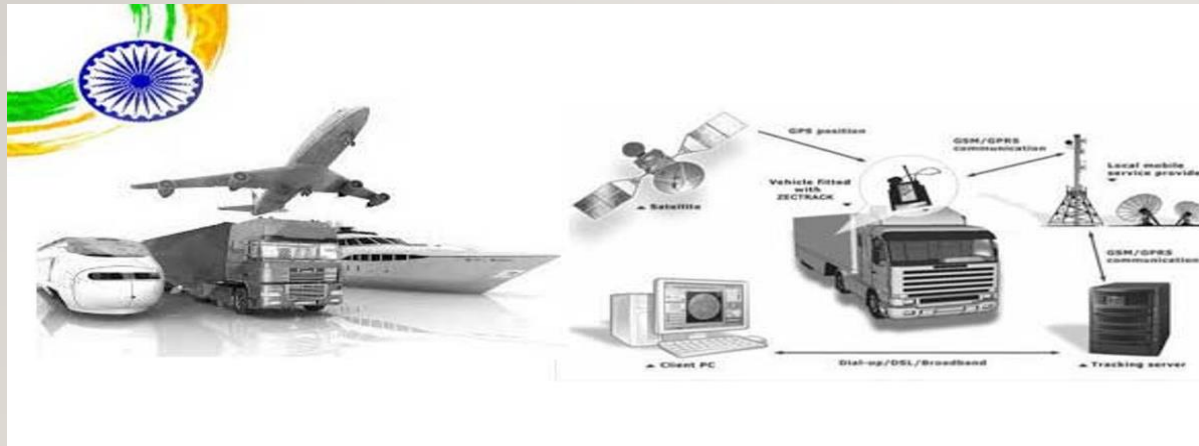# PUBLIC TRANSPORTATION EFFICIENCY AND ANALYSIS

PRESENTE BY :

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CONTENTS:

- Introduction
- Benefits of Public Transportation
- Challenges in Public Transportation
- Data Collection
- Case Studies
- Key Performance Indicators (KPIs)
- Technological Advancements
- Good & Bad Points

INTRODUCTION:

- Brief overview of the importance of public transportation in urban areas
- Statement of purpose: Analyzing the efficiency of public transportation systems
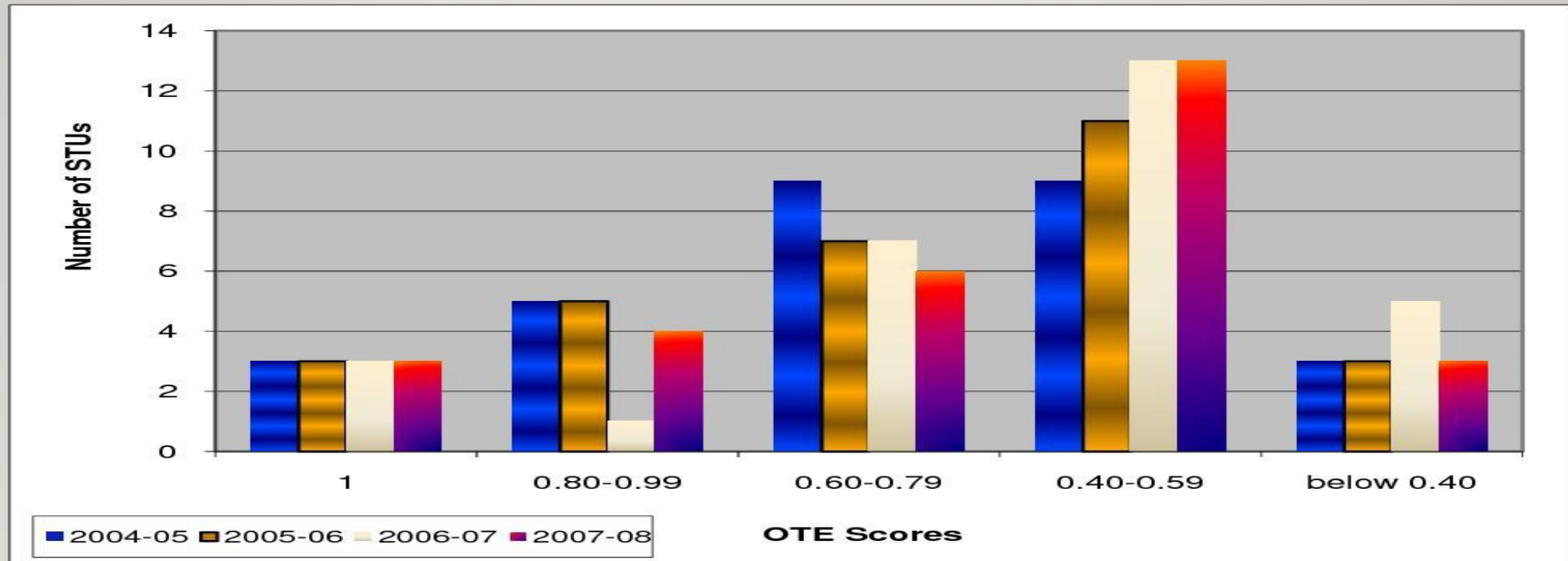
BENEFITS OF PUBLIC TRANSPORTATION

- Bullet points on the advantages (Reduced Traffic, Environmental Benefits, Cost-Effectiveness, Accessibility, Social Equity).

- Possibly include some relevant statistics or graphs.

CHALLENGES IN PUBLIC TRANSPORTATION

- Bullet points highlighting challenges (Delays, Limited Routes, Safety Concerns, Crowded Commutes, Infrastructure Maintenance).

- Use of visuals to illustrate these challenges

DATA COLLECTION

DATA COLLECTION:

- **On-board smart terminals**
- **Bus smart cards**
- **Global Positioning System (GPS)**
- **AVL system**
- **Manual counting**
- **Pneumatic tubes**
- **Inductive loops**
- **Video detection**
- **Transportation planning**
- **Traffic signal optimization**
- **Road capacity analysis**

CASE STUDIES:

- Present successful examples of cities or regions with highly efficient public transportation systems.

- Highlight key strategies that contributed to their success.

- The case studies is that the public transportation efficiency and analysis

KEY INDICATORS PERFORMANCE

KEY INDICATORS PERFORMANCE (KIP)

- Assigned benchmarks for evaluating progress toward your company goals.

- For shippers, using your transportation management system (TMS) to establish and track KPIs is crucial to understanding the strengths and weaknesses of your shipping operations and optimizing for the future.

TECHNOLOGICAL ADVANCEMENTS

- Explain how technology can enhance public transportation efficiency (e.g., Smart Ticketing, Real-time Tracking, Autonomous Vehicles).

- Provide visuals or graphics for better understanding.

PUBLIC TRANSPORTATION EFFICIENCY AND ANALYSIS

GOOD

- Reduced Traffic Congestion
- Environmental Benifits
- Accessibility
- Promotes Social Equity
- Cost-Effective For Users

BAD

- Delays Uunreliabliy
- Safety Concern
- Lack of Person Space
- Limited Routes And Frequency

Infrastructure Maintenance Issues