

## Support for Development of the Personnel of Regional Development Bureaus Who Engage in Advanced Measures for Sediment-related Disasters

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### 1. Start of a human resource development support program

In accordance with revisions to the Sediment-related Disaster Prevention Law, etc., the roles played in crisis management and early restoration of damaged areas in the case of a large-scale sediment-related disaster by the personnel of Regional Development Bureaus are increasing. NILIM, with the cooperation of the Public Works Research Institute, started in fiscal 2013 a human resource development support program with an advanced and practical menu for the personnel of Regional Development Bureaus who are familiar with their local circumstances. The purpose of this program is to have them acquire, through concurrent service for their Regional Development Bureau and NILIM, advanced skills in emergency investigation, etc. required by the Sediment-related Disaster Prevention Law in the case of sediment-related disaster, such as landslide dam formation or volcano eruption.

### 2. Contents and results of the program

During fiscal 2013, the program was held in July and November in the NILIM office for one week each time. The contents included (i) discussions about the points and considerations for advanced technical guidance to be provided to local governments, etc. in the case of a sediment-related disaster, (ii) exercises in the latest information and techniques concerning emergency investigation, emergency measures, etc., and (iii) analyses and discussions of issues and solutions for each Regional Development Bureau regarding emergency investigations / measures.

In addition, on-site exercise were conducted on August 28 and 29 from a site-oriented approach in areas that suffered serious sediment-related disasters including landslide dam formulation by the 2008 Iwate-Miyagi Nairiku Earthquake. The two days involved (i) inspections of the conditions after the collapse of a landslide dam, (ii) inspections of emergency measures execution, (iii) practical measurement training in irradiating lasers from a helicopter to an area of blocked river channel, and (iv) an exchange of opinions with the personnel of the Regional Development Bureau and local governments about the actions taken in the event of disaster, future issues, etc.

Furthermore, they joined actual technical support activities of damaged prefectures, including efforts for the sediment-related disaster caused by Typhoon No. 18 in Fukui, to acquire practical skills as a professional in sediment-related disasters (Photo 2).

In addition, the personnel of Regional Development

Bureaus who participated in this program took the initiative to develop, as deliverables of the fiscal 2013 program, a (1) practical manual on laser measurement from a helicopter in emergency investigations, (2) landslide dam flood simulation manual for the personnel of Regional Development Bureaus, (3) method for setting conditions of natural dams in emergency investigation training, and (4) list of the construction methods selected as emergency measures to address river channel blockage.



**Photo 1: Exercise with Flume Experiment concerning Landslide Dam Breach and Countermeasures**



**Photo 2: Disaster Investigation in Fukui**