

## ABSTRACT

Roadway is an important infrastructure for road users, but sometimes it doesn't properly well as the road users expected. It often finds a road that has damages. To restrucsturized it, it needs serious handling. The department in charge in Jakarta Utara is Jakarta Utara's Department of Public Works.

But until today, the department in charge is still using data pictures which are manual maps (paper,etc) that could occur difficulties in storage, taking and data searching of damaged roads and etc. Beside of it, the department in charge is also having trouble in determining priority on which road should be progress first, these surely need to be done considering on the limited funds.

One of tools that used to solve the problems is Geographic Information System or usually called GIS (Geographic Information System). The purpose of this resesarch is to make a geographic information system that could storage and search damaged roadways, and also be able to used in determining a priority in roadworks. The data used in making the system are directly collected from from Jakarta Utara's Department of Public Works and literature surveys. Next, the data obtained are processed by using MapInfo 7.5 and Visual Basic 6.0 so it generates a Geographic Information System Application for Roadworks.

It could accomplish data storage, damaged roads data searching and to determine prority of roadworks. With the benefit of it so it could be able to assist Jakarta Utara's Department of Public Works in determining decision when doing a roadworks.

**Keywords :** *SDPU, Road, GIS*