

Disaster Risk Management System in the Republic of Korea

**Yongkyun Kim
Fifth Meeting of High-level Experts and
Leaders Panel on Water and Disasters
2015. 04. 10**


Contents

"Safe Korea, Happy People" |

- **The Establishment of MPSS**
- **Policy Directions and Key Priorities**

—— Establishment of MPSS ——

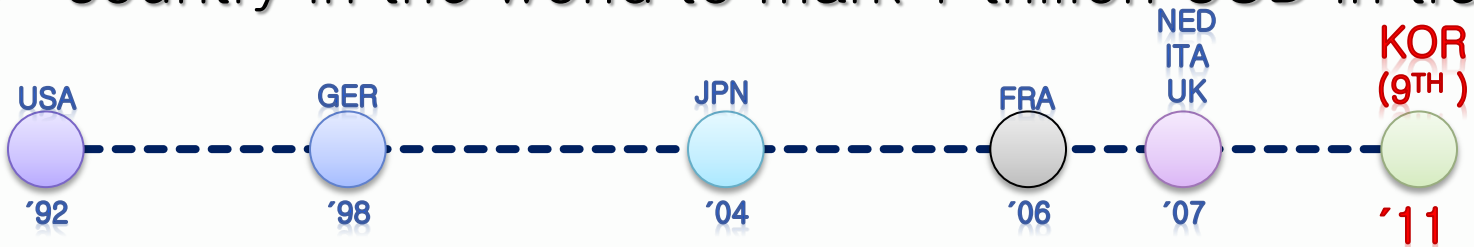
1 The Miracle on the Han River, Great Korea

 One of the most successful countries in economic growth after World War II

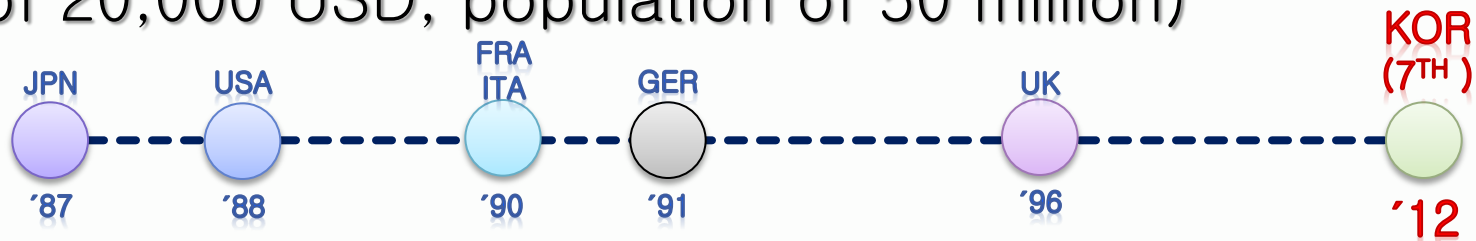
 GNI in 2013 : 26,205 USD

 GNI in 1964 : KOR(77 USD), ARG(400 USD), CGO(88 USD), ETH(24 USD)

 9th country in the world to mark 1 trillion USD in trade



 7th member to join the '20-50 club' (per capita income of 20,000 USD, population of 50 million)



