



23RD INAP CONFERENCE

OCTOBER 16-17, 2024

RESILIENT PORTS:
INNOVATING BEST PRACTICES FOR ENVIRONMENTAL
PROTECTION AND DISASTER MANAGEMENT

Port of Mokpo

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HL MNPT



Mokpo Newport Terminal

**The hub for Logistics
in the Southwest area of Korea**


```

Initialization:
int x1 456154
int C1 hidden var

```

assert-CCUS : "Nothing
burns like the cold."
assert-RCWS : "Nothing
burns like th

```
var Yprints = ROWS
assert(destory/Aray < <COLS/dog) "Fear cuts deeper than swords."
assert(!protected==36 || 34832-23 || COLS * 11 || 0.18) : "Winter is coming"
assert(34832364 || protected || 1) "Nothing burns like the cold."
assert -destory/male == 590 507 7466 || ROWS = Aray == Yprints == <dog == <ROWS : "Winter is coming"
```

Best Geographical Conditions

Perfect Land and Sea Transportation Infrastructure

Total cargo volume (as of 2023)

25,733,000ton

Cargo volume by key item

(unit : 1,000ton)



Export Car

5,999



Steel and iron

5,012



Coastwise
Cargo etc.

14,722



Offshore
Wind Power
(Y24 ~)

Daebul Wharf

Daebul National
Industrial Zone

Yongdang Wharf

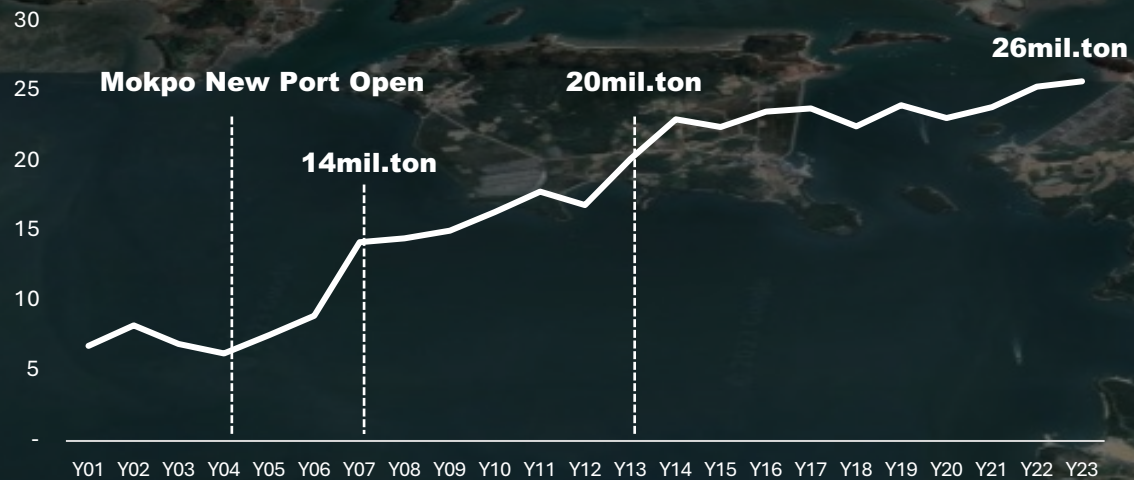
Passenger Wharf

Hyundai
Samho

HL MNPT
Mokpo New Port

Daehan
Shipbuilding

(mil.ton)





Classification	①Multi-purpose harbor	②Car harbor	③Car harbor	④General harbor
Company	Mokpo Newport Terminal	Mokpo Newport Terminal	Mokpo International RoRo Terminal	Government
Handled cargo	Iron, Car, Offshore Wind Power etc.	Car	Car	General merchandise
Length of inner wall (m)	750m	240m	300m	240m
Water depth (m)	15m	15m	15m	15m
Berthing capacity (DWT)	30,000DWT × 3	30,000DWT × 1	30,000DWT × 1	30,000DWT × 1
Yard area (m ²)	300,000m ²	100,000m ²	100,000m ²	70,000m ²
Unloading capacity (yarrly)	5mil.ton	2.7mil.ton	2.7mil.ton	0.75mil.ton

Resilient Ports : Innovating Best Practices for Environmental Protection and Disaster Management



Resilient Ports : Environmental Protection and Disaster Management

Status of Building a Port Resilience Enhancement System: Disaster Management System

Implementation of Practical Disaster Prevention Activities

- Effective Pre-inspection of Disaster Risk Facilities
- Conducting Training for Workers on Disaster Prevention
- Registration and Management of Vulnerable Facilities
- Enhancement and Maintenance of Vulnerable Facilities
- Registration and Management of Risk Indicators

Strengthening On-Site Response Capabilities for Swift Incident Management

- Enhancing Initial Response Capabilities and Establishing a Rapid Information Dissemination System
- Building a Foundation for Quick On-Site Response and Strengthening Cooperation with Relevant Agencies
- Establishing a Comprehensive Response System Through the Rapid Activation of the Emergency Response Team in Case of Disaster



