Reaction from the Academe

Dr. Alexis M. Fillone
Professor, Civil Engineering Department
De La Salle University Manila

CONTENTS

A. Definition of Terms
B. Issues in Logistics / Goods Movement
C. Commendable DPWH Programs
D. Research in the Academe

A. Definition of Terms

Logistics is part of the **supply chain process** that **plans**, **implements**, and **controls** the efficient, effective forward and reverses flow and storage of goods, services and related information between the **point of origin** and the **point of consumption** in order to meet customer's requirements

Supply chain management involves collaboration between firms to connect suppliers, customers, and other partners as a means of boosting efficiency and producing value for the end consumer.

Considers **supply chain management** activities as strategic decisions, and set up the operational framework within which **logistics** is performed

(Definition by Michigan State University Prof. Donald Bowersox, D. Closs and M.B. Cooper in *Supply Chain Logistics Management*)

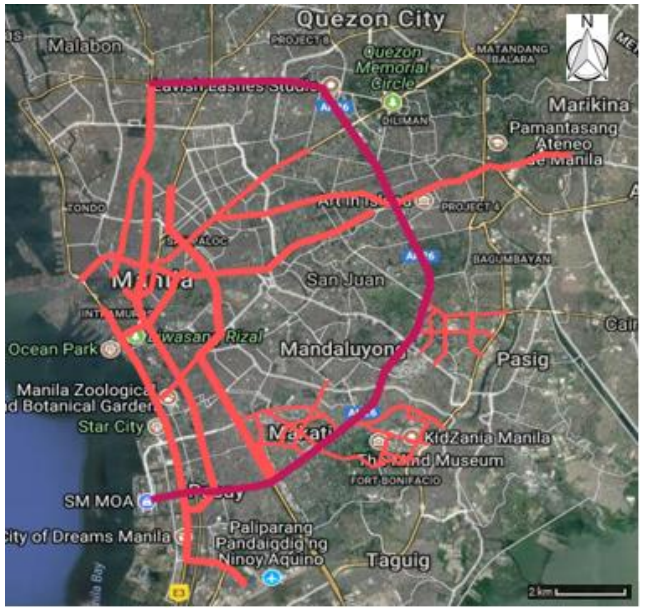
B. ISSUES IN LOGISTICS / GOODS Movement

- Truck/logistics routes should be studied and well defined especially its connection to major transport infrastructure facilities like ports and airports

Future bridge adjacent to MICT

ISSUES IN LOGISTICS / GOODS Movement

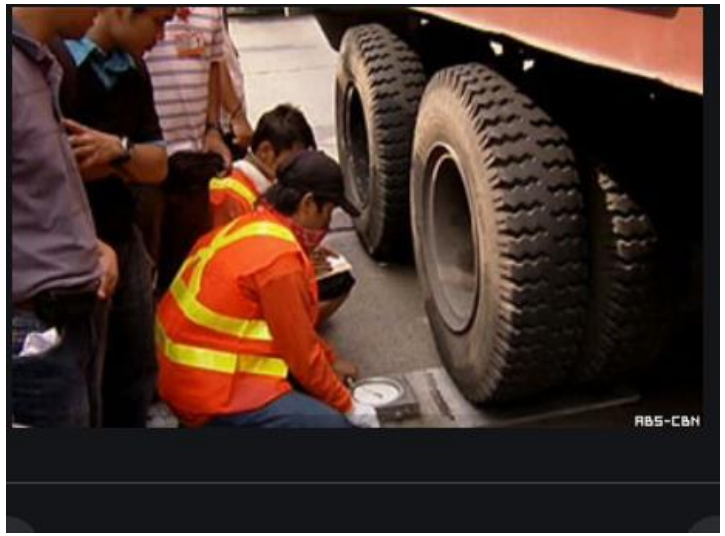
- Rest area for trucks should also be provided and properly located especially along major routes and also near cities with existing truck ban regulations



MMDA's Truck Ban in Metro Manila

ISSUES IN LOGISTICS / GOODS Movement

- Truck overloading should be properly monitored and intensified since this is one main cause of pavement deterioration as well as traffic accidents

