

### 3-4. Disaster Management Exhibition

#### 3-4-1. Why a Disaster Technology Database is Necessary?

When one plans to purchase disaster management equipment or when one wants to know what type of disaster management equipment is available on market, it is not easy to find such information. Disaster-related technologies extend over a wide range; the jacks for rescuing a victim trapped under a collapsed building, fixtures to prevent furniture from tumbling, portable toilets for temporary evacuation facilities, water purification equipment to produce drinking water, machinery and equipment such as earthquake-absorbing devices for building, communication systems and disaster reduction GIS using satellites, damage estimation system and forecast/prediction technologies are examples of the extremely wide range of technologies and equipment available.

On the other hand, development of disaster-related technologies and equipment is not easy to develop because the purposes of the applications are limited. In addition, even when a new technology or piece of equipment is developed, advertising is limited due to the small market.

However, these technologies and equipment make a significant contribution in improving the disaster management capability of an entire society. Accordingly, it is important to expand the marketing by providing information on these technologies and equipment to a wider range of organizations and individuals, including local municipal bodies, private companies, NGOs and the general public.

One of the means to increase awareness is the exhibition of disaster reduction technologies and equipment. Such exhibitions have been held in Tokyo, Yokohama and Kobe ever since the Great Hanshin-Awaji Earthquake.

Although a large number of individuals visited these exhibitions as indicated in the Table below, information or communication via exhibitions is limited to the exhibition visitors, and disaster reduction personnel in remote areas do not have easy access to such information.

Because of these limitations, ADRC opened a Virtual Exhibition of Disaster Reduction Technologies on its website to facilitate easy access to the information from anywhere in the world.

Table. 3-4-1-1 Overview of Disaster-related Exhibitions

Place	Name	Period	Visitors	Exhibitors	Booths
Tokyo	Tokyo International Fire Prevention and Disaster Reduction Exhibition	June 4-9, 1998	214,064	260	1,380
	Disaster Rescue Fair 2000	April 20-23, 2000	51,668	70	900
Yokohama	Earthquake Disaster Reduction Technology Exhibition '02	February 14-15, 2002	5,636	125	128
	Earthquake Disaster Reduction Technology Exhibition '03	February 6-7, 2003	6,629	96	157
Kobe	Earthquake Disaster Reduction Technology Exhibition '97	January 16-17, 1997	4,264	130	230
	Earthquake Disaster Reduction Technology Exhibition '98	January 13-14, 1998	3,220	115	215
	Earthquake Disaster Reduction Technology Exhibition '99	January 13-14, 1999	3,830	120	135
	Earthquake Disaster Reduction Technology Exhibition '00	January 27-28, 2000	3,479	59	81
	Earthquake Disaster Reduction Technology Exhibition '01	January 18-19, 2001	3,541	50	72
	Earthquake Disaster Reduction Technology Exhibition '02	February 14-15, 2002	1,550	25	25
	Earthquake Disaster Reduction Technology Exhibition '03	January 30-31, 2003	3,336	43	48

### 3-4-2. Virtual Internet Exhibition of Disaster Reduction Technologies

ADRC prepared a database of disaster reduction technologies and opened a virtual exhibition on January 17, 2001 so that anyone can view various technologies and equipment over the Internet.

ADRC's website now has a button link to the virtual exhibition. Clicking the button will take the visitors to a menu screen to select the technologies and/or equipment they want to view. For those who require more detailed information, a link to the manufacturers homepage or contact information such as an email address or phone number is available for direct contact.

By providing the virtual exhibition service, ADRC aims at communicating information on disaster management technologies and equipment in a way that actual exhibitions do. However, the organizations or companies that develop disaster management technologies and equipment do not always have their own homepages, and if they have a homepage, it is only available in Japanese. To resolve such a communication problem, ADRC is assisting these organizations and companies by providing standard homepage design templates and/or English translation of the articles on the various homepages. Thus, ADRC is promoting active information exchanges between the exhibitors and visitors by utilizing the human and physical resources that ADRC has at its disposal. As of the end of March 2003, a total of 203 items have been or are exhibited on the site from 60 organizations and companies.

ADRC will continue to make every effort to investigate and exhibit disaster reduction technologies and equipment developed in other Asian countries.

