



Time Release Study

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Korea Customs Service



Contents

- 1. Introduction
- 2. What is TRS?

- 3. TRS Best Practice of Korea
- 4. Conclusion

Introduction

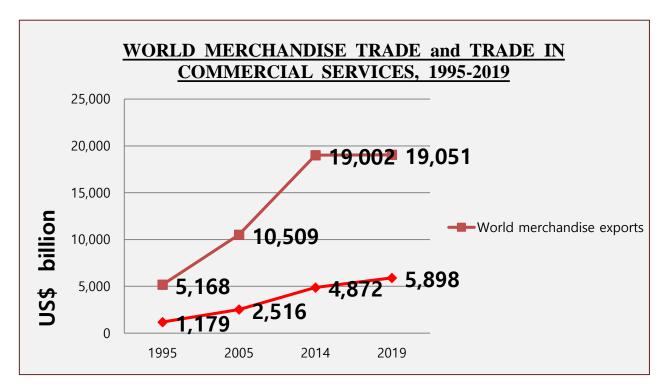
Trade

- ✓ Huge increase in cross border trading as a result of globalization, customs role in trade facilit ation (TF) becomes more prominent
- ✓ Expediting the movement, clearance & releas e of goods have been a major desire for many Customs in the 21st Century

Trade



Trade





Traders have been exploring avenues to move their goods expeditiously across borders at a reduced cost

Source: World Trade Organization International Statistics 2015 & 2020

Trade Facilitation



Trade Facilitation

 Expediting the movement, release and clearan ce of goods, including goods in transit (Doha Declaration)

• Lowering trade transaction cost and Creating standard efficiencies

Customs and WCO Role for TF

- Improving Economic Situation depends highly on an Effective Trading System
- Internationally agreed Protocols
- Guidelines
- Customs Practices

Customs and WCO Role for Trade Facilitation

Examples of WCO tools



WTO Trade Facilitation Agreement



Bali, Indonesia, 2013 & Effected 2017

WTO TFA Article 7.6.

Article 7. Release and Clearance of goods

- 6. Establishment and Publication of Average Release times
- 6.1 Members are encouraged to measure and publish their <u>average</u>

release time of goods periodically and in a consistent manner, using

tools such as, inter alia, the WCO Time Release Study.

WTO TFA Article 7.6.

Article 7. Release and Clearance of goods

- 6. Establishment and Publication of Average Release times
- 6.2 Members are encouraged to share with the Committee their
- experiences in measuring average release times, including
- methodologies used, bottlenecks identified, and any resulting
- effects on efficiency.

WCO support WTO TFA



WCO TOOL for WTO TFA

WCO has developed a number of instruments and tools, which respond to Members' needs as regards *WTO TFA implementation*.

WCO is continuing to develop and fine-tune an inter-active guidance tool designed to help Customs implement the WTO TFA.

П

What is TRS?

TRS: Overview

Time Release Study











Shipping company and agent, Port Authority

Importer,
Customs broker
Container Yard
OGAs

Customs, Bank, Customs broker Port Authority Container Yard Warehouse, Forwarder

TIME

Arrival

Unloading& warehousing

Preparation & Declaration

Customs Release

Delivery

Time Release Study

Strategic, internationally accepted tool to measure the actual time required for the release and/or clearance of goods, from the time of arrival until the physical release of cargo, with a view to finding bottlenecks in the trade flow process and taking the corresponding necessary measures to improve the effectiveness and efficiency of border procedures.

