



**15TH NATIONAL
CONVENTION
ON STATISTICS**

03-05 OCTOBER 2022

*Organized by the Philippine Statistical System
Spearheaded by the Philippine Statistics Authority*



ASTIG Tech

(Augmented System for Travel Information using GIS Technology)

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What is the ASTIG Tech?

- The **Augmented System for Travel Information using GIS Technology** or simply known as ASTIG-Tech is designed to record and plot on map all travel information of PSA employees from official point of origin to destination.





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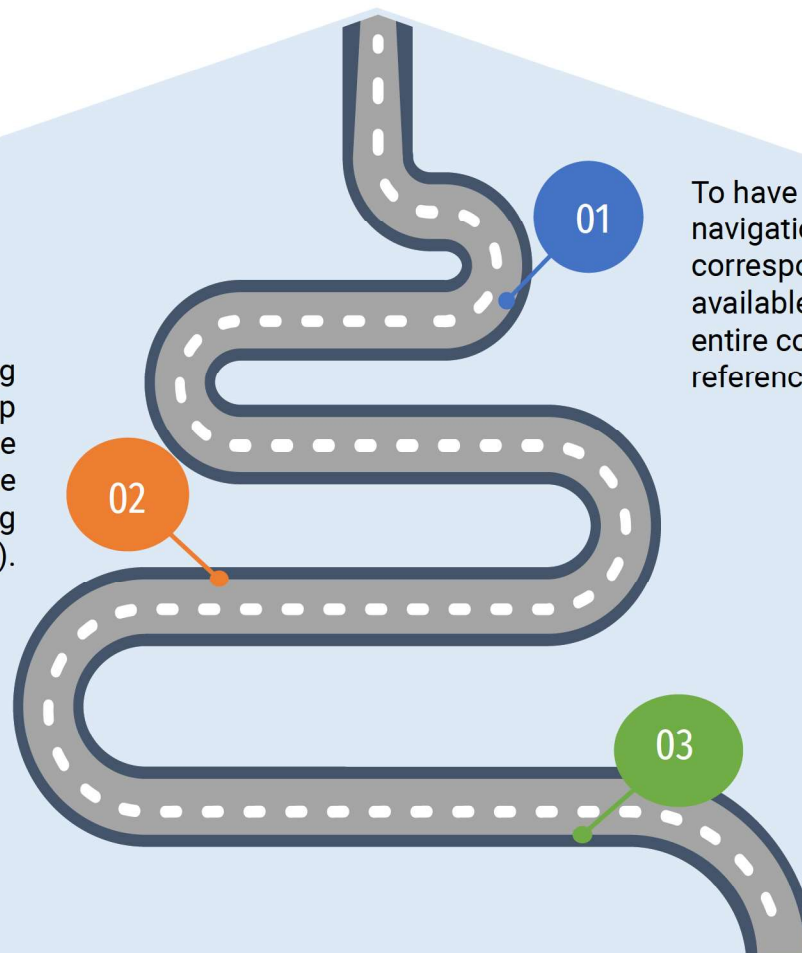
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Objectives

The system will be loaded to the existing digitized city/municipality and barangay map that can be updated from time to time depending on the availability of adjusted fare matrix from Land Transportation Franchising and Regulatory Board (LTFRB).



01

To have DATABASE of turn-by-turn navigation information with corresponding fare matrix for the available mode of transportation in the entire country that can be used as reference for PSA field operations.

02

03

To serve as BASIS in determining the expected travelling expenses and manhours required for the PSA personnel especially during census and survey operations.



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DATA ITEMS

Col. 1 : Travel ID Number
Col. 2 : Route Number
Col. 3 : Segment Number
Col. 4 : Route Type
Col. 5 : Place of Origin
Col. 6 : Place of Destination
Col. 7 : Distance (in km)
Col. 8 : Road Type
Col. 9 : Topographical Features
Col.10: Mode of Travel
Col.11: Duration of Travel (in mins)
Col.12: Frequency of Trips
Col.13: Fare (one-way)



ROUTE TYPE

1. RSSO to CO
2. RSSO to other RSSO
3. RSSO to PSO of the Same Region
4. RSSO to Provincial LGU Offices of the Same Region
5. PSO to CO
6. PSO to PSO of the same region
7. PSO to City/Municipal Hall of the Same province
8. City/Municipal Hall to Other City/Municipal Hall of the Same province
9. City/municipal Hall to Barangay Hall
10. Barangay Hall to Other Barangay Hall of the Same Municipality



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ASTIG Tech Process Flow

01

Encoding of Travel Information in the ASTIG Tech Web Application based on the accomplished ASTIG Tech Form