2 Safety in S. Korea

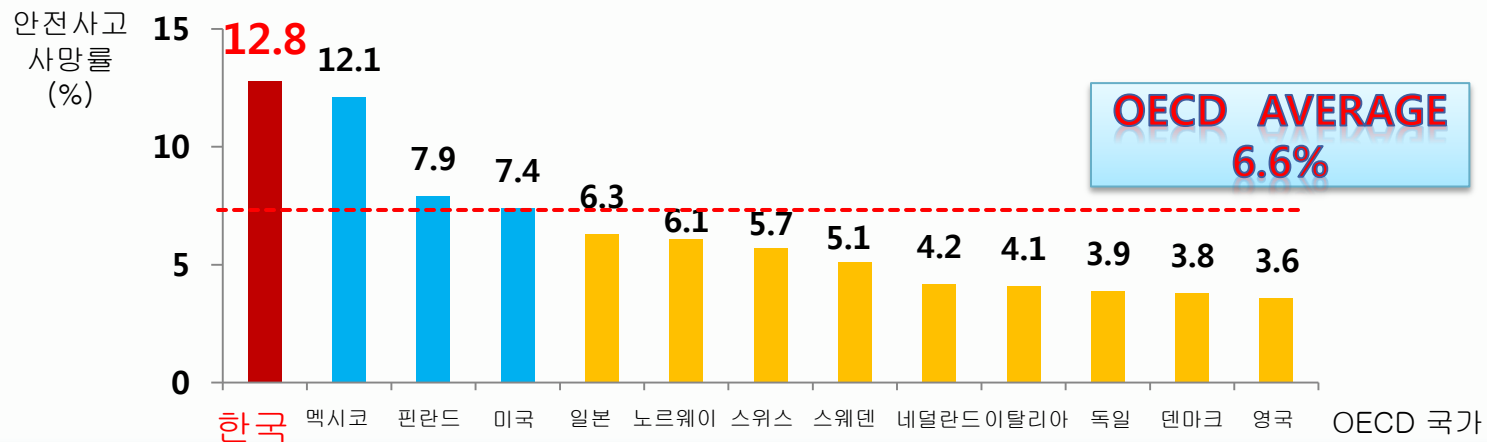


31,015 lives lost in 2013 due to accidents

85 DEATHS
A DAY



Highest fatality rate by accidents among 19 OECD member countries



Lessons learned from major disasters

“ Analysis of major disasters over the past 20 years
- Repeated similar problems - ”

**Sampoong Dept. Store
Collapse('95)**

•
Daegu Subway Fire('03)

•
**Gumi Fluoride
Acid Leak('12)**

•
**Sinking of
MV Sewol('14)**

- Haphazard change of use in buildings
- Lack of responsibility among professionals
- Unfamiliar with how to operate
- Poor chemical control system
- Lowering the limit of vessel lifespan
- Perfunctory inspections

**Institutional
loopholes**



+

**Lenient safety
inspections**



+

**Inadequate
education, immature
culture**



+

**Lack of
infrastructure**



3 Progress in the DRM System

Introducing institutions and restructuring organizations in the wake of major disasters



Legislation of '**Special Act on the Safety Control of Public Structures**' after Sampoong Dept. Store collapsed



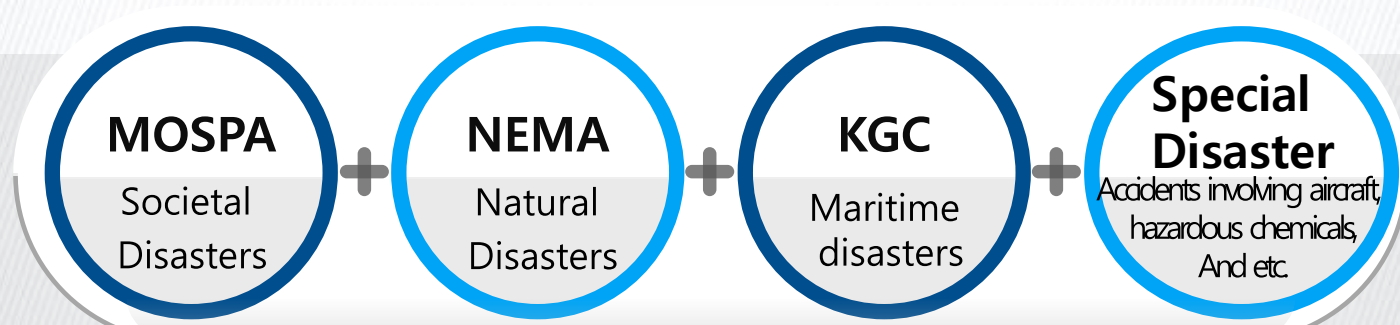
Legislation of '**Disaster and Safety Management Basic Act**' and the establishment of the **National Emergency Management Agency**



Reorganization of the Ministry of Public Administration and Security (MOPAS) into the Ministry of Safety and Public Administration(MOSPA)

