Supply Analysis of an Access Mode for Local Travel: The Case of Tricycles in the Philippines

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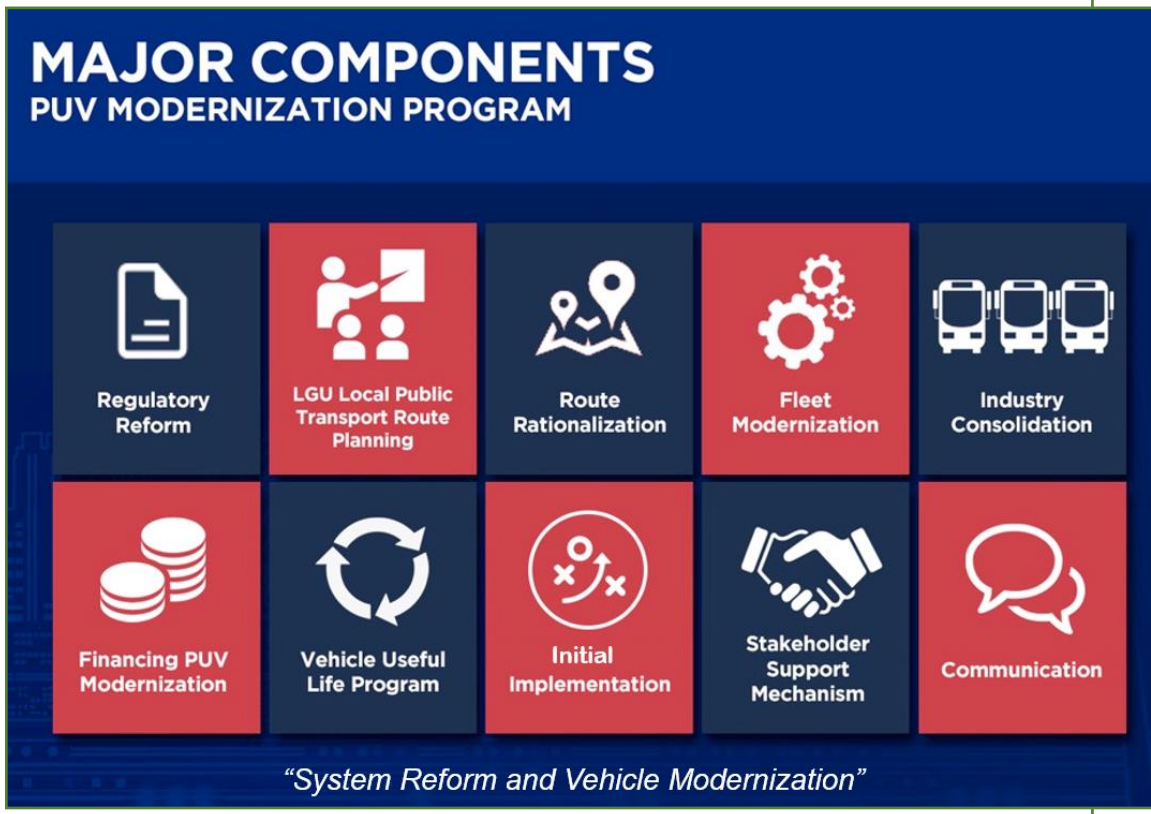
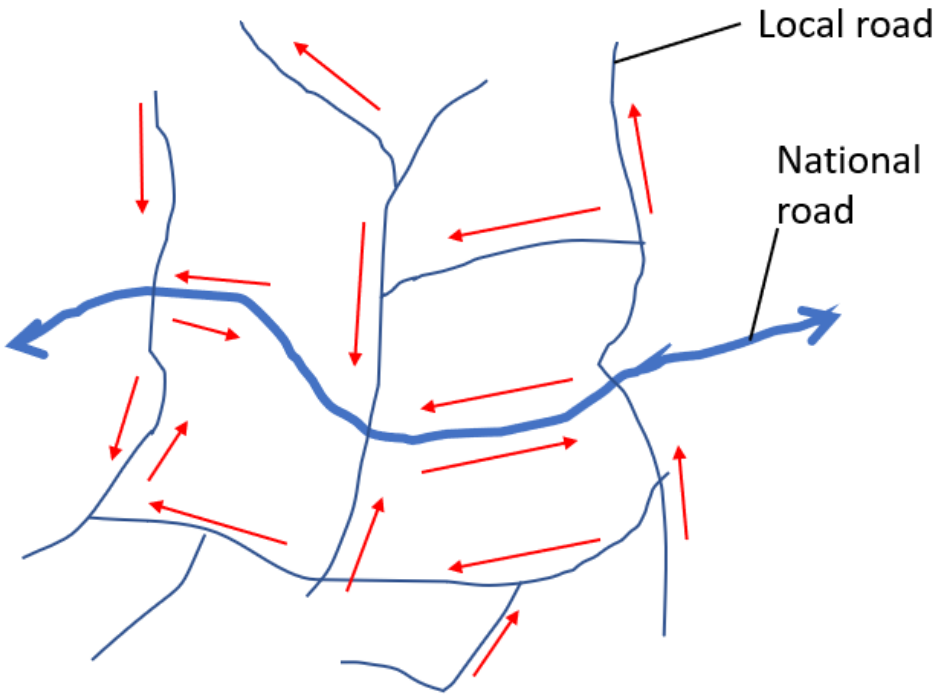
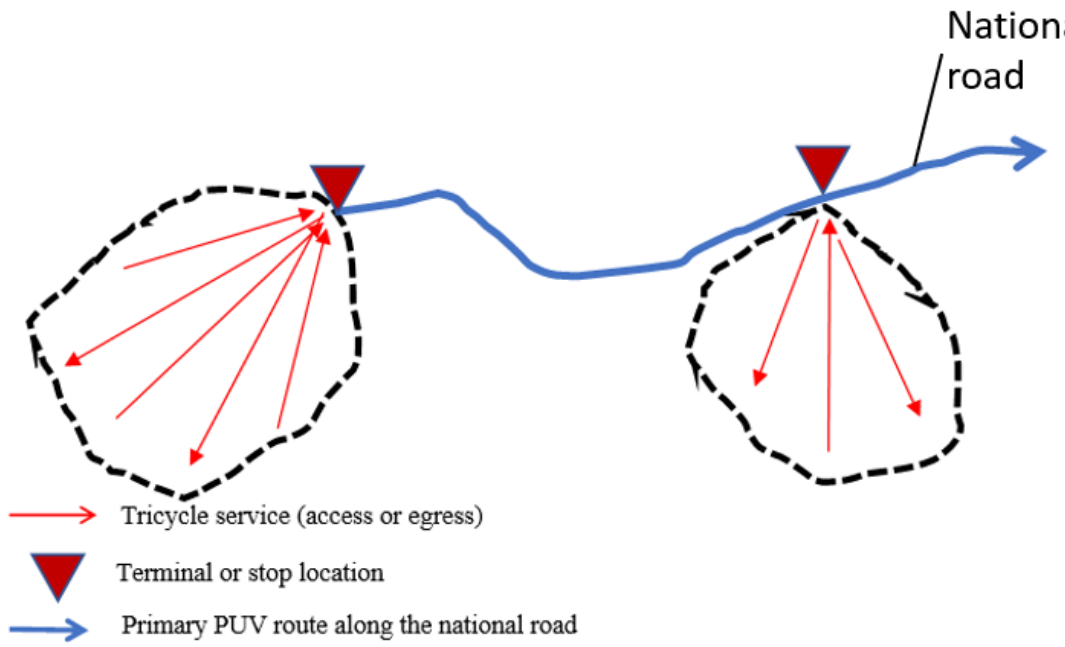
I. Background



