NEW TECHNOLOGICAL APPLICATIONS/INNOVATIONS IN JANMARG BRTS *Ahmedabad & Surat BRTS*

An initiative of:
A H M E D A B A D   M U N I C I P A L   C O R P O R A T I O N

Operations :
A H M E D A B A D   J A N M A R G   L T D.

Technical support : CEPT University, Ahmedabad

JANMARG- A METRO EXPERIENCE ON ROAD THROUGH TECHNOLOGY INNOVATIONS AT 1/20th THE COST

1. *Bus Design*
2. *Bus Station Access*
3. *Access to Bus*
4. *Junction Management (Area Traffic Control System)*
5. *Integrated Transit Management System*
   – *Automatic Vehicle Location (AVL)*
   – *Passenger Information system*
   – *Automatic Fare Collection*
6. *New Integrated Transit Management System*

Bus Design

- Limited capacity with the manufacturers - Available Models in 2008
  - Low Floor (380mm) – High cost of bus, High operating costs, Inefficient movement space inside the bus (Varying levels)
  - Semi Low Floor (650) – Moderate capital costs, Inefficient movement space inside the bus (Varying levels)
  - High Floor (1150mm) – Necessitates high station floor, longer ramps leading to high station costs & constraint on station location
- AMC with technical support from CEPT, after a series of discussions with manufacturers, operators and technical experts and due consultations with state government, MOUD, designed a new bus with 860-900 mm floor height, both side wide central door for Janmarg BRTS
- Bus Cost – Non-AC, Diesel- Rs. 21 lakh and AC-26 Lakh
- Bus is adopted as a standard bus and most cities are considering this as a sustainable option

