

Northeast Asia's Fishery Products Hub **Busan Gamcheon Port**

Implementing thorough port defenses to prevent community spread of COVID-19

2021.01



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 - BPA introduction, status, piers
- **02. Overview of Busan Gamcheon Port**
- **03. COVID-19 Response System**
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1. Current status of Busan Port and the Busan Port Authority

A global port authority, connecting the world

Basis of establishment

Port Authority Act

Date of establishment

January 16st 2004

Assets

5.56 billion USD

2020 turnover

355 million USD

Aim of establishment

To contribute to local economy by fostering Busan Port as a competitive hub for maritime shipping and logistics, through efficient port development, operation and management

Main business areas



Development, management and operation of port facilities



Construction, management and operation of Busan Port Distripark



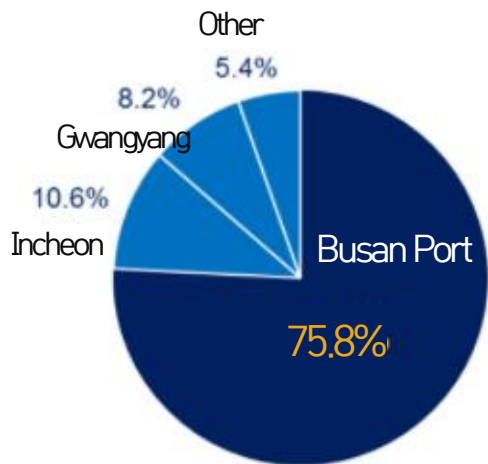
Construction of port redevelopment project and marina facilities



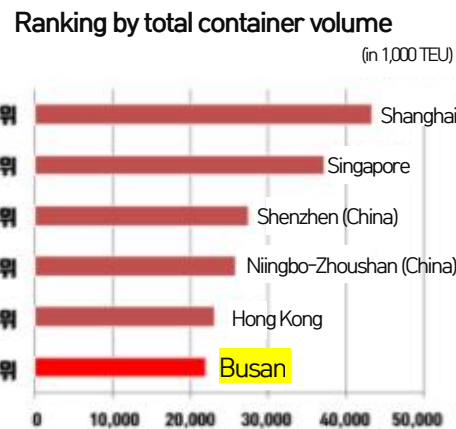
Construction, management and operation of ports overseas

1. Current status of Busan Port and the Busan Port Authority

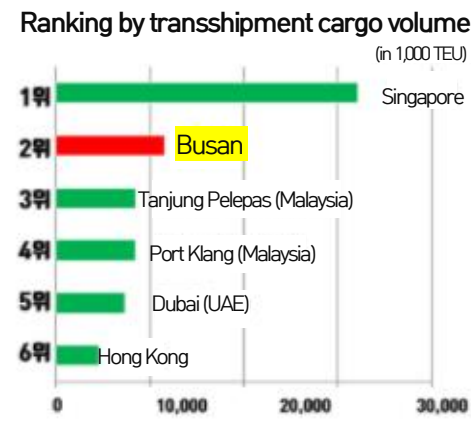
World's 2nd largest container transshipment hub port Northeast Asia's largest fishery product center



Most handled container cargo in South Korea



World's 6th leading container port⁽¹⁹⁾



World's 2nd leading transshipment port⁽¹⁹⁾



Northeast Asia's leading fishery product center

1. Current status of Busan Port and the Busan Port Authority

New Port

Container cargo handling



North Port

Container cargo handling,
Passenger transport



Gamcheon Port

Handling of general cargo
and fishery products



1.1 General status of Gamcheon Port, at Busan Port

GAMCHEON PORT

Gamcheon Port was designed in 1978 as a supplementary port for the existing Busan North Port. Construction of Gamcheon Port began in 1990 and was completed in 2001, with the port divided into three areas: the Eastern Wharf, Western Wharf, and Central Wharf.

The Eastern and Western Wharfs were developed with 161 billion KRW of private funding, while the Central Wharf, breakwater, route dredging and roads were developed with 134 billion KRW of public funds.

