

Pioneering Commercial Fleet Operations and Innovations: The **eJeepney** Experience



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The City we **love**

Metro Manila is comprised of
16 cities and a Municipality

Land Area of 636sq/km

Growing population of almost
11 Million



Road network of
5 thousand kms.

Everyday **Reality**.....

- Traffic. Average speed is 14 km/h
- Air & Noise Pollution
- Vehicular Accidents
- 5 thousand deaths due to respiratory diseases



Our Loss

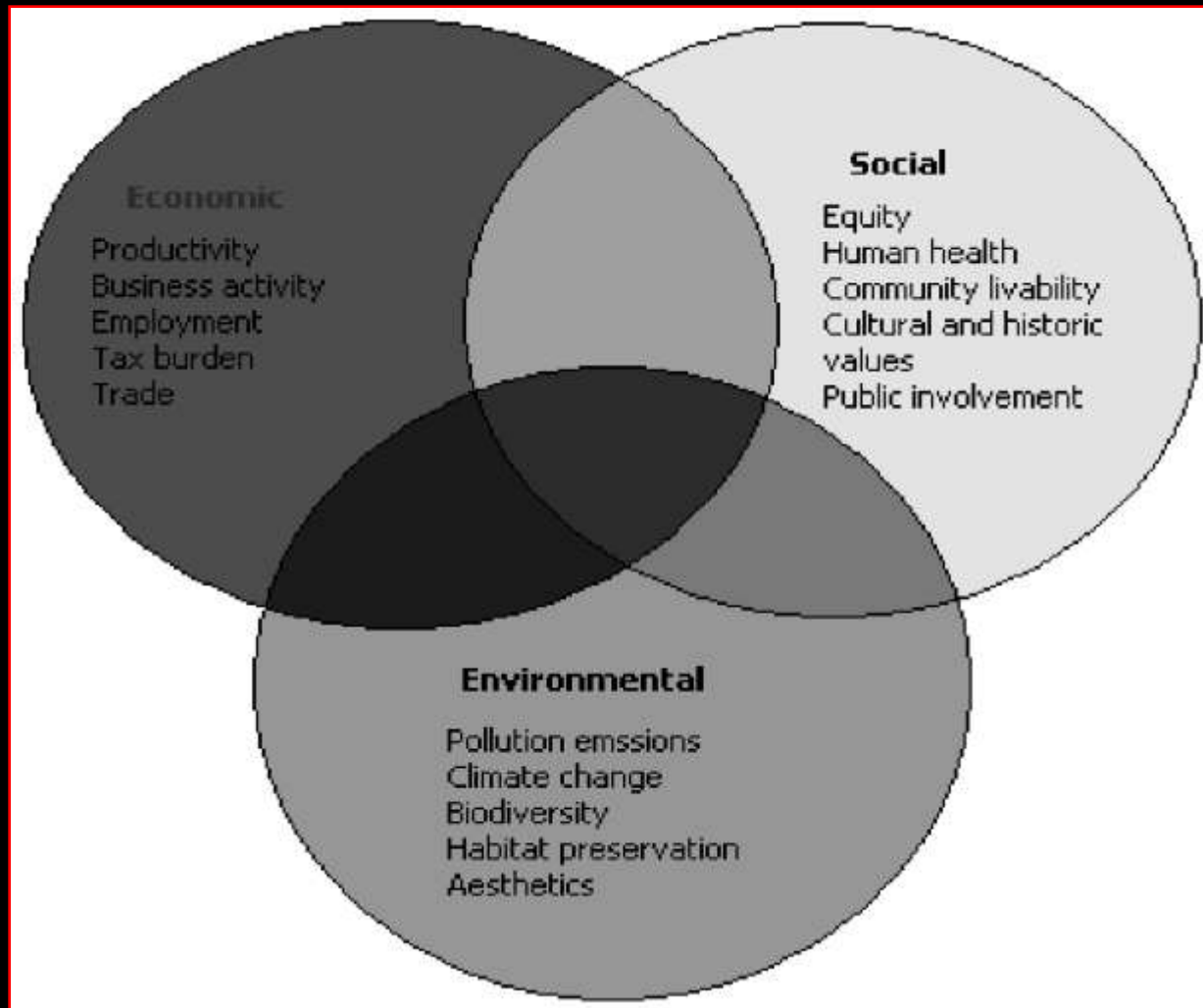
- Annual economic loss of **Php100 to 140 Billion** pesos due to traffic
- Estimated cost of **treatment and Loss income** due to pollution is roughly **Php14 Billion**
- We import **US\$10 Billion of fuel every year**



The Possibilities

- Sustainability requires more efficient equitable, and environmentally sensitive mode of transport
- Taking into account the Economic, Social and Environmental impact of transportation while reducing resource consumption

The **Right** Mix. The Right **Balance**



ZerO **Emission** Vehicle

- 1st fleet of electric jeepneys in the Philippines
- Runs purely on electricity
- LTFRB franchise granted last Feb 8, 2012 as the 1st **ePUJ**
- Started in **Makati** & Puerto Princessa. Pasig followed. Other cities & Provinces opening up
- New models from ejeepneys to etrikes



Mano y Mano

- Full Charging of Ejeepneys cost around Php160 to Php220
- At a range of 100kms, the cost is Php2 per km
- Minimal Maintenance Cost
- Cost savings on fuel equivalent to Php12-16 thousand per month

A Vehicle **for** Change

- Paradigm Shifter.
 - Women drivers
 - Fixed salary with Full benefits
 - Drivers as partners of growth
- Green Conversion
 - From ICE to EV



iNNOVATIONS

Battery Swapping Station. The game changer



Electronic Fare Collection System

- Convenient
- No revenue pilferage
- No more “Kotong”



Learnings

- Charging time decreases by 25 – 27% when charging method is >80% D.O.D.
- 37% efficiency is achieved in charging consumption when charging batteries above 80% D.O.D.
- Charging below 80% D.O.D. is more expensive & longer
- Slow chargers are more efficient than fast chargers

The **Next** Curve



Battery Swap Stations

- More battery dealers than gasoline stations
- Boost Operational Efficiencies
- Enable manufacturers to sell electric cars separately from their batteries like the way ICE vehicles are sold separately from their fuel
- Stores cheap off-peak electricity



Challenges = Opportunities



Support
Infrastructure



Lack of
Gov't
Policies



Limited
Financing
Window



Limited
Manufacturing
Capability



Social
Acceptance

BARRIERS for GROWTH

Next **Sunshine Industry**

- Technology is fast evolving
- Estimated to create up to 30K Green Jobs
- E-trikes to E-Buses coming Soon
- Manufacturing Plants for motors, controllers and vehicle assembly



SALAMAT PO!

