

# Integrating Paratransit while Developing a New Bus Rapid Transit Line

The case of Peshawar (Pakistan)

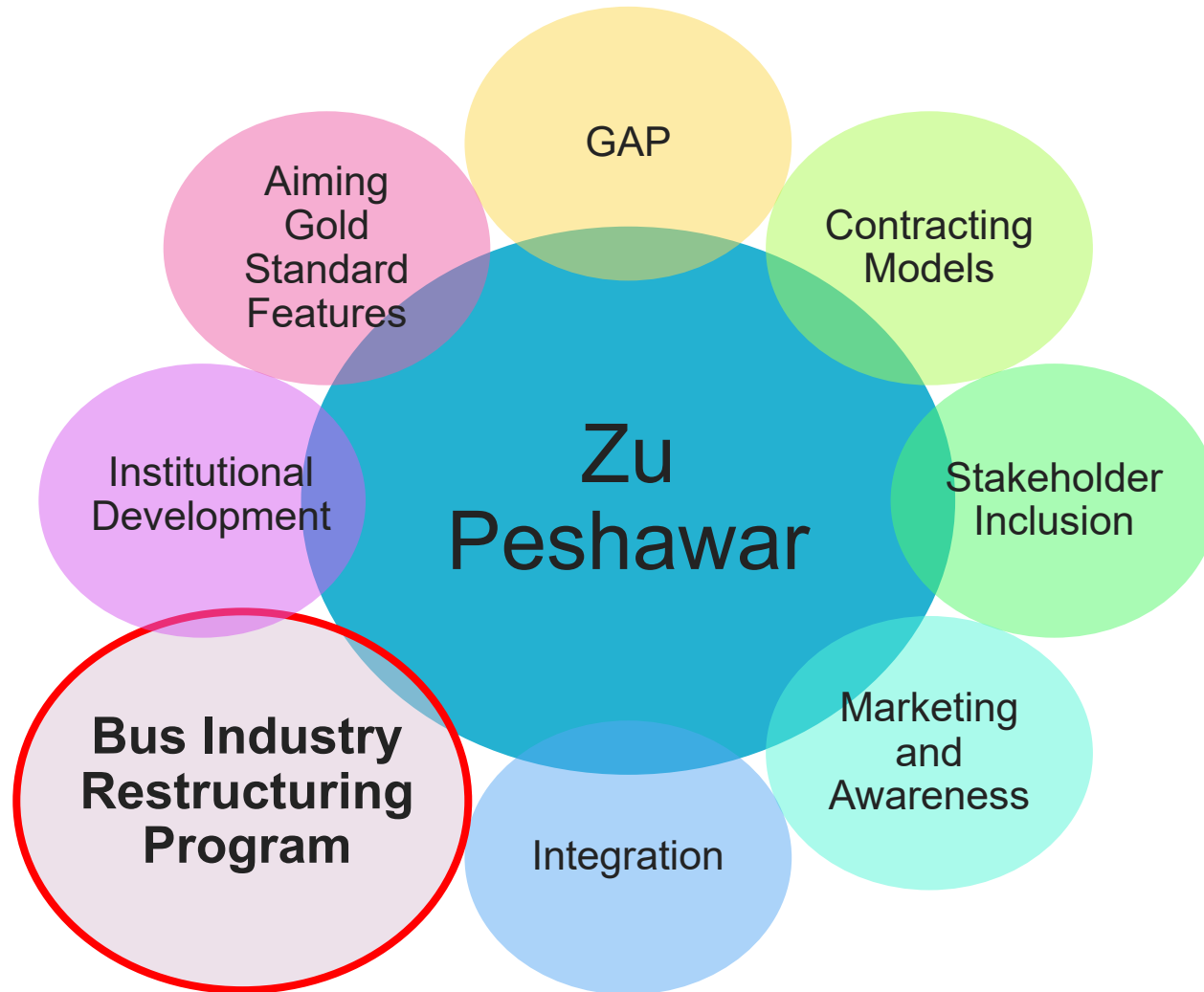
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GM Operations and Market  
Development  
BRT TransPeshawar



