

***DRH's Expectation and Dependency
on CASiFiFCA***

CASiFiCA-DRH Coordination Meeting
*Beijing Normal University International Academic
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"Barriers" to Implementing technology and knowledge (from Kameda, Stresa 2007)

Providers' side

- + Academic barriers (overly method oriented)

To overcome: innovation under *implementation strategy*

Users' side

- + Political barriers (policy priority)
- + Societal barriers (apathy)
- + Educational barriers (missing real world)

Challenge

To overcome: innovation under *implementation science*

+ Academic barriers

(problem)

overly method oriented
product focused
rigidly disciplined
academic sectionalism

(implementation strategy)

stakeholder involvement - mission oriented
product + process linkage
regional perspective - indigenous knowledge
multi-disciplinary ties to meet real-world needs

(activities)



(April 1999-March 2004)

To overcome academic
barriers:
"implementation strategy"



(April 2005-March 2009)

implementation strategy with
departure toward
"implementation science"

DRH values (from Kameda, 2nd DRH Annual WS, Beijing)

- (1) **A web-system unique in functions and sustainability:** DRH Database, DRH Forum, and DRH Links / contents proposal-facilitation-registration procedure, multi-lingual search, guided links to other initiatives, open source enabling sustainable enhancement, etc.
- (2) **DRH contents featuring "Implementation Technology":** consisting of Implementation oriented technology (IOT), Process technology (PT), and Transferable indigenous knowledge (TIK) / straightforward **DRH Criteria** and **DRH Template**
- (3) **International human network:** participated by champions in NGO practitioners and motivated researchers
- (4) **Policy background:** implementation of HFA, collaboration with ISDR, ASEAN+3, APEC, etc.
- (5) **Contributions to a new scientific development =** "Implementation science" / CASiFiCA-DRH collaboration

Disaster Reduction Hyperbase - Asian Application

DRH-Asia Project

MEXT-NIED Project (July 2006 ~ March 2009)

Definition and Criteria on IOT, PT, TIK, and Criteria for DRH Contents Acceptance

The document is a result of enthusiastic discussion by DRH leaders:

Developed at **First DRH-Asia Facilitators Meeting Kobe, 2-3 July 2007**
Re-discussed at **Implementation Science, CASiFiCA and DRH Workshop Stresa, Italy, 16-17 September 2007**

Also during **International Workshop on Information Platforms for Disaster Reduction (IPDR-WS), Tsukuba, 3-4 October 2007**

Finalized through **endorsement of Facilitators, 15 October 2007**

Compiled by **Hiroyuki Kameda, DRH-Asia Project PI**

Major contributors in the development

* DRH-Asia Facilitators:

(IOT) Mosen Ghafory-Ashtiany and Hiroyuki Kameda

(PT) Amod Dixit and Norio Okada

(TIK) Anshu Sharma and Rajib Shaw

* Other contributors at DRH-Asia Facilitators' Meeting 1 (July 2007), DRH-CASiFiCA Meeting (Sep. 2007), and IPDR-WS (Oct. 2007), etc.:

Tomohide Atsumi, Hiromichi Higashihara, Naho Ikeda, Takayuki Nakamura, Charles Scawthorn, Peijun Shi, Koichi Shiwaku, Yukiko Takeuchi, Hirokazu Tatano

"Technologies" we target in DRH are:

ver. 070315 (Kobe)
070917 (Stresa)

Implementation technology

- + **Implementation oriented technology:** Products from modern R&D that are practiced under clear implementation strategies
- + **Process technology:** Know-how for implementation and practice, capacity building and social development for knowledge ownership
- + **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

General Criteria for DRH Contents Acceptance

ver. 070703(FM1)
070917 (Stresa)
071002 (Tsukuba)

- **Understandable to users**
- **Implementable (Usable, Doable)**
- **Shown to be useful**

Plus

- **Criteria for each category (IOT, PT, TIK)**

Criteria for Implementation Oriented Technology (IOT)

ver. 040425 (EqTAP rep)
070917 (Stresa)

