

ABSTRACT

In expansion network, selecting the best location is the most important that can succeed to the organization. Facility location can plan into selecting the location appropriated with the objective. However, it is based on formulate requirements that consist of user's requirement, location factors, and location models. Government Housing Bank need to use the facility location planning for expanding the ATM system network that is a new service to the customer by selecting the best location for installing the machine as a condition of user's requirement and the result of location model.

This project proposed the existing machine location that does not support location factors very well and the amount of transaction in each location, is not sufficient to cover the expenses. The bank finds the solution by expanding the ATM system network in another area that is the better location.

The proposed locations are selected by formulate requirement and consideration of each factor by location model and income statement because the most important for installing the ATM is cost and factors that results in selecting the best solution.

The best location that is selected after analysis and evaluating from methods and models will relate to factors, and the location can get net profits for the ATM that can reduce cost and increase the amount of transaction in the location.

The result of the location analysis and evaluation solved the current problems in existing machine locations and can expand the ATM system network for the bank to the best locations. All the screens and reports are generated to be easy to use and understand.