### 3-4-3. Classification of Disaster Reduction Technologies

As shown in the table below, the thesaurus of the database is designed for the classification by time line, technology and equipment.

Table. 3-4-3-1 Database Structure

Time Line	A. Technology	B. Equipment
Mitigation	a. Earthquake-resistance technology, earthquake-absorbing technology b. Antiseismic evaluation	a. Fixtures b. Emergency shut-off system
Preparedness	a. Disaster reduction plans, damage estimation, forecast/prediction b. Support to drills	a. Various emergency stock
Response	a. Disaster monitoring b. Communication network	a. Rescue, emergency medical care b. Firefighting
Recovery	a. Recovery support system	a. Remote control robots b. Assistance to daily life

In order to attain a database loaded with useful information, cooperation from organizations and companies that own disaster reduction technologies and equipment is indispensable. It will be important to continue to make appeals to more organizations and companies for participation in the virtual exhibition.

Fig. 3-4-3-1 Example of Internet Virtual Exhibition of Disaster Reduction Technologies and Equipment

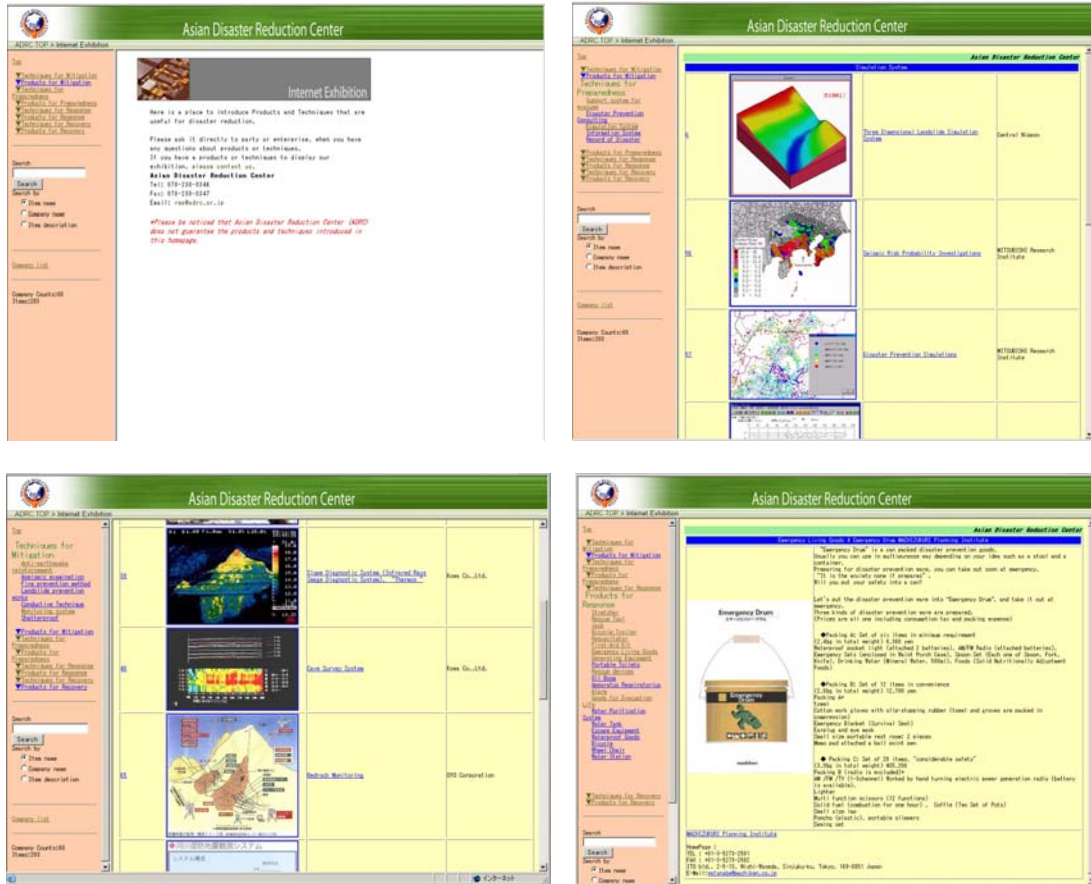


Fig. 3-4-3-2 Network of Virtual Internet Exhibition

ADRC Disaster Technique Products Exhibition on the Internet Website

