

ABSTRACTION

Oil station is the one of business that enough attract the investor , so it must be managed nicely. With the increasing of total vehicles, opportunity for build Oil Station widely opened. The build of it need complex analyze in order to get the right and proper place so it can give a high margin for the investor or the owner . There're many things must be considered related with location, as :

1. The field suit with City MasterPlant
2. Among the road with ideal road rapidity .
3. Among in the strategic location for business.

Recent, there's 21% Oil Station in unfeasible condition where they can't fullfil the minimum range of sale per day , 25 KL standarized by Pertamina.

For decreasing mistake in locate Oil Station that cause low sale per day, needed analyze and effective method for doing it analyzing that're road rapidity level analyze, sum Oil Station analyze, quadran analyze with Calculate Road Node Method. It use 3 parameters as determination factors for locating strategic field of oil Station. The 3 parameters are :

- Road rapidity level, showed by volume/capacity ratio of road
- Oil Station existing in the road node
- Road quadran

GIS (Geofraphic Information System) is an exact solution for supporting decision in this field. GIS is computer based system that integrate spatial data, data base operational , spatial data analyze also data visualization in digital map that can be used for decision making of build Oil Station. The result of this system is not a final decision, because it need a micro survey to the related location to determine last decision.

Output of this system is potential location for build Oil Station with the visualization of it. It can be saved in the database and can be used anytime .

With GIS, there's a hope that it can minimize mistake and give an advantage in short or long term .