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A study on the technical improvement in public safety map service

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The public safety map service has been composed to help citizen in South Korea prepare for and respond to a daily safety. The public safety map service helps people to understand easily and deal carefully with the daily risks of life around community. It also provides the fast and intuitive safety-oriented map service platform gathering and analyzing and mapping with GIS and IT technology. This service has launched a web service and mobile App, and given 8 kinds of 2D/3D safety map services. It will improve map accessibility and user convenience to utilize the safety map easily and communicate users with bi-directional map service. This study aims to propose technical improvement required to produce public safety map service. To do this, we are gathering comments of the citizens, public clerks and policy makers. The major improvements of the study are summarized as follows: The study first improves minimizing side effect by map service with sensitive information by clipping; second, the study improves designing user-friendly GUI for easy understanding and developing customized mobile service; third, map services enhance promoting service performance with advanced GIS technology and infra integration and updating latest DB to provide accuracy. Based on this, by developing the public safety map, it can be used to promote the safety of people. When the sharing between government departments and utilization of nation increase through opening of public safety map, people will have attention to safety and react in dangerous situations. Local governments are expected to improve safety in the areas and invest finance strategically, prioritizing the safety improvement projects by area.

Biography

Boram Lee has completed his Bachelor's degree in Structural Engineering and Master's degree in Water Resource Engineering from Seoul National University of Science and Technology. He is a Researcher of NDMI and Life Member of Korea Water Resource Association. He has also published more than 10 papers, research reports and patents.

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