



BORACAY ROKAS CITY AKLAI CAPIZ ANTIQUE ILOILO BOILD OTY SAN JOSE D DE BUENAVER COLOD GUIMAR NEGROS OCCIDENTAL Region VI

The Study Area

STARPLAN VI

Alexis M. Fillone

Project Leader

Team Members: Dr. Elmer DADIOS Dr. Robert BILLONES Dr. Marlon ERA Dr. Nicanor ROXAS Jr. Dr. Raymund ABAD Dr. Krister ROQUEL Engr. Kervin Lucas Engr. John Anthony JOSE Engr. John Carlo PUNO and RESEARCH STAFF

PRIMARY OBJECTIVE

The overarching objective of this program is to support the development of a sustainable local public transport route plan that integrates the road, air, and maritime transport network of Region VI using developed technologies.





Made with Emme. Map tiles @MapTiler @OpenStreetMap contributors

Figure 4. Trips covered for PUV route planning in Region VI

Specific Objectives:

- To integrate the air-, road- and water-based transport services of Region VI from the regional, provincial, city down to the municipal level
- To develop transport application tools that can be used in route planning and also by travelers in Region VI
- To train and provide both the software and hardware public transport planning tools to the local government staff and university faculty and staff
- To help strengthen the monitoring and evaluation component of public transport planning process through the establishment of monitoring schedules and standards
- To model and assess the impact of proposed major transport infrastructure projects in Region VI using a developed economic assessment tool



Figure 2. The Conceptual Framework of the Study



Figure 3. The Tripartite Relationship between the Government (local and national), Universities, and Operators and Drivers

METHODOLOGY



MOA for the 4 parties

Donate transport planning software to schools and hardware & software to LGUs

Research

Train on the use of software both in transport planning and technology applications tools

DOST-PCIEERD

Budget



Expectation: Trained LGU staffs are able to easily update and sustain the route plan of their respective province and city while local universities can provide the technical support and manpower. Universities can also conduct continuous training and research in route planning

Budget:

| | DLSU Counterpart (20% of PCIEERD fund) | **LGU Counterpart | ***SUC/Priv. Univ. Counterpart | PCIEERD-GIA (& *DOTr) | TOTAL |
|-----------|--|----------------------|--------------------------------------|--------------------------|---------------|
| Y1(2020) | 2,366,279.36 | 450,000.00 | 1,560,000.00 | 11,831,396.80 | 16,207,676.16 |
| Y2 (2021) | 1,379,279.36 | 450,000.00 | 00.00 | 6,896,396.80 | 8,725,676.16 |
| TOTAL | 3,745,558.72 | 900,000.00 | 1,560,000.00 | 18,727,793.60 | 24,933,352.32 |

*During the Meeting with DOTr – Road Transport they will support the project, however PCIEERD is to submit the Liquidation Reports ** Use of space and room during workshops specific to the LGU (city and province), the LGU may also provide food or meals if their budget would allow ***Use of space and room during workshops specific to the University, the University may also provide food or meals if their budget would allow

RPTRP SUMMARY OF EXPECTED OUTPUTS

- An LPTRP that integrates air-, land- and sea-based transport services in Region VI
- Android application tool that can be used by travelers in Region VI
- Enhanced bus passenger counter for bus scheduling and monitoring
- **Bus scheduling tool** that can be used by LTFRB and LGUs in their monitoring as well as by operators/service providers in their fleet management
- Economic assessment tool that can be used by local planners/government agencies in their evaluation of projects
- Transport manuals for local route planning, monitoring and evaluation with emphasis on the regional level
- Capacitated local planners/LTFRB staff/SUC or Private University faculty and students in transport planning and engineering/application and programming tools
- Journal publications and paper presentation in conferences
- PhD and MS student graduates

Sample Output of EMME4 Transportation Planning Software



Passenger Trips in Guimaras Province PUJ Routes in Guimaras Province

Passenger Flow in Guimaras Province

Sample Output of EMME 4 – Transportation Planning Software, Iloilo Province



Origin and Destination Trips from the Home Interview Survey

Passenger Trip Movements in Iloilo Province

Transport Network Development



Kalibo, Aklan







Iloilo City



Roxas City / Capiz

Bacolod City/Negros Occ.