Field-Oriented Training and Development/Improvement of Manuals

- Enhancing and Improving Response Capabilities Through Regular Simulation Drills
- Establishing and Reviewing/Improving Crisis Management Manuals to Ensure Functionality During Actual Disasters
- Establishing an Automatic Emergency Response Team Formation System in Case of Disaster

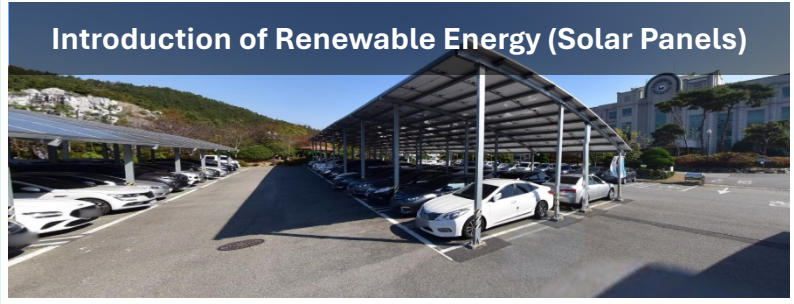
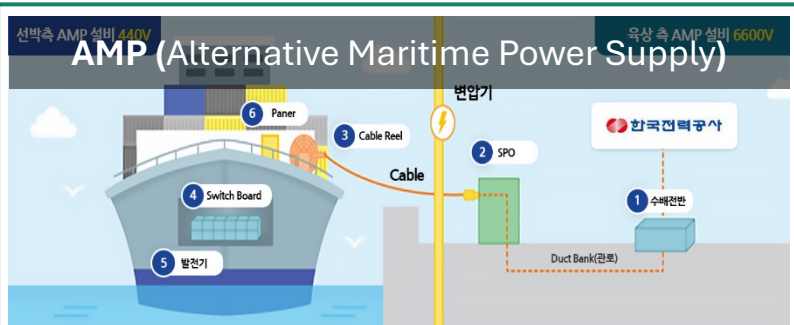
Stable Port Operations through Systematic Recovery Plan

- Registration of Disaster Management Resources and Sharing with Relevant Agencies
- Prompt and Accurate Damage Assessment and Recovery Planning
- Incident Response Monitoring for Similar Accidents
- ICT-Based Disaster Management System Operation

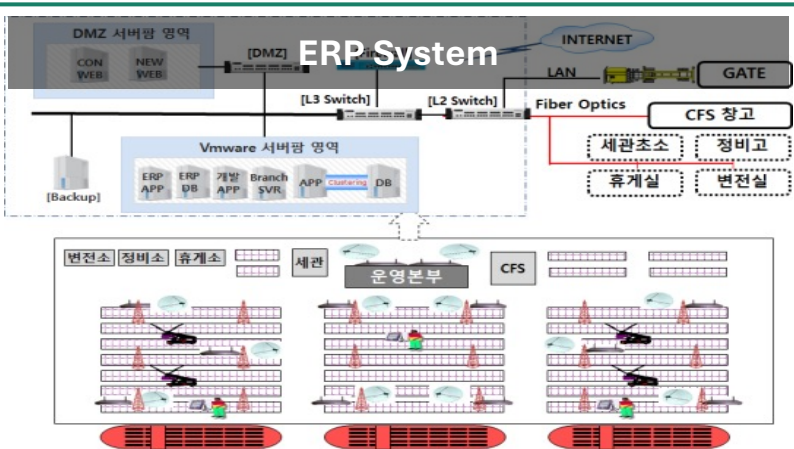
Resilient Ports : Environmental Protection and Disaster Management

Status of Strengthening Port Resilience System: Innovating Best Practices

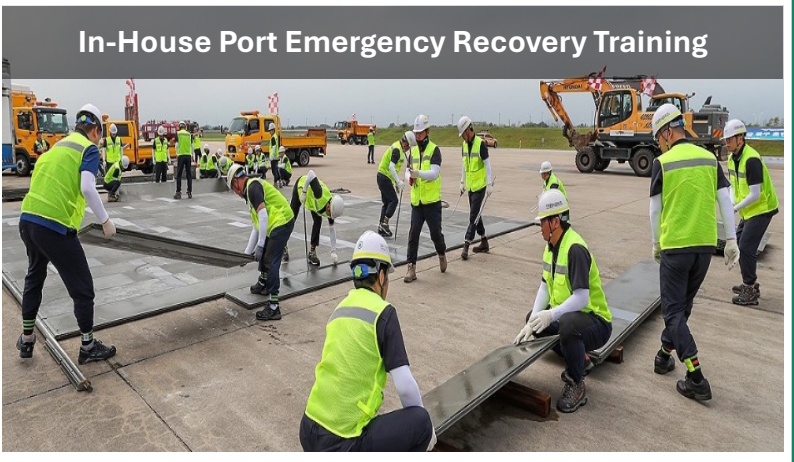
Introduction of Eco-friendly Technology



Integrated Management System






Emergency Response Training





Resilient Ports : Environmental Protection and Disaster Management

Status of Port Resilience Strengthening System: Rebuild by Design

Moving from a Traditional Focus on 'Natural Disasters' to a Resilience-Based Disaster Response System