4 Recent Institutional Reforms of DRR system

- Establishment of the Ministry of Public Safety and Security(14.11.19) through national consensus formed after a public statement made by the president(14.5.19)



Ministry of Public Safety and Security

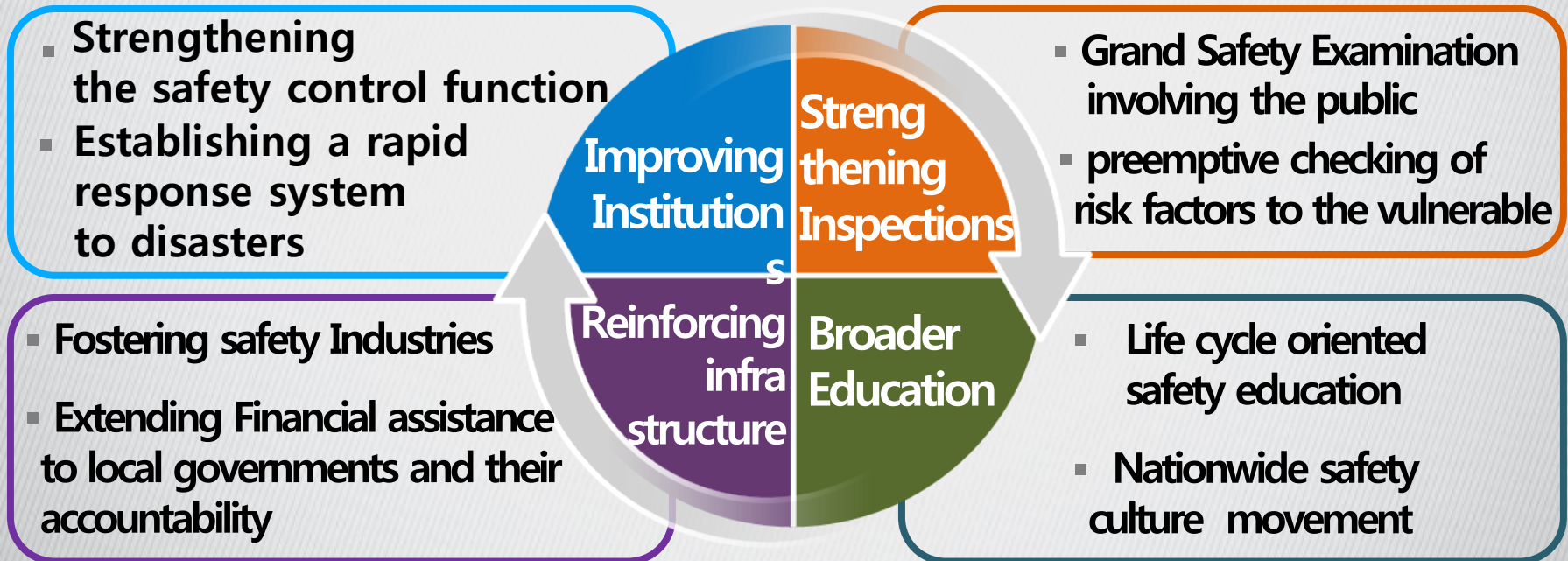
A community safe from disasters regardless of where one resides

—— Policy Directions and —— Key priorities

Policy Direction in Safety Innovation

- Examining and analyzing the validity of institutions and status
 - Reflecting the results in institutional improvements, safety education and culture promotion, infrastructure enhancement