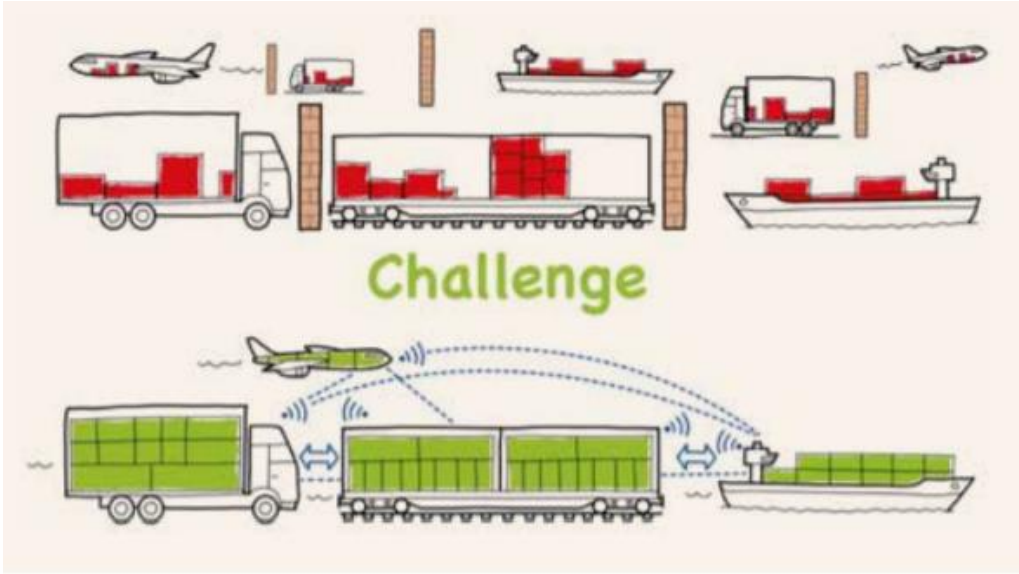


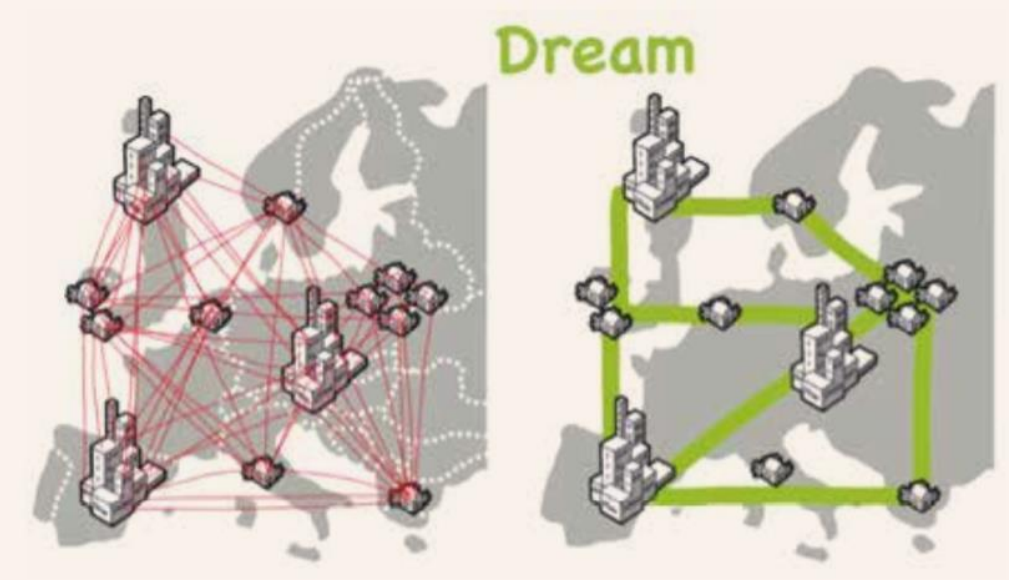
Highway failure due to cheap construction and overloaded truck. Manila, Philippines 6/23/2019

Structural Failure

ISSUES IN LOGISTICS / GOODS Movement

- Road transport system/land-based logistics system should also be planned in coordination with maritime and air transport. These may involve the DPWH, MMDA, DOTr, DOT, and DILG.
- Seamless integration of water, sea and air transport should be pursued given the archipelagic nature of the country





ISSUES IN LOGISTICS / GOODS Movement

- DPWH should also work/plan the road network with more LGU coordination LGUs

- There are also issues (traffic congestion) with regards to entry/exit ramps of expressway systems as they connect to the national or local roads. The Expressway operator should have close coordination with DPWH, MMDA, and LGU in the design of their entry and exit ramps.

