

**SOFTWARE DEVELOPMENT FOR DISTRIBUTION
TRACKING AND MONITORING SPREAD OF FERTILIZER
THE CASE STUDY : REGION OF EAST JAVA**

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Abstract

Fertilizer is an important commodity in Indonesia because Indonesia is an agrarian country, the most people predominantly subsistence farmers. Distribution of fertilizers sometimes do not fit with the demands of farmers, resulting in shortages of fertilizer in one area and excess supplies in other areas. It is difficult to map and view the inventory and distribution of fertilizer in Indonesia.

Therefore, the authors develop a system that can track and monitor the spread of fertilizer. a system that can monitor the distribution of subsidized fertilizer from producers, distributors to retailer. Distribution and stock of fertilizer can be monitored by using maps that take advantage of the google map API, making it much easier to monitor subsidized fertilizer in eastern Java. In this system there are also can monitor the transport vehicle using the GPS Tracker.

Any users who have access on this system, can add and process the data that exist in this system. There are access methods to access the system, using internet connections or mobile devices, depending on the permissions of the user

Keyword: Fertilizer, Geographic Information System, GPS, SMS Gateway, Google Map