

UGM Students Make Apps for Post-Disaster Crisis Mapping

Wednesday, 25 May 2016 WIB, By: Marwati



Five Engineering students of Universitas Gadjah Mada develop an Android based application to enable disaster response more easily given. The app, “Seismo Sense” is developed by Tegar Pualam Syuhada, Putri Azizah, and Rais Afif (Geodesy), Brigitta Petra (Civil Engineering), and Fransiskus Anindita Kristiawan Pramana Gentur Sutapa from Informatics Technology study programme.

“This application enables the people to report information on the number of casualties, displaced persons, and damage due to earthquake,” said chairman team, Tegar Pualam, on Tuesday (24/5) at UGM.

Tegar said the idea started from the concerns over Indonesia’s condition that is vulnerable to disasters, including earthquakes. The geographic location of the country in the Ring of Fire makes Indonesia prone to earthquake and tsunami. Not a few casualties, material losses and others have been impacted due to these disasters.

Meanwhile, the efforts to collect data and information on number of casualties, displaced persons, and damage take more time. One reason is that the input method done by volunteers is still manual. Hence, they took the initiative to make an app that enables the government in assessing casualties

and damage due to disasters.

“By this application, the community can report information on casualties, position of casualties, damage, and pictures of damage in real time,” he explained.

Fransiskus explained the programme starts from database search that are obtained from related agencies, such as the Regional Disaster Mitigation Agency, as well as consultation with the Rapid Response team when a disaster strikes. A software is also made to collect data quickly and accurately. There are two assessments of data, being logistical emergency and reconstruction rehabilitation. Through these menus people may report the latest condition affected by the earthquake.

The operation of the app is simple. You only need to activate the geolocation on the mobile set. Automatically, the data will go to the Seismo Sense server. Information of the disaster reporting can be presented in detail, for example, the number of casualties, level of damage, and quick aid as well as coordinates of the disaster location.

“Important points of all data are visualised on an online dynamic map. The data will be presented in line with cartographic standards that enable analysis process for decision making,” he said.

Fransiskus said the app would not only increase community’s contribution to report post-disaster condition of an area, but also helps the government in the mapping of an area efficiently to support policy making for emergency response, rehabilitation, and reconstruction.

Related News

- [Jejak Medis Apps Help Disaster Patients Store Medical Records](#)
- [Jakarta Needs to Do Risk Study on Crisis and Disaster Urgently](#)
- [Remote Sensing Important for Disaster Mitigation](#)
- [UGM Applies Disaster Information Application](#)
- [Schools Should Be Designed As Shelters](#)