



**Asia-Pacific
Economic Cooperation**

2019/EPWG/DIA/017

Agenda Item: 10A.3

**Emergency Preparedness Activities in National Civil
Defense and Disaster Management Training Institute
– Educating the Public and Training Emergency
Personnel**

Submitted by: Korea



**APEC Resilience Week
Taipei, Chinese Taipei
30 September - 2 October 2019**

Emergency Preparedness Activities in NDTI

*Educating the public and training
emergency personnel*

Oct. 2019

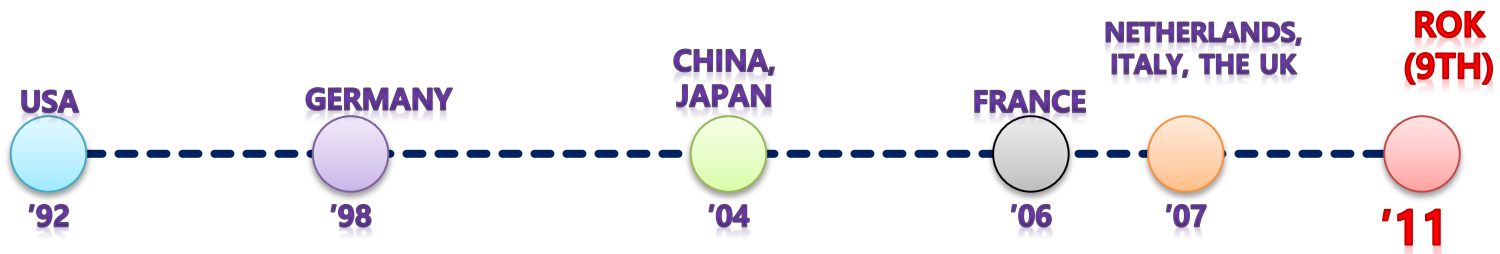
Team Director, NDTI, ROK
KIM Misook

Republic of Korea

■ The most successful country after the World War II (among 80 c.)

- ! GNI per capita of \$30,600 (as of 2018)
- ! In 1964 (ROK : \$77, Argentina: \$400, Congo: \$88, Ethiopia: \$46)

■ The 9th country to achieve US\$1 trillion in trade



■ The 7th country in the world to reach the "20-50 club"

(\$20,000 in per-capita income, 50 million in population)

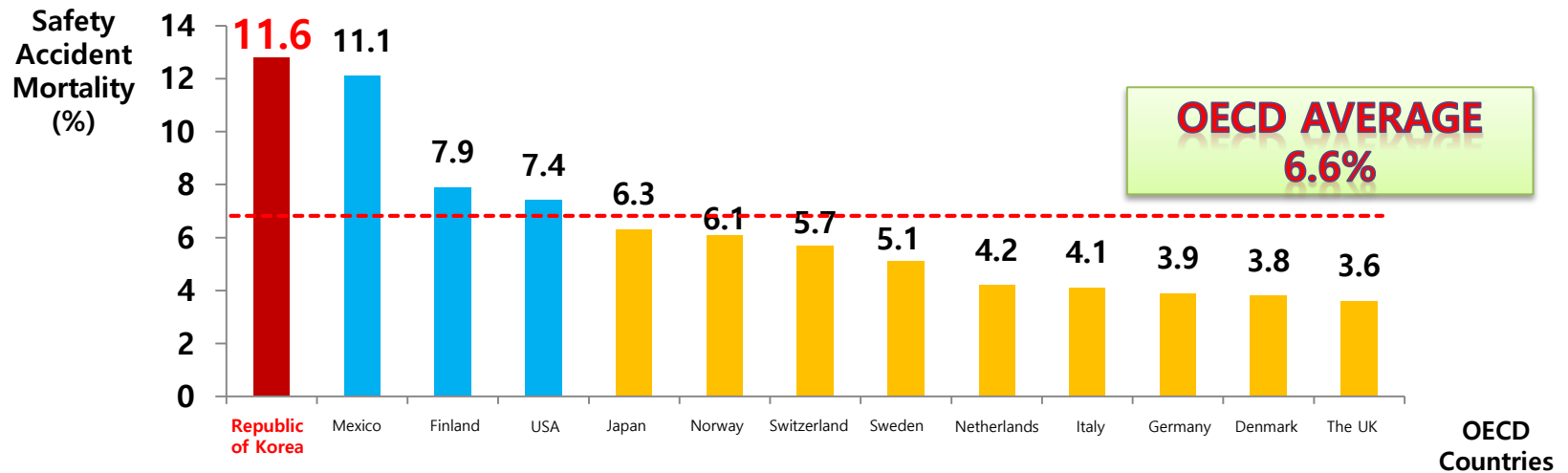


Social Safety Accidents?

