Asian Science and Technology Forum Tsukuba Seminar
"International Workshop on Information Platforms for Disaster Reduction"
(IPDR Workshop)
Tsukuba, Japan, 3-4 October 2007

Abstract

The Disaster Reduction Hyperbase (DRH) Development

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Base note

| Title of Initiative | Disaster Reduction Hyperbase-Asian Application (DRH-Asia) |
| URL | http://www.edm.bosai.go.jp/old/m-n.html |
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| Description of the initiative (within 100 words) | DRH is a web-based facility to compile and disseminate technology and knowledge for disaster risk reduction. It features "implementation technology" comprising: 1) Implementation oriented technology: Outputs from modern R&D that are practiced under clear implementation strategies, 2) Process technology: Know-how for implementation and practice, capacity building and social development for knowledge ownership, and 3) Transferable indigenous knowledge: Traditional art of disaster reduction that is indigenous to specific region(s) but having potential to be applied to other regions and having time-tested reliability Under the DRH-Asia Project (July 2006-March 2009), the system will be open by the end of 2007. |

Expected users

The expected users of DRH-Asia are primarily a) Practitioners and b) Community leaders who will be direct users of technology and knowledge incorporated as DRH contents, plus c) Policy makers and d) motivated researchers who will use DRH information for enhancement of their policy and research. These implications are illustrated in Fig.2.
Specific features

(1) DRH Template

The DRH contents are compiled according to the DRH Template, a format that was established through ample discussion among DRH members. It incorporates

- Developing through lab tests
- Members. It incorporates
- Specific features
- Access to tested implementation technology database
- Reduction of tsunami flow pressure in greenbelt
- Mangrove, waru, etc.
- (EQP Project: PARi, Japan and CDRC, Indonesia)
- "Can not stop tsunami but can reduce their effects."
- "Inexpensive, no "high-tech" required"
- "Development guidelines developed through lab tests and numerical simulation"
- "Being implemented in Sulawesi Island, and other 14 sites in Indonesia.

(2) DRH-Asia web site components

The DRH-Asia web site consists of the following three major components

a) DRH Database: access to tested implementation technology database, such as implemented oriented technology, process technology, transferable indigenous knowledge

b) DRH Forum: Forum for facilitating collation, testing and dissemination of mitigation models

c) DRH Links: Link with relevant initiatives

(3) Open source and multi-language search

The DRH-Asia Web site is being developed in-house at EDM-NIED. It features open source so that any partners can use the source program to construct an alliance of DRH. Another specific feature of DRH system is that it will allow multi-language search.

(4) Organizational framework

The DRH-Asia is developed under an organizational framework illustrated in Fig. 3. The participants function either as 1) Coordination nodes, 2) Development nodes, and 3) Information nodes or more than one of them.

(5) Basic principle: Tsukuba Resolution 2006

We welcome any institutions and individuals to join DRH activities who agree to conform with the Tsukuba Resolution 2006, which declared

1. Development of the Disaster Reduction Hyperbase (DRH) is a significant contribution to reducing vulnerabilities and enhancing integrated disaster risk management. 2. DRH will be an open and interactive database of implementation technologies, will provide a forum for facilitating collation, testing, dissemination of mitigation models, and will link with relevant initiatives. 3. Within a scheme of coordination, development and information nodes, participants will mobilize resources (organizational, fundraising, and in-kind) for contributing to successful achievement of the DRH Mission. 4. DRH development activities contribute to the implementation of the Hyogo Framework for Action 2005-2015 adopted in the UN-World Conference on Disaster Reduction, January 2005.

References: Besides DRH-Asia web-site, due for opening by the end of 2007, all documents regarding the DRH developments are downloadable at http://www.edm.bosai.go.jp/old/m-n.html including expected DRH contents.