



May, 2011

KCS Korea Customs Service
**Innovation through
CLOUD
COMPUTING**





1 trillion USD

50 million people



**Rapidly Increasing Workload
Limited Personnel & Resources?**



Computerization

Development History



Paper

EDI

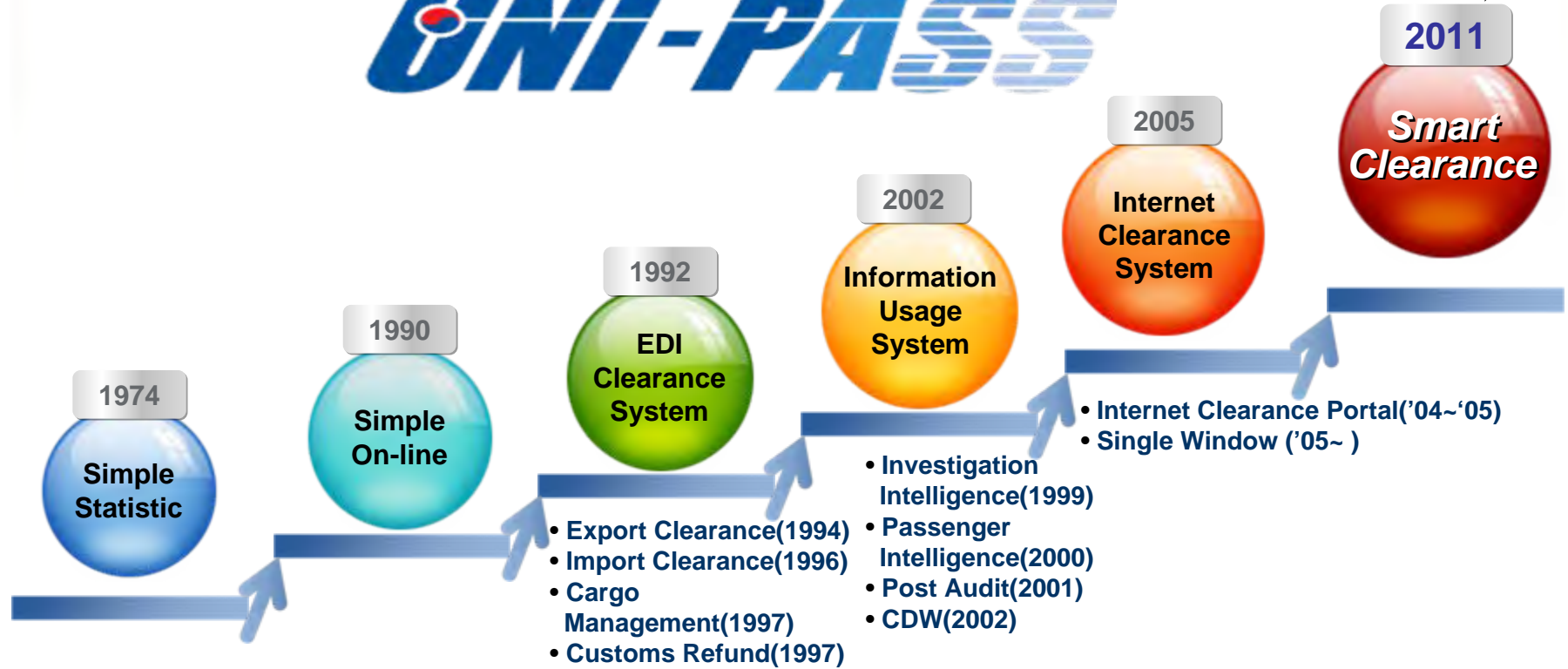
e-Customs

u-Customs

Smart Customs

관세청 전자통관시스템

