



ADRC's Recent Activities and Future Direction

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Executive Director

Asian Disaster Reduction Center

5th ADRC Meeting, 15 January 2003,

Kobe, Hyogo, Japan

ADRC Established July 1998

1st ADRC International Meeting Feb. 1999 in Kobe

2nd ADRC International Meeting Dec. 1999 in Kobe

3rd ADRC International Meeting Dec. 2000 in Kobe

4th ADRC International Meeting Jan. 2002 in Delhi

Co-organized by Government of INDIA

5th ADRC International Meeting

***TODAY* in Kobe**

ADRC Member Countries : 24

New Member : Republic of Kyrgyz

joined July 2002



I. The Challenge we face in Asia

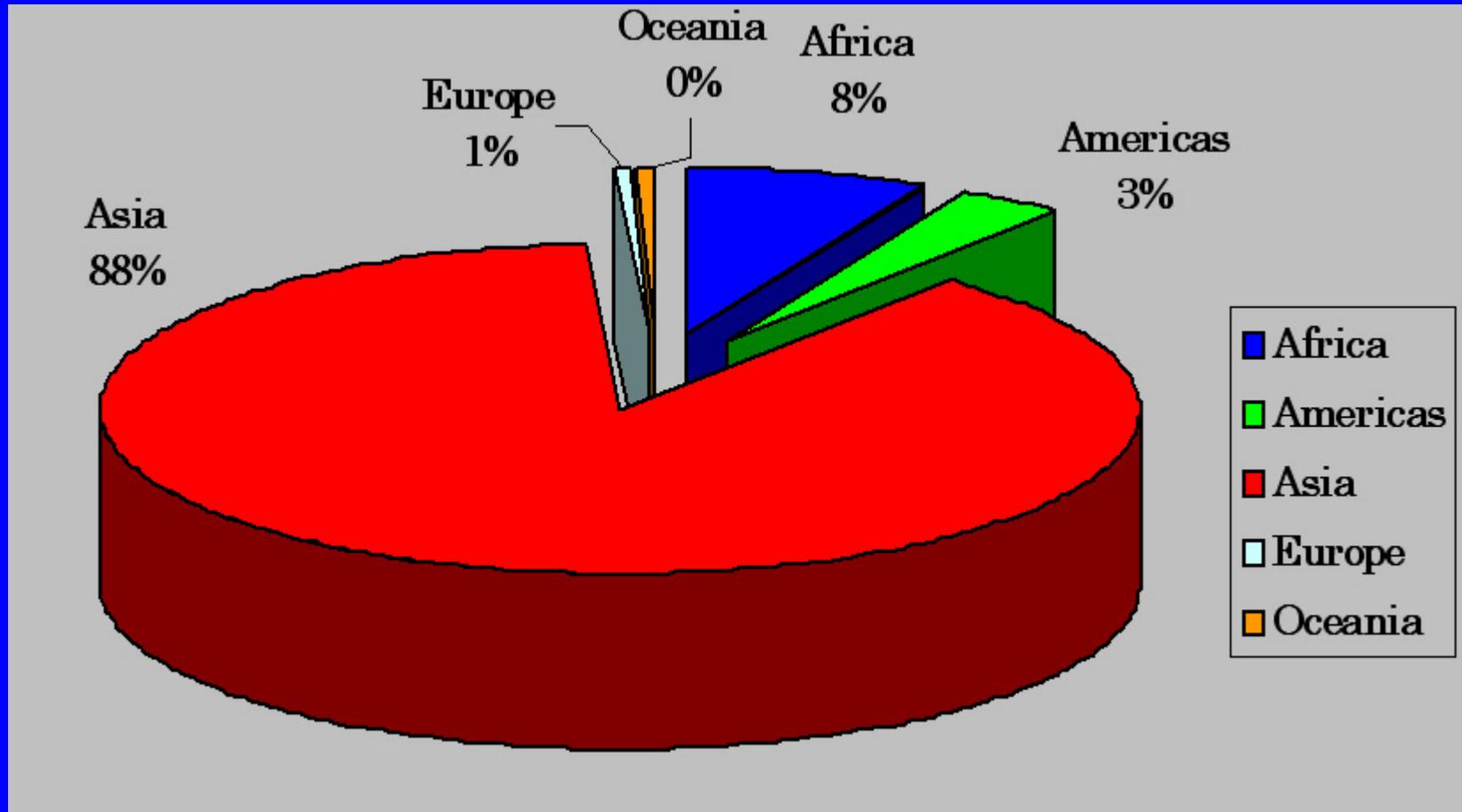
Disaster Reduction

is a **MUST** for

Sustainable Development in Asia

- A single disaster can wipe out annual GDP of a country.
- Natural Disasters can be the biggest obstacle to social security of a country.

Totally Affected People by Natural Disaster in the World (1975-2000)



Summary of Natural Disasters (1991-2000)

	Number of Disasters Occurred	Number of Killed	Number of Totally Affected People	Amount of Damage (1,000 US\$)
World	2,961	754,026	2,116,593,188	687,020,090
Asia	1,137 (38.4%)	588,654 (78.1%)	1,888,686,026 (89.2%)	373,893,530 (54.4%)

Source: ADRC, Japan based on CRED EM-DAT database, 2001

Top 10 Severest Disasters According to the Ratio of Amount of Damage to GDP

(Member Country Summary 1975-2000)