Busan International Fish Market was constructed by the Busan City Government, with a total investment of 201 billion KRW (70% National government funded, 30% Busan city government funded).



1.1 General status of Gamcheon Port, at Busan Port

GAMCHEON PORT

General Wharf

- **Size:**
Lot 185,623.2m²
Quay wall 7,226m, Width 30m
- **Docking Capacity:**
500t ~ 50,000t x 51vessels
- **Handling Capacity:**
16,616,000t/year
- **Operator:**
Publicly owned

TOC Wharf

- **Size:**
Lot 83,425.19m², Building
2,646.8m²
Quay wall 942m, Width 30m
- **Docking Capacity:**
1,000t ~ 30,000t x 5vessels
- **Handling Capacity:**
3,285,000t/year
- **Operator:**
INTERGIS(Gamcheon Port Central Pier)

Dadae Wharf

- **Size:**
Lot 13,524.7m²
Quay wall 390m, Width 30m
- **Docking Capacity:**
5,000t x 2vessel
- **Distripark:** 19,072m²
- **Operator:**
 - Wharf: Publicly owned
 - Distripark: Citizen's Waterfront Space (Saha-gu)



1.1 General status of Gamcheon Port, at Busan Port

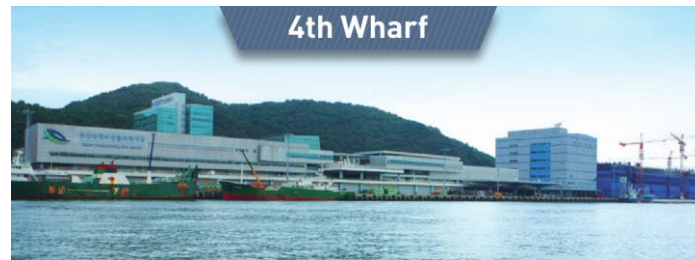
GAMCHEON PORT

Port Facilities

- **Docking Facility:** 8,558m
- **Docking Capacity:** 58vessels (500t~50,000t)
- **Storage Facility:** 73,832m² / Open storage capacity 230,789t
- **Water Area:** 5,224,000m² / Coastline 12.7km
- **Water depth:** 4.5 ~ 13m



Length 831m **Operator** Publicly owned
Cargo Frozen and general cargo



Length 500m **Operator** Publicly owned
Cargo Frozen and general cargo



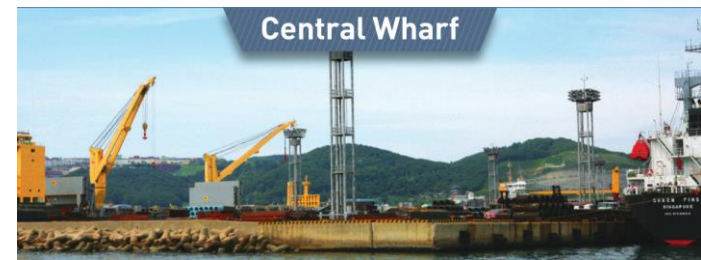
Length 600m **Operator** Publicly owned
Cargo Steel and general cargo



Length 1,062m **Operator** Publicly owned
Cargo Frozen and general cargo steel, cement and sand



Length 802m **Operator** Publicly owned
Cargo Steel, scrap metal, and miscellaneous goods



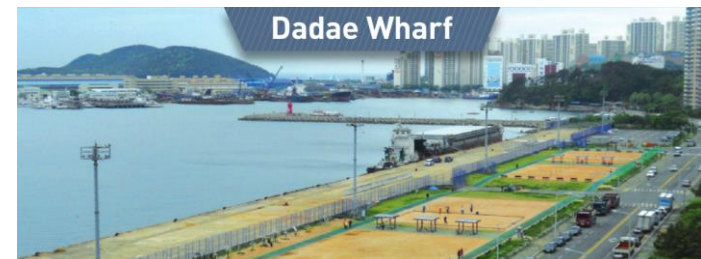
Length 942m **Operator** INTERGIS(Gamcheon Port Central Pier)
Cargo Hard wood and steel