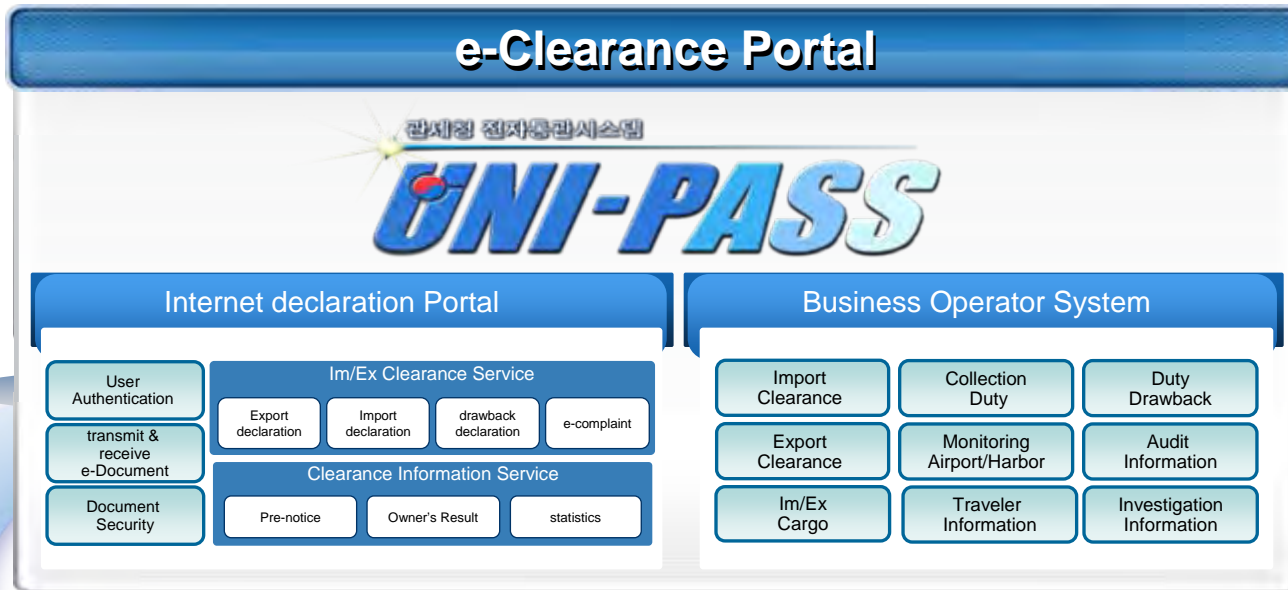
UNI-PASS



System Composition



77 Info Systems inclusive of UNI-PASS to support customs administration



BSC

- Strategic Target Mgmt
- Performance Mgmt
- Problem Identification

i-HRM

- Capacity Evaluation Mgmt
- Capacity Development Learning Program
- Appointment Mgmt
- Promotion Mgmt

