**GEOMATICS ROLES IN CAPACITY BUILDING**

**FOR PARTICIPATORY MAPPING**

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**ABSTRACT**

Indonesia is one of the biggest country in the world with ± 7.7 million km2 wide (land and ocean). Based on Geospatial Information Law (UU No. 4 / 2011), the government must be provided spatial data (base and thematic map) with scale variation. Therefore, it is needed to provide the maps quickly especially thematic map.

Community service is one of the main task which should be done by universities besides education and research. By simple, Geomatics is a science and technique to make a map. Therefore, Geomatics Engineering has also duties to build society for knowing about mapping.

In this paper, we will explain how Geomatics’ lecturers and students collaborate with society (participatory mapping) to make a thematic map with former and new technology such as compass, roll meter, total station, GPS navigation, RTK GPS, remote sensing, fotogrammetry and so on. In future, we will hope that updated and derived (thematic) map can be done rapidly.

**Keywords: participatory mapping, community service, Geomatics, Geospatial Information Law**