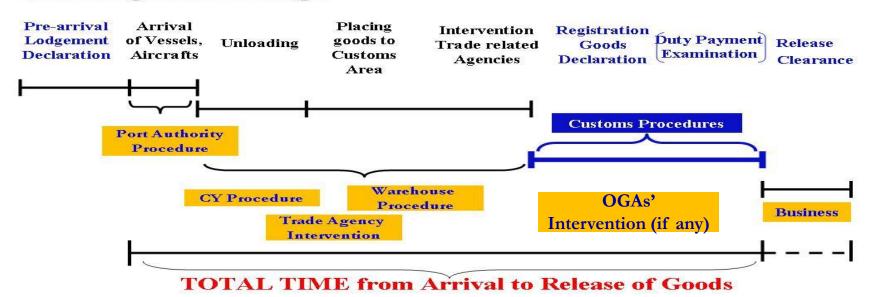
Key objectives of TRS

- ✓ Measuring the overall performance of Customs and other stakeholder's business processes
- ✓ Identifying bottlenecks in the international supply chain and/or constraints affecting the release of goods, including with regard to the flow of information, documents and finance
- ✓ Assessing newly introduced and modified policies, procedures, techniques, technologies and infrastructure, or administrative changes
- ✓ Establishing a baseline for trade facilitation performance measurement
- ✓ Identifying opportunities for trade facilitation improvements

Scope of TRS

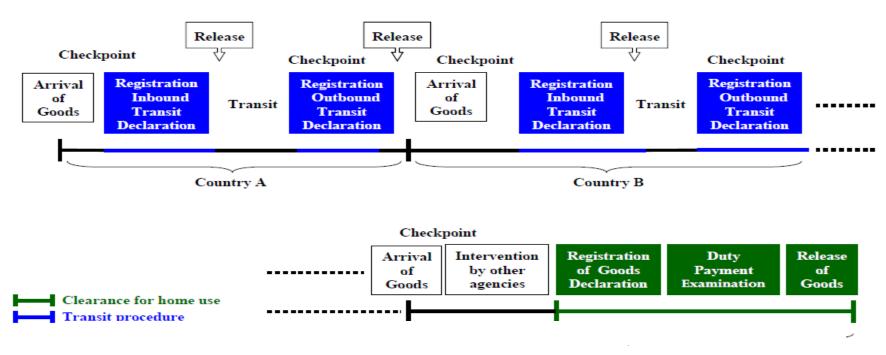
Cargo Flow from Arrival to Release of Goods

