

Translating Locally-led Resilience into Action
in the Age of Complex Risk and Digital Transformation
복합위험과 디지털 전환시대, 지역주도 복원력의 실행

The 5th



International Disaster Resilience
Leaders Forum **Incheon 2026**

인천 국제재난복원력 지도자 포럼



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September 7-8, 2026



송도컨벤시아 그랜드볼룸 A
Songdo Covensia, Grand Ballroom A

Boryeong City's Efforts for Disaster Risk Reduction

Song, Jeong-Hui

Boryeong City, Chungcheongmamdo, Korea

Introduction to Boryeong City

Population

91,114

Living Population

5,276,751

Area

3,106 km² (586 km²)

Budget size

KRW 992.5 billion

Tourism resources

Daecheon Beach, Muchangpo Beach, Wonsan Island,
Oeyeon Mountain, Oseosan Mountain, Seongju Mountain, etc.



The West Coast's Largest Marine
Tourism City With
82.1 Million Visitors
In 2025

Smart Technology for Water Leisure Safety

Rip Current Detection System



- ✓ Live video feed identifies developing rip currents and swimmers in distress in real time
- ✓ 24/7 operation linked to the CCTV Integrated Control Center

Infrared Thermal Cameras



- ✓ 2 units covering a 1 km radius of the beachfront
- ✓ Prevention of crowd crush accidents through crowd density monitoring
- ✓ Night-time surveillance of blind spots such as clam-digging areas

Thermal Imaging Drones



- ✓ 20x zoom, auto-tracking, waterproof - deployed for search and rescue
- ✓ Complements jet skis, ATVs and rescue boats on patrol

AI-Powered Crowd Safety Management

A marine tourism city hosting 82.1 million visitors a year - crowd safety is a core urban risk

Drone Station · Automated Flight System

- Unmanned auto take-off and landing - regular patrols on routes set to tidal changes
- AI video analysis proactively detects risk factors for rapid multi-agency response

16 km of Coastline Monitored in Real Time

- From Daecheon Beach to Daecheon Police Substation and Songhak Port
- Crowd density, swimmers leaving safe zones and stranded night clam-diggers

Real-Time Video Sharing & Immediate Rescue

- Drone feeds relayed via the provincial integrated control system to the Coast Guard situation room and police
- Rescue operations launched the moment danger is detected

Mass-Gathering Governance (Mud Festival)

- Mayor-led Safety Management Committee - 22 officials, 8 institutions
- Joint police-fire crowd preparedness and inspection of 93 festival facilities



Tech-Enabled Heatwave Response & Community Care

Early Warning & Targeted Alerts

- 17,000 heatwave alert texts sent to farms, livestock pens and fish farms
- Staged emergency response from advisory to warning level (up to 25 staff/day)

Care Network for Vulnerable Groups

- Well-being calls, home visits, home health care, and close monitoring of seniors living alone through care institutions
- AI care dolls providing meal and medication reminders, cognitive stimulation, and safety monitoring

Cooling Infrastructure

- 39 smart shade canopies and 17 free parasol rental stations (600 parasols) installed and operated
- Cooling subsidies and bottled water for 430 cooling centers, cooling supplies for outdoor workers, and water spray trucks in urban areas