I. Background



Current type of tricycle service in most municipalities/cities in the country



Recommend type of tricycle service in most municipalities/ cities in the country

II. Objective

- The primary objective of this study is to determine the most appropriate number or range of tricycle units that should serve a given locality (municipality or city) given the estimated passenger demand and their travel characteristics taking into consideration the existing national and local policies and social acceptability of the community residents.

III. Conceptual Framework

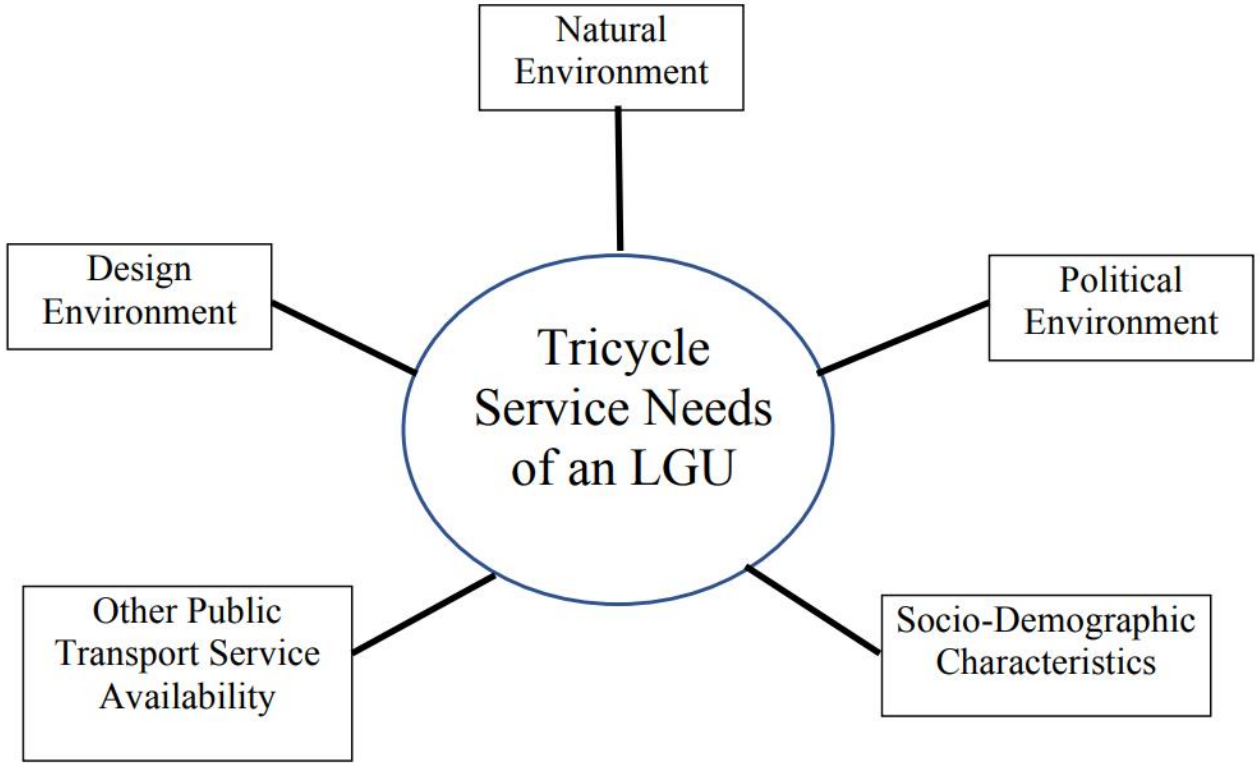


Figure 2. Conceptual framework of the study

METHODOLOGY

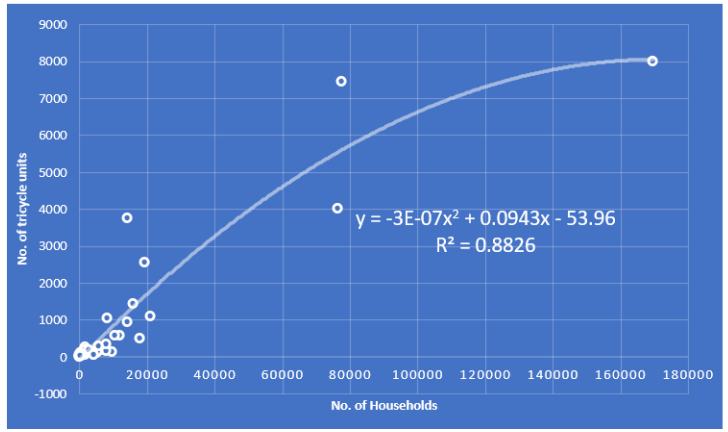
- Category or Classification Analysis
- Regression Modeling
- Artificial Neural Network Models