8 priorities in 4 categories



1 Make dramatic improvements in disaster management and safety institutions

Enhanced coordinating role for safety management

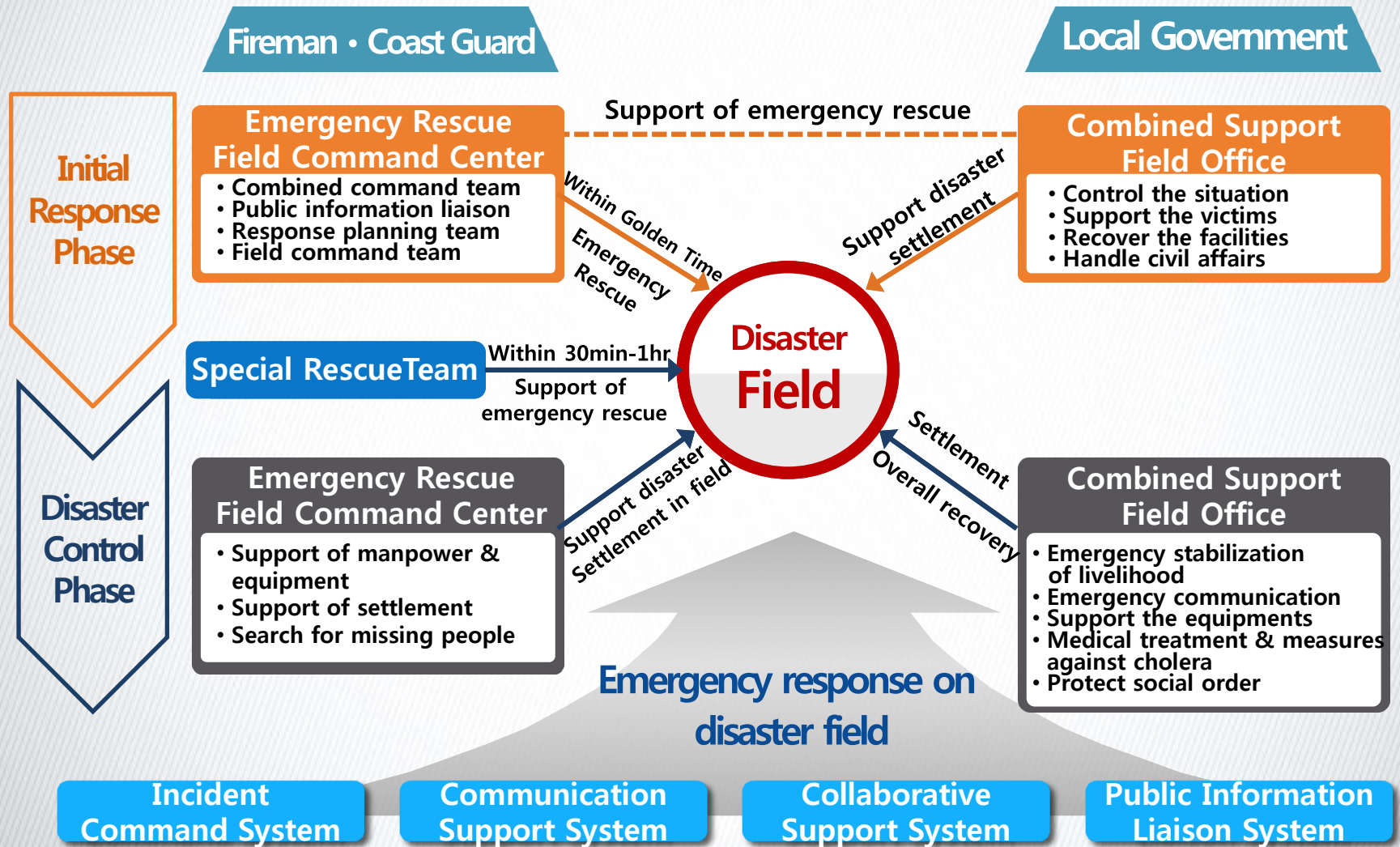
■ Master Plan of Safety Innovation

- 100 programs under 5 strategies**

■ Enhanced Coordination Role

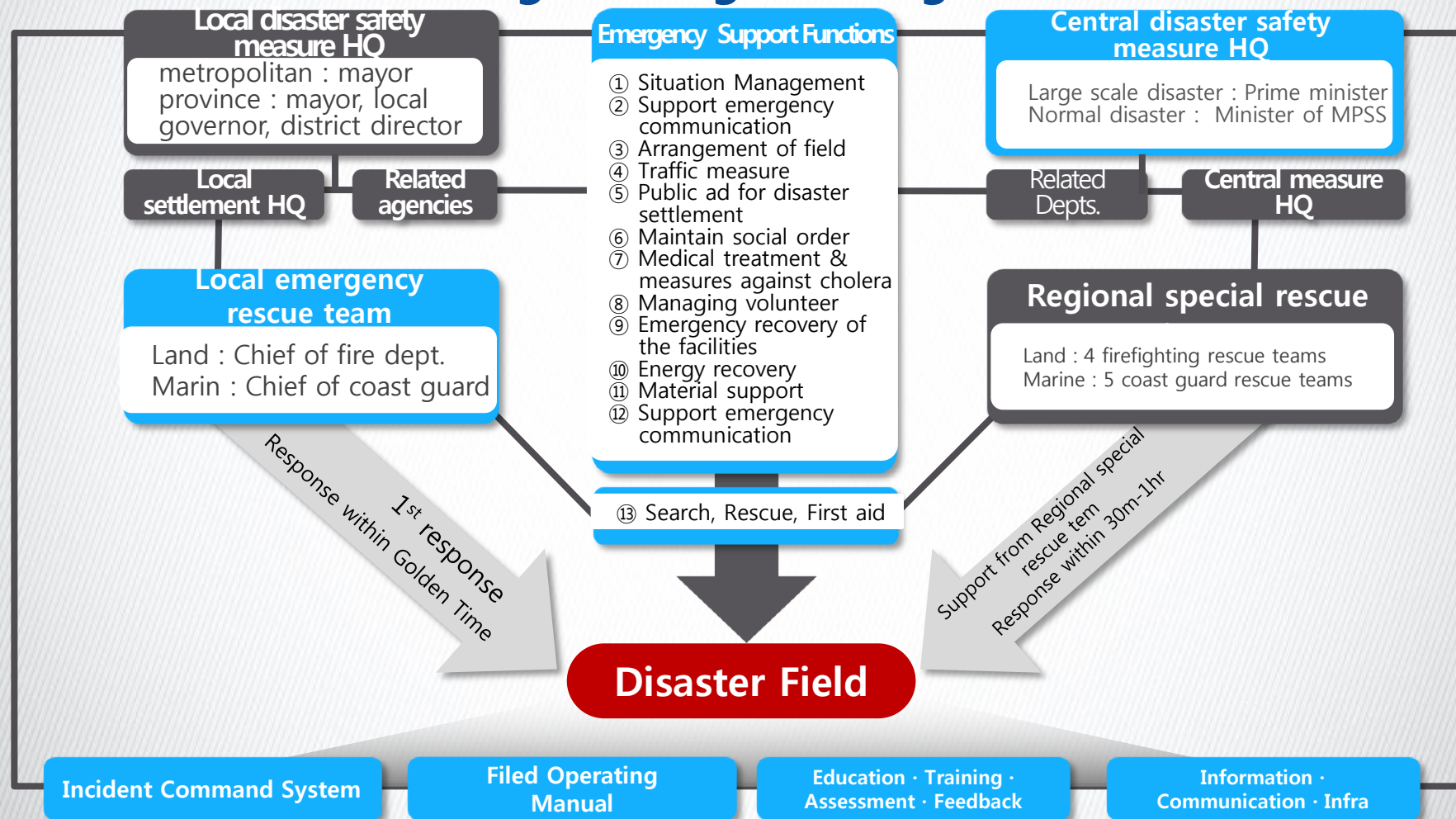
- National Governments' Budget for safety management**
- Review of inspection criteria on facilities and infrastructure**
- Review of legislation on safety and disaster management**

Standard Model for Disaster Response



Strengthening the function of disaster management control

“ Strengthening command-collaboration system ” among Central gov-Local gov-Field



Expansion of support function for field response

■ Establishment of National Disaster Safety Communication Network(~'17)

- ▶ Pilot project('15) ➡ 9 cities • provinces('16) ➡ Seoul • Gyeonggi & 6 metropolitans('17)