Sea cargo & Air cargo



Scope of TRS

TRS with neighboring countries



Time Release Study

WCO TRS Guide

1991 The first TRS conduction between Japan and US

1994 WCO TRS Handbook

2001 WCO TRS Guide

2005 WCO TRS Software

2011WCO TRS Guide Version II

2018 WCO TRS Guide Version III







Updated TRS Guide Version III

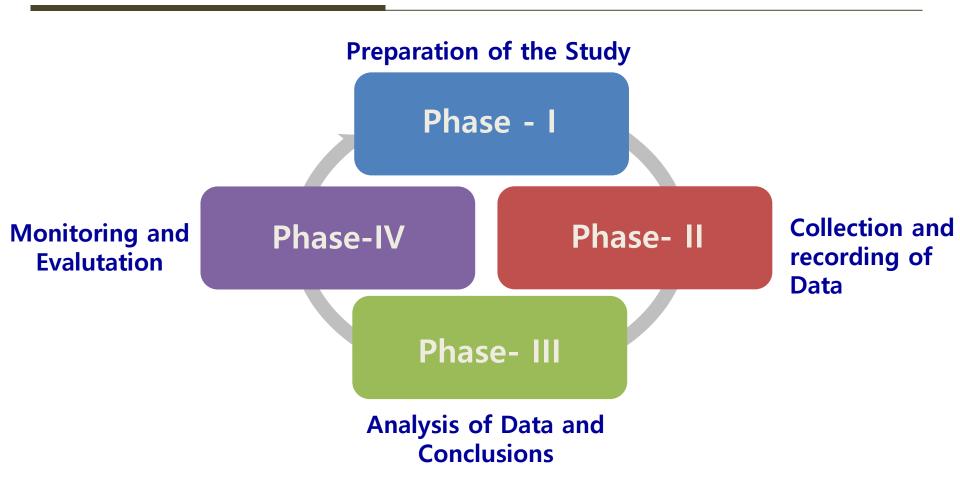
Time Release Study

WCO TRS Guide

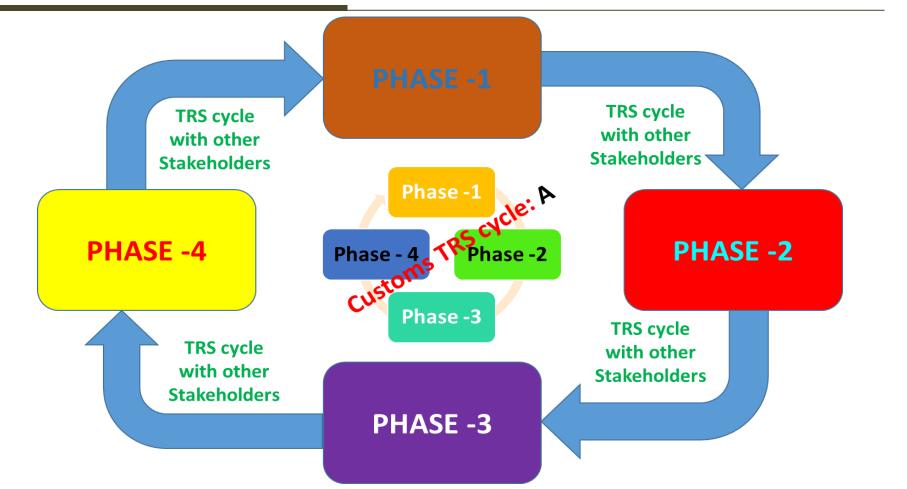
Updated TRS Guide Version III includes;

- Detailed information on the use of TRS in the implementation, monitoring and evaluation of the TFA
- An explanation of the possibility of conducting, as a first step, a simplified TRS
- illustrations of different approaches to conducting TRS
- Detailed information on the use of modern technologies in data collection, collation, and analysis for improving the TRS process (e.g. electronic processing systems, Single Window, smart phones, RFID seals and GPS-enabled track and trace)

TRS Process in General



A Customs TRS cycle versus an entire TRS cycle



TRS in context of the Global Pandemic

WHO announcement affects Customs

- ✓ Closing of borders in different countries;
- **✓** Travel restriction and ban;
- **✓** Reduction of Customs workforce;
- ✓ Shift from more goods to less imported/exported goods;
- ✓ Significant reduction of Customs duties;

WHO announcement effects Customs

- ✓ Reopening borders;
- **✓** Limitation in terms of workforce;
- ✓ Leverage on technology to advance Customs work;
- ✓ Introduction of biosafety measures in Customs for employees and clients;
- ✓ Adjusting to the decline in revenue, and in some cases to the introduction of special exemption on certain goods;
- **✓** Further shift from a physical method to a more non-physical inspections.

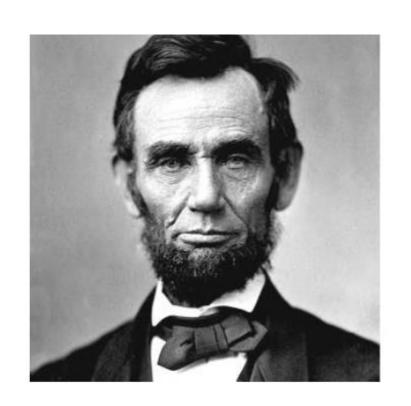
What is the opportunity?





STAND STILL





"The best way to predict the future is to create it."

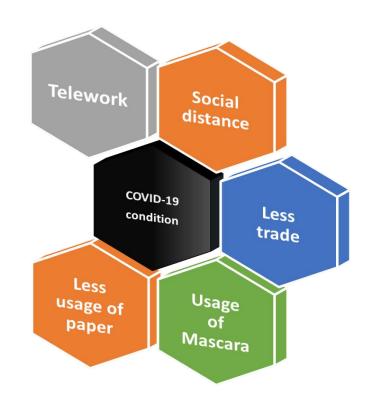
-Abraham Lincoln-

New opportunities for Customs

- ✓ To adjust to the new reality;
- ✓ To set new goals and targets for Customs Admistrations;
- **✓** To review things in critical manner;
- **✓** To introduce corrective measures.