Length 1,055m **Operator** Publicly owned
Cargo Frozen and general cargo



Length 590m **Operator** Publicly owned
Cargo Liquid and steel



Length 390m **Operator** Publicly owned
Cargo Waiting vessels

2. COVID-19 Outbreaks at Gamcheon Port, Busan

Northeast Asia's leading center for international fishery product transshipment

Disruption concerns due to COVID-19



- ✓ Russia, as the world's 3rd leading nation for marine products, transports fish from the Eastern region to Busan Port to be processed and stored, and then sold and transported throughout the world
- ✓ Russia saw over 20,000 confirmed cases of COVID-19 per day, and struggled to control the virus' spread (Total confirmed cases in Russia: 1.9 million (as of Nov 2020))



Suspension of cargo loading and unloading
Worker livelihood crisis, decline in industry turnover, concerns of interruption to Gamcheon Port operations



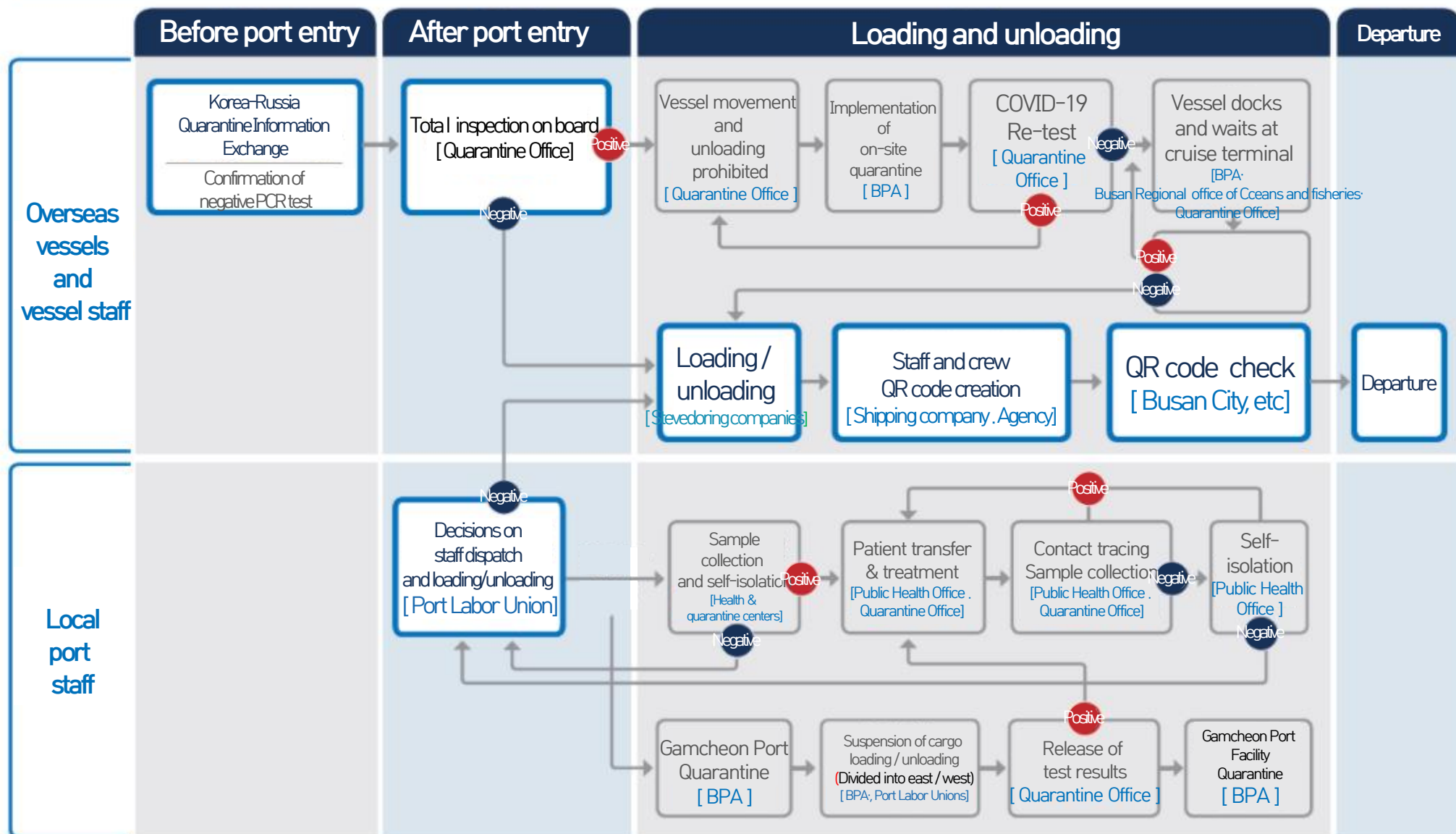
Regional spread
Mounting community sense of crisis despite government's nationwide efforts to control virus