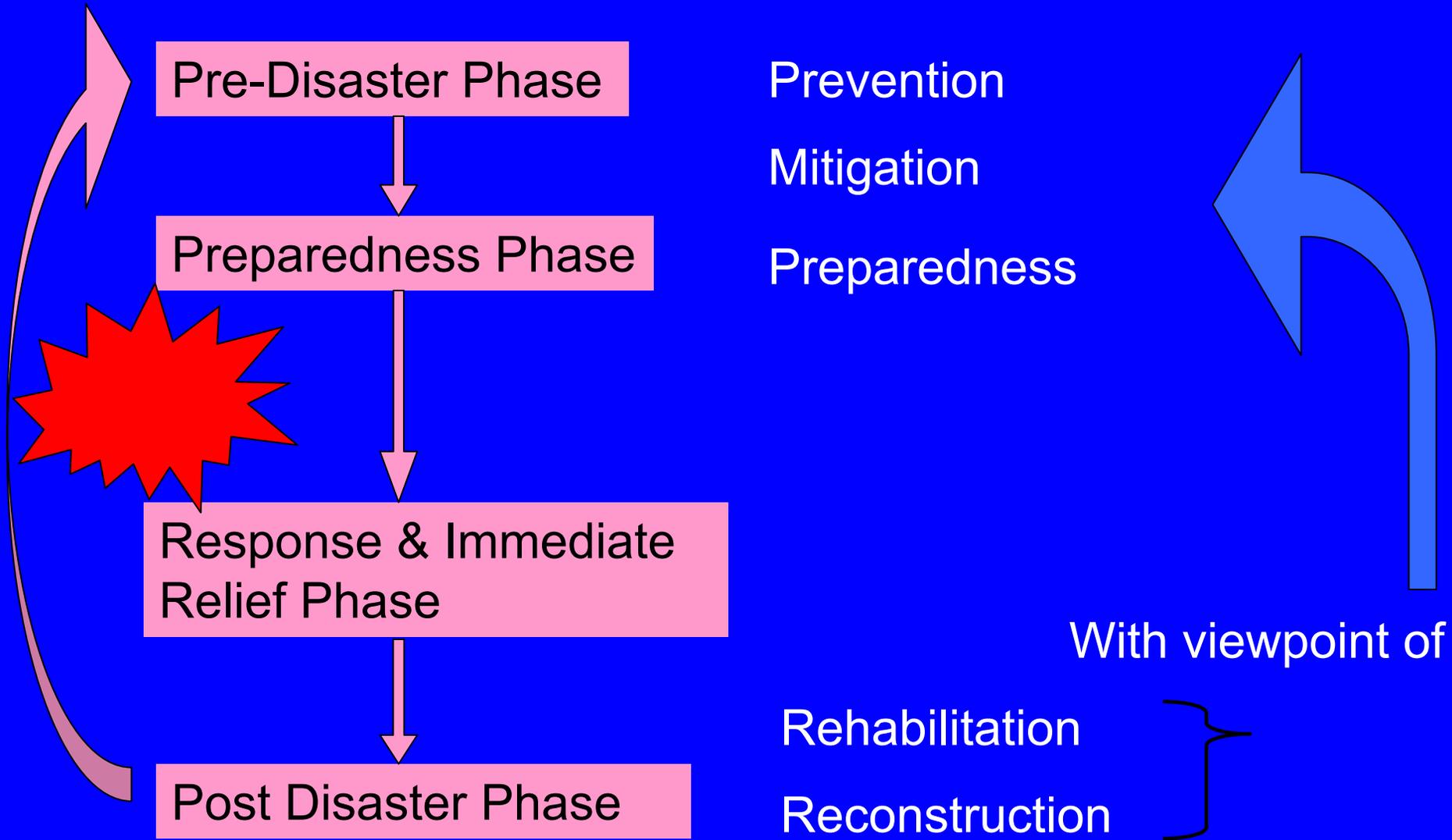
Rank	Country	DisType	Year	Killed	TotAff	Damage (Mn US\$)	GDP (MnUS\$)	Dam/GDP
1	Mongolia	Forest Wild fire	1996	25	5,061	1,712.800	1,180.00	1.452
2	Armenia(Soviet Union)	Earthquake	1988	25,000	1,642,000	20,500.000	16,900.00	1.213
3	Tajikistan	Flood	1992	1,346	63,500	300.000	290.00	1.034
4	Mongolia	Winter Wind storm	2000	4	500,000	875.000	1,000.00	0.875
5	Nepal	Flood	1987	188	351,000	727.500	2,930.00	0.248
6	Lao, P Dem Rep	Wind storm	1993	8	120	302.151	1,330.00	0.227
7	Tajikistan	Flood	1993	5	75,357	149.000	680.00	0.219
8	Myanmar	Flood	1991	23	359,976	498.800	2,380.00	0.210
9	Nepal	Earthquake	1980	100	275,600	245.000	1,840.00	0.133
10	Tajikistan	Landslide	1992	243		24.100	290.00	0.083