■ Establishment of resource management system for disaster risk reduction

- ▶ Disaster response resources(126), Equipments(124), man power(26)
- ▶ All central government bodies and local governments
 - ➡ Related agencies & private organizations(Mid-Long term)

■ Enhancement of integrated disaster safety information system('15)

- ▶ Establishing a GIS-based-realtime-incident management system
- ▶ Spread the sharing information system to related dept. & local government
- ▶ Support such as disaster situation report, inquiry of materials based on mobile system

2 Participatory Process toward Safety Improvement

“Comprehensive National Safety examinations”

Safety examinations
(With the people)

Top
DOWN

- › 3-step safety assessment(all year round)

Self Check



Joint Inspection



Detailed
Inspection

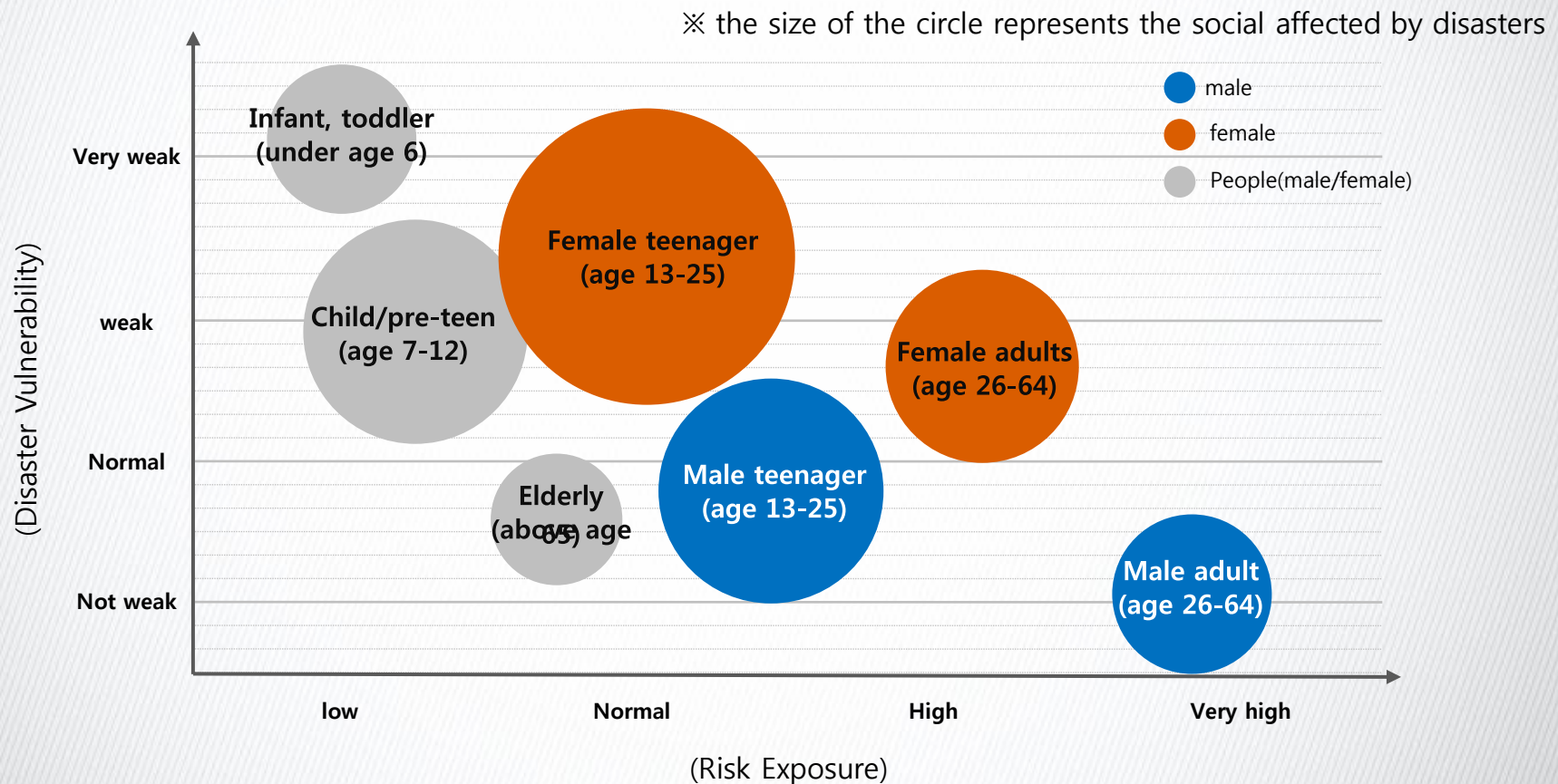
Safety vulnerability report
(people first)