New opportunities for Customs





New challenges for Customs

- ✓ To follow thoroughly the TRS methodolgy in more holistic manner, through involving all trade stakeholders;
- ✓ To have physical meetings;
- ✓ To use paper form or survey questionnaire;
- ✓ To conduct a full environmental scanning

WCO recommendations to address the challenges

- ✓ Conduct a simplyfied TRS by only focusing on Customs process;
- ✓ Conduct all meetings virtually;
- ✓ Refrain from using questionnaires by officers or Customs employees;
- ✓ Avoid to fill survey questionnaires forms completly.

WCO recommendations to address the challenges

- ✓ If it is impossible to carry out an environmental scanning because of pandemic;
 - Data should be collected only electronically and
 - Complete the cycle in at least 6 months

III TRS Best Practice of KCS

Background of Initial TRS of KCS

- Rapid growth of Korean economy and trade volume
US\$ 11 billion('1974) -> US\$ 135 billion('1990)

- Extreme delays in cargo processing due to shortage of SOC

SOC (Social Overhead Capital) T/F: Korean Government set up an ad hoc SOC Task Force Team in the presidential office in 1991

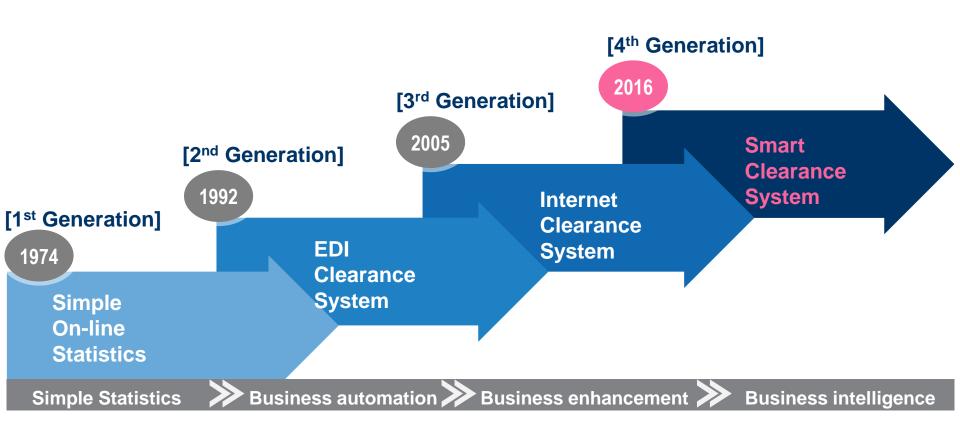
- First measurement of cargo processing time by ad hoc SOC T/F

Proportion of Logistics costs up to 16.7% in 1991, Release of goods takes 15~23 days

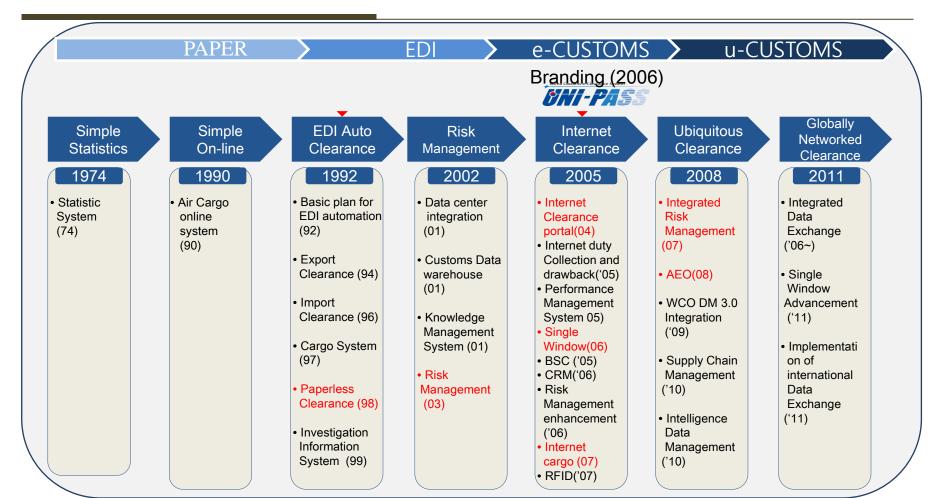
Recognition of the importance of efficient trade logistics by integrated border control & management