02

Data validation check through the Data Processing Module in the ASTIG Tech Web Application

03

Downloading of encoded Tabular Data in the ASTIG Tech Web Application

04

Plotting of routes and route segments using ArcGIS Pro ; and uploading on the Travel Information System Web Application

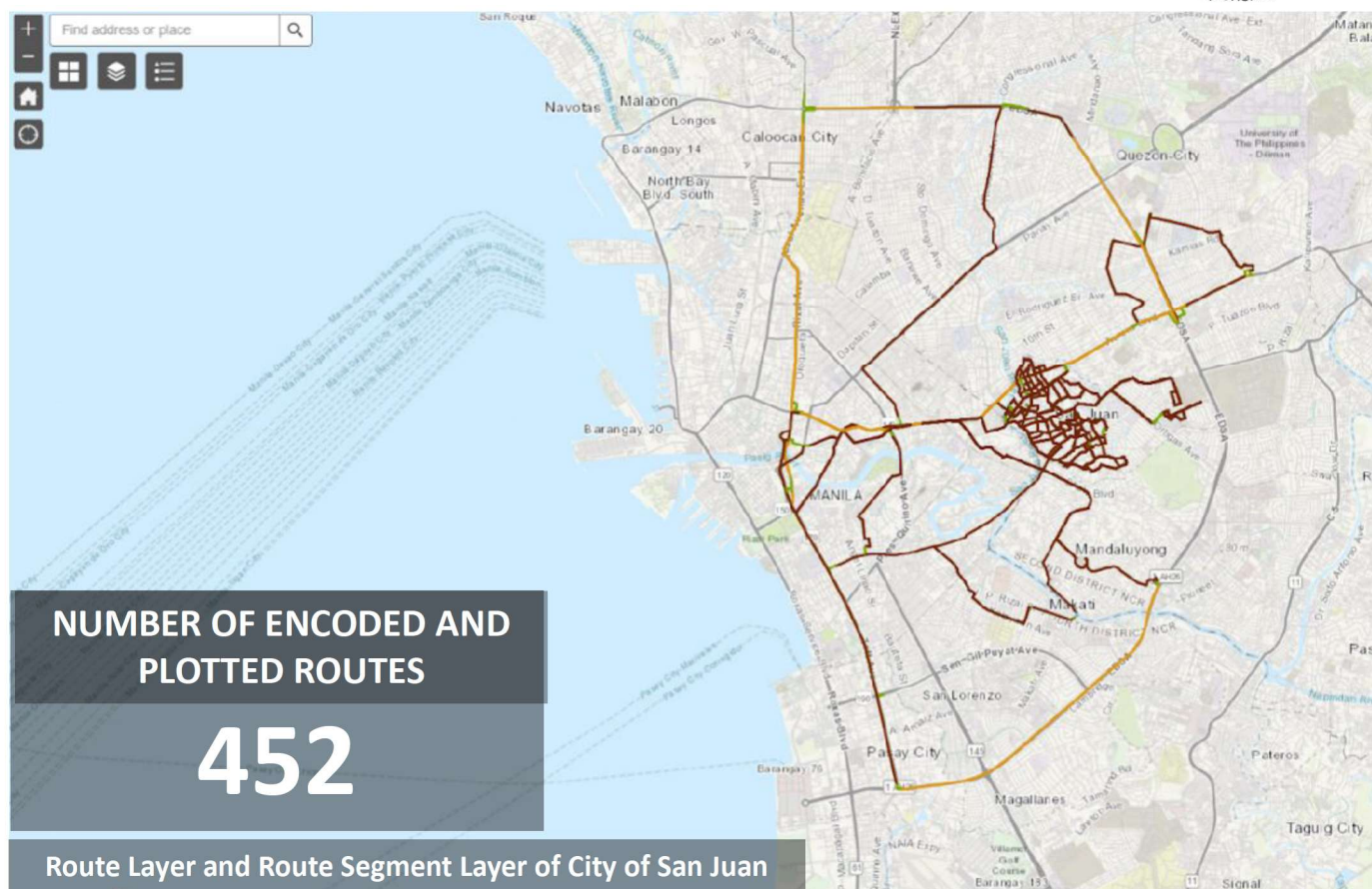




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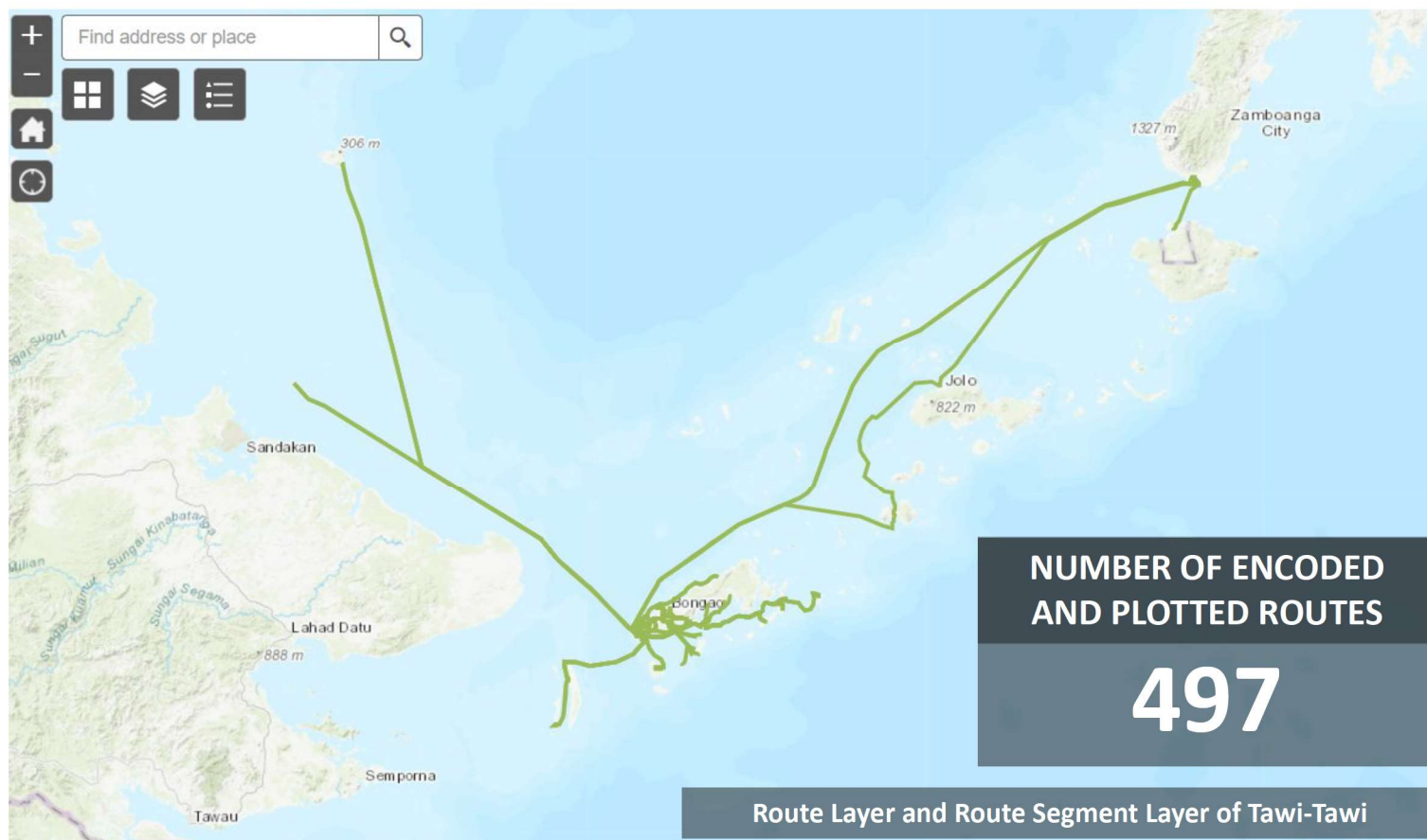




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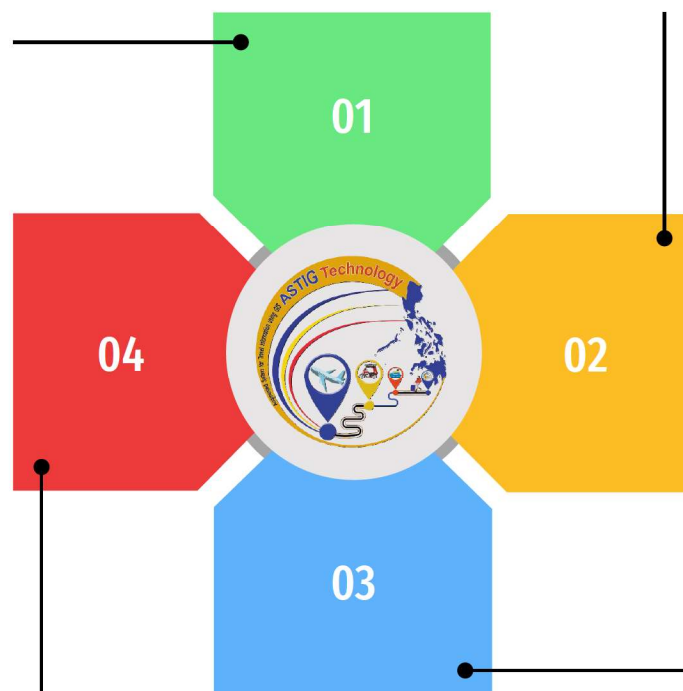
ASTIG Tech Output