Port Risk Factors	
Nature	<ul style="list-style-type: none">•Typhoons•Earthquakes (Including Tsunamis)•Other Natural Disasters 
Social (Human)	<ul style="list-style-type: none">•Global Supply Chain Disruptions•Disease Outbreaks (e.g., COVID-19)•Port Workers' Strikes 
Security	<ul style="list-style-type: none">•Terrorism (Property Destruction)•Cyberterrorism•Smuggling and Illegal Immigration 

Risk Management Matrix

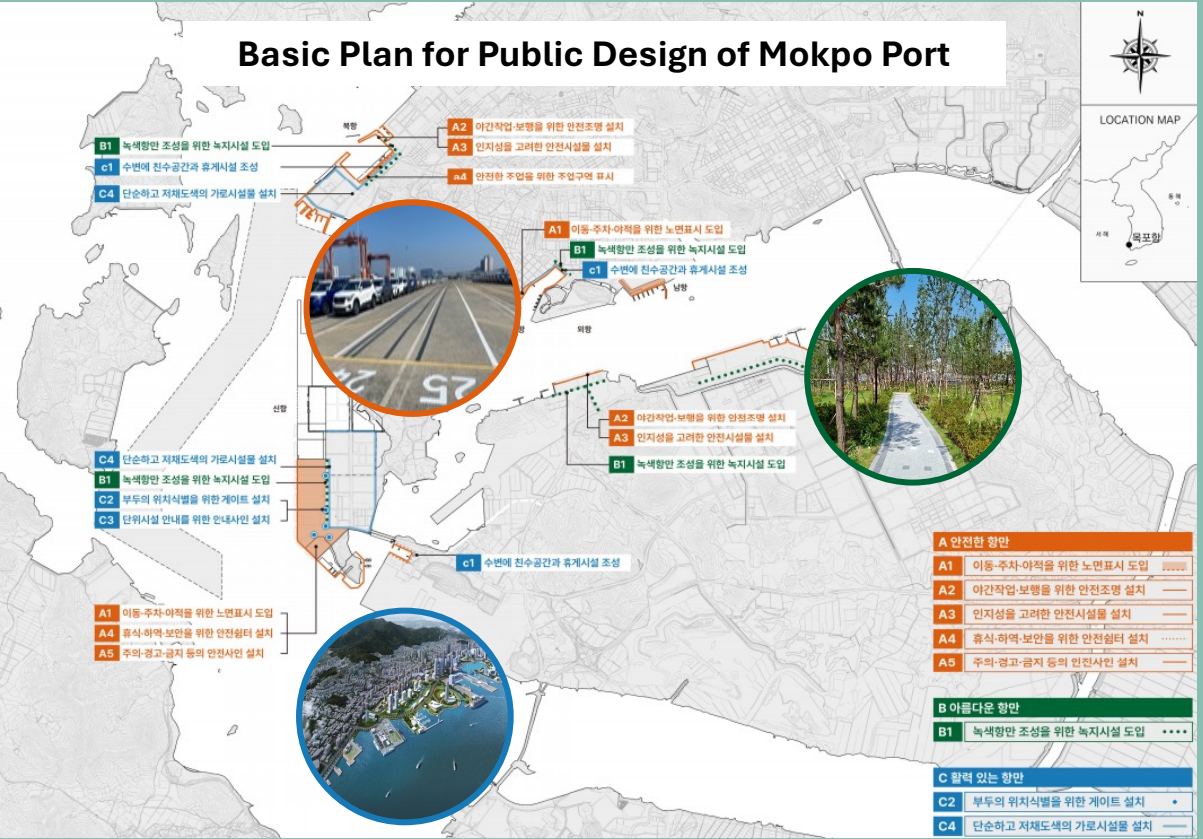
Absorption Capacity	<ul style="list-style-type: none">•Resilience: Regular Inspections and Maintenance•Redundancy: Resource Management•Visibility: Manual Management 
Adaptability	<ul style="list-style-type: none">•Flexibility: Emergency Response System•Collaboration: Joint Response with Relevant Agencies•Agility: Training and Drills 
Recovery Capacity	<ul style="list-style-type: none">•Response: Situation Communication System•Recovery: Recovery Plan Development 

Port Business Continuity Management

Port Design

Building a Resilient Port City

Through the Development of Eco-friendly Port Facilities



THANK YOU