CKM

- Knowledge Mgmt
- COP
- Wiki, Blog

CRM

- Customer Mgmt
- Campaign
- Counseling Mgmt
- VOC Mgmt

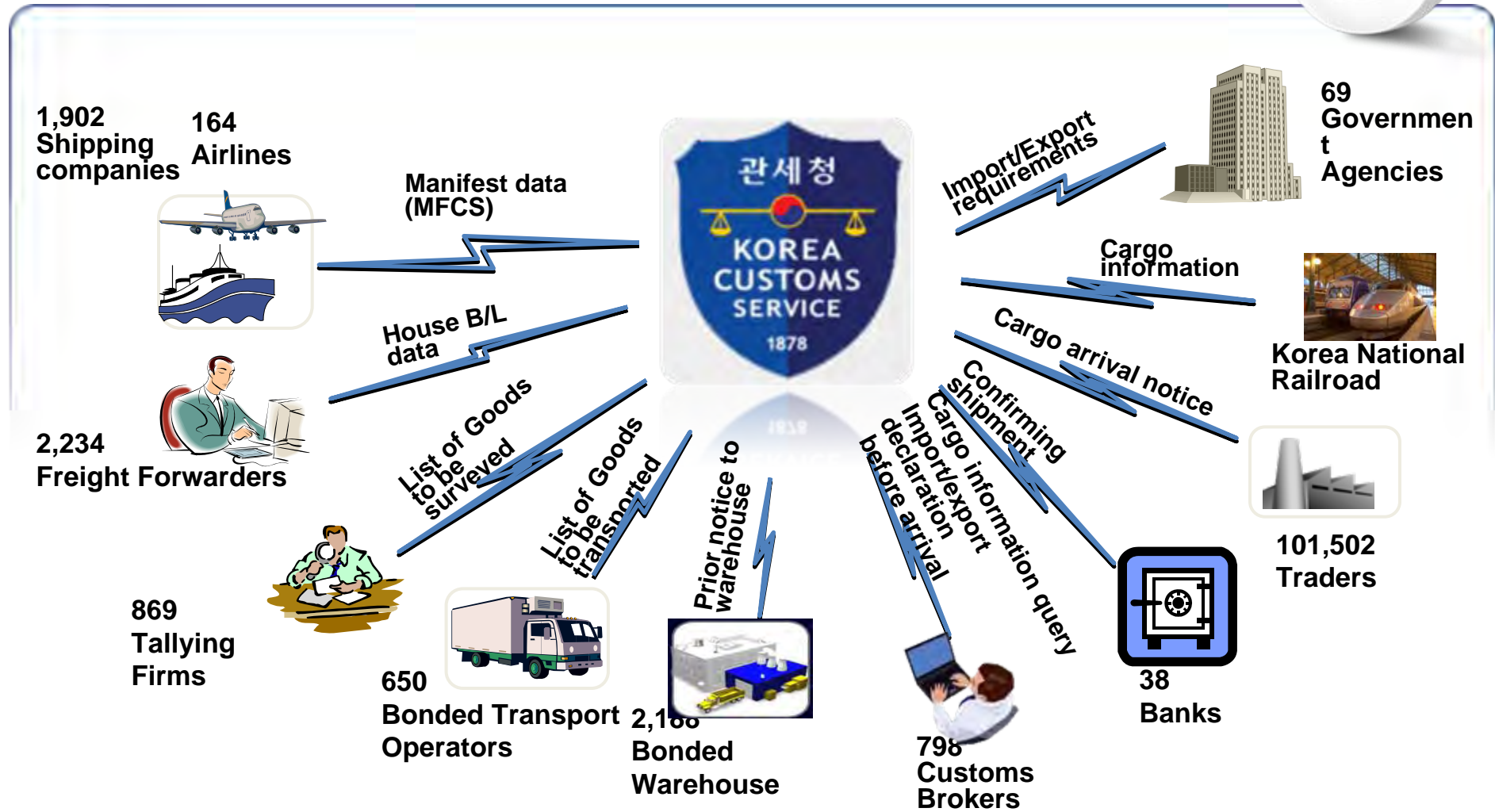
CDW

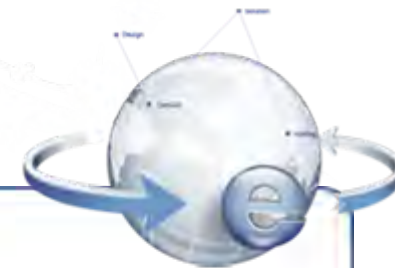
- Data Integration
- Data Mining
- Data Analysis

