

# NILIM Published a Complete Report on Survey and Research on the Great East Japan Earthquake

Disaster Prevention and Reduction Research Committee

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## 1. Path to the publication

Starting in the immediate aftermath of the Great East Japan Earthquake of 2011, the National Institute for Land and Infrastructure Management (NILIM) implemented various endeavors working in partnership with the Public Works Research Institute, Building Research Institute, and Port and Airport Research Institute and then dispatched staff members to the disaster area as part of the Technical Emergency Control Forces (TEC-FORCE) and other bodies to provide technical support to an urgent response. Compiling these activities and initiatives related to new challenges that surfaced from the disaster, NILIM published Research Report No. 52 in January 2013.

Subsequently in September 2016, NILIM published Research Report No. 57: “Complete Record of Five Years of Survey and Research by the National Institute of Land and Infrastructure Management Related to the Great East Japan Earthquake,” which is a systematic record of surveys and research led by the NILIM to provide the grounds for the revision of technical standards and guidelines.

## 2. Structure of the research report

This Research Report consists of five parts. Part III: Damage Survey and Part IV: Research Results describe the survey and research in detail, while Part V: Cross-sectional Activities for the Development of Multiple Protection and Mitigation Systems Against Tsunami-Induced Disasters summarizes the whole report

and puts emphasis on the importance of cross-sectional activities. The report includes multiple research fields that NILIM covers: wastewater systems, rivers, coasts, sabo, road traffic, road structures, buildings, housing, urban planning and parks, coastal and marine disaster prevention, ports and harbors, airports, and land and construction management.

## 3. Features of the research report

Multiple hazards, in other words, earthquake ground motion and tsunami, led to the Great East Japan Earthquake. The survey and research are categorized into multiple types from fundamental studies to research directly applied to practice. The research fields, major hazards, and research types are considered the three axes in this Research Report; Part I: Overview of Research explains the interrelationships of these three axes and overlooks the relationship between the axes and each investigation or research. As shown in Figure 1, the overall bird’s-eye view of the survey and research was constructed by identifying the major survey and research items and connecting them by arrows and lines to show how these items were developed and related to each other. Thus, Part I helps readers understand the locations and interrelationships of the investigation and research described in Part III and Part IV so that the readers are able to develop a synthetic viewpoint. For details, visit: <http://www.nilim.go.jp/lab/bcg/siryou/rpn/rpn0057.htm>

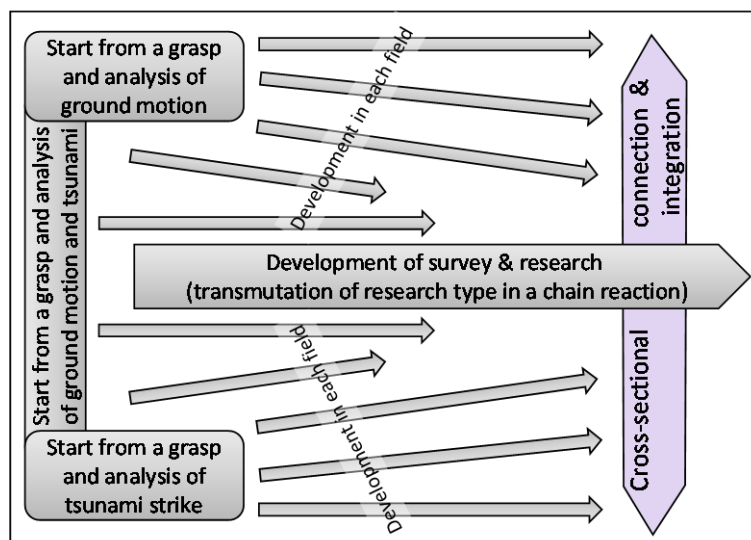


Figure 1 Approach to construction of the overall bird's-eye view