Perform Informatization

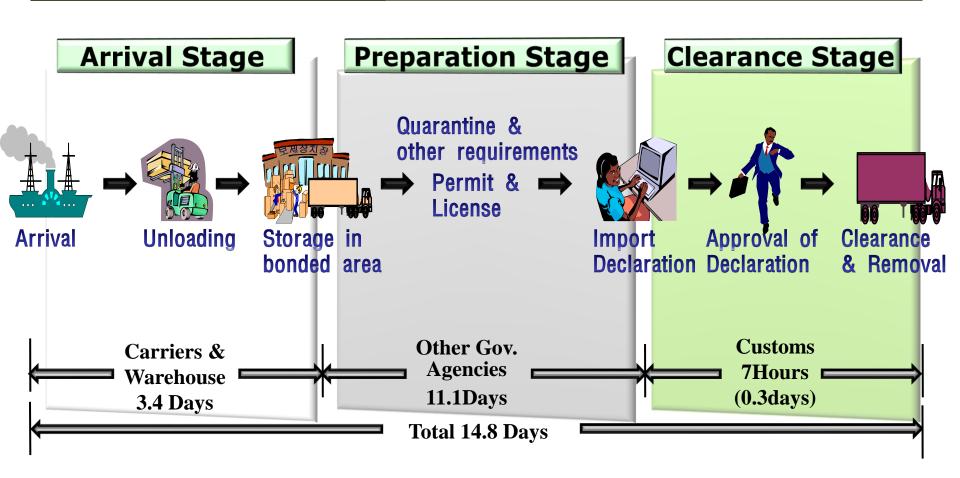
Paperless Customs Clearance



Overview of the KCS' Informatization



First Time Release Survey (1997)



Key Problems Defined

Arrival Stage (3.4days)

• Declarations allowed only after the storage

Preparation Stage (11.1 days)

• OGA's complex requirements

Clearance Stage (7 hour)

• Paper-based check and control

Three key phases of TRS in KCS

1996-2000 (1st Phase)

-

2003-2005 (2nd Phase)

-

2006- (3rd Phase)

Informatization

Paperless Customs
Clearance

TRS for Advanced Logistic
Hub

CLIS: Client Oriented Logistics Information System

Reform Measures (Introduction)

- TFA article 7.1 pre arrival processing('96)
- 7.2 electronic Payment('96)
- 7.5 Post Clearance Audit('96)
- 7.6 Concept of TRS was introduced('97)
- Reduction of Customs declaration documents and procedures;
 360→180 types
- Paperless customs clearance ('98)

- TFA article 7.4 Risk Management('03)
- •Initiated a 24-hour unloading program at Pusan Customs
- Reduced mandatory period of unloading declaration (5->3days)
- Shortened the storage period at port areas(5->days)
- Operate a 24-hour clearance system at major ports
- Penalties on declarations made one month after arrival
- Mandatory removal period of 15 days from bonded areas after acceptance
- PDA assistance cargo examination
- Introduce the Monthly Payment System

- TFA article 10.4 Single Window('06)
- 7.7 AEO('08)
- 7.3 Release of goods prior to final determination of duty and tax ('08)
- Risk Management enhancement('06)
- Internet cargo ('07)
- Real Time TRS

Prior to arrival Clearance system

Adopting flexible declaration system

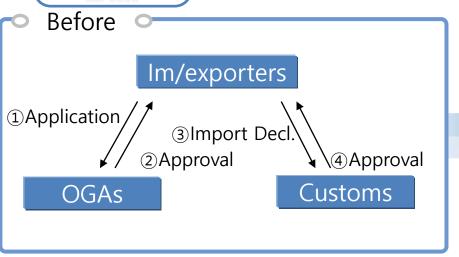
- **⊃** Import declaration prior to arrival
- (1) declaration prior to arrival at the bonded area
- (2) declaration prior to arrival at the importing port
- (3) declaration prior to departure at the exporting port

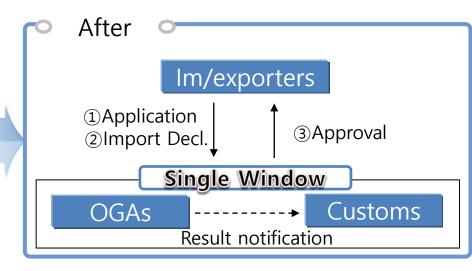
Single Window

KCS introduced Single Window in 2006 and participated 38 author ities or agencies related with border procedures such as quarantine, KFDAs and so on.