■ 31,015 deaths from safety accidents
(as of 2013)

85 DEATHS
PER DAY

■ No.1 in accident mortality rates among 19 OECD countries(2013)



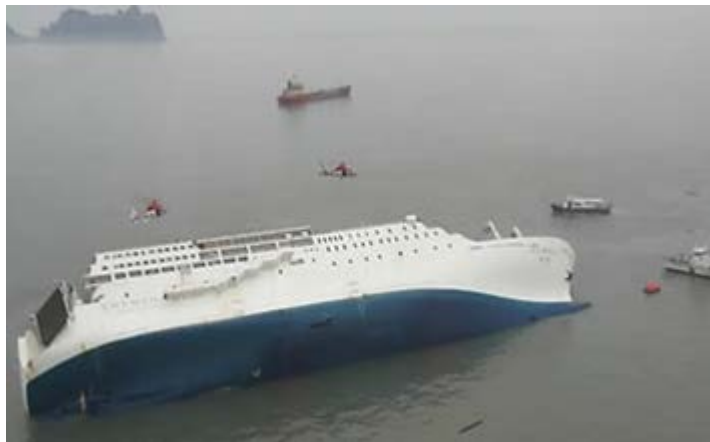
Lessons learned from Sewol Ferry Tragedy

■ KOREA, Advanced IT-based Disaster Management

- Early warning system, 365 day-per-year emergency control center
- 119 system, well-trained Search & Rescue Team

■ Sewol Ferry Tragedy (Apr. 2014)

- 324 (250-s) out of 476 passengers died [VOD 1](#) [VOD 2](#)