Bus design : Flat floor

Low floor bus

Janmarg bus – Flat floor

Semi - Low floor bus

Bus Prototypes : Options

Janmarg Bus prototype - I
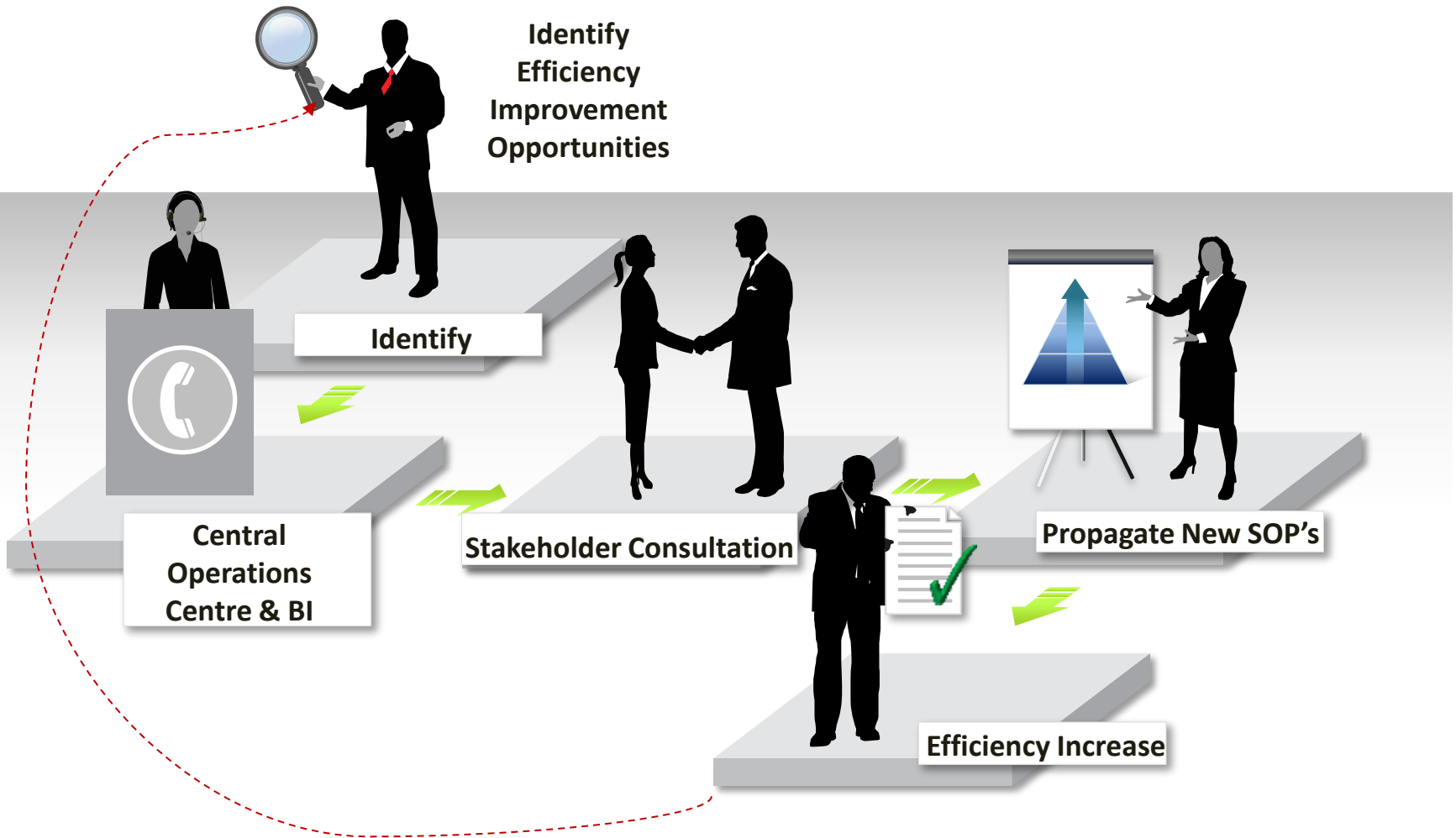

Janmarg Bus prototype - II

Janmarg Bus prototype – III
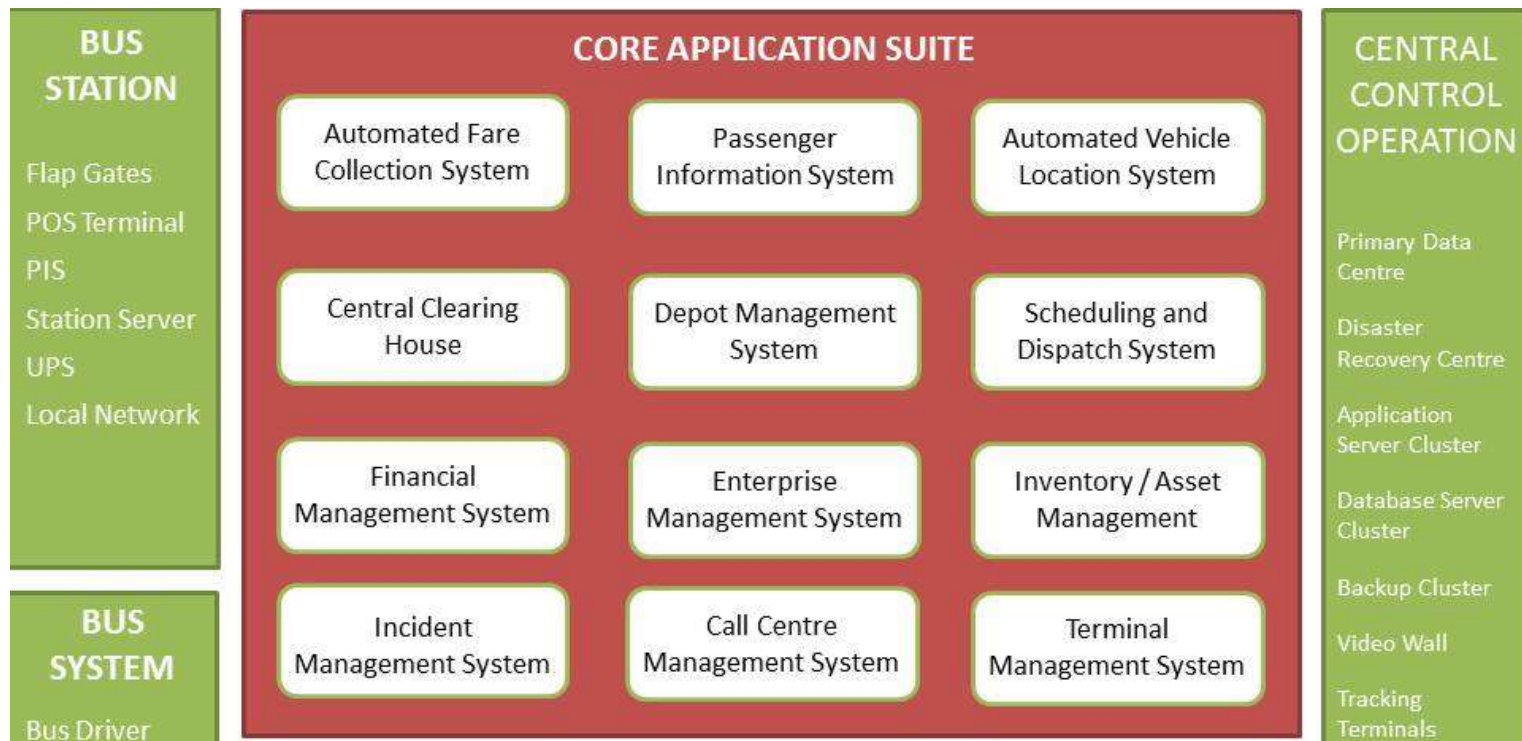

Janmarg Bus prototype – III & IV

AIM TO ENHANCE EFFECIENCY THROUGH ITMS IMPLEMENTATION!

Integrated Transit Management System

- Automated Fare Collection System (AFC)

  - *facilitates purchase of pre-paid tickets and their subsequent use through electronic systems to permit access to/ from the transit stations and buses*

  - *Paper ticket issued, Smart card and tokens to be ready by January 2011*

- Automatic Vehicle Location System (AVL)

  - Allows central control room to monitor all vehicles, their performance related to on-time, speed as well as operator performance

  - Two way Information Broadcast service with bus and bus station operators

- Passenger Information System (PIS)

  - *Advance information on arrivals, departures, next vehicle, next station display announcements*

- Financial Management System (FMS)

- Vehicle Despatch & Scheduling System (VDSS),Depot Management System (DMS), Bus Terminal Management System (BTMS)

ITMS APPLICATION LANDSCAPE

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_1499