II. Tasks lying ahead for ADRC

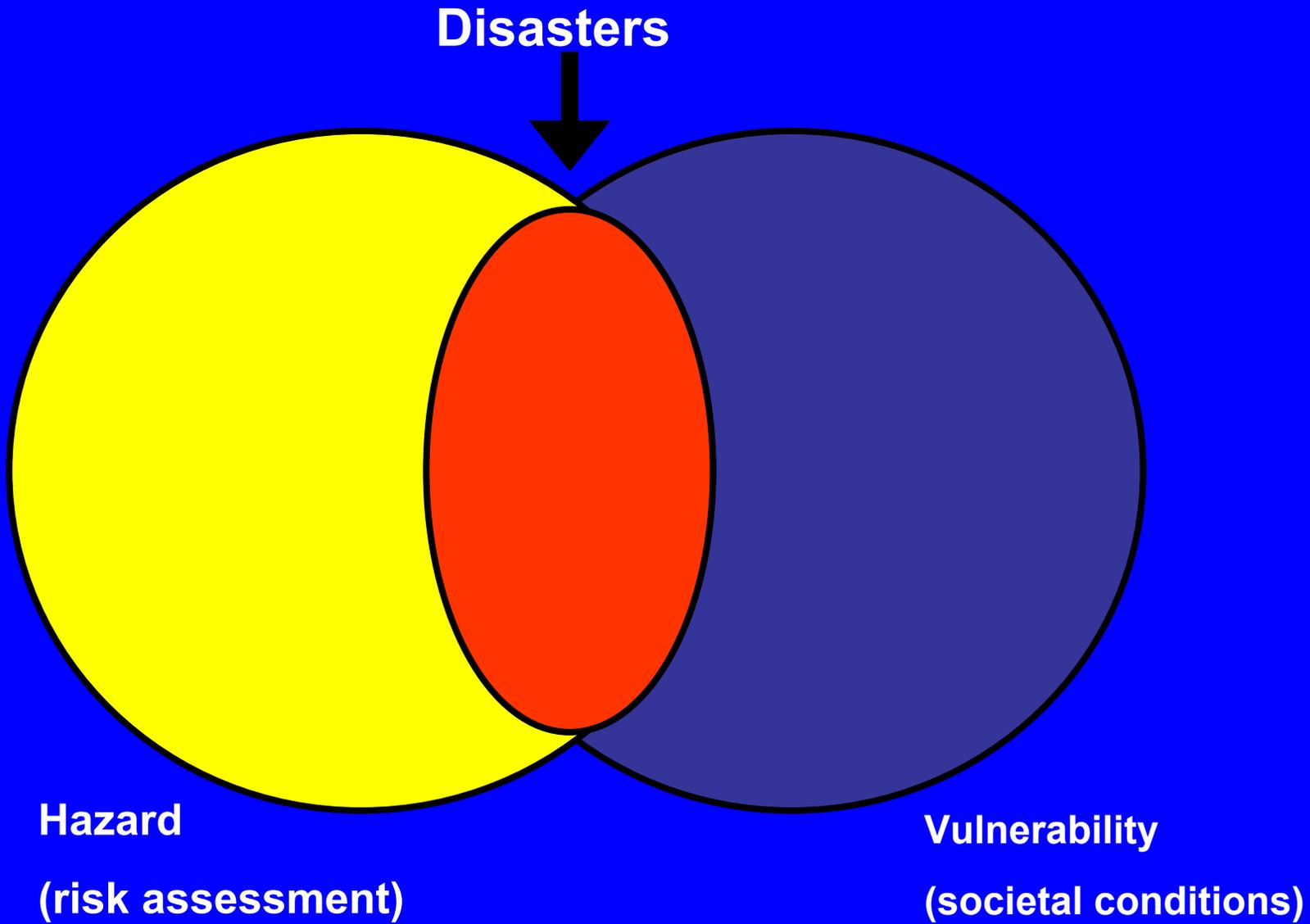
Holistic Approach to Disaster Reduction

-Towards Total Disaster Risk Management-

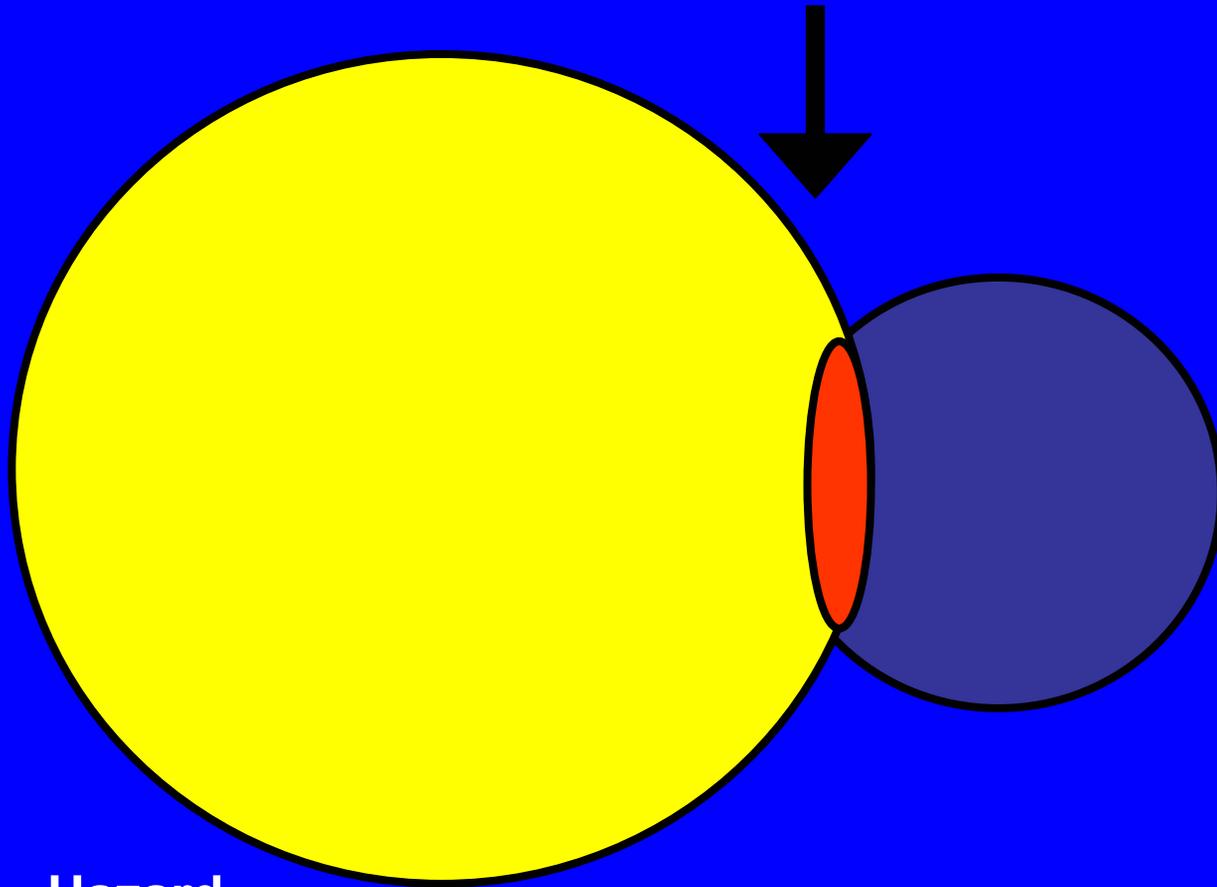
The Disaster Reduction Cycle



Hazards Confronting Vulnerable Communities Cause Disasters



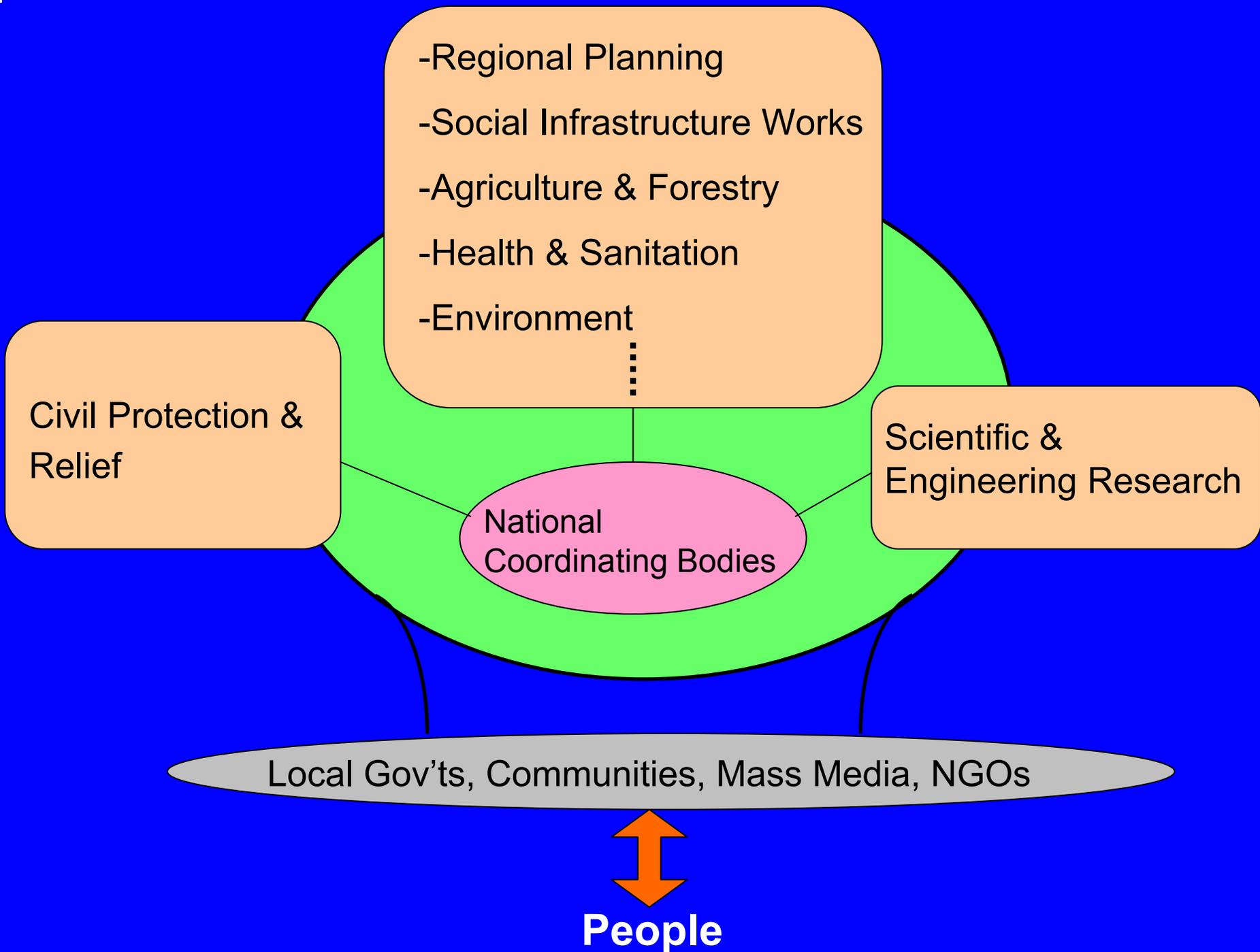
Less Disasters



Hazard
(risk assessment)

Vulnerability
(societal conditions)





Toward Total Disaster Risk Management (TDRM) in Asia

- July 2001** **First Consultative Meeting , Kathmandu
(UN and Regional Organizations)**
- June 2002** **Second Consultative Meeting, Bangkok
Co-organized with ADPC
(UN and Regional Organizations)**
- August 2002** **Regional Workshop, Kobe
(Asian Countries)**
- May 2003** **Third Consultative Meeting, Manila
WHO/WPRO and ADPC**