One Stop service system processing Customs declaration and OGAs' regulatory requirements



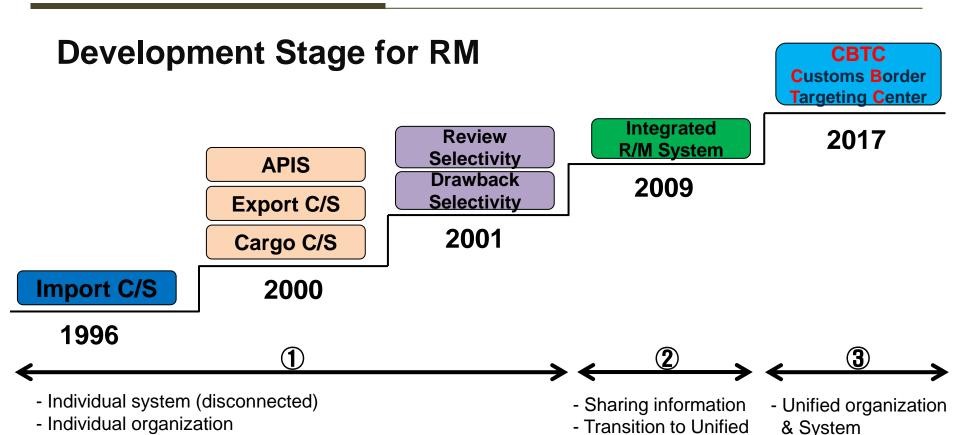


AEO

KCS introduced AEO in 2009 and signed MRAs(Mutual Recognition Agreement) with 22 countries including USA, Japan, China and India.



Risk Management



System

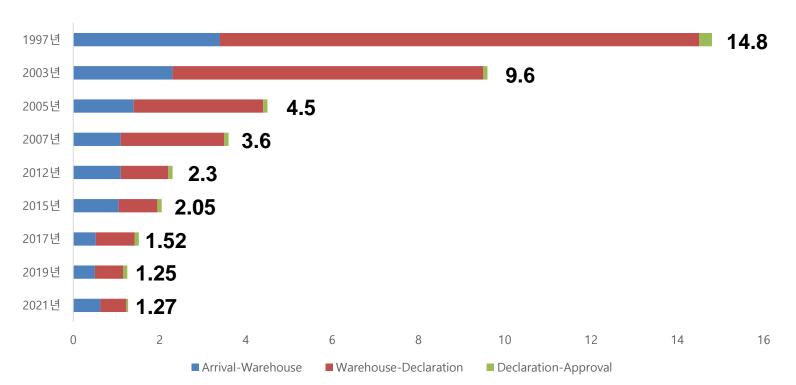
IV

Conclusion

Outcome

Resolving the bottlenecks diagnosed by TRS

 $14.8 days('97) \rightarrow 4.5 days('05) \rightarrow 1.25 days('19)$



Real Time TRS of KCS

Periodic Publication

(Quarterly Import-export Report Magazine)







conductor

tronics

Commu

nicatiom



KCS



product

New Technologies of the KCS



New Technologies of the KCS

Blockchain AI X-RAY Big Data Big Data Platform (B2B Trade) O Al X-RAY System Blockchain platform for export clearance (Big) Passenger Model (Data Exchange) E-C/O (B2C) **E-commerce Platform**

Benefit: Information can be exchanged without an intermediary, whilst ensuring data integrity and providing a full audit trail → Omission of document submission procedure