Travelling Expenses

Can be used as reference in evaluating field office requests of Travelling Expenses

CRS Outlet

Serve as reference in determining the travel information on reaching the available CRS outlets within the area



PSA Personnel

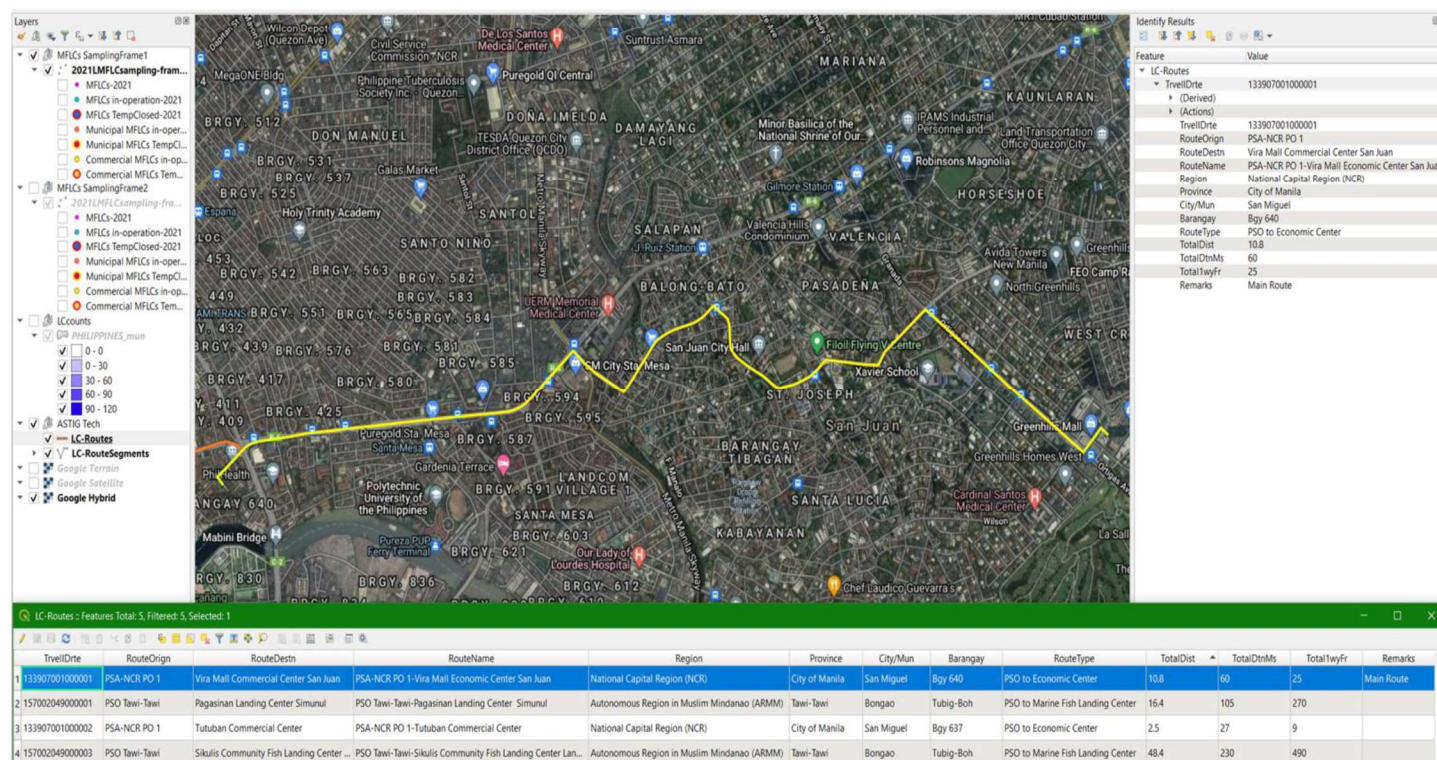
Serve as guide to all PSA personnel going from one place to another

Mastersample

Serve as reference and guide in evaluation and assessment of Least Accessible Barangays (LABs) reported for the Master Sample

Future Enhancement of the ASTIG Tech

Include other routes –
locating the economic areas and marine fish landing centers within the province





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Thank you!



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