

Title	Development of a Platform for Enhanced Response and Early Recovery in Case of Water-related Disasters
Background & Needs	<p>In order to promote the Japanese government's new flood management policy, "River Basin Disaster Resilience and Sustainability by All," municipalities located in river basins need to estimate potential hazards they may face during water-related disasters and conduct training to minimize the resulting damage. However, because water-related disasters have not been so frequent until recent years, many municipalities are not well prepared for potential hazards, and disaster management experiences have not been shared between affected and unaffected municipalities in many cases.</p> <p>Pre-disaster preparations are indispensable to execute appropriate responses to water-related disasters. These include sharing disaster experiences, reviewing disaster response procedures, strengthening disaster response capabilities, and checking steps to facilitate early recovery.</p> <p>However, such pre-disaster efforts are still at an early stage and are limited to exchanging opinions and other qualitative information. The efforts should be stepped up by introducing DX and other measures.</p>
Goals	To propose appropriate response and recovery procedures by developing a platform to help municipalities enhance their ability to respond to increasingly frequent water disasters and facilitate early recovery.

<p>Method & Outcomes</p>	<p>Our research and development will be carried out following the steps below:</p> <ol style="list-style-type: none"> 1. Development of a system to enhance water disaster response capabilities that helps users learn appropriate water disaster response actions. 2. Development of an early recovery support system that encourages communities to learn appropriate resource management during recovery from water disasters. 3. Clarification of the mechanism of problems arising during water disaster response actions in virtual training using the systems developed in goals 1 and 2. 4. Proposal of appropriate response and early-recovery procedures regarding water-related disasters. <div data-bbox="488 696 1339 1323" data-label="Diagram"> </div>
<p>Collaborators</p>	<p>Hokkaido University</p>
<p>Duration</p>	<p>FY2022-FY2024</p>
<p>Researchers</p>	<p>Chief Researcher: KURIBAYASHI Daisuke, Visiting Researcher: OHARA Miho</p>