- Technically or scientifically acceptable
- Problem identification and methodology development practiced in direct communication with stakeholders and end-users to create incentive for their participation and ownership
- Regional characteristics properly incorporated in terms of local context including available materials, cost, and workmanship
- Most advanced research methodologies mobilized to generate high-quality products and meet the actual demands of the region

Criteria for Process Technology (PT)

ver. 070703(FM1)
070917 (Stresa)

- With emphasis on “practical use” of research
- A tested methodology with social, cultural, economic, ecological, and technical feasibilities, developed through an implementation/ testing process ensuring results in disaster reduction
- Demonstrated stakeholders’ participation and enhanced ownership
 - of the process
 - of results and lessons
- Amenable/adaptable to local context, and with institutionalization potential
- In-depth knowledge and insight gained through experience with disasters and mitigation

Criteria for Transferable Indigenous Knowledge (TIK)

ver. 070702(FM1)
070917(Stresa)
071004 (Tsukuba)

- Originated within communities, based on local needs, and specific to culture and context (environment and economy)
- Provides core knowledge with flexibility for local adaptation for implementation
- Uses local knowledge and skills, and materials based on local ecology
- Has been proven to be time tested and useful in disasters
- Is applied or applicable in other communities or generations

(Session 2: DRH WS) **Amod Mani Dixit**

Executive Director, NSET, Nepal, and DRH Facilitator

Focus: Implementation Technology

IOT: Products from modern R&D that are practiced under clear **implementation** strategies

PT: Know-how for **implementation** and practice, capacity building and social development for knowledge ownership

+ **TIK:** 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

Mohsen Ghafory-Ashtiany, IIEES

Problem or Criticism on Today's Journals:

- Hanging too firmly to traditional print-on-paper techniques;
- Long Review Process;
- Becoming too slow in publication;
- Prices are getting overrated;
- Becoming less-effective in making knowledge available on time;

Also

- In most cases, it does not provide the **implementation** and usable technology;
- Can only be used by the scientists;
- In some cases it has become a forum for scientific promotion; and
- Does not effectively solve the growing disaster risk and answer the **immediate needs of the "Users"**.

+ Widen Definition of "Technology"

***Technology (definition)** = "A set of rational means and knowledge pertinent to realizing specific objectives that have solid logical bases and stability"

(Technologies specified as:)

*Product technology

→ Implementation oriented technology

*Process technology

Both "hard" - "soft" technologies

+

*Transferable Indigenous Knowledge



DRH - CASiFiCA Collaboration

CASiFiCA to DRH (research mode):

- * Ideas and discussion in DRH conceptual development of IOT, PT, TIK (especially PT and TIK/ **DRH Facilitator (Okada: PT, Shaw: TIK)**)
- * Contributions to DRH Contents

DRH to CASiFiCA (practice mode):

- * Opportunity for practice-oriented activity = "Implementation"
- * Practice-based definition of IOT, PT, TIK
- * Some budget support for the collaboration

Jointly:

- * Promoting development of "Implementation Science"/ Inspiring each other

Expected DRH contribution to "Implementation Science"

DRH:

- * **Conceptual development of "Implementation technology"**
- * **Substantiation by DRH contents compilation: real-world part of implementation science**
- * **Contribution to DRR activities: primary mission**
- * **Offering research materials to "*Implementation scientists*" and provoke them**



Disaster Reduction Hyperbase - Asian Application (DRH-Asia) -

English

change

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[DRH Database](#)

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Database

Access to tested implementation technology, such as "implementation oriented technology (IOT)", "process technology (PT)", and "transferable indigenous knowledge (TIK)".

New Contents



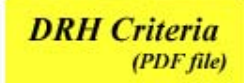
Forum

Forum for proposing contents to DRH database.



DRH Links

Guided links to relevant initiatives of disaster information platforms.



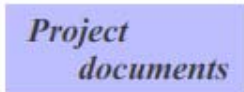
DRH Criteria

Definition and criteria on IOT, PT and TIK, and criteria for DRH contents acceptance.



DRH Template

You can download the DRH Template from here.



Project documents

You can download all records of DRH-Asia project activities.

What is DRH ?

Disaster Reduction Hyperbase-Asian Application (DRH-Asia) is a facility disseminating disaster reduction technology and knowledge under implementation strategies. It is being