***2nd Consultative Meeting
on Total Disaster Risk Management
in Asia***

12 – 14 June 2002 Bangkok, Thailand

**Co-organized by Asian Disaster Preparedness Centre
Asian Disaster Reduction Center, UN OCHA/ADRU**

Participated by

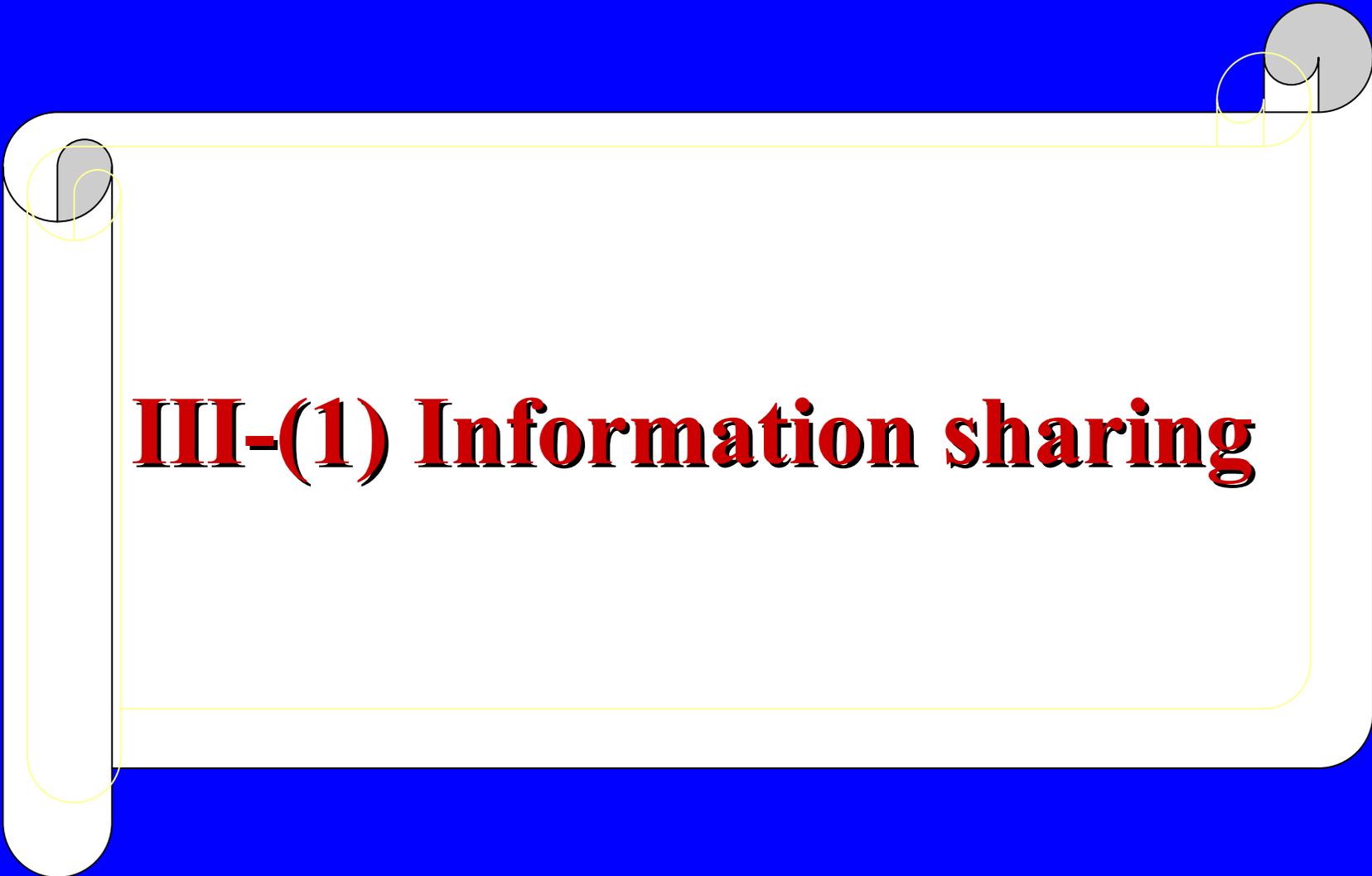
**ADB, ASEAN Foundation, ECHO, EMA, ESCAP, ICIMOD,
IDRM, IFRC, ISDR, JICA, MRC, USAID/OFDA, UNDMTP,
UNDP, UNICEF, WFP, WHO**

ADRC Programs for Total Disaster Risk Management (TDRM)

- **Cooperation with OCHA Asian Disaster Response Unit (ADRU)**
- **Supported by the ASEAN Foundation, USAID, Cabinet Office of Japan**
- **TDRM builds on the gains of IDNDR and ISDR by integrating existing knowledge and techniques on disaster management, disaster reduction and risk management for more effective application at local level**

III. Specific Pillars of Activities of ADRC

- 1) Information sharing**
- 2) Capacity building**
- 3) Cooperation**



III-(1) Information sharing

ADRC Website :

<http://www.adrc.or.jp/>

Disaster Management Information Member & Advisory Countries

Asian Disaster Reduction Center

ADRC TOP > Disaster Information on Member Countries

MENU

English Japanese

Professional Use Academic Use General Use

Disaster Information of Member Countries

- Armenia
- Bangladesh
- Cambodia
- China
- India
- Indonesia
- Japan
- Kazakhstan
- Korea, Republic of
- Kyrgyz
- Lao People's Democratic Republic
- Malaysia
- Mongolia
- Myanmar
- Nepal
- Papua New Guinea
- Philippines
- Russian Federation
- Singapore
- Sri Lanka
- Tajikistan
- Thailand
- Uzbekistan
- Viet Nam

Advisory Countries

- Australia
- France
- New Zealand
- Switzerland

DB + WWW search

The Latest Disaster Information

Glossary on Natural Disasters

Internet Exhibition

VPNTN: Internet-based GIS

Disaster Information of Member Countries

Member Countries



Advisory Countries

Australia Switzerland New Zealand France

Members Countries
Armenia / Bangladesh / Cambodia / China / India / Indonesia / Japan / Kazakhstan
Korea / Kyrgyz / Lao People's Democratic Republic / Malaysia / Mongolia / Myanmar
Nepal / Papua New Guinea / Philippines / Russian Federation / Singapore / Sri Lanka
Tajikistan / Thailand / Uzbekistan / Viet Nam

Advisory Countries
Australia / France / New Zealand / Switzerland

available soon!

New Function of the Latest Disaster Information

The screenshot displays the VENTEN GIS application in a Microsoft Internet Explorer browser window. The main interface is divided into several panels:

- Map Panel:** Shows a map of Japan with various data overlays. A red dot on the map indicates a specific location. The map data is identified as 'Digital Chart of World' and 'World Cities Population Database'.
- Search Results Panel:** Displays 'Search Results: 2 Data' with a table listing search results:

Num	Country	City	Event
1	JAPAN	KOUBE	EARTHQUAKE
2	JAPAN	MAEBASHI	EARTHQUAKE

Below the search results is a legend with various disaster types and their corresponding symbols and colors, such as 'Flat Area', 'Collapse (Earthquake)', 'Falling of roof tiles (Earthquake)', 'Burned (Earthquake)', 'Severe damage (Earthquake)', 'Moderate damage (Earthquake)', 'Slight damage (Earthquake)', 'Seismic center (Earthquake)', 'Active Fault', 'Active Fault Trace', 'Active Fault Trace (Site)', and 'Active Fault Trace (Conceal)'. There are also checkboxes for 'Clear Select Item', 'Layer', and 'Disaster'.

Other panels include a 'BUFFERS' section with 'Create' and 'Clear' buttons, a 'CALCULATION' section with 'Area Calculation', 'Total Value', 'Buffer', and 'Disaster' options, and a 'SHORTEST ROUTE' section with 'Measure' and 'Clear' buttons. A 'Go to Map' button is highlighted with a red circle in the bottom left panel.

A Sim

The functions of ADRC Internet GIS "VENTEN" are available.