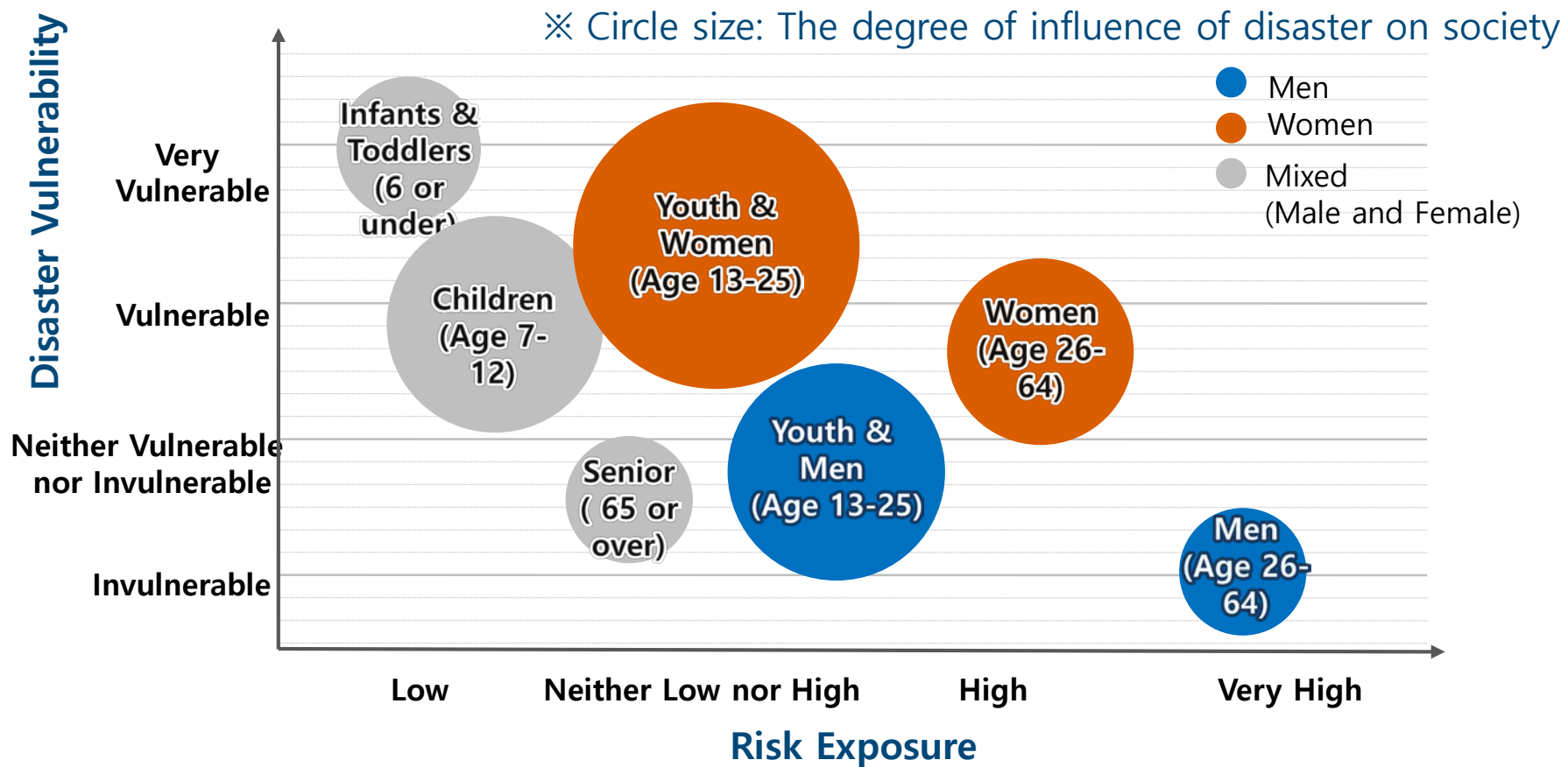


Lessons learned from Sewol Ferry Tragedy





- Establishment of specific **requirements for training and exercise** linked through a comprehensive system through the central and local gov.
- **Training & inter-ministerial collaboration**

Customized Programs by Age

■ Risk Exposure and Disaster Vulnerability by Age



Safety Education according to Life-cycle

Early Childhood	Adolescence	Youth & Middle Age	Old Age
<ul style="list-style-type: none">▪ Missing and kidnapping prevention▪ Traffic safety (how to cross at a crosswalk)▪ Safety tips in play facilities 	<ul style="list-style-type: none">▪ Prevention of school accidents▪ Hands-on activities (field training, etc.)▪ Water safety (e.g., playing in water, etc.) 	<ul style="list-style-type: none">▪ Safety at work (by job type)▪ Industrial/construction safety (putting on safety gear)▪ Fire evacuation procedures 	<ul style="list-style-type: none">▪ Safety at home (e.g., wet floor, etc.)▪ Outdoor activity (e.g., mountain hiking, exercise, etc.)▪ Health care (various diseases) 

■ Strengthened safety education in elementary, junior high and high school curriculums

- Part of regular curriculum, safety education in the free-semester system

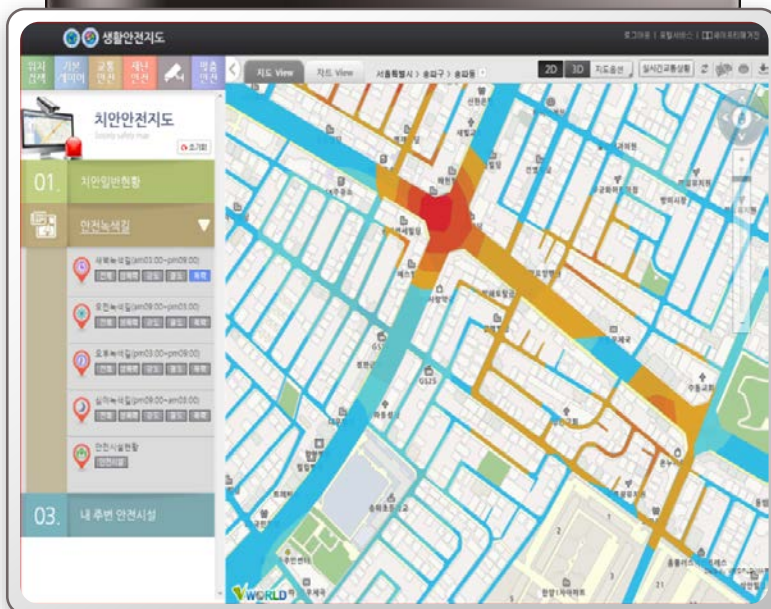
■ Expansion of safety experience facilities by zone & experience-oriented educational programs

- Small experience facilities distributed across the country (169 sites)

