

Discussion on PPP Model for ITMS



Delhi Traffic Facts

Population



Over 1.7 Cr

Roads Available



32,648. Kms

Vehicles



74 Lacs

Type of Vehicles



40 +

Traffic Circles

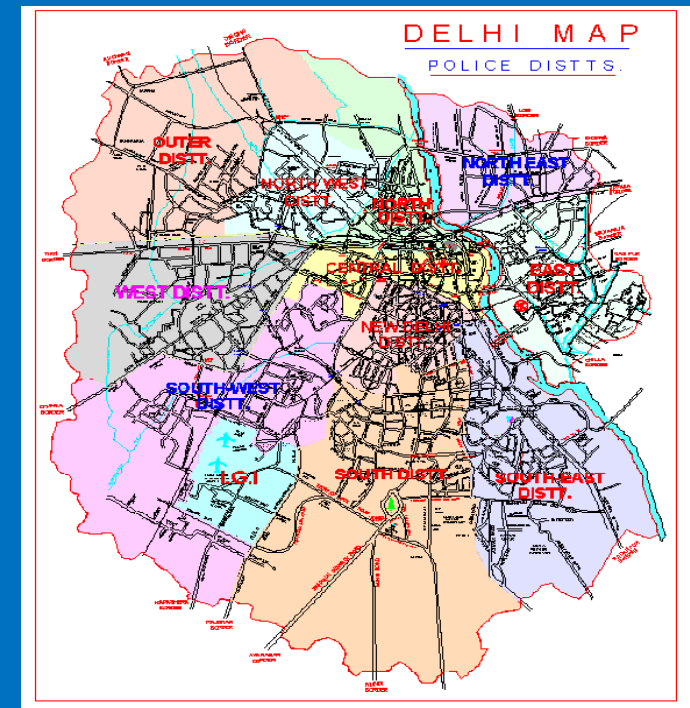


43

Police Personnel



Over 6000



Delhi Safe City – ITMS Project Overview

Project Description

The Project envisages setting up a comprehensive city wide Intelligent Traffic Management System (ITMS) for better enforcement, regulation and information dissemination.

Project Objectives

- Regulate and manage traffic in the city
- Promote Road Safety
- Instill better Road Discipline
- Enforce traffic laws
- Better traffic information dissemination to citizens