Click

Multi-language Glossary on Natural Disasters, New with Korean & Chinese

Multi-language Glossary on Natural Disasters

Database for Multi-language Natural Disasters

Enter query: Search

Source language: Chinese(CN), Chinese-pinyin(CNP), **English(EN)**, French(FR), Japanese(JP), Japanese-pron(JPF), Korean(KR), Spanish(ES)

Target language: **Chinese(CN)**, English(EN), **French(FR)**, Japanese(JP), **Korean(KR)**, Spanish(ES)

Display: 10 items, include this

The translation result.

Results

No.	English	Chinese
1	rock avalanche	岩崩

The translation result.

Results

No.	English	French	Glossary
1	rock avalanche	avalanche de roches	

The translation result.

Results

No.	English	Korean
1	rock avalanche	암석사태

Source: Japan National Committee for IDNDR, *Multi-language Glossary on Natural Disasters*, March 1993
 United Nations Department of Humanitarian Affairs,
Glossary: International Agreed Glossary of Basic Terms Related to Disaster Management,
 December 1992

With kind cooperation to review the Korean words and terms of
 Korea National Institute for Disaster Prevention
 Ministry of Government Administration and Home Affairs
 - correspondent: Dugkeun Park, Ph.D (Senior Analyst)

[Return to translation top](#)

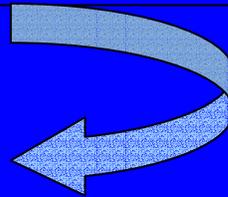
Innovative Methods for Disaster Information Sharing

For Effective Disaster Info. Sharing

Background

- Each organization has their own databases and libraries using their own ID
- Each database has no direct relation
- It's not easy to match one event data to another database's data

Difficulty to match data



Different names are used;

(West) India Eq, Gujarat Eq, Bhuj Eq, KACCH Eq,--- Kobe Eq, Hansin- Awaji Eq, Hyogo-Nanbu Eq

Different Date are registered;

Difficult to decide when a flood/ drought started

GLIDE Number Project

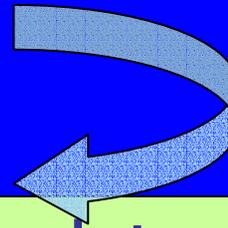
*Demerit of direct **HYPER LINK** system*



- One by one hyper link needs much time and efforts
- Hyper Link will be disconnected by design change of data provider's DB structure.



By introducing unique ID



- Easy matching to various data resources
- Rapid automatic linking by search engine

Facilitate Effective Info. Sharing

Global IDEntifier (GLIDE) Number

Hazard code

Serial number



Year

ISO country code

Hazard Code

DR	drought
EQ	earthquake
EP	epidemic
ET	extreme temperature
FA	famine
IN	insect infestation
FL	flood
SL	slide, including landslide and avalanche
VO	volcano
WV	wave and surge
WF	wild fire
ST	storm
AC	accident
OT	other

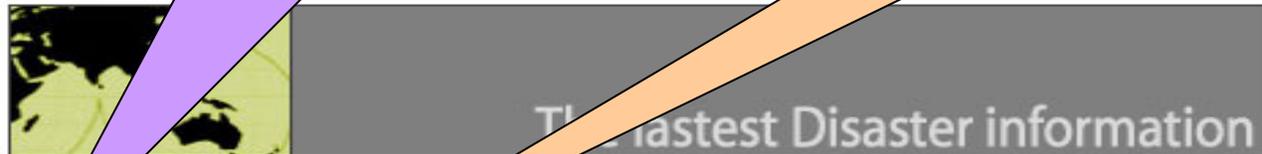
**The above GLIDE number is for the flood
occurred in 2002 in Philippines*

Global IDentifier (GLIDE) Number

Automatic Link to CRED data and ReliefWeb

http://www.adrc.or.jp/latestinfo//view_CRED.asp?lang=en&KEY=EQ-2002-0577-PNG

<http://www.reliefweb.int/w/rwb.nsf/GLIDE?OpenForm&GLIDE=EQ-2002-0577-PNG>



GLIDE: EQ-2002-0577-PNG
Papua New Guinea : Earthquake : 2002/09/09

CRED

ReliefWeb

Duration	2002/09/09	An earthquake measuring 7.5 on the Richter scale hits the Pacific Ocean north of Papua New Guinea, with fears of a possible tsunami.
Country or District	Papua New Guinea	
Name	Earthquake	

Headline(Source, Date)

Personal Injury

Material Damage

Others

Specific Matters

Related Links

Report/Articles

- Herald Sun news 2002/09/10
Tsunami fears after PNG quake

Latest documents pertaining to GLIDE No. EQ-2002-0577-PNG

[\[ReliefWeb Maps\]](#)

[◀ Previous](#) [Next ▶](#)

- [19-Sep-2002](#) | **OCHA** Papua New Guinea - Earthquake OCHA Situation Report No. 2 **NEW!**
- [13-Sep-2002](#) | **AFP** PNG emergency authorities struggle with multiple disasters
- [13-Sep-2002](#) | **ABC** Thousands in need following PNG quake
- [12-Sep-2002](#) | **ABC** PNG government hopes to manage recovery effort after quake
- [11-Sep-2002](#) | **EWC** PNG: Wewak schools closed
- [11-Sep-2002](#) | **EWC** PNG: No water in Wewak quake zone
- [10-Sep-2002](#) | **Reuters** Aftershocks rattle quake-hit Papua New Guinea
- [10-Sep-2002](#) | **IFRC** Papua New Guinea: Earthquake Information Bulletin No. 01
- [10-Sep-2002](#) | **AFP** Death toll rises to six, many reported homeless after PNG quake
- [09-Sep-2002](#) | **OCHA** Papua New Guinea - Earthquake OCHA Situation Report No. 1
- [09-Sep-2002](#) | **ABC** PNG's Prime Minister in earthquake zone
- [09-Sep-2002](#) | **AFP** Up to four killed as severe quake, tidal wave add to PNG woes
- [08-Sep-2002](#) | **USGS** USGS earthquake bulletin: Papua New Guinea