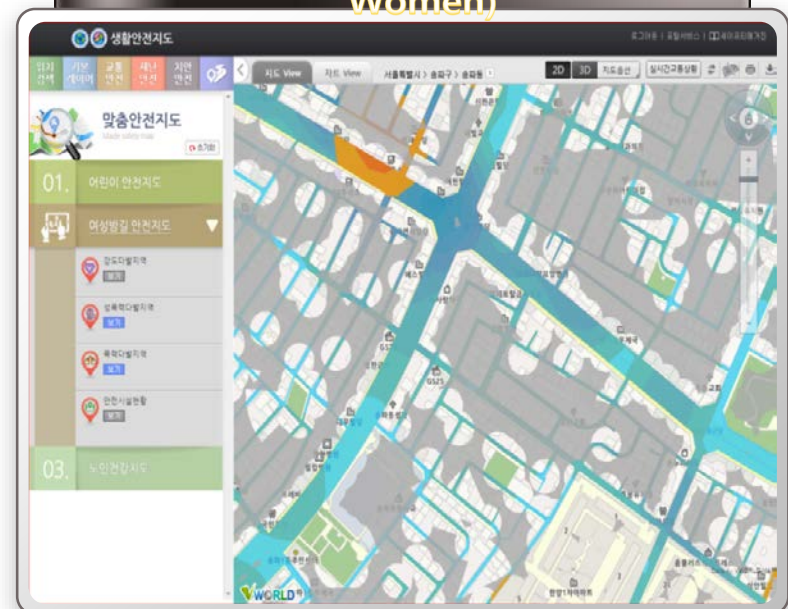
Distribution of Daily Safety Map

- Analysis and provision of risk factors in daily life including crime-ridden districts and disaster/traffic accident-prone areas

Security Info. Map

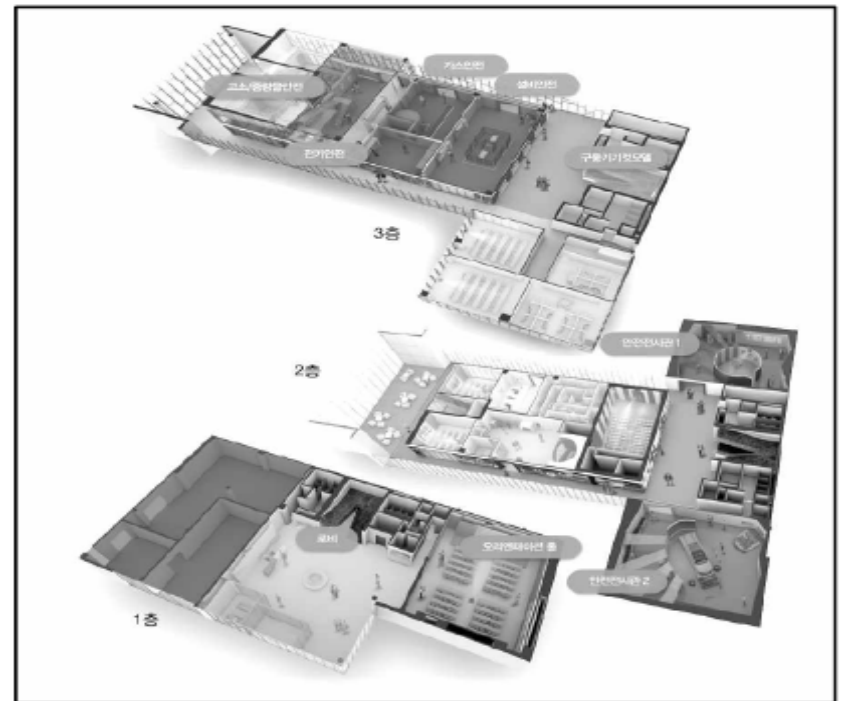


Customized Safety Map (Kids, Women)



Safety Experience Center

- **A total of 169 safety experience centers across the country**
- **A standard model:** <http://kasem.safekorea.go.kr>



Safety Experience Center in NDTI

- A 2-story building with basement: 3,541.39m² (1,073 pyeong), with 15 themed experience halls



4D Simulation Hall



Earthquake Hall



Wind Tunnel Hall



Water Pressure Hall, etc

Training for Disaster Management Personnel

■ Training types and targets

- Managerial level: Head of the dep. responsible for D.M.A
- Working level: Government employee or employee from D.M.A

■ Duration and interval: Within 3 days for professional training, every 2 years since the training for the newcomers

*Newcomers: Required to complete a new training program within 1 year after taking the job

■ Conducted by: Central administrative agencies, municipal and provincial training institutes, etc. a total of 54 agencies

Training by Disaster Type

- ▶ **Disaster Types** : 33 types based on the R.M manual*

* Toxic chemicals spill, dam failures, storm & flood, earthquake, etc.

- ▶ **Main activities**

- Practical training to be prepared against diverse & complicated disasters for the capacity developing of disaster response
- Development of scenarios, message, storyboard, etc.
- Development of simulator based on Mixed reality (virtual reality + augmented reality for the local and central gov.

NDTI (Gross area: 420,000m², building area: 68,000m², 39 buildings)



TYPE	QUANTITY	CAPACITY
Lecture Room	100	604
IT Training Center	2	80
Discussion Room	8	128
Safety Experience Center	15	900
Dormitory	89	148 /1 day

Future Plan

■ Participatory Hands-on Experience Facilities

- **Simulation training** (situational judgement and command & control of situation etc. with the disaster scenario)
- **Safety check training of multi-use facility** (hospital, shopping mall, etc)
- **Facility safety inspection training** (river, steep slope, bridge, tunnel and construction site)



Thank You!

