

Smart City

GOVERNANCE

Smart City

SOLUTION

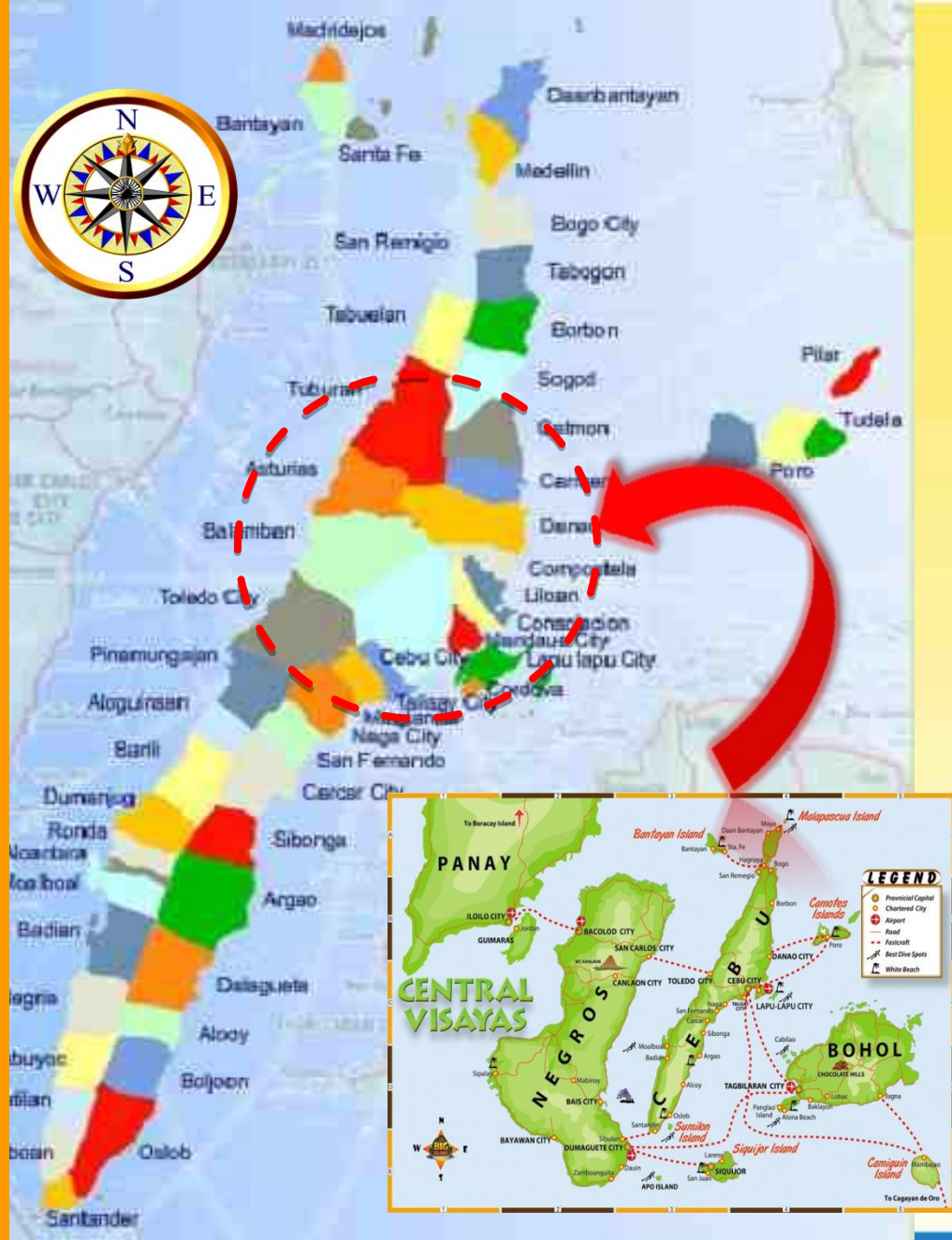
***BRT, Hybrid Road Train,
“My Bus”: Climate-Friendly
Means of Urban Transport
In Metro Cebu, Philippines***

EFREN B. CARREON

***National Economic and
Development Authority
Cebu City, Philippines***

Major Challenges :

- Rapid urbanization and economic growth (5 M people in 2050)
- New workplaces and residential areas will be distributed throughout Metro Cebu with Cebu City as core urban area
- Motorization rate – traffic
- Modes of Urban Transport
 - Public – 65%
 - Private – 35%



Institutional Setting

- 70% HHs feels that traffic congestion and air pollution are getting worse compared to 5 years ago.
- 90% think that public transport services must be improved and expanded.
- Level of satisfaction per survey:
 - Bus – crowded and noisy
 - Jeeps – crowded, noisy and air pollutants
 - Van hire - crowded, long queuing, bad terminal facilities

*JICA Study
on
Sustainable
Roadmap
Study for
Metro Cebu*



Methods, tools or instruments developed and applied to address the challenge

- The BRT Project - covers a 23-kilometre corridor that traverses through Cebu City's central business district (CBD), from Bulacao in the South West and Talamban in the North East. Financed by the government (infrastructure component) and the private sector (bus units, mgt. and operation). Eng'g design on-going.



Methods, tools or instruments developed and applied to address the challenge

The Hybrid Road Train - designed by Filipino engineers and made with locally available parts, the 40-meter long train-like bus is an alternative means of transportation to the mass transportation dilemma in metro roads.

The road train is composed of 5 interconnected aircon coaches 4 of which can accommodate 60 passengers or total of 240. The last one is the power coach. Can run with maximum speed of 50 kph, powered with hybrid diesel fuel and electric-powered battery.



Methods, tools or instruments developed and applied to address the challenge

“My Bus” Project – privately-operated, deploys high quality buses that can interface with existing traffic, as well as with the Bus Rapid Transit (BRT).

Buses are air-conditioned and of low-platform design and uses environment-friendly, state-of-the-art Euro-5 emission compliant diesel engines. Operated like a BRT system complete with bus stops/stations, and electronic card-based fare collection system.



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Lessons learned:

- Social preparation is important because of opposition from jeepney drivers who will be displaced by the new transport systems.
- Difficulty in right-of-way (ROW) acquisition especial in the urban core.
- Expensive ROW acquisition.
- New way of doing things.

Preconditions to Replication:

- Strong leadership especially in the local governments
- Active private sector – new ideas and financial resources
- Strong social awareness