Project Initiated

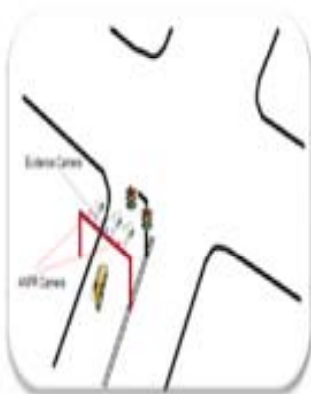
Phase I: 2009
Phase II: 2013

Project Status

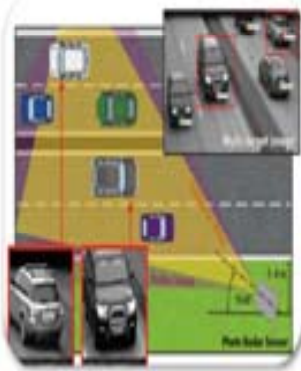
Project is in the Design Stage

ITMS Solution Highlights

ITMS Primary Components



Red Light Violation
Detection System



Speed Detection
System



Variable Message
Signs



Speed Control Signs



Adaptive Traffic
Signal Control



Public Address System

Expected Outcomes

Reduction in road accidents

Reduction in traffic
congestion

Detection of red light violations,
lane changes and over speeding

Decrease in overall travel
time

Decrease in Fuel
Consumption and Emissions

Better Information
Dissemination to road users

Parking Management

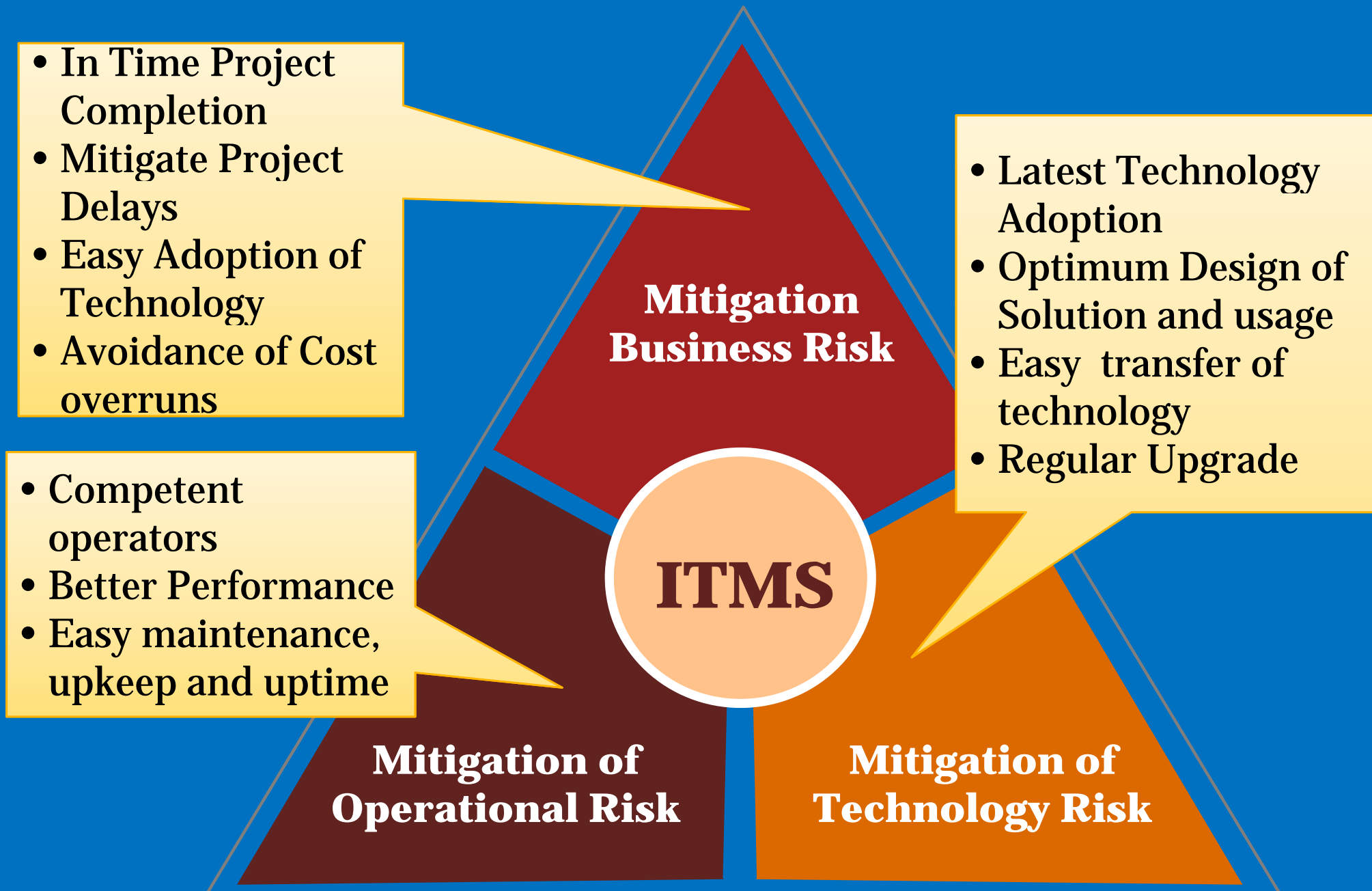
Public Private Partnership (PPP) Concept

Public –Private Partnership

PPP

Public–Private partnership (PPP) is a government service which is funded and operated through a partnership of **government** and one or more **private sector** companies

Why PPP for ITMS



Principles of PPP

Transparency

- Evidence of Traffic Violation for every infringement
- Acceptance of Evidence in Court and by violators

Fairness

- Automatic Detection
- No opportunity for Misjudgment or Mal practices by officers

Reliability

- Project Designed for a maximum uptime
- Violation detection and monitoring during non-policing hours as well

Efficiency

- Lesser manpower required for on ground Enforcement
- Better resource utilization for Traffic Regulation

PPP – ITMS Statistics

- Total Violation Detections Per Day
- Total Annual revenue collected form Violations
- Estimated Actual Violations Per day
- Possible Detection through Automated Systems Per Day