# Holistic Approach of Zu Peshawar



# Key Features-Physical



**27** KM

27 km  
dedicated  
corridor



**30** Stations

30 stations  
along the  
corridor



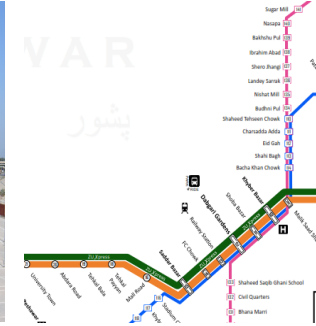
**244** Vehicles

Diesel hybrid  
electric buses



**3** Depots

2 depots and 1  
staging facility  
with commercial  
activities and  
park & ride  
facilities



**10** Routes

10 routes with  
coverage of 85  
km of route  
length



**360** Bicycles

Bicycle sharing  
system with 360  
cycles and 32  
stations.



# Type of Vehicles Operating before BRT



Mini Buses



Rocket Buses



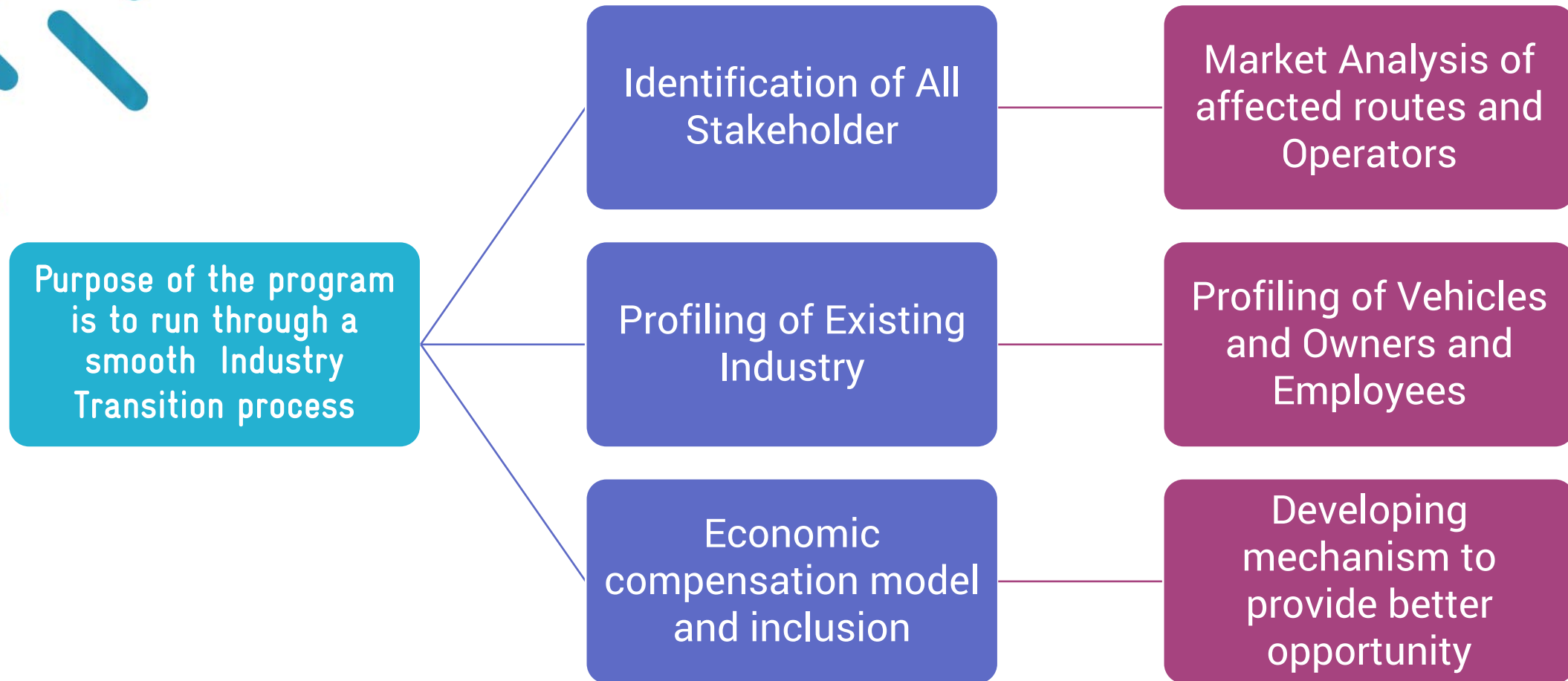
Ford Wagons



Rickshaws

- The fare for these vehicles were partially regulated by Government.
- These vehicles were providing point-to-point services for specific period of the day.
- These vehicles were also providing fixed route paratransit services.

