

## Development of "Disaster Management Literacy Hub" (DMLH) to Enhance Disaster Management Literacy

\*Reo Kimura<sup>1</sup>, Haruo Hayashi<sup>2</sup>, Kosuke Kobayashi<sup>3</sup>, Takahiro Nishino<sup>4</sup>, Kenshin Urabe<sup>3</sup>, Satoshi Inoue<sup>3</sup>

1.University of Hyogo, 2.Kyoto University, 3.GK Kyoto Inc., 4.R2 Media Solution Inc.

The concept we propose for a disaster management literacy hub (DMLH) involves systemizing and generalizing disaster management literacy (DML) and discussing how to design such a DMLH where the general public and disaster responders share materials on DML.

In the early 21<sup>st</sup> century, measures against large-scale earthquakes should essentially include both hardware disaster mitigation measures like the construction of appropriate structures and software measures like disaster preparedness among people and organizations such as the general public, disaster responders and related organizations. We define knowledge about disaster response management and competency as DML.

We proposed that DML consist of three elements: knowledge for learning about disaster management and mitigation, skills required for effective disaster response, and basic competency and attitudes for coping with disasters. For conceptual DMLH design based on the Instructional Design (ID), we propose three types of learning:

- 1) The general public and disaster responders learn audiovisually using training videos and materials and review tests on learn from videos.
- 2) People who want to provide education and training at schools or in regions or municipalities with school teacher guidance/teaching plans learn how to do so.
- 3) People learn DML by posting or searching for (collecting and arranging) materials.

Keywords: disaster management literacy, Instructional Design (ID), competencies for disaster responses, education and training

The screenshot displays the 'Literacy HUB' website interface. At the top, there are navigation links: '知りたいことをしるべる', '体系的にまなぶ', 'クイズでまなぶ', and '指導書でおしえる'. A search bar is located on the right. Below the navigation, there are filters for 'Tag' and 'Keyword'. The main content area is a grid of resource cards, each with a title, year, and a thumbnail image. The cards include:

- セコム科学技術振興財団 2014**: 地震災害からの総合的復旧指標の開発と、再発防止に導いた効果的な減災戦略の確立
- 中深会介 2015**: 会社でも役立つ！いざという時の組織力を強くする方法 (ICS入門)
- WebEOC 2010**: WebEOCは、災害対策本部スタッフが災害の被害、対応状況を正確に認識し、迅速かつ的確な意思決定を支援することで被害の拡大を防ぎます。
- 被災者台帳 内部府**: 被災者台帳に関する内部府の資料のページです。
- 地震、津波 2015**: 地震時の援受け入れガイドライン
- 兵庫県 2015**: 兵庫県 防災関係のページ
- 内部府 2015**: 内部府 防災関係のページ
- 内部府 2015**: 内部府 (防災)・防災教育チャレンジプラン

On the left side, there are additional filters for '主体' (National, Local Government, Other), '災害の種類' (Earthquake, Volcano, Typhoon, etc.), and 'コンテンツ区分' (Disaster Preparedness, etc.).