Kobe's CBDRM efforts after the Great Hanshin -Awaji Earthquake,

"BOKOM" =Kobe City Disaster-Safe Welfare Community

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"BOKOMI"=Kobe City Disaster-Safe Welfare Community

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HFA Priorities for Action 1, 5 -Community Participation

HFA Priority for Action 3 -Training on DRR

HFA 2 Priority 1, 2 and 4 -Governance and Preparedness

HFA₂ International Cooperation

Great Hanshin-Awaji Earthquake, 1995, Kobe, Hyogo What is **BOKOMI**? 2 Sustainable Education on DRR **Community Disaster Management** Plan **BOKOMI** on abroad

Kobe, Hyogo, Japan 5:46 AM 17 Jan 1995



After the EQ only in 14 mins.

6 6 6 V.S.54 fires



38 pumpers



Outline of Great Hanshin-Awaji Earthquake

1 Occurrence

Time & Date	5:46 am, Tuesday, January 17, 1995	
Depth	Approximately 16 km	
Magnitude	7.3 on the Richter scale	
Seismic intensity	7 on the Japanese scale	
Characteristics	cteristics Directly below the metropolitan area	
	Simultaneous occurrence of horizontal and vertical shaking	

2 Damage (including damages in the areas outside the city)

Dead	6,434persons (including 3	missing
	persons)	Sa Com
Injured	43,792persons	
Completely or partially collapsed	249,180buildings	

[Number who needed rescuing after the earthquake]

- Trapped
- Escaped without assistance
- Rescued

164,000 persons 129,000 persons 35,000 persons

Rescued by firefighters or the police

7,900 person (22.5%)

Rescued by citizens 27,100 persons (77.5%)

[Firefighting]

Sirefighting using bucket brigades and offering materials in various parts of the city

The percentage of people rescued by the rescue parties was only 1.7%. Most of the people was rescued by their family members and neighbors.



Figure Who rescued buried or confined persons?

Source: "Survey report on fires in the Hyogo-ken Nanbu Earthquake" by Japan Association for Fire Science and Engineering

Number of firefighters $1,329 \rightarrow 1,486$

Bulk water transportation system

"Super Eagle Kobe" special high-level rescue team

Naturally, even after the disaster, firefighting forces remain strong

Command unit

"BLUE-CAT" rescue team for large-scale disasters 10



Basic principle of voluntary disaster prevention organization "Self-help/Mutual help/Public help"



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Outline of Kobe city



1,5 million population in Kobe City

Kobe City Fire Bureau =full-time 1,400 Volunteer Fire Corps =part-time 4,000

191 BOKOMI

=Citizens

More than 13,000 Citizen leaders. 800 drills/year

more Technical more Territorial



Examples of activities in normal times

Information team Utilization of information on people requiring assistance, implementation of information collection and transmission training, etc.

Fire extinguishing team Implementation of fire extinguishing training, securing of fire extinguishing water, etc.

Rescue team Learning of rescue technique, learning of first aid, etc.

Escape guiding team Inspection of evacuation center/route, creation of safety map, etc.

Life support team Procurement of rice cooking tools/food supply, etc. training of meals preparation/ distribution, etc. 17

Headquarters President/vice president

Development of training plan

Implementation of general training

Preparation of evacuation center support

Information exchange, etc.

Support measures implemented by Kobe City

- (1) Provision of disaster prevention materials and equipment at the time of formation
- (2) Subsidizing of activity expenses
- (3) Support of development of citizen's disaster prevention leader
- (4) Support by the fire-fighting officer service system by district
- (5) Support by volunteer fire corps

(1) Provision of disaster prevention materials and equipment at the time of formation



(1) Provision of disaster prevention materials and equipment at the time of formation



(2) Annual subsidizing activity expenses

Operating activity expenses (training expense, meeting expense, materials and equipment purchase expenses, etc.)

-140,000 yen per BOKOMI

Activity expenses by proposal (For pioneering efforts)

- Up to 200,000 yen per BOKOMI
- •The target of subsidy shall be examined by the examination committee.
- For this fiscal year, 29 projects among 49 applications were subsidized.

(3) Training for "Civil Disaster Reduction Leader" (Training of trainers)



The disaster prevention leader gives guidance to citizens during training and makes training plans in normal times.

Toward development of one citizen's disaster prevention leader every 30 to 50 households in the whole city

(3) Training for "Civil Disaster Reduction Manager" (Training of trainers)



Examples of activities in normal times

"Civil Disaster Reduction Managers"

Headquarters President/vice president

Development of training plan

Implementation of general training

Preparation of evacuation center support

Information exchange, etc.