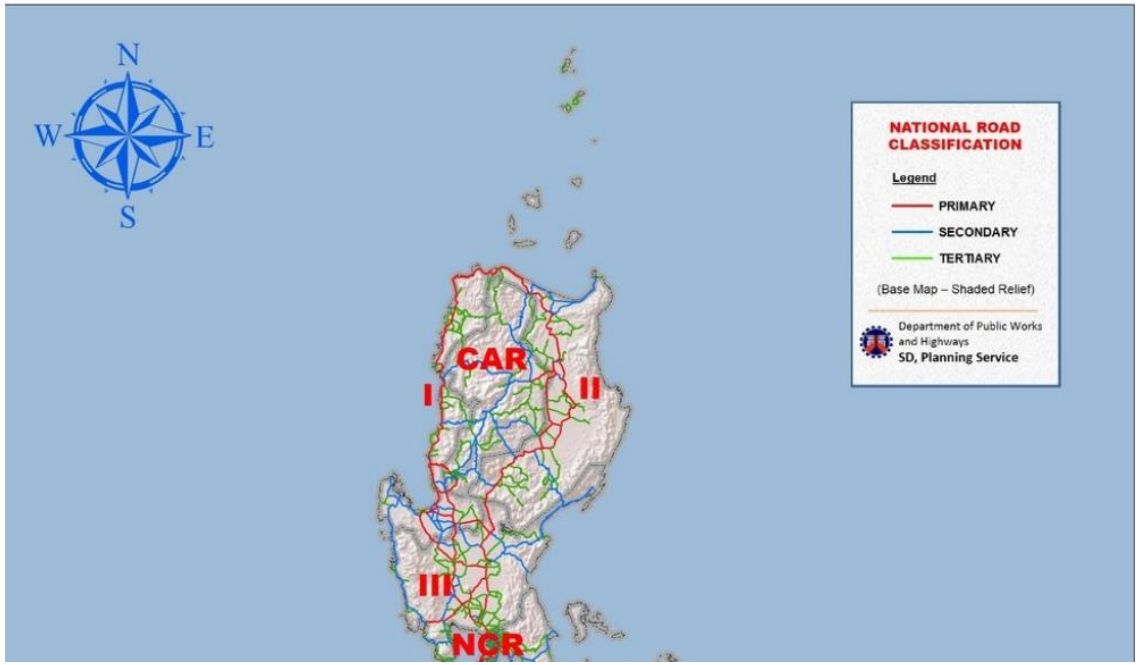
B. Commendable DPWH Programs

Significant Database Development by DPWH

- Updated nationwide database of existing roads and bridges of DPWH and their location in GIS map
- Also, through the DPWH website, list of ongoing project and their status are provided