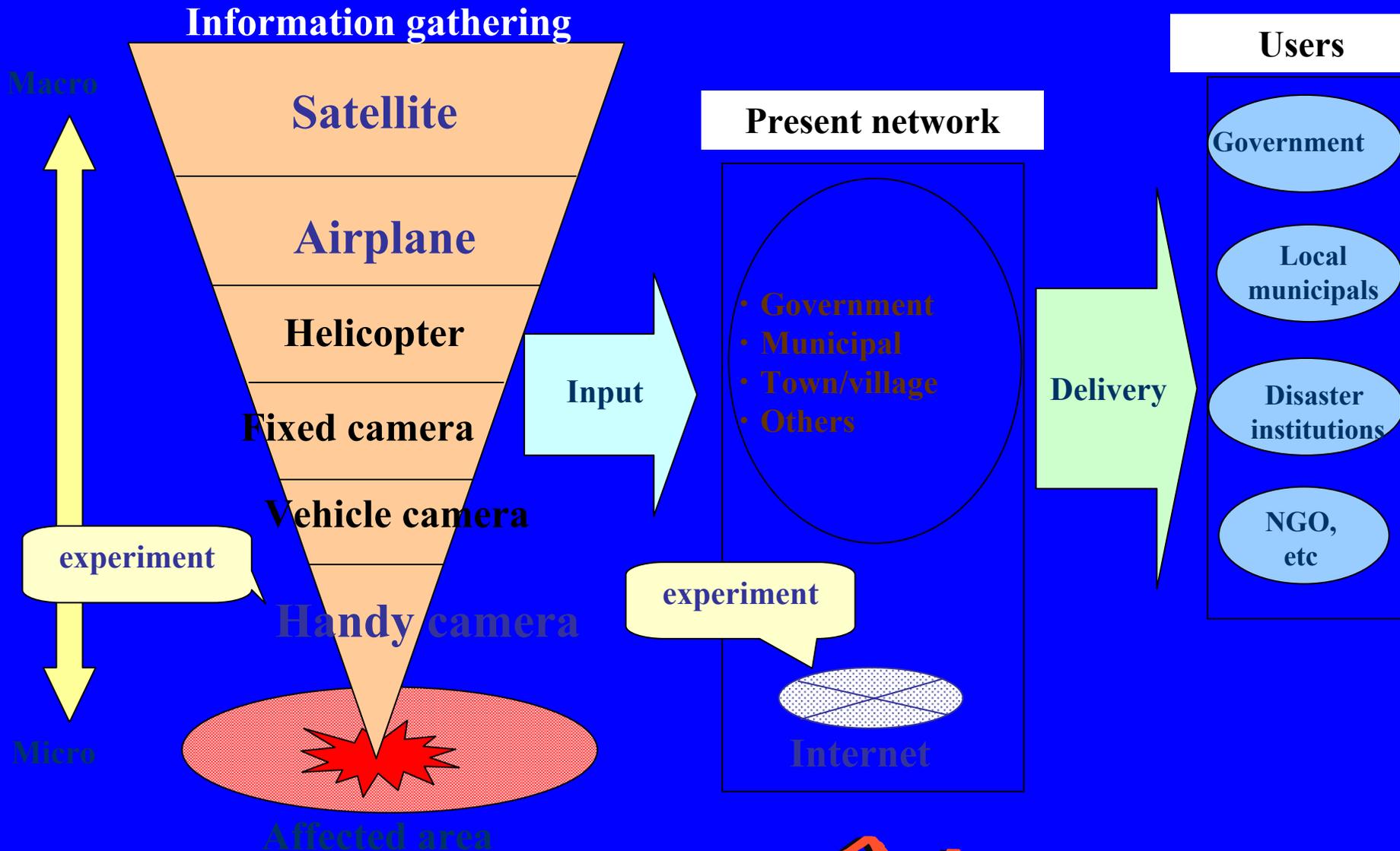
[◀ Previous](#) [Next ▶](#)

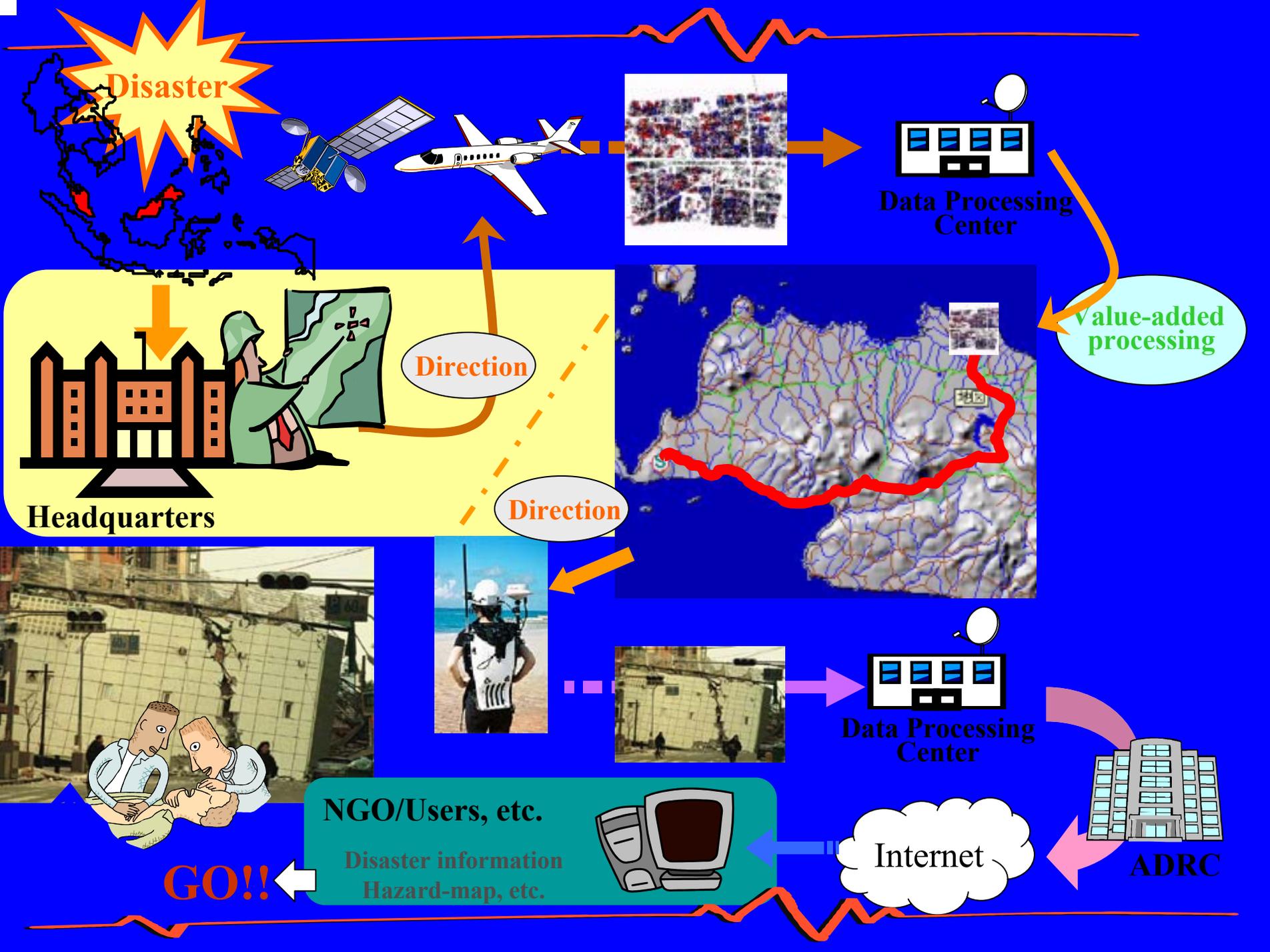
Space Technology Applications for Disaster Management

i – Space Project with NASDA
(National Space Development Agency of Japan)

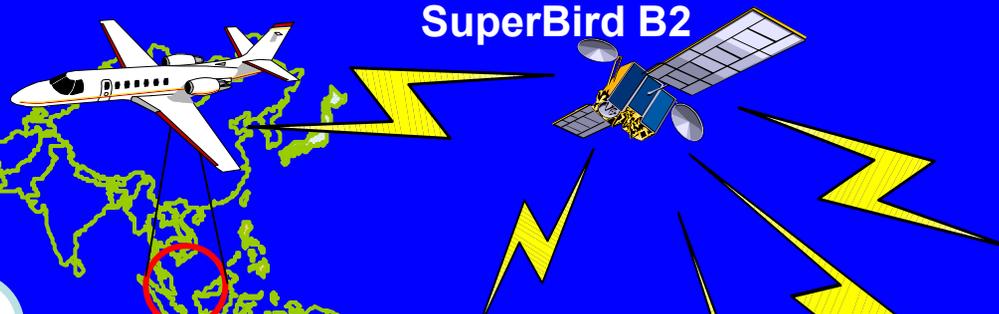
**NASDA and ADRC have been developing
the Disaster Information Sharing System
using Satellite**