Regional economic downturn and decrease in port competitiveness
Crisis of interruption to economic flow, Potential suspension of unloading activity at Gamcheon Port, ship repairs, and other services

3. Gamcheon Port's COVID-19 Response System

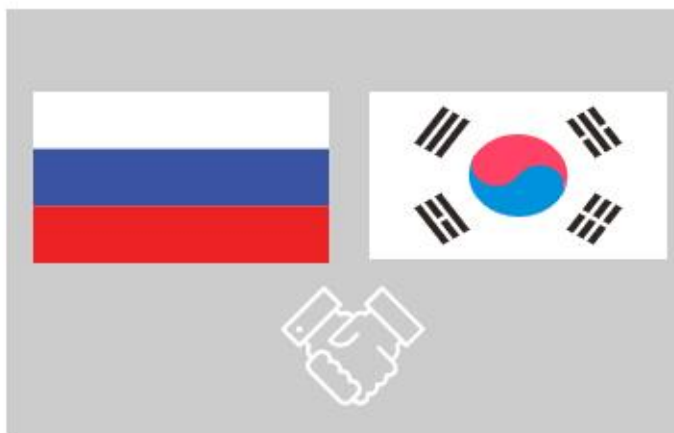
Thorough prevention of infection from port entry to port departure, via cooperation between agencies



3. Gamcheon Port's COVID-19 Response System

Corona test required for entry to Busan Port, Strengthening of immigration quarantine

Diagnostic test before arrival
(from Russian medical institution)



Mandatory submission of negative PCR test result
from all staff on vessels from Russia

Diagnostic test upon arrival
(from Korean Quarantine Office)



Diagnostic tests conducted on all vessel crew

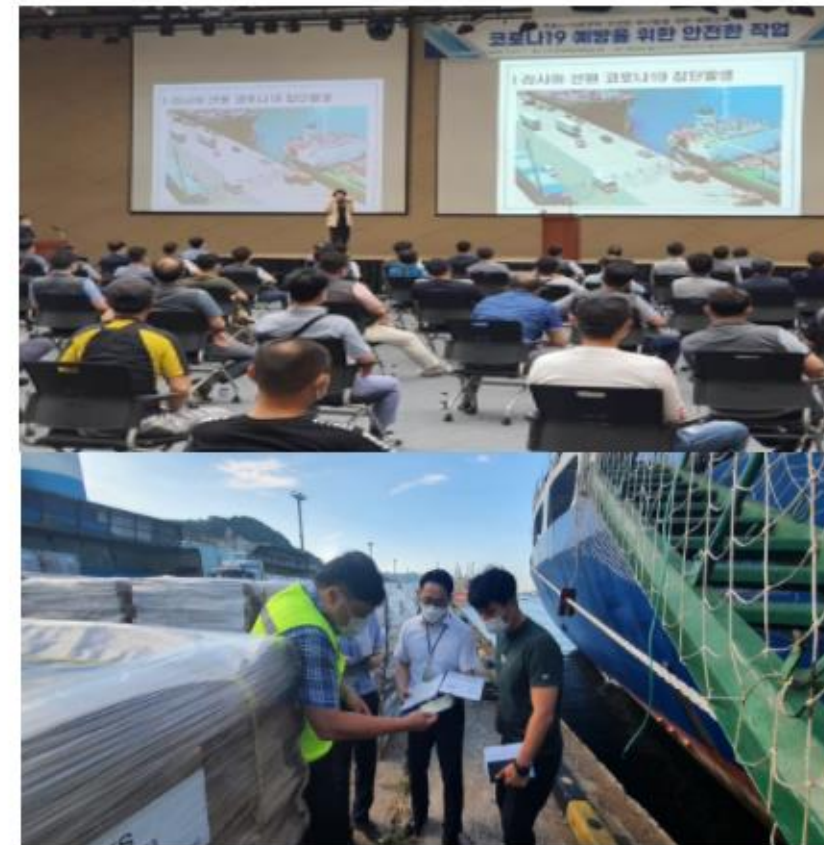
* PCR test: Polymerase Chain Reaction test used for diagnosis of infectious diseases