# Bus Industry Restructuring Program



# Bus Industry Restructuring Program

## Bus Industry Restructuring Surveys

### Route and Buses Profiling

Identification of Routes to be removed or curtail

Types of Vehicles Operating, Age, Fuel Type, Trips per day

Assessment of per day/month earning, cost of maintenance and operation

Checking Vehicle suitability for inclusion or removal

Number of employees per vehicle or route

Per Month earning of the Employees

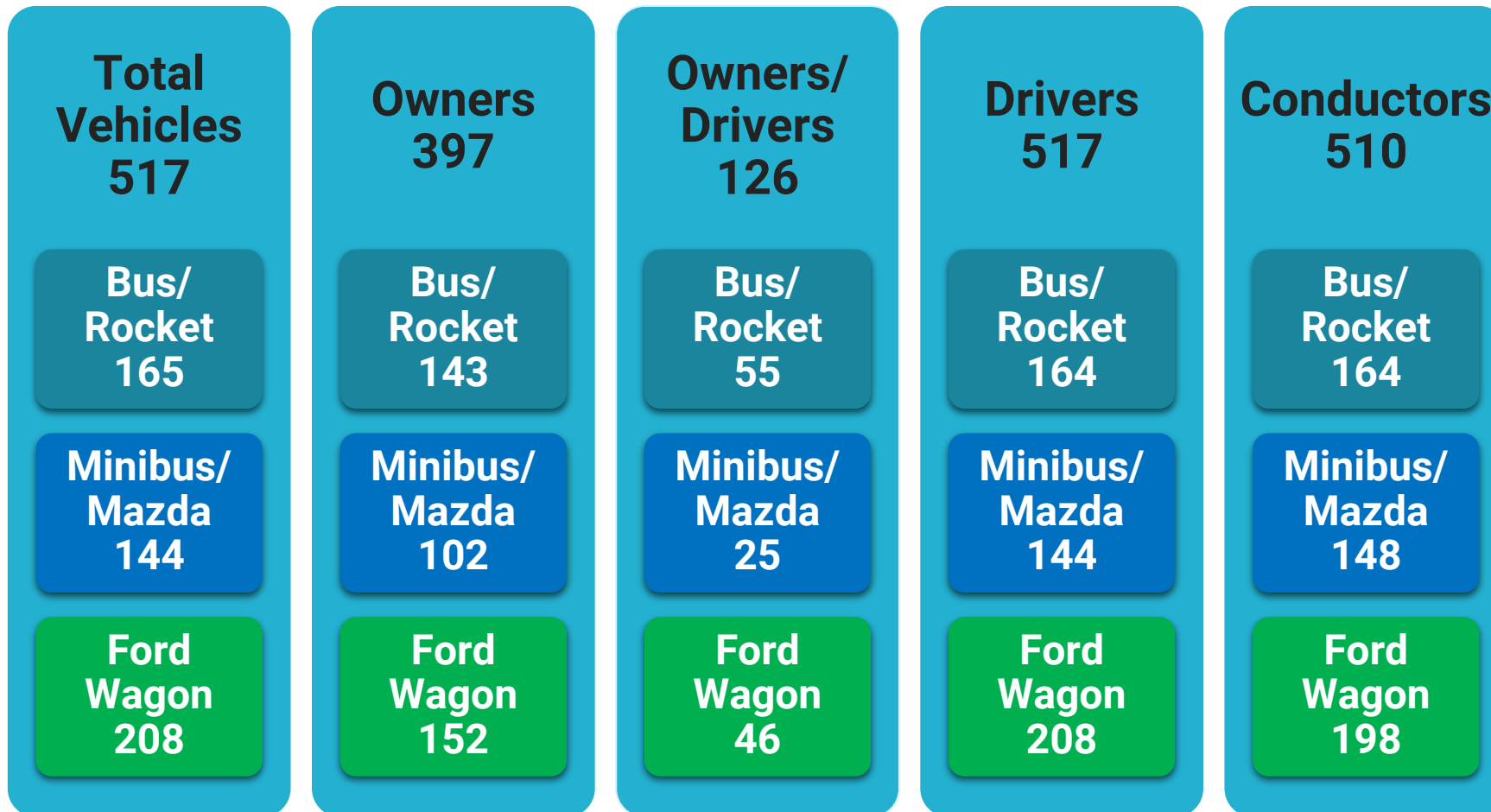
Other benefits to employees

Monthly earning of Owners

### Employees and Owners Profiling



# Survey Results



# Employment Opportunity Program

- Two contracts for Vehicle Service Providers (VSP)
- One contract for System Control Service Provider (SCSP)

No.	Types of Employment	Estimated Jobs Requirements	Existing Industry Employees
1	Drivers	800	650
2	Conductors/ Security	1600	600
3	Station Staff (Cleaning, Ticketing, Public Relation)	1250	50
4	Corridor Cleaning	100	0
5	Mechanics/ Other Technical Staff	90	-
6	Administrative and Management Staff	100	-
	Total	>3990	1300



# Training and Benefits

## Training Through Service Providers

- Technical Trainings
- Adult Literacy, if required
- Lifeskills and customer relations

## Benefits include

- Eight Working Hours
- Salary as per the labor laws
- Training and capacity building
- One day holiday per week
- Earned, sick leaves and maternity leaves
- Registration in EOBI/ESSI
- Life Insurance
- During job health cover