Disaster monitoring and information dissemination

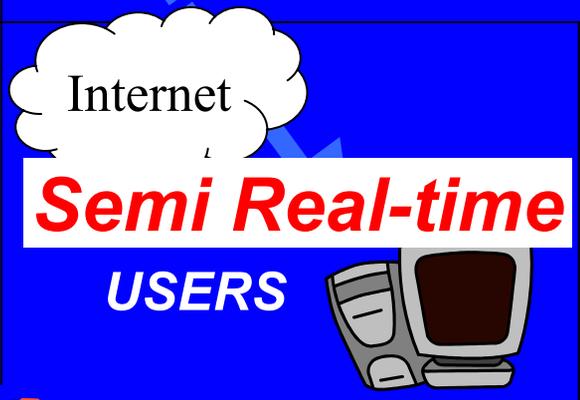
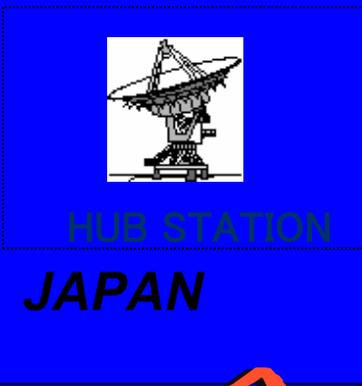




Disaster Management Experiment

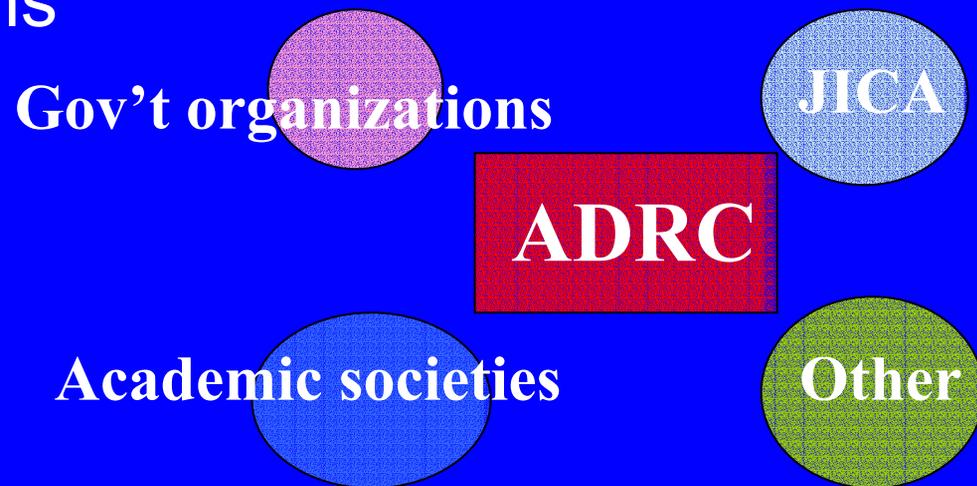


Real-time Communication



III-(2) Capacity Building

- Coordination with other organizations
 - JICA Disaster Management Training
 - Member country's Government organizations



- ADRC Visiting Researcher Program

Human Resources Development for Asia

2000

Nepal	To raise Public Awareness for Disaster Reduction
Cambodia	Human Resource Development on Disaster Management
Sri Lanka	Human Resource Development on Disaster Management

2001

Singapore	Urban Search & Rescue Training
PHIVOLCS (Philippines)	Learning to expect the unexpected

Human Resources Development for Asia

2002

Singapore	Urban Search & Rescue Training
Bangladesh	Improvement of Early Warning System and Responses in Bangladesh
Cambodia	Disaster Management Information System Training
Lao PDR	Human Resource Development on Disaster Management

Training Program in Bangladesh

19-24 December, 2002



ADRC Visiting Researchers

- **Korea:** Dr. Shim Kee Oh (Drought)
- **Viet Nam:** Mr. Ngo Van Sinh (Hydraulics)
- **Nepal:** Mr. Lekh Nath Pokharel (Relief)
- **Sri Lanka:** Mr. Nimal Hettiarachchi (Relief)
- **Bangladesh:** Mr. Babul Akhter (Micro Credit Finance for Rural Development)
- **Sri Lanka:** Mr. Chulananda Perera (Disaster Management)
- **Armenia:** Ms. Hripsime Vardanyan (Seismic Risk Reduction)
- **Cambodia:** Mr. So Heang Ban (Disaster Management)
- **Papua New Guinea:** Ms. Philomena Miria (Risk Management & Training)
- **Bangladesh:** Mr. Md. Atikuzzaman (Training)
- **Armenia:** Mr. Sayiyan (Seismic Risk Reduction)
- **Cambodia:** Mr. Khun Sokha (Flood Management)
- **India:** Mr. V.P. Pasrija (Disaster Management)