ROAD DATA

BRIDGE DATA

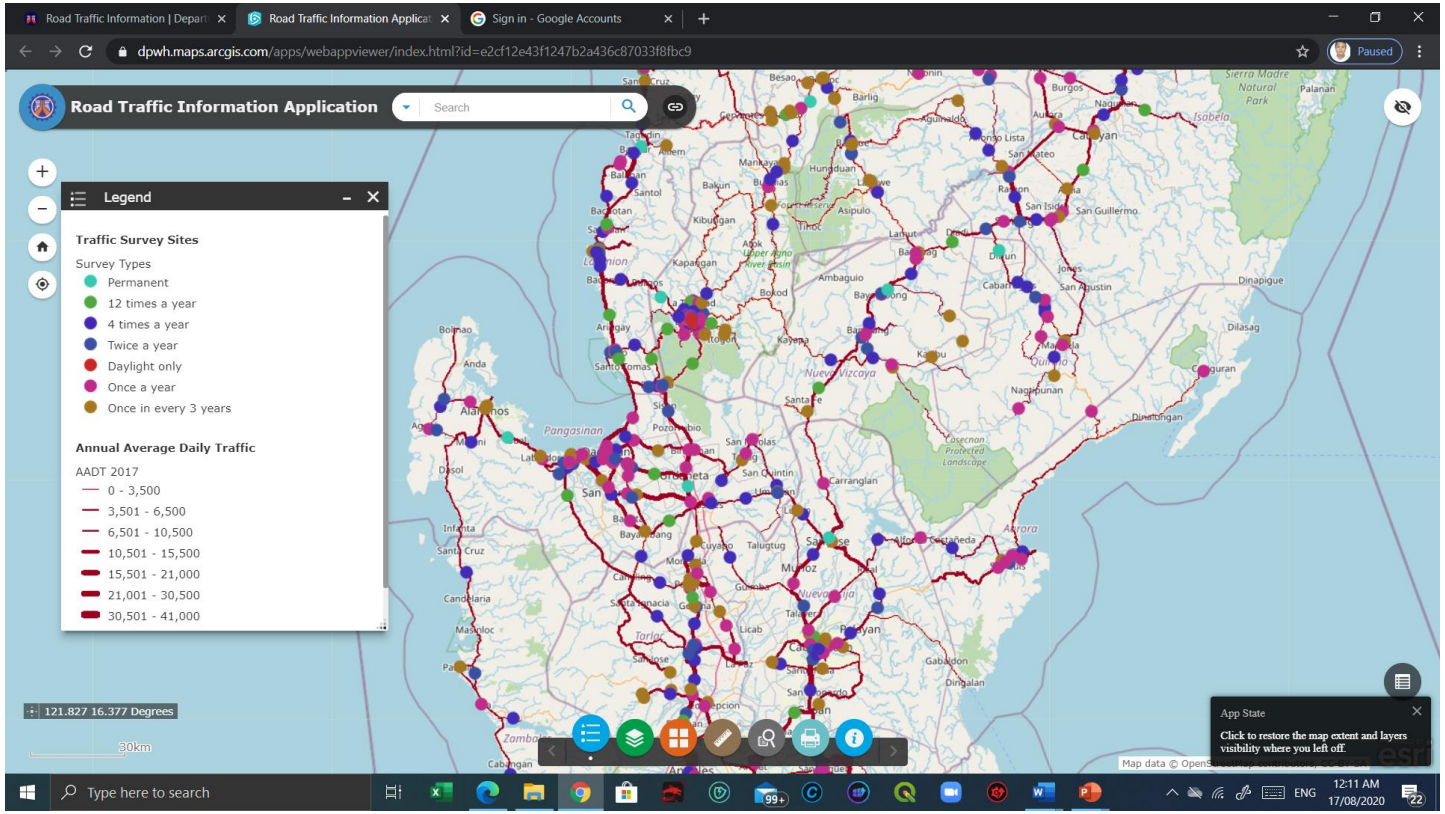


Significant Database Development

- Data about the Average Annual Daily Traffic (AADT) all over the country, are posted in the DPWH website

- May need to update the AADT information, latest is year 2017

- Other important information and manuals are available in the website



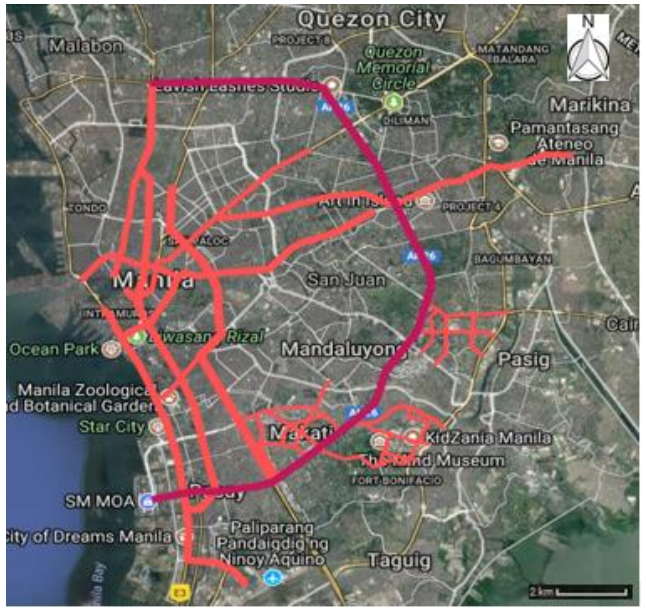
- DPWH career development support for its workforce?
  - Graduate program support?
  - Several MS/PhD students at DLSU-Manila

