

Rungroj Pongjakpanich 2011: Restoration Management System for Flood Damages on National Highways. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Assistant Professor Suphawut Malaikrisanachalee, Ph.D. 159 pages.

Taking immediate actions to allow traffic going through the inundation area and restoring highways back to their original state after floods need to be managed carefully and urgently. This study aims to develop an information system for the Department of Highways for managing its flood damage repairing projects. The system supports estimating initial highway damage cost, performing detailed cost estimate, allocating budget for repairing projects and tracking progress of each project. The system can display the current status of each project as well as the overall progress of all projects to allow the Department of Highways officials at both operational and administrative levels to closely monitor and expedite the projects. In addition, the system can increase management efficiency as well as improve ease of communication and data exchange between agencies through the Internet.

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Thesis Advisor's signature