III-(3) International Cooperative Project

1999

PNG Tsunami Disaster Reduction Awareness Project

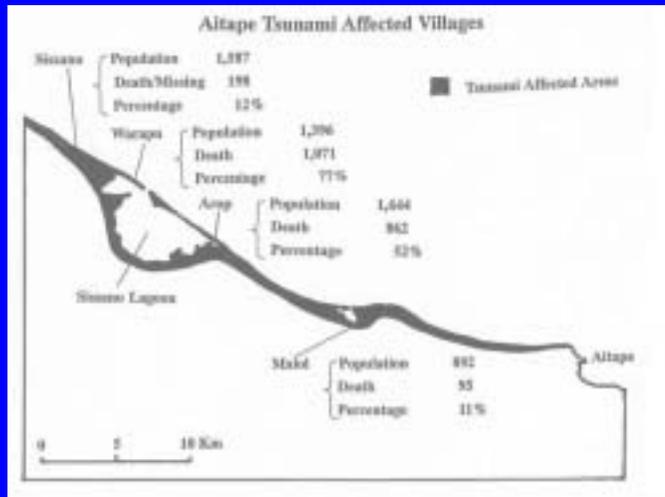
2000

**Indonesia Community-based Flood Mitigation
in Bandung City**

2001

INDIA Multi-Countries Mission to India

Tsunami Education Tested



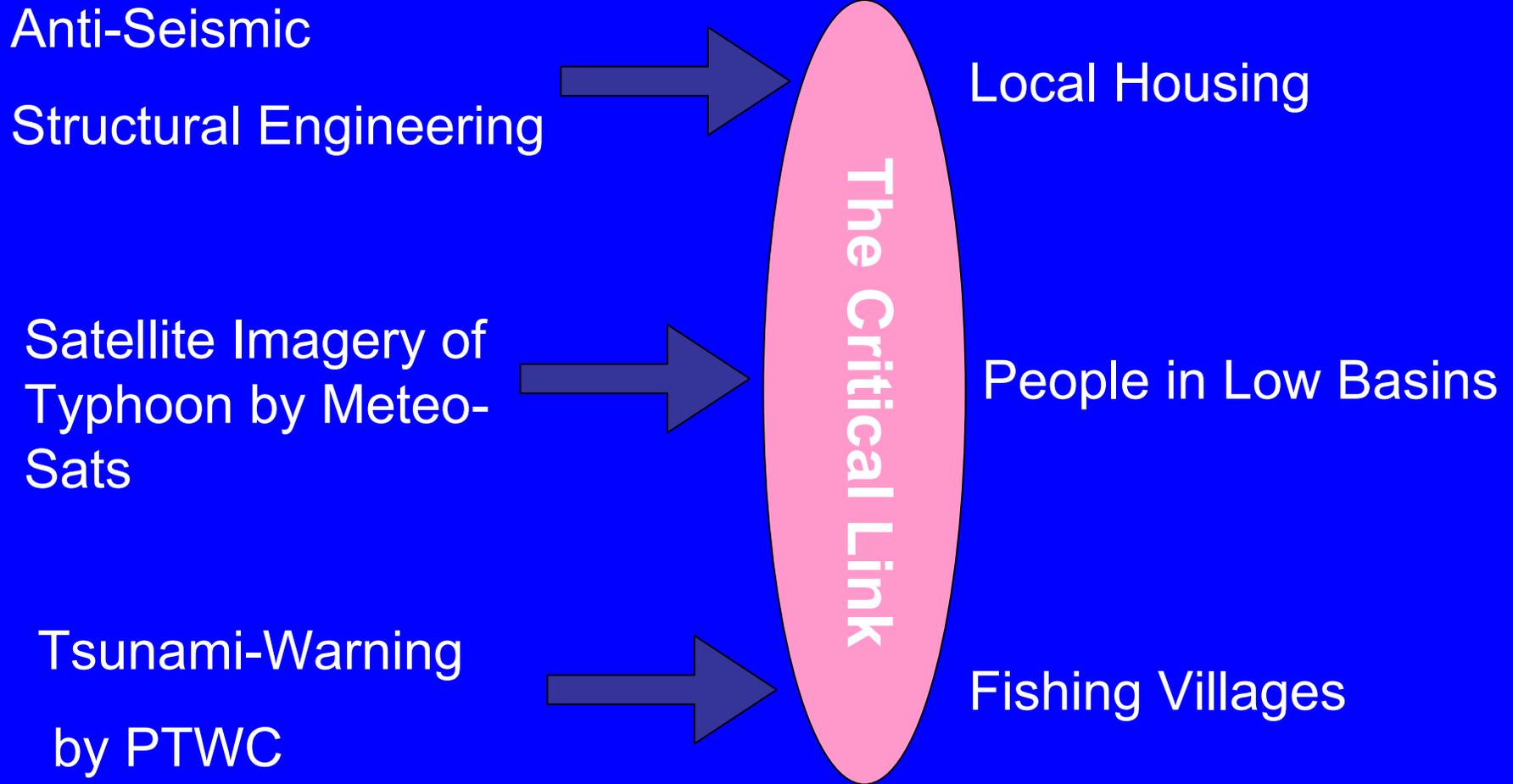
In July 1998 more than 2,200 people lost their lives due to gigantic tsunamis which attacked the Aitape west coast of PNG.

In November 2000 powerful quake hit New Britain and New Ireland. But this time no one was dead due to tsunamis on PNG island coasts.

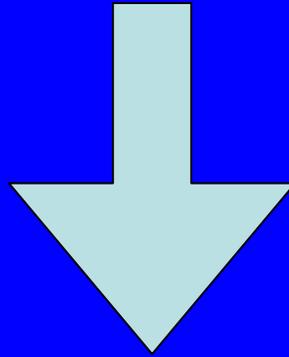


IV. Involving More Players for Disaster Reduction and Response

How can we really reach the people at risk?



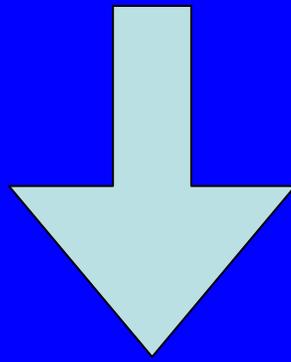
The Crucial Role of NGO's



Regional Workshop on Networking and Collaboration
among Non-Governmental Organizations of Asian
Countries in Disaster Reduction and Response

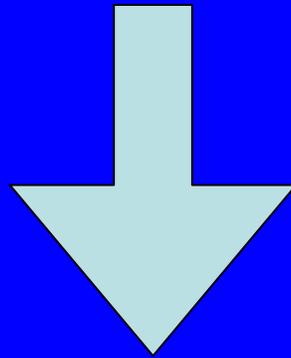
20-22 Feb 2002

Co-organized by ADRC and UN-OCHA



Asian Disaster Reduction and Response Network ADRRN

(Development of New Website <http://www.adrc.or.jp/ngo/>)



Towards Better Sharing of Experiences
and Practical Tested Knowledge
to Save People's Lives in Asia

6th Asia & Pacific Conference of Red Cross and Red Crescent Societies

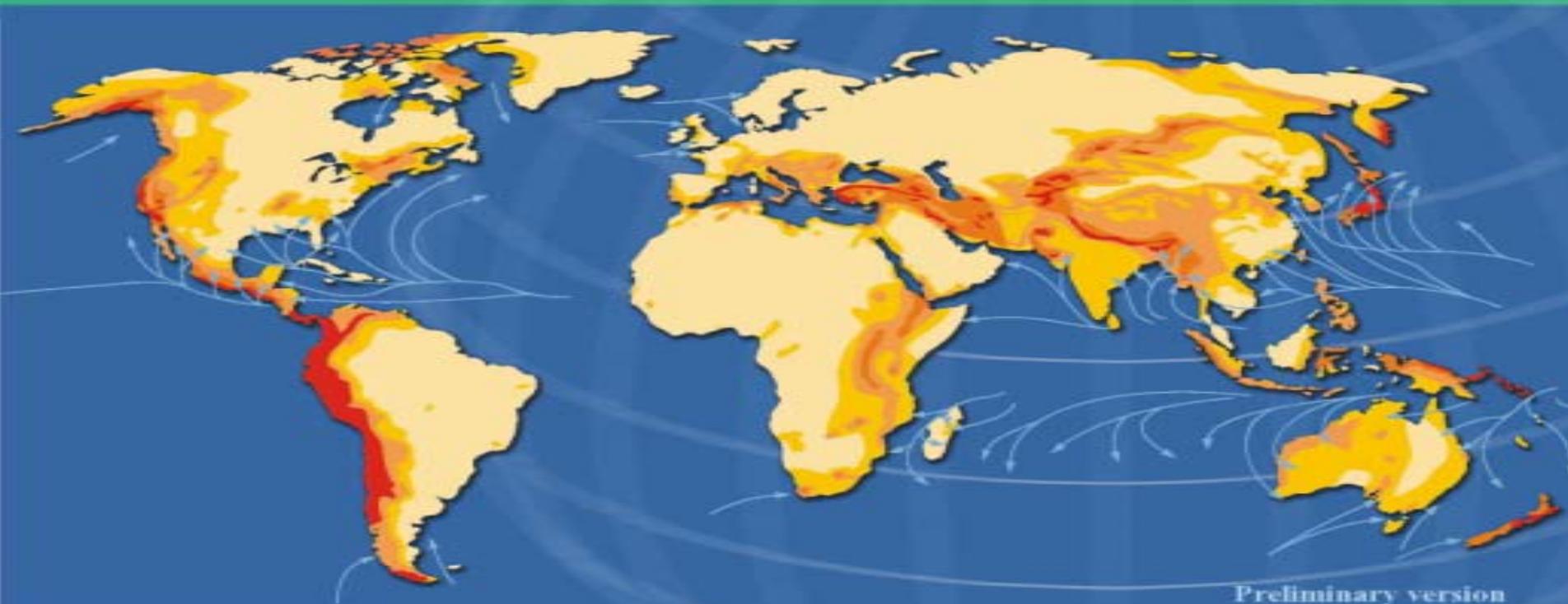


Promotion of ISDR in Asia

**Contribution to
the Ten Year Review of
the Yokohama Strategy
and Plan of Action**

Living with Risk

A global review of disaster
reduction initiatives



Preliminary version
Geneva, July 2002

Prepared as an inter-agency effort coordinated by the ISDR Secretariat with special support from the Government of Japan, the World Meteorological Organization and the Asian Disaster Reduction Centre (Kobe, Japan)

International Strategy
ISDR
for Disaster Reduction



United Nations



OMM





THANK YOU