Learning to Live with Risk

January 18, 2005

Toshizo Ido
Governor
Hyogo Prefecture
Hyogo Prefecture has experienced major disaster and as a disaster area is prepared to help in the restoration of communities devastated by the massive tsunami in the Indian Ocean.

(Already implemented)
- Prefectural employees dispatched (in collaboration with JICA and ADRC)
- Fact-finding mission sent in by Disaster Reduction and Human Renovation Institution
- Relief materials (drugs to prevent the spread of infectious diseases) sent from Hyogo Prefecture
- Contributions and donations solicited

(Future)
When requested by disaster areas:
- Assistance in the formulation of rebuilding plans
- Preparation of other required assistance, for example, psychological care
Great Hanshin-Awaji Earthquake

- Size of earthquake: Magnitude 7.3
- Maximum seismic intensity: 7 on the seismic scale
- Epicenter: Southern Hyogo Prefecture (northern Awaji Island)
- Casualties: 6,433 people
- Damage: ¥9.9 trillion
- Maximum evacuees: 316,678 people
- Maximum No. of evacuation centers: 1,153 facilities
- Buildings damaged: 512,882 buildings
Great Hanshin-Awaji Earthquake Reconstruction Plan

Basic Principle

(Creative Reconstruction)

Regenerate cities designed for the mature societies of the 21st century

Build harmony between people, nature and society

Total project budget: ¥17 trillion
(Total project cost: ¥16.3 trillion)
General Verification and Recommendations in the 10th Year of Reconstruction
—Experiences and Lessons from the Great Hanshin-Awaji Earthquake—

Verification/Recommendation Project

Accomplishments  Tasks for the Future
General Verification and Recommendations in the 10th Year of Reconstruction

Experiences and Lessons from the Great Hanshin-Awaji Earthquake

Verification/Recommendation Project

Accomplishments

Tasks for the Future

Accomplishments①

- The Hanshin-Awaji Earthquake Reconstruction Fund raised ¥900 billion and engaged in voluntary projects worth ¥365 billion
- The Law to Assist the Rebuilding of Lives in Disaster Areas was formulated and enhanced
- Two-stage urban plan was implemented to adjust land use and zoning in reconstruction areas
- Victims Reconstruction Support Conference was organized and convened
- Elderly/collective housing was built
Support was provided for voluntary activities by prefectural residents.

Assistance was provided to community businesses etc.

Wide-area stockpiles, fire-fighting schools and human resources training centers were established and enhanced.

Disaster Reduction and Human Renovation Institution was established.

International disaster-preparedness institutions were gathered in the New City Center in eastern Kobe.

Psychological care programs were put in place and the Hyogo Institute for Traumatic Stress was opened.
A disaster emergency medical treatment system was established: the Hyogo Emergency Medical Center was opened.

- Teachers were assigned to oversee education reconstruction, and “New Disaster-Preparedness Education” was promoted.
  - Environment and Disaster-Preparedness Department established at Maiko Prefectural High School

- Programs were established to monitor the elderly affected by the disaster (LSA, SCS) and assist them in achieving independence

- Programs were implemented by residents, community groups, NGOs/NPOs, companies and government organizations
Verification/Recommendation Project

Accomplishments

Tasks for the Future

- Enhance emergency rescue facilities and mechanisms for assisting in the rebuilding of lives and homes
- Establish and develop innovative programs inspired by the earthquake
- Assist the elderly affected by the disaster in achieving independence and reenergize communities
- Enhance the anti-seismic performance of homes and public facilities
- Publish the recommendations from the study, flesh out new systems and programs
- Develop programs to “Remember January 17”
Transmitting the experiences and lessons of the earthquake to future generations

Symbiotic society

- Build a disaster-resistant culture
- Create a society that works together to prevent disaster
- Promote disaster-preparedness education and training
- Promote the activities of Disaster Reduction and Human Renovation Institution
Hyogo Prefecture Government

Build a disaster-resistant culture

General programs to mitigate disaster

- Build risk management system
- Hazard map
- Promotion of seismic retrofitting

Fast recovery and rebuilding after disaster

- Advance formulation and study of rebuilding plans
Create a society that works together to prevent disaster

- Integrated disaster-preparedness programs by government, private sector, NGOs/NPOs and residents
- Create new victim assistance programs that balance self-help, mutual-aid and public assistance
- Enhance and strengthen volunteer disaster-preparedness organizations and promote aid to those most vulnerable to disaster

(Self-help) Earthquake insurance

Public assistance

(Mutual aid) Home-Owners Mutual Aid System
Promotion of disaster-preparedness education

Disaster-preparedness education in primary (elementary and junior high) education
(Evacuation drills, supplementary readers etc.)