- Introduction of Block Chain

- 2016 The block chain and 'big data' have become issues discussed at length worldwide
- 2017 Korea Government formed "Fourth Industrial Revolution Committee"
- 2018 KCS established an ICT Development Division for the task
- 2018 Launched the "Fourth Industrial Revolution and Smart Customs" project

- The steps KCS has taken to adopt blockchain technology

2017: Maritime Export Logistics Consortium;

(Domestic ICT company, SAMSUNG SDC Co., 41entites government agencies, including KCS, Ministry of Maritime Affairs and Fisheries, transporters, and consignors)

2018: Project Design _Three clearance processes selected

- export clearance
- e-commerce import
- Cross-border information exchange(e-C/O)

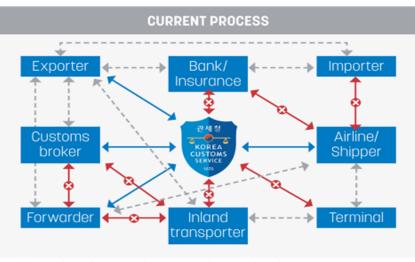
2019. 7: Trial Operation

2022. 1: Plan commercial service

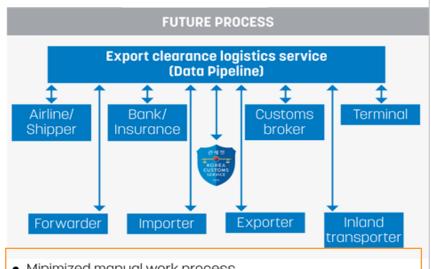
The objective is to strengthen data accuracy, process reliability, promptness, and efficiency.

3.1. Export Clearance

Graph 1: Current and future information management process



- Manual and paper document based work
- Individual information communicated in an analogue method
- Disconnection of information among logistics actors

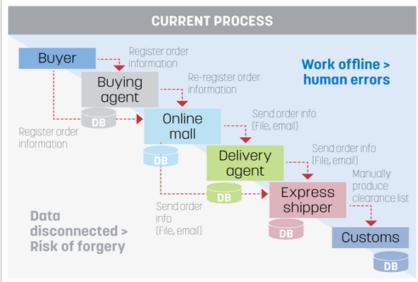


Paper document Linked by system

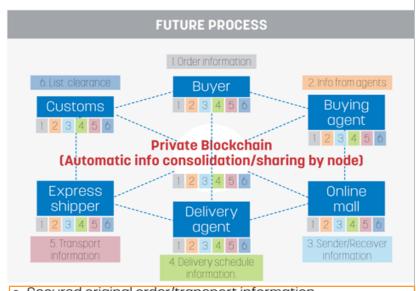
- Minimized manual work process
- Prevention of declaration forgery and provision for transparency
- Real-time information-sharing among logistics actors

e-commerce import

Graph 2: Blockchain model for e-commerce



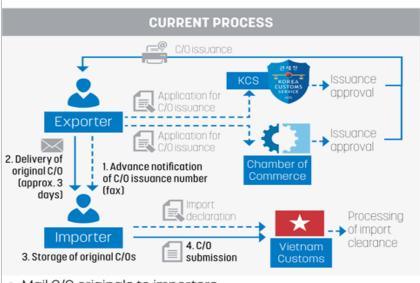
- Manual production and communication of order/transport information
- Disconnected information in each work process



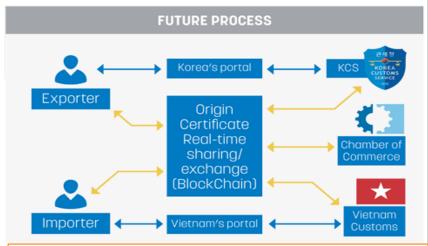
- Secured original order/transport information
- Simultaneous information-sharing on e-commerce actors

cross-border information exchange (e-C/O)

Graph 3: Blockchain model for the exchange of certificates of origin (C/Os) between Korea and Vietnam



- Mail C/O originals to importers
- Im porters submit C/O originals to Customs in the importing country



- Real-time information-sharing with importers at time of issuing C/Os
- Guarantee authenticity of C/Os
- Exempt submission of C/O originals to Customs in the importing country



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