PPP Solution Economics

- Rs 100/- As per fine as per current MV Act
- Rs. 50 Crores Annually

CURRENT REALISATION

Current Collections from Fines

Rs. 50 Crores Annually

EXPECTED CHANGES

- Revision of fine under MV Act
- Commissioning of Electronic Enforcement system

Increased Collections by 2015

Rs. 800-1000 Crores Annually

- 50,000 Violation detection per day
- Multi fold Increase in revenue generation

ESTIMATED BENEFIT

Law compliance & stabilized learning curve by 2020

Rs. 300-400 Crores Annually

Possible Solution Coverage – PPP ITMS Project

Delhi Traffic Police Command & Control Center

Over Speed

Red Light Jumping

One Way Violation

Stop Line Crossing

Yellow Line Violation

Improper Parking

Not Driving Proper Lane

Stop without Bus Stop

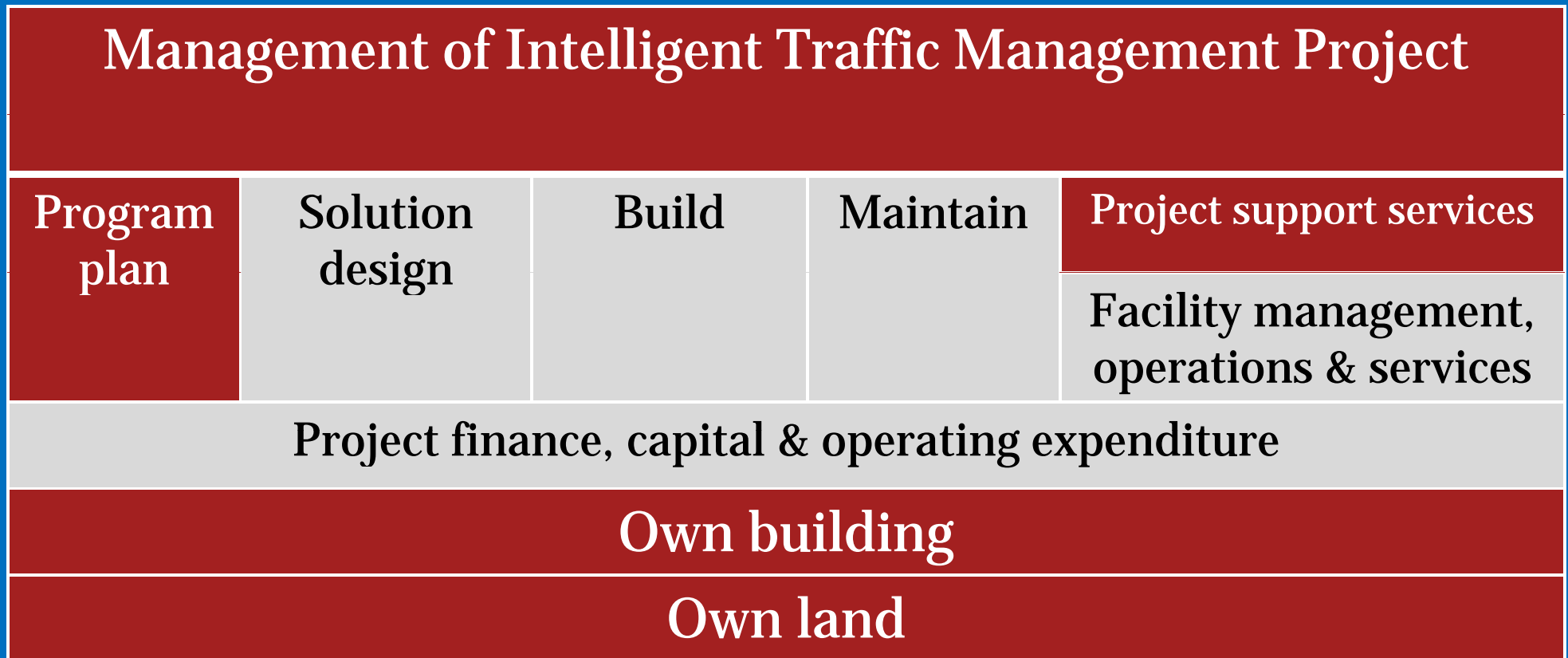
Park/Wait in Bus Lane

Dangerous Driving



PPP Project Design

Key Responsibilities Envisaged



 Delhi Police  Concessionaire

Challenges With ITMS Solutions

1. Exposed equipments and edge devices on streets



- Force majeure
- Element of weather
- Breakdown due to road accidents
- Renovation and Up-gradation of roads
- Thefts and Mischief

2. Installation & upkeep of expensive technology - a challenge



Challenges With ITMS Solutions

3. Redundancy and Uptime a challenge



- **Network Outage**
- **System Outage**
- **Equipment Outage**

4. Capacity Building within the organization

- **Change Management**
- **System Training**
- **IT experts**



The Way Forward

Studies

- **Analysis for Traffic conditions**
- **Various violation category identification**
- **Global best practices**

Alternative PPP Models

- **Transaction based payments**
- **Monthly fixed payments**
- **BOT – Build Operate and Transfer**
- **Partly Government Funded**

Phased Approach

- **Start with Pilots**
- **Scale Subsequently**
- **Enhance Scope**

Thank You...