Higher level disaster-preparedness education in prefectural high schools
(Disaster-preparedness education from the respective of natural and social environment)

Creation of disaster-preparedness supplementary readers and improvement of teacher quality

Promote disaster-preparedness training in local communities
(Volunteer disaster-preparedness organizations, fire departments, companies, NPOs etc.)
Promote the activities of Disaster Reduction and Human Renovation Institution

Collection, preservation and display of materials

Surveys and research by experts

Practical disaster-preparedness training

Dispatch of experts in times of disaster

Examples of display

1/2 of operating costs covered
Researchers dispatched by Disaster Reduction and Human Renovation Institution

Northwestern Turkey Earthquake
(Exchange of opinions etc. on policies and program to deal with damage from urban earthquakes in the future)

Northern Algeria Earthquake
(Advice on recovery and rebuilding)

Southeastern Iran Earthquake
(Study of contribution policies for recovery and rebuilding phase after emergency assistance)
Researchers dispatched by Disaster Reduction and Human Renovation Institution

Sumatra Tsunami
(Study of appropriate assistance policies for rebuilding phase in light of Hyogo experiences)

Taiwan Earthquake
(Assistance in formulating reconstruction plan)

Western India Earthquake
(Assistance in formulating reconstruction plan)
## Hyogo Prefecture assistance for foreign disasters

<table>
<thead>
<tr>
<th>Name of disaster</th>
<th>Assistance rendered</th>
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</thead>
<tbody>
<tr>
<td>Russia, Sakhalin Earthquake</td>
<td>300 blankets</td>
</tr>
<tr>
<td>North Korea Flooding</td>
<td>3000 blankets, 5000 towels</td>
</tr>
<tr>
<td>China, Yunnan Earthquake</td>
<td>1500 blankets, 14t drugs</td>
</tr>
<tr>
<td>Mongolia Fires</td>
<td>1000 blankets</td>
</tr>
<tr>
<td>Iran Earthquake</td>
<td>2000 blankets</td>
</tr>
<tr>
<td>China, Hebei Earthquake</td>
<td>1000 blankets</td>
</tr>
<tr>
<td>Papua New Guinea Tsunami</td>
<td>700 vinyl sheets</td>
</tr>
<tr>
<td>China Flooding</td>
<td>1000 blankets</td>
</tr>
<tr>
<td>Columbia Earthquake</td>
<td>Contributions: ¥1,000,000</td>
</tr>
<tr>
<td>Turkey Earthquake</td>
<td>Employees dispatched: Advice</td>
</tr>
<tr>
<td></td>
<td>Contributions: ¥1,000,000</td>
</tr>
<tr>
<td></td>
<td>Donations: ¥236,421,000</td>
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<tr>
<td>Taiwan Earthquake</td>
<td>Donations: ¥276,425,000</td>
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<tr>
<td>Western India Earthquake</td>
<td>Contributions: ¥1,000,000</td>
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<tr>
<td></td>
<td>Donations: ¥174,913,000</td>
</tr>
<tr>
<td>Afghanistan Refugees</td>
<td>Contributions: ¥1,000,000</td>
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<tr>
<td>USA Terror Attack</td>
<td>Donations: ¥85,494,000</td>
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<tr>
<td>Algeria Earthquake</td>
<td>Contributions: ¥1,000,000</td>
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<tr>
<td>Southeastern Iran Earthquake</td>
<td>Generators, drugs etc.</td>
</tr>
<tr>
<td></td>
<td>Donations: ¥86,541,000</td>
</tr>
<tr>
<td>Sumatra Tsunami (Indonesia, Sri Lanka, India, Thailand</td>
<td>Contributions: ¥1,000,000 to each country</td>
</tr>
<tr>
<td></td>
<td>Antiseptics, drugs</td>
</tr>
<tr>
<td></td>
<td>Donations solicited</td>
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</tbody>
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International assistance under individual requests
Disaster-preparedness

Disaster Reduction Alliance

- WHO Kobe Centre
- APN Kansai Research Center
- JICA Hyogo International Center
- ADRC
- EDM
- OCHA
- UNCRD
- Great Hanshin-Awaji Earthquake Memorial Research Institute
- 21st Century Hyogo Human Care Research Institute
- International institutions
- Earthquake rebuilding base facilities

- Hyogo Emergency Medical Center
- Hyogo Branch, Japanese Red Cross
- Hyogo Institute for Traumatic Stress
- Disaster Reduction and Human Renovation Institution
Need for system to coordinate international disaster-preparedness

Needed coordination systems:
- Arrangement and adjustment
- Expert team dispatch
- Research/surveys/information collection/publication
- Human resources development

Past disaster areas
International institutions
Aid

Disaster-stricken country

Hyogo Conference
Thank you.