3. Gamcheon Port's COVID-19 Response System

First ever introduction of electronic QR code access to port, **strengthening safety** for crews and dock workers



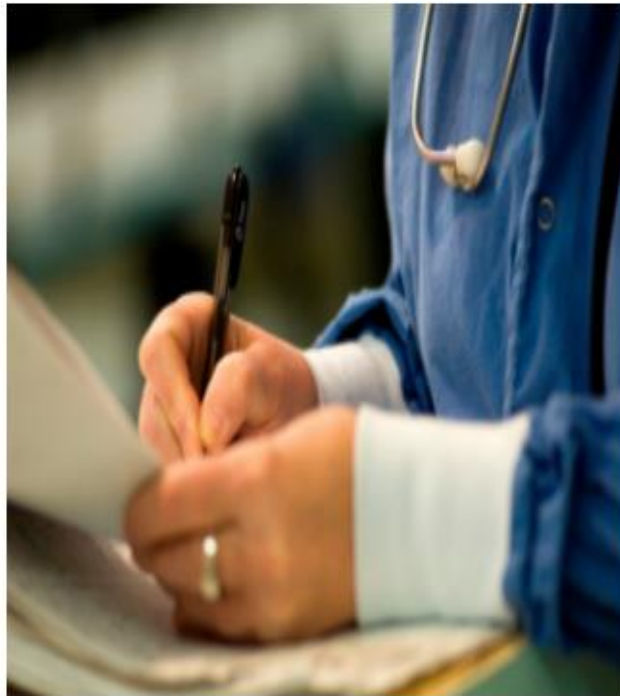
Pre-emptive blocking of regional spread through operation of electronic access QR code (administrative order by Busan City)



Early implementation of quarantine system (BPA) (Quarantine kits and training, joint inspections, etc)

3. Gamcheon Port's COVID-19 Response System

Operation of real-time information sharing platform on COVID-19 and vessels arriving at Gamcheon Port



Sharing of database on vessel quarantine and operation status



One-stop solution for challenges to the industry

3. Gamcheon Port's COVID-19 Response System

Barrier-free and proactive cooperation between relevant government agencies for uninterrupted port operation



First infection

Present

Infected vessel
Interruption to work-flow
and vessel movement

Indefinite suspension of
pier operations

Pro-action

Quarantine Office

Permission for vessel movement (exemptions apply)

BPA

Provision of passenger terminal as temporary docking point

Busan City

Community outreach and cooperation regarding docking of Coronavirus-infected vessels

Security Agencies

Strengthening of security to prevent crew breakaway



3. Gamcheon Port's COVID-19 Response System

Protection of worker rights for overseas crew through provision of medical services and crew rotation



