


6th Global Summit of GADRI  
2023/3/15-17

## GADRI Database Project

### Disaster Collection Database and Case Study Database

Hiroyuki Goto  
DPRI, Kyoto University



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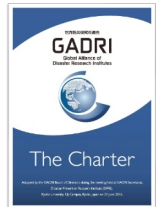
## Data and Information Sharing

### Objectives in GADRI

2.2 Objectives

To achieve the above purpose, GADRI has the following objectives:

- To establish a global research network that promotes and engages disaster research.
- To provide a research road map, with plans that help facilitate the organization of disaster research groups.
- To promote capacity building and development of disaster research institutes and enhances researcher and student exchange.
- To promote exchange and sharing of data and information for scientific research across the globe.
- To serve as an advocacy organization presenting evidence-based approaches that influence decision-making processes.



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## A policy of open scientific data

### FAIR principle (2016-)

Guidelines to improve the Findability, Accessibility, Interoperability, and Reuse of digital assets of the open scientific data.

Wilkinson et al.(2016)  
DOI: 10.1038/sdata.2016.18

The principles emphasize machine-actionability (i.e., the capacity of computational systems to find, access, interoperate, and reuse data with no or minimal human intervention) because humans increasingly rely on computational support to deal with data as a result of the increase in volume, complexity, and creation speed of data.

#### Box 2 | The FAIR Guiding Principles

**To be Findable:**  
F1. Metadata are assigned a globally unique and persistent identifier  
F2. Data are described with rich metadata (identified by R1 below)  
F3. Metadata clearly and explicitly include the identifier of the data it describes  
F4. Metadata are registered or indexed in a searchable resource

**To be Accessible:**  
A1. Metadata are retrievable by their identifier using a standardized communications protocol  
A1.1 the protocol is open, free, and universally implementable  
A2.3 the protocol allows for an authentication and authorization procedure, where necessary  
A2. Metadata are accessible, even when the data are no longer available

**To be Interoperable:**  
I1. Metadata use a formal, accessible, shared, and broadly applicable language for knowledge representation  
I2. Metadata use vocabularies that follow FAIR principles  
I3. Metadata include qualified references to other (meta)data

**To be Reusable:**  
R1. Metadata are richly described with a plurality of accurate and relevant attributes  
R1.1. Metadata are released with a clear and accessible data usage license  
R1.2. Metadata are associated with detailed provenance  
R1.3. Metadata meet domain-relevant community standards

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## Database Project

### Concept

In cooperation with the GADRI Committee of Data Information Sharing, we aim to build a database that will contribute to the research activities in the GADRI community.

### Budget

Collaborative research planned and proposed by GADRI

Disaster Prevention Research Institute, Kyoto University  
Application Guidelines for 2022 Collaborative Research

The Disaster Prevention Research Institute (DPRI) was established at Kyoto University for the purpose of carrying out academic research on natural hazards and multidisciplinary studies for disaster mitigation. Since 1960, many collaborative projects have been carried out under DPRI's leadership as a national joint usage research institute. In 2010 DPRI was designated as a "Joint Usage/ Collaborative Research Center for Multidisciplinary Disaster Prevention Study", and many collaborative projects have been executed with new collaborative frameworks as a collaborative research center.

From 2022, the third term of the "Joint Usage/ Collaborative Research Center for Multidisciplinary Disaster Prevention Study" will start, in order to continue promoting collaborative projects more extensively with frameworks such as international collaborative researches. We set up the following five themes as the top priority issues: "Small earthquakes/ disaster mitigation", "Meteorologically extreme phenomenon and disaster", "Volcanic disaster", "Implementation science for disaster risk reduction", and "Global collaboration of disaster research". Applications for collaborative research related to the above five top priority issues are most welcome. However, applications of collaborative research related to other issues are also accepted.

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## Database Project

### Disaster Collection Database

The database allows users to search for Websites, Researchers, and Documents related to disaster reduction research to take advantage of the wealth of data resources on disaster reduction research that exists around the world.

**Passive DB**

### Case Study Database

The database for cases related to disaster reduction research. Data items to be stored in this database should be entered in a fixed format, such as implementation date/evaluation date/location, etc., and these items should be searchable.


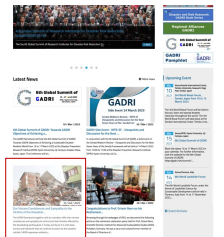
**Active DB**

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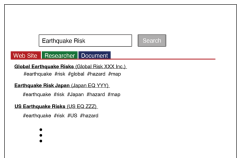
Automatically build a summary page for disaster response

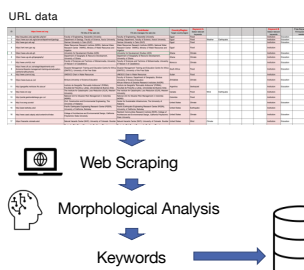
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### Disaster Collection Database

- ✓ Free keyword search
- ✓ Keywords are automatically generated from the URL information  
**Only the URL is required!**




URL data



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### Case Study Database

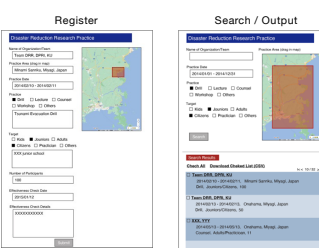
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### Case Study Database

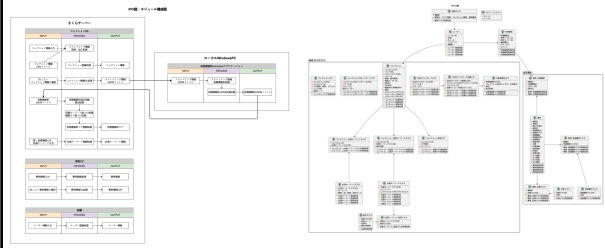
- ✓ Allow registering their own cases  
Date / Area / Practice / Target, etc.
- ✓ Allow searching time and space by the inclusion



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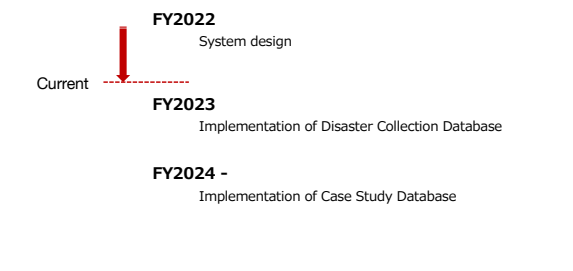
### DB system

The backbone of the databases is common.



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### Schedule



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