Smart Transport Calabarzon



Bringing the best of smart connectivity solutions to the transportation and traffic management professionals of the Philippines

Smart Transport Calabarzon is a multi-sector working group formed in response to the 2018 Smart Infrastructure Challenge

About Smart Infrastructure

The Institute of Electrical and Electronics Engineers (IEEE) focuses on 6 themes for Smart Infrastructure:

- Economy - Mobility Environment - People
- Lifestyle
- Governance



Smart Infrastructure uses IoT and connectivity to improve those themes for its citizens

Smart Regions Flanders, Belgium

In Belgium, the "Smart Flanders" program supports 13 central cities in the Flanders region in their development into smart cities, including the port city of Antwerp. Smart Flanders does this by focusing on real-time open data and shared reference models and aims to stimulate cooperation between cities and actors from the quadruple helix. Leveraging its "learning by doing" approach, Smart Flanders focuses on making data as accessible as possible, with a view to maximum reuse as a basis for smarter services and applications. (source: The power of collaboration for the digital



Calabarzon is positioned and capable of becoming the first reference model for the Philippines. Traffic and Transportation have been identitfied as a top-proirity by the Calabarzon Regional Planning Council. Large and small municipalities can benefit from this regional data-sharing & reference model approach

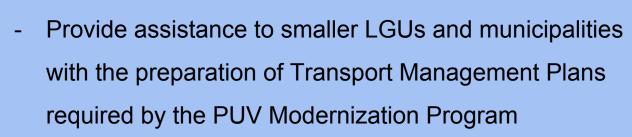


What Problems are we solving?

- Population growth and increased traffic congestion.
- LGUs lack of resources and expertise to develop better transportation plans
- Sensors are expensive, require expert operation and may only be needed temporarily in the planning process
- A lack of regional scale collaboration and data-sharing can be a barrier to the planning
- Regional flooding and public health issues caused by transportation infrastructure
- The impacts of regional fooding on the reliability and efficiency of regional transportation
- Disabled peoples have virtually no accessibility options in most existing public infrastructure
- Flooding and extreme weather events are getting more serious
- The anticipated gap in understanding between local/traditional cultures and the vocabulary of the emerging international standards and best-practices

Phase 1 - End of 2018

- Short-term leasing of Al-enabled smart traffic counting technologies for institutions and LGUs



Compilation of LGU plans into a reference model for other municipalities

Data warehousing and custodianship by State Universities for incorporation into regional scale studies and planning

Regional-scale data-processing and warehousing procedures at State Universities

State University Contributions

- GIS data compilation and grooming
- Regional to city scale studies on natural hazards and transport
- A Transport and EV Centre for Excellent
- Next-generation disaster response technologies including the TOAD developed by BSU and a POC porous/absorbent highway

P3 Partnerships

Public-Private-People Partnerships are a known and accepted means for generating financing for public infrastructure projects in the Philippines.

- Smart Transport Calabarzon was given an opportunity to present at the 2018 Transport Forum
- The ADB has funded transport terminals via P3 in Calabarzon in the past 10 years
- In August 2018, the ADB announced up to \$300M in P3 funding for the Philippines
- Smart Transport Calabarzon is seeking private international partners to participate in this growing
- Our group's top-priority for advancing our upcoming

Smart Transport projects is

Financing for Local Government Units to implement the results of their transport planning process

PHILIPPINES:

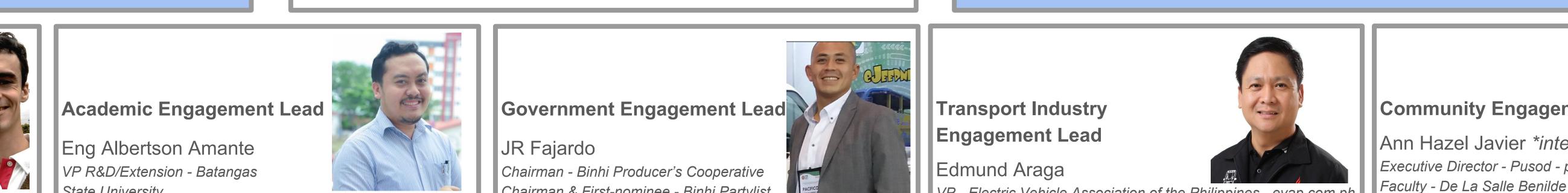
PUBLIC-PRIVATE PARTNERSHIPS

BY LOCAL GOVERNMENT

AD8

Our Project Portfolio

- 1. Data Collection and Transport Management Plans
- 2. Financing for Local-Government Units
- 3. Community Engagement
- 4. Flood-resilient (absorbent) roadways *POC with Lafarge Holcim*
- 5. Data Platform buildout 6. Wheelchair lifts for pedway overpasses near hospitals *With World Disability Union*
- 7. National Standards Development & Localization *With Venture Smarter?!?* ;)
- 8. Electric Vehicle Connectivity Network



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State University

19 Cities

segments

124 Municipalities

Chairman & First-nominee - Binhi Partylist For more info: wikipedia.org/wiki/Party-list_representation_in_the_House_of_Representatives_of_the_Philippines

Exclude cities within National Capital Region (?) to focus our attention on non-metropolitan

VP - Electric Vehicle Association of the Philippines - evap.com.ph