Asian Conference on Disaster Reduction
12TH – 14TH Nov 2008, Bali, Republic of Indonesia

Strategies in Support of Hyogo Framework for Action

THE LIFE SAVING FORCE...

SINGAPORE ...

- Total Land Area: 707 sq km
- Population: 4.6 million
- Second most densely populated nation
Located out of Pacific Rim of Fire thus spared from Natural Disasters such as earthquakes and volcanic eruptions...

Disaster Risk Reduction (DRR) as a National Priority
Civil Emergencies (CE)

- SCDF as the **Incident Manager for CE** and overall in-charge of the multi-agency response under the Ops CE Plan

- Ops CE Plan was promulgated
  - **National** contingency plan
  - Integrated **multi-agency** incident management and response

OPS CE Plan - Key Scenarios

- Major fires
- Collapsed buildings and structures
- Major transport incidents
- Major industrial accidents
- Toxic industrial chemical release
- Chemical, Biological, Radiological, Explosives (CBRE) incidents
Disaster Monitoring and Effective Response

Comprehensive Risk Assessment Approach
- Address worst plausible scenario
- Key Installations and High-Risk industries

PREVENTION THROUGH RISK MONITORING FRAMEWORK
Quantitative Risk Analysis (QRA)
- Comprehensive Risk Assessment Approach
- Address worst plausible scenario
- Key Installations and High-Risk industries
**Operations Terrain Mapping (OTM) System**

- Identify operational vulnerabilities and interests at the ground
- Geographical, terrain-related, infrastructural and social-demographical information
- Essential planning and conduct of civil defence operations
- Develop expert local knowledge

**Security Sensitive Material (SSM) Data Centre**

- Provides comprehensive overview of all sensitive HazMat in Singapore
- Operates on 24/7 basis to track movement of SSM
- Important tool in preventing diversion of SSM for illegal or unauthorised use
**Company Emergency Response Team (CERT)**

- Mandate to having in-house Company Emergency Response Team (CERTs)
- Companies storing more than 5000 lit or 5000 kg petroleum or flammable materials
- Periodic assessments of CERTs by SCDF to ensure competency

**HazMat Incident Management System (HIMS)**

- Overall situational picture through wireless real-time transmission of detector positions and readings
- Predictive simulation models help in decision making
- Future Responders Module in progress
Knowledge, Innovation and Education
to Build a Culture of Safety and Resilience

Our Visions ...
Building human capacity through investments in training facilities and programmes ...
Our Innovations …

Singapore Civil Defence Force

- Water Mist Technology
- All-Terrain Fire Fighting Vehicle

Population Preparedness

- Effective Homeland Recovery by minimising impacts and losses
- Involves community self-help through “Public Education”
Strategic Partners in Community Engagement

- People’s Association and Grassroots Organizations
  - Civil Defence Executive Committee (CDEC)
  - Resident Committee (RC) to reach out to the residential community

- National Fire and Civil Emergency Preparedness Council (NFEC) with closer ties in industries and commercial groups

- The Ministry of Education in preparing the school population for emergencies.

Community Emergency Preparedness Programme (CEPP) - Training for the Individual

- One of the key programs in our community engagement strategy
- Modular-based face to face instructional approach
- Both theory and practical aspects of emergency-related skills.
Civil Defence Emergency Handbook

- Distributed to every household
- Provides comprehensive information on emergency and counter-terrorism preparedness
- Advisories downloaded from the internet and cellphone service providers

Targeting the Individuals

Harnessing on Technology

Ready Mobile

- Download emergency advisories
- Animation clips/ text information
- Access them via mobile phones anytime.

Online Readiness Self-Assessment Tool

- Hosted on SCDF’s webpage
- Awareness, Preparedness and Confidence
- Self-assessment on individual’s state of readiness
Emergency Exercises

- Exercises at residential heartlands, extending to commercial and industrial niche groups
- To enhance community participation and arm them with skills and knowledge
- To cope with both conventional and unconventional threats

Emergency Planning Roadmap

- **Structured roadmap** guides the grassroots organisations in developing a constituency contingency plan
- **To prepare and plan** for major civil emergency situations, such as a major fire, bomb explosion, building collapse and chemical incident.
Reducing Underlying Risk Factors

Code of Practice for Fire Precautions in Buildings

- 8 volumes catering to fire safety needs of specific groups
- Regular reviews and updates to ensure it remains current and relevant
Public Warning System (PWS)

- Strategic outdoor locations
- Comprehensive island-wide acoustical coverage.
- Provide early warning to the general population of any imminent threats

Strengthening Disaster Preparedness at All Levels
Exercise Northstar VI

- Largest maritime emergency drill
- Reality and overcoming challenges in a concerted response from various agencies
- A more prepared Singapore

ASEAN Regional Disaster Emergency Exercise

- Third ASEAN Regional Disaster Emergency Response Simulation Exercise (code-named ARDEX-07) hosted by SCDF on Oct 07
- To facilitate a close and effective collaboration amongst member countries in tackling national disasters in these countries.
Heavy Urban Search and Rescue (USAR) Certification

- SCDF’s Operation Lionheart Contingent
- First Team in Asia to earn Heavy USAR Certification, Jan 2008
- Certification by International Search and Rescue Advisory Group (INSARAG)

OVERSEAS MISSIONS ...

- 10 overseas missions since 1990.

- 8 Oct 2005 – Earthquake Muzaffarabad, Pakistan
- 26 Dec 2004 – Tsunami Phuket, Thailand
- 16 May 2008 – Earthquake Sichuan, China
- 21 Sep 1999 - Earthquake Tai Chung County, Taiwan
- 26 Dec 2004 – Tsunami Aceh, Indonesia
- 16 Jul 1990 – Baguio City Earthquake Philippines
- 11 Dec 1993 - Bldg Collapse KL, Malaysia
- 18 Aug 2005 - Vegetation Fires Sumatra, Indonesia
- 27 May 2006 – Earthquake Central Java, Indonesia
Collaboration at Regional & International Level

- Continuous efforts through the provision of humanitarian assistance for major overseas disasters
- Active participation in forum
- Conduct of international courses for our overseas counterparts.

Hyogo Framework for Action

Unity as our Strongest Foundation …