Bottom
UP

- › Mobile Application for Safety Inspection ('14.9~)
- › Reports using big data analytics, strategic investments of safety funds

3 Improved Safety Culture through Education

Analysis of risk exposure and disaster vulnerability by age



4 Promotion of Safety Industries

“
ICT Convergence
”

“
Fully utilizing the private
sector capabilities
”

“
Create new
products and Jobs
”

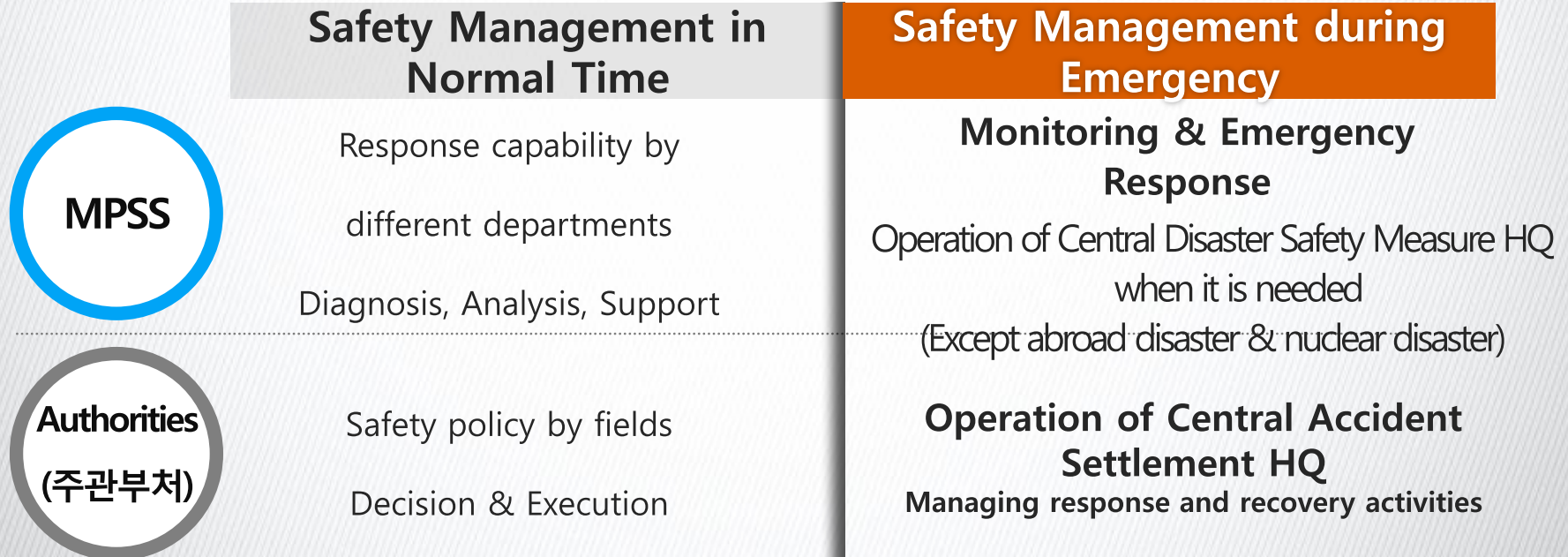
“
Creating demands for
safety industries
”

5 Reinforcing safety management in specific fields

Establishment of collaboration system
between MPSS and managing department

■ Subjects

- ▶ Nuclear, Food, Train · Aircraft · vessels, toxic chemical,
Infectious disease · livestock diseases, IT infra safety



Thank You