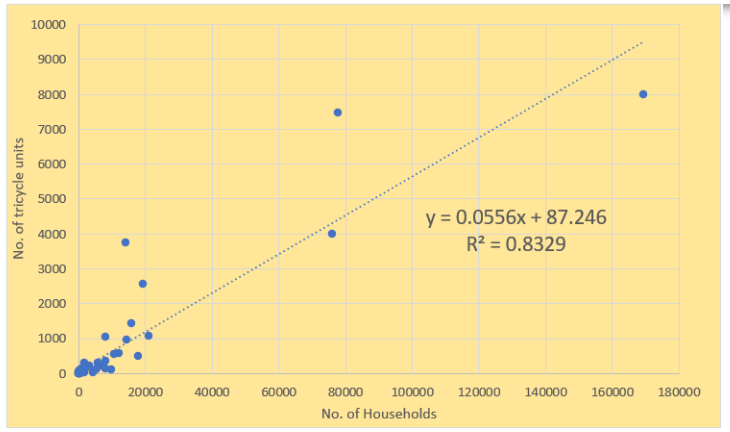
V. Preliminary Analysis

- Correlation Analysis

	Number of Households (Estimated)	Land Area (Hectares)	Total Population (2020)	Population Density	No. of Tricycles (y)
Number of Households (Estimated)	1				
Land Area (Hectares)	0.575345754	1			
Total Population (2020)	0.999712651	0.587316657	1		
Population Density	-0.021706539	-0.299489926	-0.03038	1	
No. of Tricycles (y)	0.912608632	0.464344466	0.913995	-0.02483	1

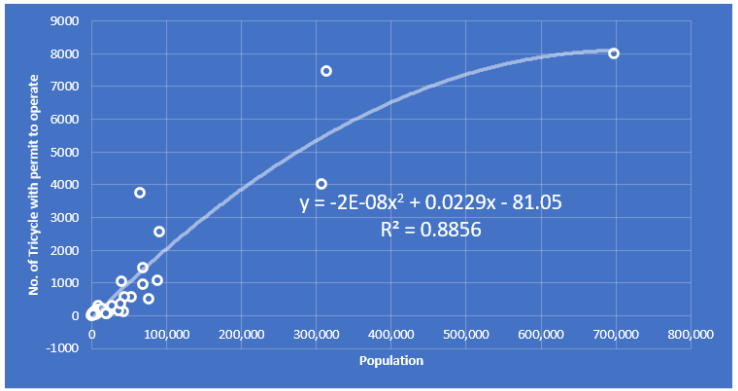
V. Preliminary Analysis

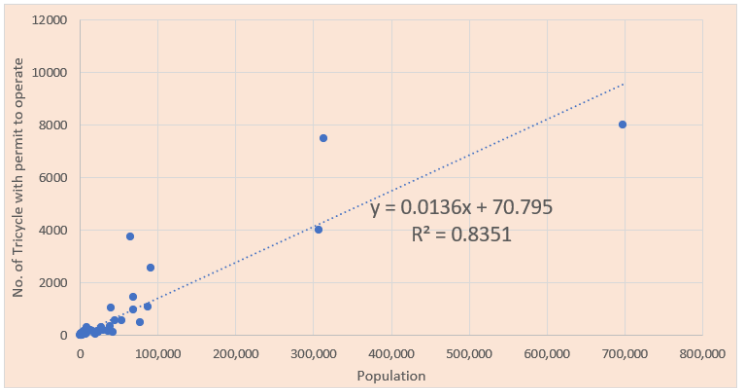




No. of Tricycles vs. No. of Households in the LGU

THANK you for your kind attention!





No. of Tricycles vs. LGU Population