출처 : <http://www.brcity.kr/news/articleView.html?idxno=327222>



Living Blue Boryeong

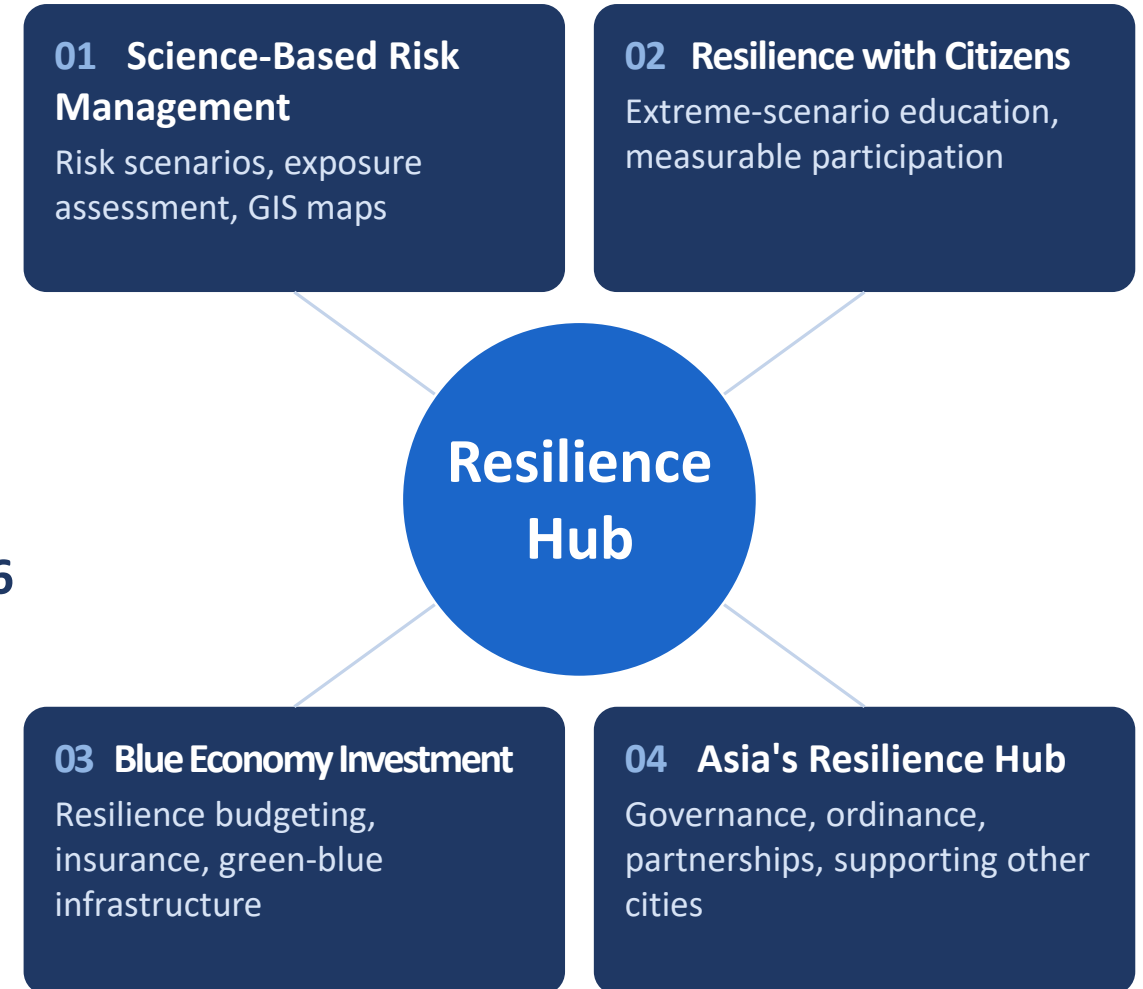
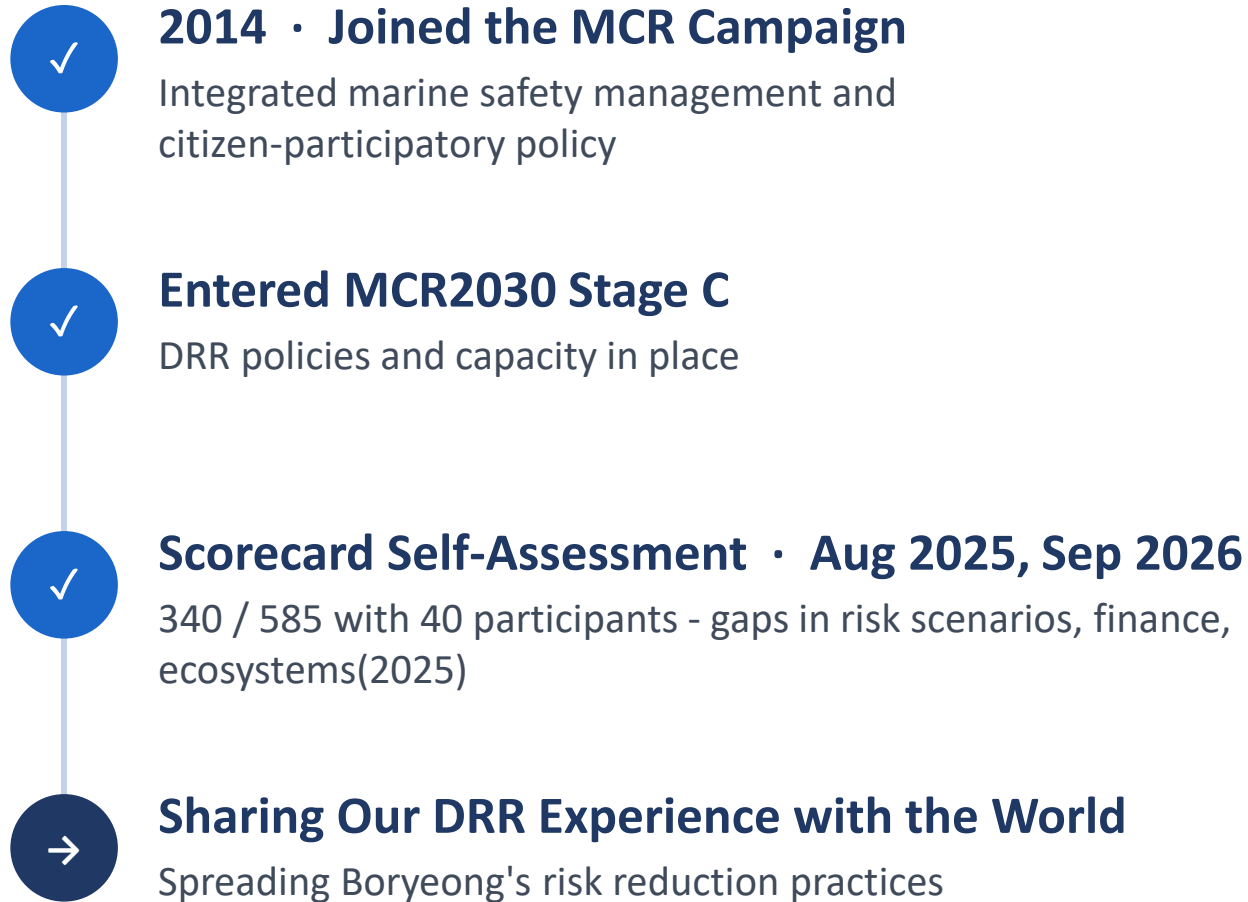
A vision rooted in our identity - the blue sea is both our greatest asset and our greatest risk



Our Story



Our Path to Resilience Hub



Thank you

Song, Jeong-Hui, Boryeong City,
Chungcheongmamdo, Korea

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