110th APP(Asia Pacific Ports) Conference Kaohsiung, Taiwan

Introduction of e-EIR in Busan

* e-EIR (Electronic Equipment Interchange Receipt)

August 13, 2024

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Necessity for e-EIR adoption

- Most of the container terminals in Busan Port were using paper Equipment Interchange Receipt(EIR) (except 1 in New port)
- The process and movement of trucks transporting container cargo within the terminal area is as follows :



Necessity for e-EIR adoption

Truck Drivers

Frequent get offs are inevitable in terminals



A truck driver walking along right next to large heavy machineries

Port Personnel

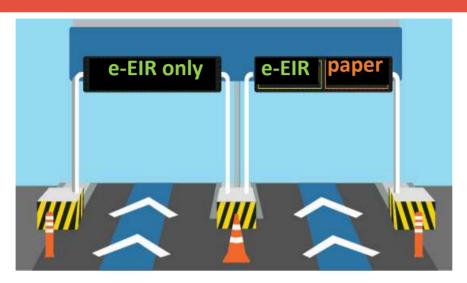
Hard to communicate with the truck driver



Giving hand signs to the truck driver during container cleaning process

e-EIR implementation process

Hardware



e-EIR gates to facilitate efficient and secure entry and exit procedures

Software

Developing an integrated e-EIR application to enhance overall port logistics



e-EIR implementation process

Disembarkation points in terminals



e-EIR implementation process

Development of a structured system

Build up collaboration and communication channels

Busan Port Authority

Terminal

10 companies in Busan Port

Trucking Comp.

Korea Integrated Logistics Association

Trucker

Truckers' Union Headquarters



Terminal CEO meetings

(Dec. '22.~, 6 times)

Visits to trucking companies

(Lotte, Hanjin, Cheonil, etc., 10 times)

Practical workshop with Terminal staff

(Dec.'22.~, 8 times)

Visits to Truckers' Union HQ

(Discussion on development, occasional meetings)



Conversion of "paper EIR" to "e-EIR"

ASIS





2

Integrating separate applications of Busan port

ASIS





3

No-disembarkation of truck drivers

ASIS







Real-time communication during tasks

ASIS







Providing real-time on site information

ASIS







Sending of urgent notifications

ASIS





* 1 USD = 1.300 KRW

Expectations & Achievements

Expectations of e-EIR



Prevention of safety accidents



* 1 USD = 1,300 KRW

- Sustainable port operation
 Closing of Busan port causes
 54.6million USD loss
- Reducing risk of accidents
 by minimizing drivers disembarking from
 the truck
- Secure safe working environment of port workers in Busan port

Busan Port

Truck driver

Terminals

- Save costs collecting paper EIR wastes
- Reduction of fuel costs to visit ECO More than 3.5 million USD per year
- Elimination of paper EIR issuing costs

More than 308 thousand USD per year

Expectations & Achievements

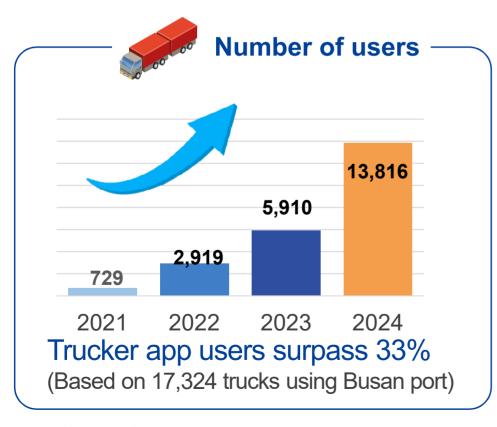
Achievements of port logistics platform

66

Activation of port logistics platform(e-EIR and 9 existing systems) brought

Rapid growth of users and excellence recognition







Excellence recognition



'South Korea Presidential award' (1st place) (Korea Logistics Award, Nov. 23.)