NEXT STEPS

Remaining of Year 2020

- Memorandum of Agreement between DLSU, LGU(s) and SUC(s)/Priv. Univ.
 Distribute the transport planning software (SUC(s) & LGU(s)) and laptop to LGU
- Online training of transportation planning software (EMME4) Oct. 2020
- Online training in transport application tools/programming Nov. 2020

Year 2021

- Field training and exercises in transportation planning surveys
- Onsite training on processing of survey data by province and city
- Onsite training on the use of the transportation planning software, EMME4
- Field Experimentation with transport application tools (i.e. bus passenger counter, ATLAS application tool, vehicle counter)
- Testing of economic evaluation/assessment tool
- Monitoring and evaluation exercises of PUV route(s) using developed manual





EXCERPTS FROM THE MINUTES OF THE PROVINCIAL DEVELOPMENT COUNCIL MEETING HELD AT THE EDUCATIONAL MEDIA CENTER, CENTRAL PHILIPPINE UNIVERSITY, JARO, ILOILO CITY ON OCTOBER 21, 2019.

Present

| 1. | Hon. Samuel T. Gumarin, M.D., M.P.H. | Governor & PDC Chairperson |
|-----|---|--|
| 2. | Hon. Ma. Lucille L. Nava, M.D. Represented by Atty. Carissa Ann Eñano, PAO III | Congresswoman, Lone District of Guimaras |
| 3. | Hon. Ruben B. Corpuz Represented by Mr. Rodolfo Gamarcha, MPDC | Mayor, Municipality of Jordan |
| 4. | Hon, Eugenio G, Reyes Represented by Mr. George Roderick Calibjo, Admin Aide III | Mayor, Municipality of Buenavista |
| 5. | Hon, Emmanuel C. Galila Represented by Ms. Zurinie G. Zaklivar, MPDC | Mayor, Municipality of Nueva Valencia |
| 6. | Hon. Ninfa G. Gajo Represented by Ms. Catherine Ann L. Gaurana, MPDC | Mayor, Municipality of San Lorenzo |
| 7. | Hon, Annabelle V. Samaniego | Mayor, Municipality of Sibunag |
| 8. | Dr. Ofelia D. Garfin | Taos Puso Foundation, Inc. |
| 9. | Mr. Adonairam S. Catapia | Officer-in-Charge, Philippine Red Cross Guimaras Chapter |
| 10. | Ms. Ana Eva G. Villanueva | President, Guimaras Provincial Retirees Association, Inc. |
| 11. | Mr. Agustin L. Zaragoza | Representative, Lopez Group Foundation, Inc |
| 12. | Mr. Ramon P. Marañon | Chairperson, PAFC - Guimaras |
| | | |

routes in their localities, and the local State Universities/Colleges for them to acquire a transport planning software that can be used for teaching laboratory class as well as to serve as the local provider of technical knowledge and skills to the LGUs in their respective provinces;

WHEREAS, the project will help sustain the effort that was started by the Provincial Government of Guimaras in collaboration with its component municipalities and the Philippine Councilor's League - Guimaras Chapter in the crafting of the LPTRPs with technical assistance from Dr. Fillone;

WHEREAS, based on the above-mentioned premises, the Body is convinced that the project will be beneficial to the LGUs, hence, it strongly supports the above-mentioned research proposal of Dr. Alexis M. Fillone:

NOW, THEREFORE, on motion of Mr. Ramon Marañon of PAFC-Guimaras, which was duly seconded by Mr. Agustin Zaragoza of the Lopez Group Foundation, Inc. and President of the newly organized Federation of Guimaras CSOs, BE IT RESOLVED AS IT IS HEREBY RESOLVED to endorse to the DOST the request of Dr. Alexis M. Fillone to consider his research proposal entitled, "Sustainable Multi-Modal and Integrated Transport Plan and Implementation for Region VI (SMIT-PLAN VI)" for funding in 2020.

RESOLVED FURTHER to furnish copy of this resolution to the DOST through Dr. Fillone for information and appropriate action.

Carried.

I hereby certify to the correctness of the foregoing resolution.

