

E-LIGTAS: A Disaster Response App

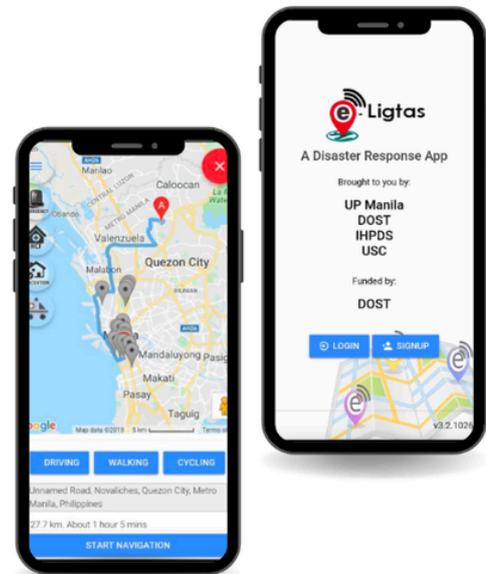


THE PROBLEM

In disaster response, the lack of accurate, timely, and comprehensive damage assessment data hinders the ability of decision-makers to allocate resources effectively and prioritize actions that can save lives and mitigate further damage. The absence of streamlined information dissemination channels can lead to delays, resource wastage, and insufficient response efforts, particularly in the most affected areas. Although digital technology offers potential solutions for real-time information sharing, inconsistent data collection methods and gaps in communication often limit the effectiveness of these tools. Consequently, establishing standardized processes for data accuracy, collection, and dissemination is essential to enhance disaster response efforts.

THE SOLUTION

The **E-ligtas** platform, developed by the University of the Philippines Manila through its Disaster Risk Reduction and Management in Health (DRRM-H) Program, is an innovative digital solution available on both web and Android, that has the ability to enhance the real-time tracking, mapping, and reporting of resources and damage assessments during disaster response efforts. By integrating critical data from disaster-prone areas, E-ligtas facilitate seamless communication between responders and affected communities, enabling coordinated and efficient rescue operations. Its web component manages dispatch information and tracks the allocation of essential resources—such as personnel, equipment, and supplies—ensuring strategic deployment to areas of greatest need. With a user-centric interface and advanced data management capabilities, E-ligtas empowers disaster response teams to make well-informed, timely decisions, optimizing resource allocation and significantly bolstering the overall effectiveness of disaster mitigation efforts. Integrated with the Preliminary Damage Cost Assessment Tool (PDCAT), E-ligtas can function as an information system for assessing the operational capabilities of healthcare facilities. The research team has successfully incorporated critical data from at least three disaster-prone areas within the National Capital Region, ensuring the application reflects local needs and conditions. Additionally, a detailed user guide was developed to facilitate seamless implementation and user engagement with the platform.



TECHNOLOGY GENERATOR

University of the Philippines Manila
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TECHNOLOGY DEVELOPMENT

The technology is currently at Technology Readiness Level (TRL) 7. The research team is actively working to establish and strengthen partnerships with local government units (LGUs), government agencies, and non-governmental organizations (NGOs) for the adoption and utilization of the E-ligtas tool.

Interested technology adopters may send a letter of intent addressed to:



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