Research in the Academe

De La Salle University-Manila

STUDY OF TRUCK ROUTES IN METRO MANILA

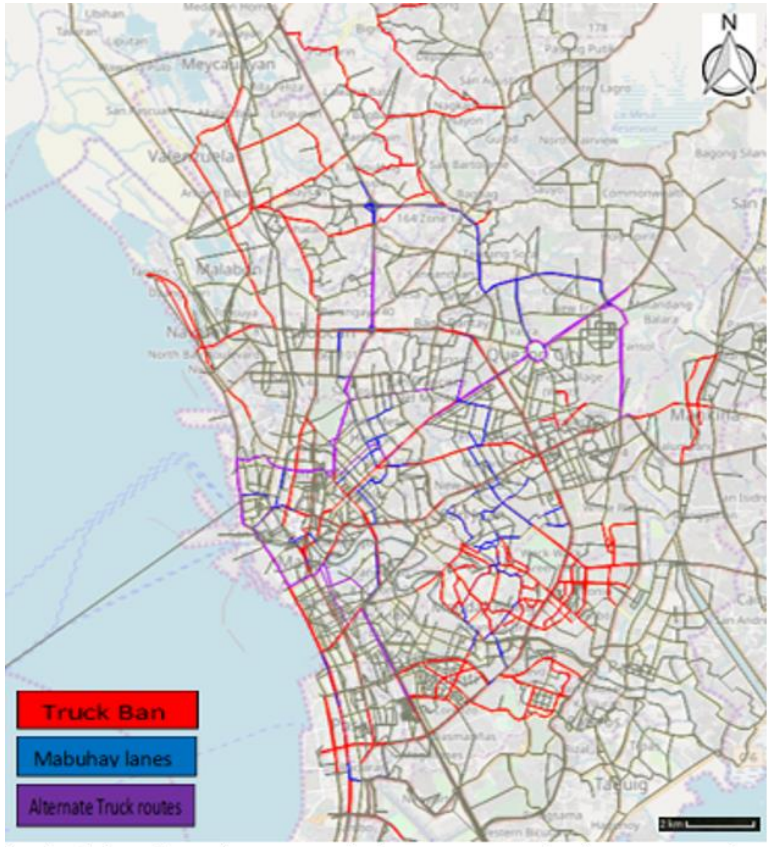
One of the objectives is to improve truck movement by opening additional truck routes in Metro Manila especially those going to/coming from the port and airport.



MMDA's Truck Ban in Metro Manila

Table 3. Truck Ban Ordinance of Every City in Metro Manila

City	Ordinance No.	Truck Ban Time
Manila	8092	6:00am-9:00am, 4:00pm-9:00pm
Caloocan	0391, s. 2005	6:00am-9:00am, 4:00pm-8:00pm
Las Pinas	652-04	6:00am-9:00am, 4:00pm-8:00pm
Makati	2011-010	6:00am-9:00am, 4:00pm-8:00pm
Malabon	May-06	6:00am-9:00am, 4:00pm-8:00pm
Mandaluyong	639, S-2016	6:00am-10:00am, 5:00pm-10:00pm
Marikina	259, series of 1997	5:00am-9:00am, 4:00pm-9:00pm
Muntinlupa	11-022	6:00am-10:00am, 4:00pm-9:00pm
Navotas	2015-02	6:00am-10:00am, 4:00pm-8:00pm
Paranaque	05-04, series of 2004	6:00am-9:00am, 4:00pm-8:00pm
Pasay	2916, series of 2004	6:00am-10:00am, 5:00pm-10:00pm
Pasig	23	6:00am-10:00am, 5:00pm-10:00pm
Quezon City	1444, s-2004, 604, S-97, 1989, S-2009, 2004, S-2010, 2572, S-2017	6:00am-10:00am, 5:00pm-10:00pm
San Juan	37, series of 2004	6:00am-9:00am, 4:00pm-8:00pm
Taguig	103, series of 2003	6:00am-9:00am, 4:00pm-8:00pm
Valenzuela	113, series of 2014	6:00am-10:00am, 5:00pm-10:00pm
Pateros	2005-019	6:00am-9:00am, 4:00pm-8:00pm



Combined Links of Truck Ban, Mabuhay Lanes, and Alternate Truck Routes

DOST-PCIEERD-funded research project (2020-2021)