NOLINDA G. RONZALES OIC-PPDC & Acting PDC Secretary

Attested by:

SAMUEL T. OUMARIN, MD. MPH Governor & PDC Chairperson



Commitment of Supports

TELEPHONE NOS. (033) 336-8151 (033) 337-1739 TELEFAX NO. (033) 337-4230 E-MAIL: art defensoria vahoo.com

Arthur D. Defensor GOVERNOR

January 24, 2019

REPUBLIC OF THE PHILIPPINES

PROVINCE OF ILOILO

OFFICE OF THE GOVERNOR

DR. ENRICO C. PARINGIT **Executive Director** Philippine Council for Industry, Energy and Emerging Technology Research and Devt. (PCIEERD) Department of Science and Technology Bicutan, Taguig City

Dear Dr. Paringit:

Greetings from the llonggos!

This is to inform your good office that the Iloilo Provincial Government is fully supportive of the research proposal "Sustainable Multimodal & Integrated Transport Plan and Implementation for Region VI (SMITPLAN-VI)" for funding consideration in Year 2020, under its project leader, Dr. Alexis M. Fillone, Professor of the Transportation Engineering Division, Civil Engineering Department, De La Salle University-Manila, who hails from this Province.

We recognize that the main objective of the research is to sustain the public transport route planning of Iloilo Province, and Region VI as a whole, in order to provide better and efficient public transport service to the riding public. We also believe that the result of said research will greatly help us in our endeavors to provide adequate, effective, and efficient transportation facilities to facilitate access and improve mobility of llonggos.

We look forward to the realization of the research proposal for the benefit our commuters and as a gesture of support, the Iloilo Provincial Government is willing to provide in-kind support in important activities of the research project.

Thank you very much.

Sincerely ARTHUR D. DEFENSOR, SP

Republic of the Philippines CITY OF ROXAS

September 9, 2019

DR. ERIC PARINGIT

Executive Director Department of Science and Technology Philippine Council for Industry, Energy and Emerging Technology & Research & Development (PCIEERD) Bicutan, Taguig City

Dear Dr. Paringit:

Greetings from the llonggos !

This is to inform your good office that the Roxas City Government of Capiz, is fully supportive of the research proposal "Sustainable Multimodal & Integrated Transport Plan and Implementation for Region VI (SMITPLAN-VI)" for funding consideration in Year 2020, under its project leader, Dr. Alexis M. Fillone, Professor of the Transportation Engineering Division, Civil Engineering Department, De La Salle University-Manila.

We recognize that the main objective of the research is to sustain the public transport route planning of Roxas City, Capiz and Region VI as a whole. We also believe that the result of said research will greatly help to provide adequate, effective, efficient transportation facilities to facilitate access and improve mobility of our people and most probably to come up with the Transportation System Management (TSM).

Looking forward to the realization of the research proposal for the benefit of our commuters. As a gesture of support, The Roxas City Government is willing to provide in-kind assistance in important activities of the research project.



vzobispo Street, Roxas City, 5800 Tel.: (036) 621-0500 – (036) 621-204 y.ph; Email: cmoroxascity19@gmail.com



Republic of the Philippines Department of Transportation LAND TRANSPORTATION FRANCHISING AND REGULATORY BOARD Region VI, Iloilo City

28 January 2019

DR. ERIC PARINGIT Executive Director Department of Science and Technology Philippine Council for Industry, Energy And Emerging Technology Research & Deverlopment (PCIEERD) Bicutan, Taguig City

Dear Dr. Paringit.

The Land Transportation Franchising and Regulatory Board (LTFRB) Region VI nis fully supportive of the research proposal titled, "Sustainable Multimodal & Integrated Transport Plan and Implementation for Region VI (SMITPLAN - VI)" for funding consideration in ear 2020 under its project leader, Dr. Alexis M. Fillone, Professor of the Transportation Engineering Division, Civil Engineering Department, De La Salle University - Manila, whose main objective is to integrate, fully implement and sustain the Public Transport Route Planning of Region VI in order to provide better and efficient public transport service to the riding public in the Region.

Further, LTFRB VI is willing to provide in-kind support during important activities of the research project.

Very truly yours RICHARD Z. OSMEÑA **Regional Director**

Quintin Salas, Jaro, Iloilo City Tel. No. 329-4385 / Fax No. 329-4385



Thank you to DOST-PCIEERD for the approval of this research project!

Thank you ALL for your kind attention!

END