Provision of medical services for Corona patients

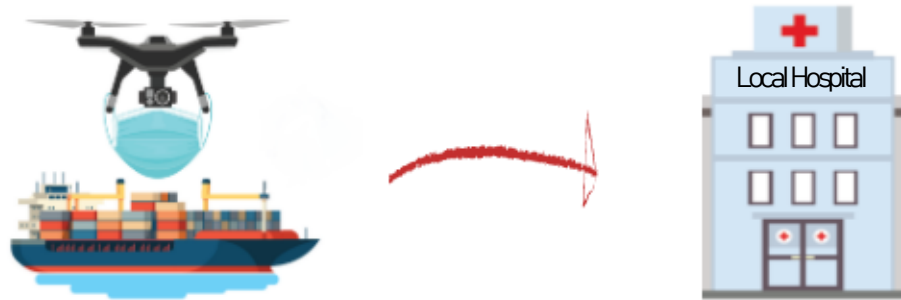
Operation of quarantine facilities during crew rotation

3. Gamcheon Port's COVID-19 Response System

Promotion of regional problem-solving using science technology
(Ministry of Science and Technology, ministry of Public Administration and Security)

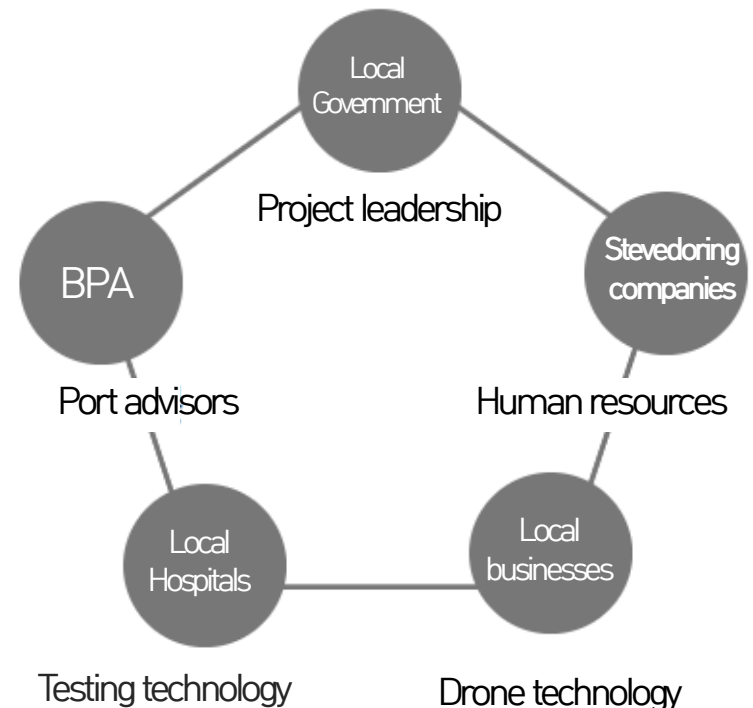
Through regional, academic and industry cooperation: introduction of new, 'Port-Through Corona Testing' technology

✓ Concept of contact-free 'Port Through' diagnostic test



Introduction of 'contact-free Port-Through diagnostic test', using drones to collect crew masks

✓ System of collaboration to implement new technology

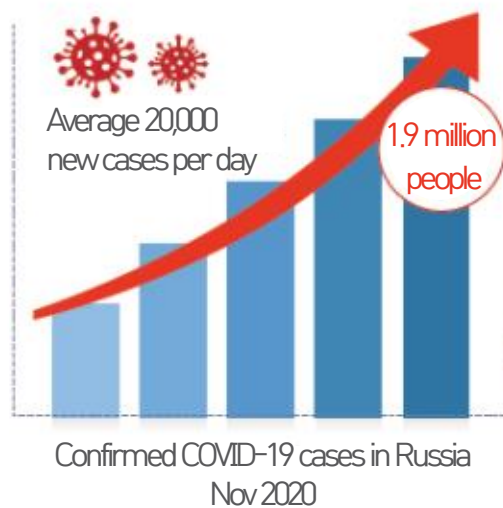


4. Results of Gamcheon Port's COVID-19 Response

Successful operation of Busan Port for both economy and prevention of pandemic spread