# Inclusion of Owners

## Process for Inclusion of Owners

### Eligibility Criteria

Vehicle with route permit

Vehicles included in surveys

### Enlistment Process

Registration Desk

Awareness Campaign

Establishment of Kiosks at terminal

### Information Requirement to submit

Personal Information

Registration Books

Purchase Letters

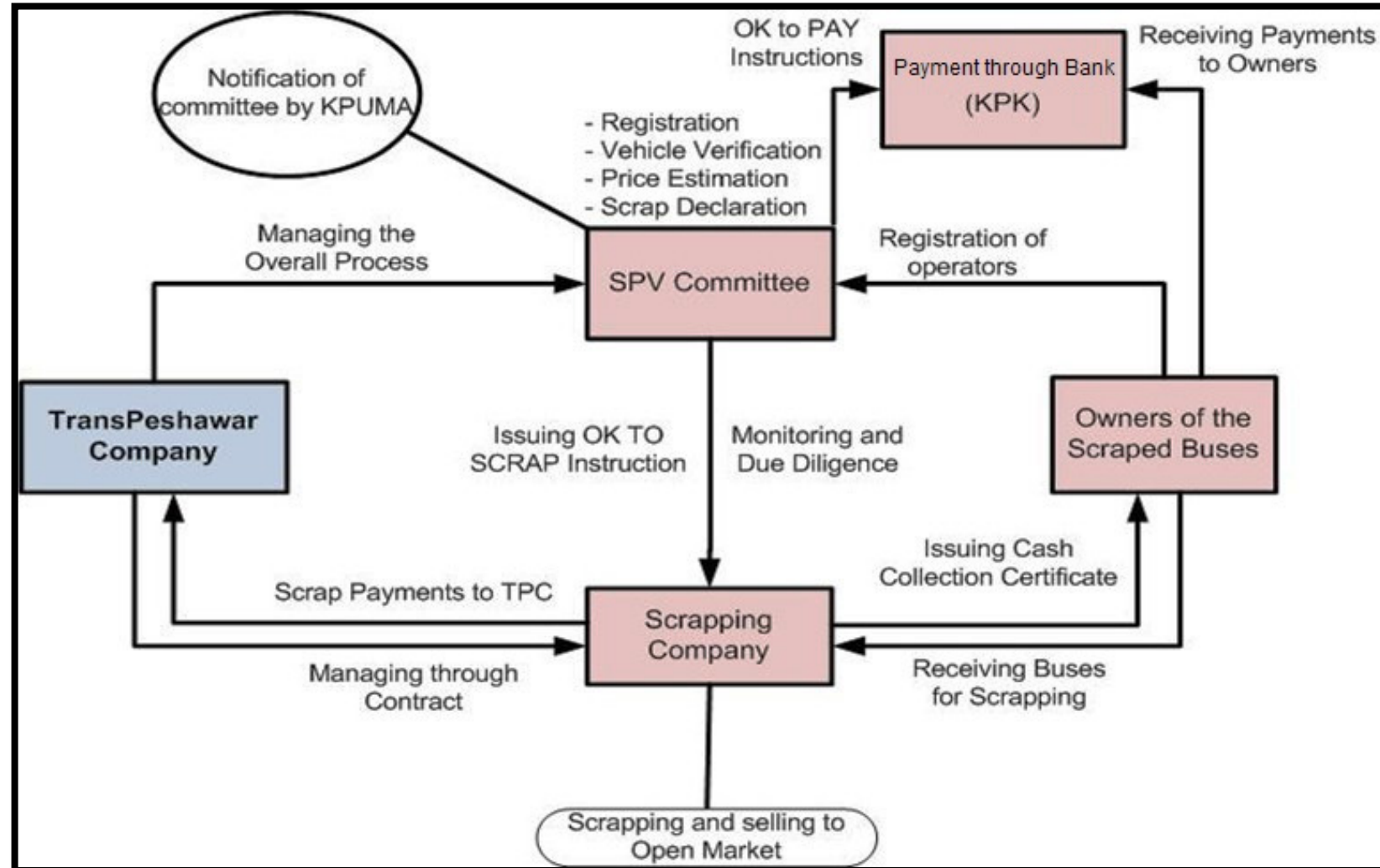
Original Route Permits

Other documents

\*Consent of the owners on acceptable option

\*Option-1: Take alternate routes, Option-2 : Sale Vehicle and get compensation for 12 months

# Scrapping Program - Procedure



# Pricing Policy

Committee Scoring		Model of the Vehicle		Route Permit		Physical Verification Committee	
(30%)		(25%)		(20%)		(25%)	
Valid Registration in the name of the claiming owner	5	After 2000	25	Route permit after 2012	20	Body condition	9
		1980 – 2000	20			Engine condition	5
Purchase Letter	10	Before 1980	15	Route permit before 2012 or identified in surveys	15	Tire condition	3
Valid transfer letter	5					Parts	5
Route Permit on the name of the registered owner	10					Original Engine and Chasis number	3

$$\text{Payment Price (PP)} = \text{Vehicle Assessment Faction (VAF)} \times \text{Maximum Price (MP)}$$

Max Price + 12 month  
Compensation @ of Rs 30,000 per  
month

Rocket Bus/MiniBus  
PKR 1,150,000

Ford  
PKR 1,050,000





# Pictorial Overview



Engagement



Profiling



Enlistment



SPV Committee



Payment



Scrapping

# Integration of Paratransit with BRT Line



Replacing Vehicles with Clean Vehicle Technology (Hybrid Electric Buses) with Universal accessibility, step free entry and ITS technologies



Provision of Physical integrated direct services connecting feeder services



Fare and Informational Integration through smart cards, Mobile apps and PIS



Integrated Contract for Fare collection and ITS system for paratransit and BRT



# Challenges

- i. Individual Operators operating vehicles
- ii. Deficit of trust on Government Schemes
- iii. Multiple Organization Involvement
- iv. Identification of engagement modes with effected owners and employees as most of them were illiterate and not have any information of Government procedures
- v. Registered owners of the vehicles are different from the real/original owners
- vi. Vehicles does not have valid permits as they were banned three years back



# Thank You

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