop acceptable transition plan

The *Urban Bus Toolkit* can help
World Bank
Urban Bus Toolkit

- Targeted at improving urban bus systems in developing/transitional countries
- Sets out alternatives for providing services
- Provides tool for evaluating alternatives
Supporting Materials Provided

• Case studies
  – Developing countries (11 cities)
  – Developed countries (11 cities)

• Guidance documents for transport practitioners and city officials
  – Administrative procedures
  – Administrative structures
  – Contracts
  – Reform options
Where Can I Get the Toolkit?

• Run from the CD
  – Copies available here

• Go the web site
  http://www.ppiaf.org/UrbanBusToolkit/
Public Transport Planning and Analysis Is Important to Reform

- Public Needs Analysis
- Network/Route Design
- Alternatives Evaluation
  - Riders, revenues, costs
- Fare Setting
- Performance Standards
- Performance Evaluation

Leon, México
Good Planning and Analysis Improves the Chances of Success!
## Planning and Analysis Building Blocks

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<th>Cost Analysis and Financial Planning</th>
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<td>Terminology and Basic Relationships</td>
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This slide outlines the key components of planning and analysis in transportation systems. It categorizes the processes into two main sections: Schedule Building and Cost Analysis and Financial Planning. Each section is further divided into specific areas such as Performance Analysis, Measures & Standards, Network and Route Design, Market Factors and Demand Analysis. These categories are further elaborated into subcategories, such as Service Monitoring and Data Collection, Fares and Revenue: Policy, Analysis, and Collection, and Terminology and Basic Relationships. The slide uses a visual representation with images of buses to illustrate the concepts.