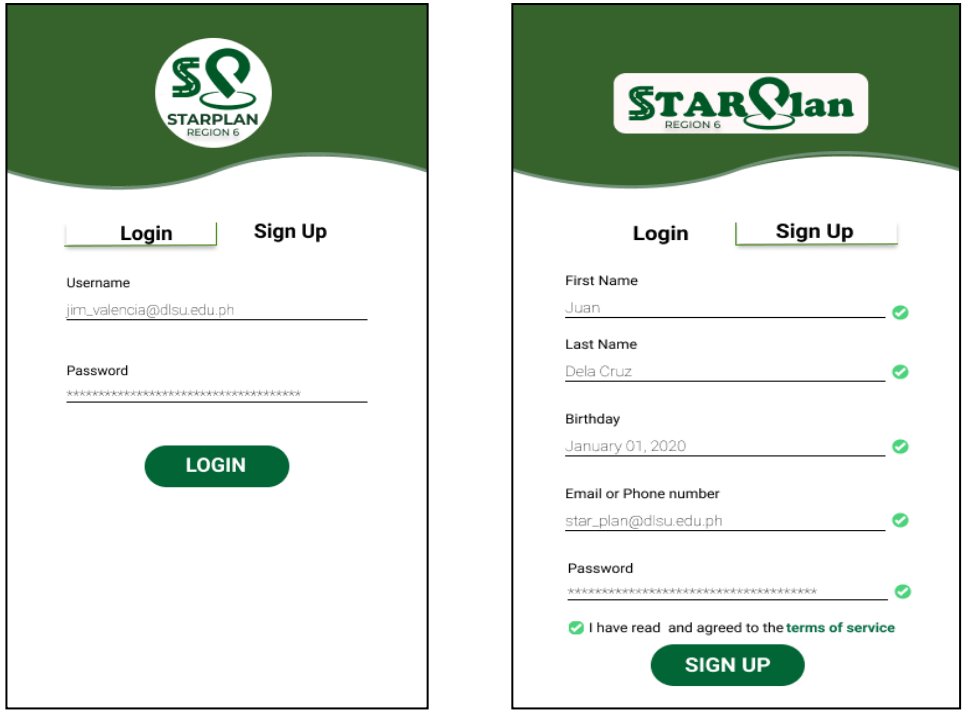
Sustainable Technology-Assisted Route Planning for Region VI (STARPLAN-VI)

- The overarching objective of this program is to support the development of a sustainable local public transport route plan that integrates the road and maritime transport network of Region VI through the use of developed technologies for the transport sectors.

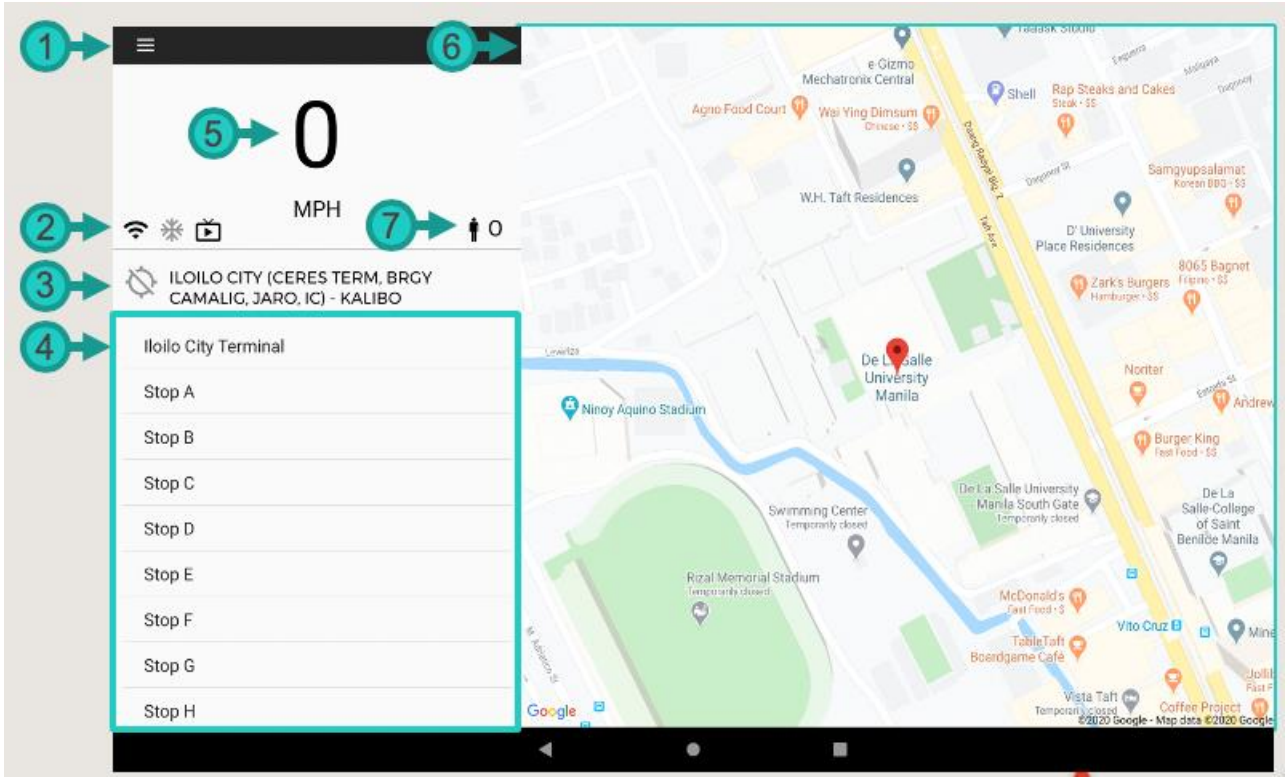
ATLAS that stands for **Advanced Traveler Assistance System**

