

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**

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"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

+ 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