01

Through thorough implementation of port quarantines,
zero regional infections through Busan Port



4. Results of Gamcheon Port's COVID-19 Response

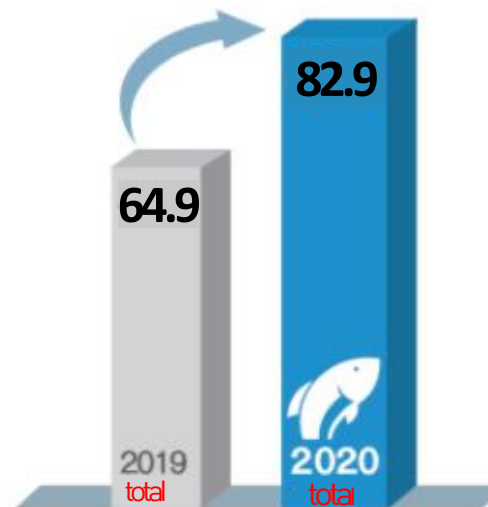
Successful operation of Busan Port for both economy and prevention of pandemic spread

02

Stable port operations resulted in influx of additional frozen fish from overseas ports

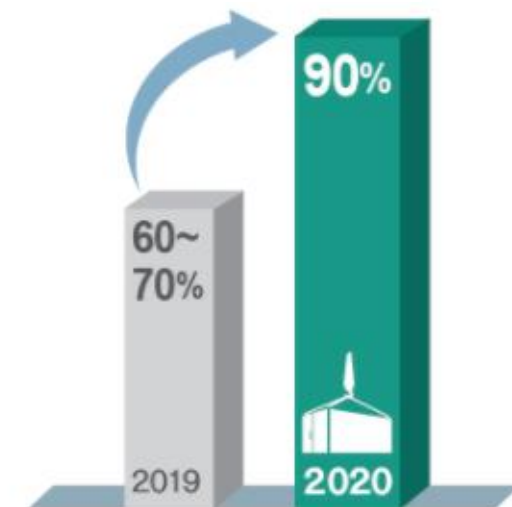


27.7% increase



[Fishery product cargo handled at Gamcheon Port] (in 10,000 tons)

Total 40% increase



[Frozen goods stored]

4. Results of Gamcheon Port's COVID-19 Response

Successful operation of Busan Port for both economy and prevention of pandemic spread

03

Stable port management resulted in **non-stop** port operations and

16,000 jobs security

"Creation of **3.5 billion USD** in added-value"

"**16,000 jobs Security**"



4. Results of Gamcheon Port's COVID-19 Response

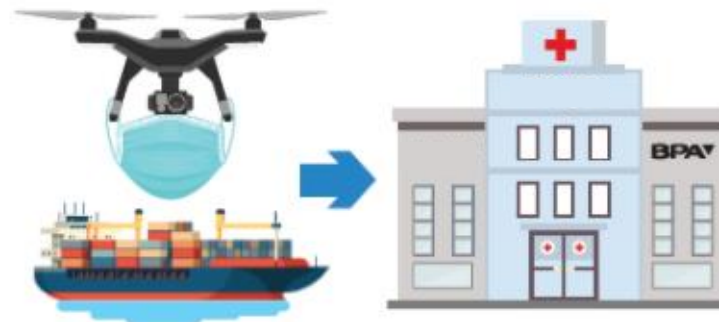
Successful operation of Busan Port for both economy and prevention of pandemic spread

04

Pro-active sharing of public data allowed
swift resolution of challenges to industry



Promotion of new, 'Port-Through' COVID-19 testing technology through industry and academic cooperation



Contact-less 'Port-Through' diagnostic tests

Guaranteed basic rights for vessel crew



Protection of safety and rights for both domestic dock workers and overseas crew



GLOBAL NO1
PORT



HUB PORT



Thank You

BUSAN PORT AUTHORITY