ATLAS will have three different variation with three target users.

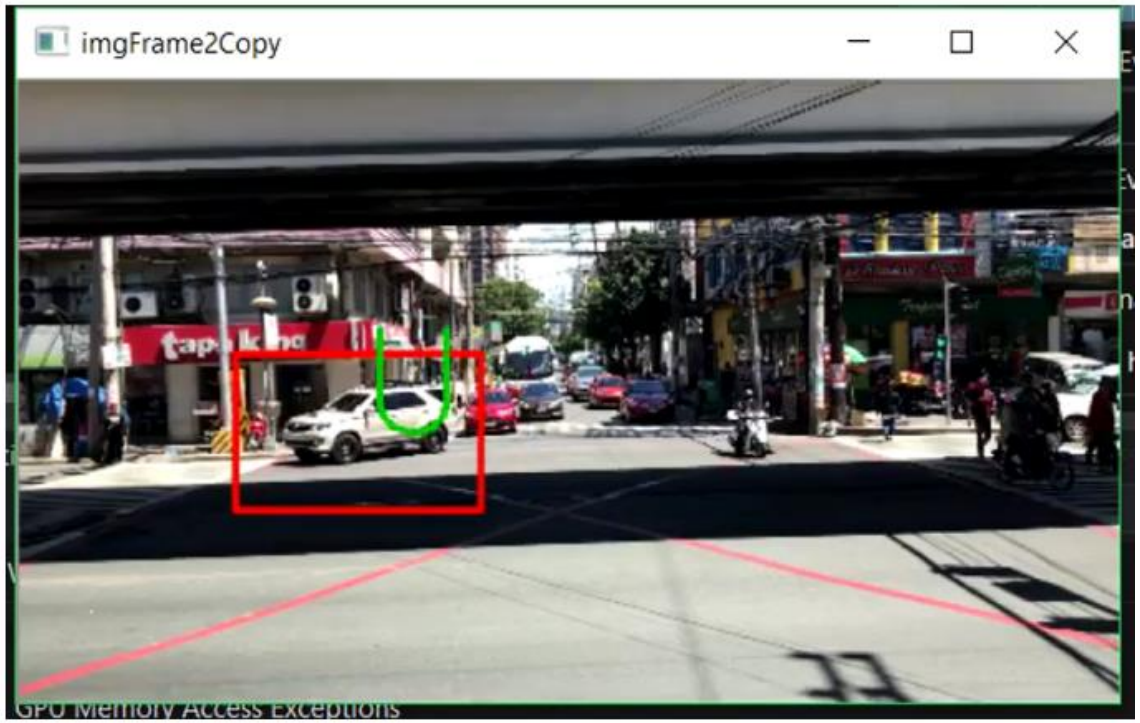
1. ***For passengers***. This will give information regarding the schedule of different mode of transportation and routes in the area.
2. ***For drivers***. The driver will have a view on the route, speed, and the number of passengers inside the bus
3. ***For PUV operators or companies***. Information such as location of their buses, number of passengers served by each bus are features that can be shown and provided by the application.



Login Page, Sign Up Page



- Use of ITS technology in vehicle counting and vehicle classification



Bus passenger counter being developed under STARPLAN VI

Motorcycle and pedestrian video recognition

END

THANK YOU!