Information team Utilization of information on people requiring assistance, implementation of information collection and transmission training, etc.

Fire extinguishing team Implementation of fire extinguishing training, securing of fire extinguishing Civil Disaster

Rescue team Learning of rescue technique, eduction Leaders" Learning of first aid, etc. And Participants

Escape guiding team Inspection of evacuation center/route, creation of safety map, etc.

Life support team Procurement of rice cooking tools/food supply, etc. training of meals preparation/ distribution, etc. 18

(4) Support by the fire-fighting officer service system



Two to three fire-fighting officers take charge of one BOKOMI. (Aid in consultation, support of training, attending a meeting, etc.)

(5) Support by volunteer fire corps



Members of volunteer fire corps received training and have specialized disaster prevention knowledge and techniques, and they give disaster prevention guidance to citizens and BOKOMI as the local disaster prevention leader in normal times.

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HFA 2 Priority 1, 2 and 4 -Governance and Preparedness

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Effects of cooperation between "BOKOMI" and "School"

Doft

At schools

- Number of teachers who have experienced earthquake disaster is decreasing.
- Need for handing down earthquake experience and lessons
- Need for information about content of training

Children

Guardians



- Opportunities for conversation are decreasing.
- Understanding of disaster prevention is meager.

BOKOM

(voluntary disaster prevention organization)

- Participants are fixed and decreasing.
- Young people are not interested.

Fire Bureau

- Would like to enhance citizens' disaster-prevention awareness
- Would like to reinforce disasterprevention activities in communities
- Would like to provide support for disaster-prevention training in a systematic manner

Case Example of BOKOMI Activities

Evacuation center accommodation training With the local community as a main body







Accommodating at the elementary school to experience activities and life at evacuation center in the event of disaster.

Case Example of BOKOMI Activities

Junior disaster prevention learning With the local community as a main body



Bucket relay training



Training for calling 119 (emergency call) together with community people



The local community as a main body provides a disaster prevention training for elementary school children throughout the year.
The certificate is issued at the end of the year (by the fire station).

Case Example of BOKOMI Activities

Disaster-prevention athletic meets Local community and elementary school

People in the local community joined the disaster prevention training as an event of the athletic meets of the elementary school to learn about disaster prevention measures with fun.

Relay race to experience evacuation from smoke

Relay race to prepare for possible evacuation from smoke

Relay race to experience rucksack packing

Relay-style competition to pack as many useful goods for evacuation as possible 30

Making tsunami hazard map



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Disaster Management Education for Children: Meishin Area "Susano Junior High School Walking Around the City for Disaster Management"

津波に注

▲ 予想最高潮位

RE CISTERN

Hyogo ward, Kobe city, Hyogo pref., Japan

明親校区

Disaster Management Sports Assembly: Wadamisaki Area "Run It's Tsunami!!"



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Case Example of BOKOMI's Activities

Training for rescue of people requiring assistance in the event of disaster (Support of evacuation)



Evacuation training of local residents for support of elderly people living alone and physically vulnerable persons who require assistance in evacuation and life in the event of disaster

"Community OTASUKE Guide" Community Disaster Management Plan

Where is the storage ? To where Tsunami run up?

Where to have

HQ of Bokomi on

disaster?

0 (本日の) 20/94 本日のゴール: 20月1日の川和社園改革を
"Community OTASUKE Guide" Community Disaster Management Plan



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5 BOKOMI on abroad

Providing of information about Kobe's challenges

Japan

Overseas



Issued by Fire and Disaster Management Agency, Ministry of Internal Affairs and Communications Provision of menus to "Challenge Disaster Prevention 48"



Issued by JICA (Japan International Cooperation Agency) Collection of English menus of "BOKOMI Guidebook"

Projects of Information Providing by BOKOMI

The Disaster-Safe Welfare Community created based on the lessons learned from the Great Hanshin-Awaji Earthquake and its activities and the city's support measures have been getting a lot of attentions from other cities outside Kobe city and overseas.

Kobe city which was helped by all over the world at the time of the earthquake have the responsibility to transmit the lessons obtained from the earthquake in Japan and overseas to contribute to improvement of the global disaster prevention power.



BOKOMI in Badran, Indonesia

COKPLAY BADRAN



Mis

BOKOMI Completion Ceremony and first large-scale drill (IKC)











BOKOMI Completion Ceremony and first large-scale drill (IKC)











BOKOMI Completion Ceremony and first large-scale drill (IKC)





After BADRAN BOKOMI (June 2011)





Next BOKOMI may be in your country...



At the end of my presentation...

"BOKOMI" =Kobe City Disaster-Safe Welfare Community

Thank you very much!

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