EA

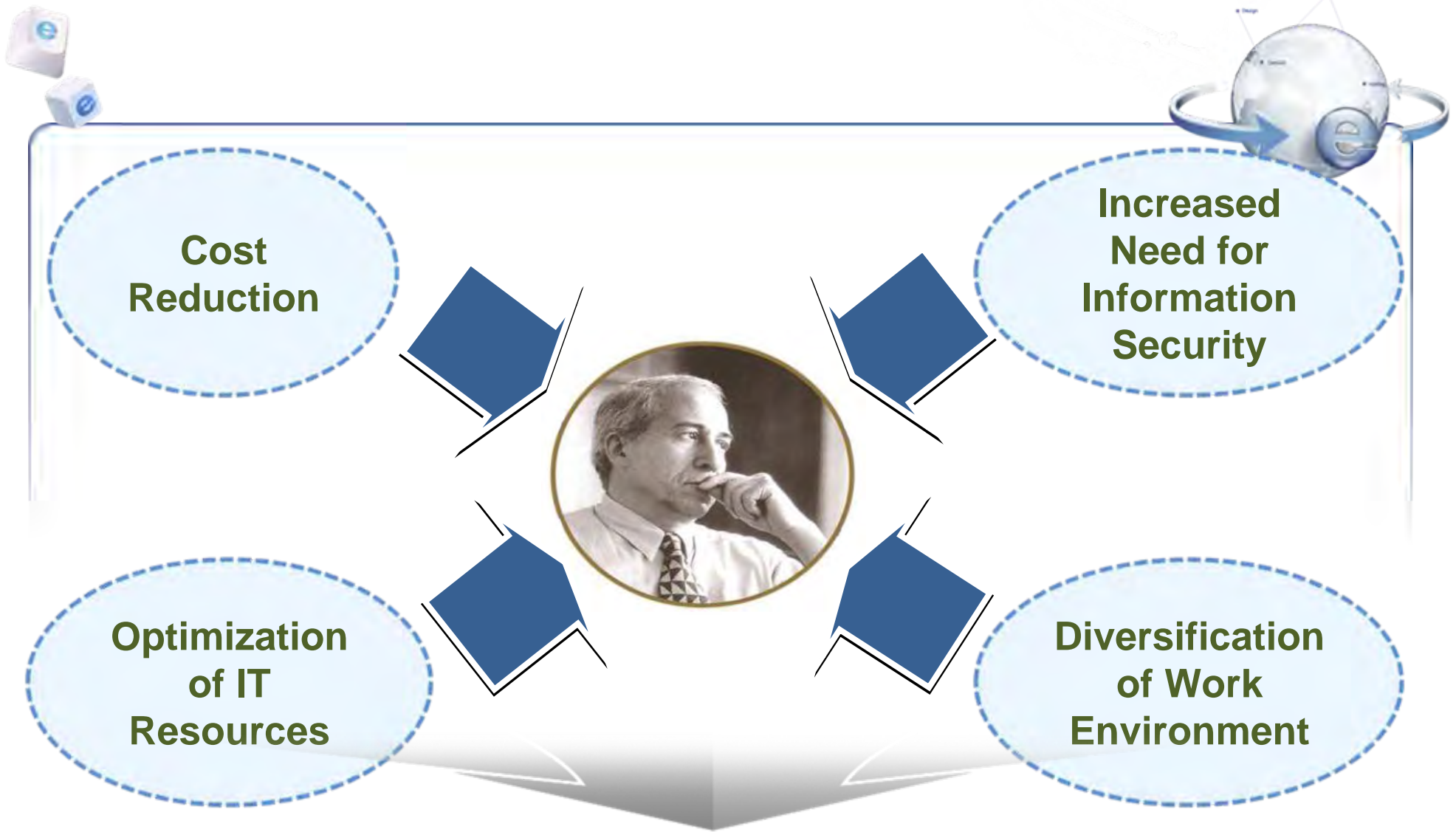
- IT Architecture
- IT Asset Mgmt
- IT Service Mgmt

u – Clearance Network

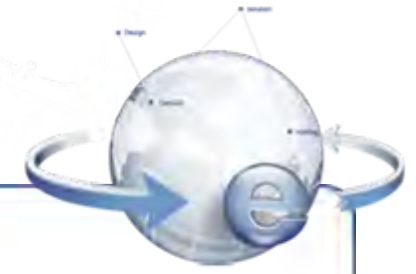




What are their interests ?



Need for a New Smart Customs Service



Korea Customs e-Clearance System



Cloud Service

**Public Cloud
(Single Window)**

**Private Cloud
(SBC)**

Project Background

Public Cloud
(Single Window)

Increase of
Logistics Cost
due to
Increased
Trade Volume

Unnecessary
Repetition of
Work (Import
Declaration and
Requirements
Application)

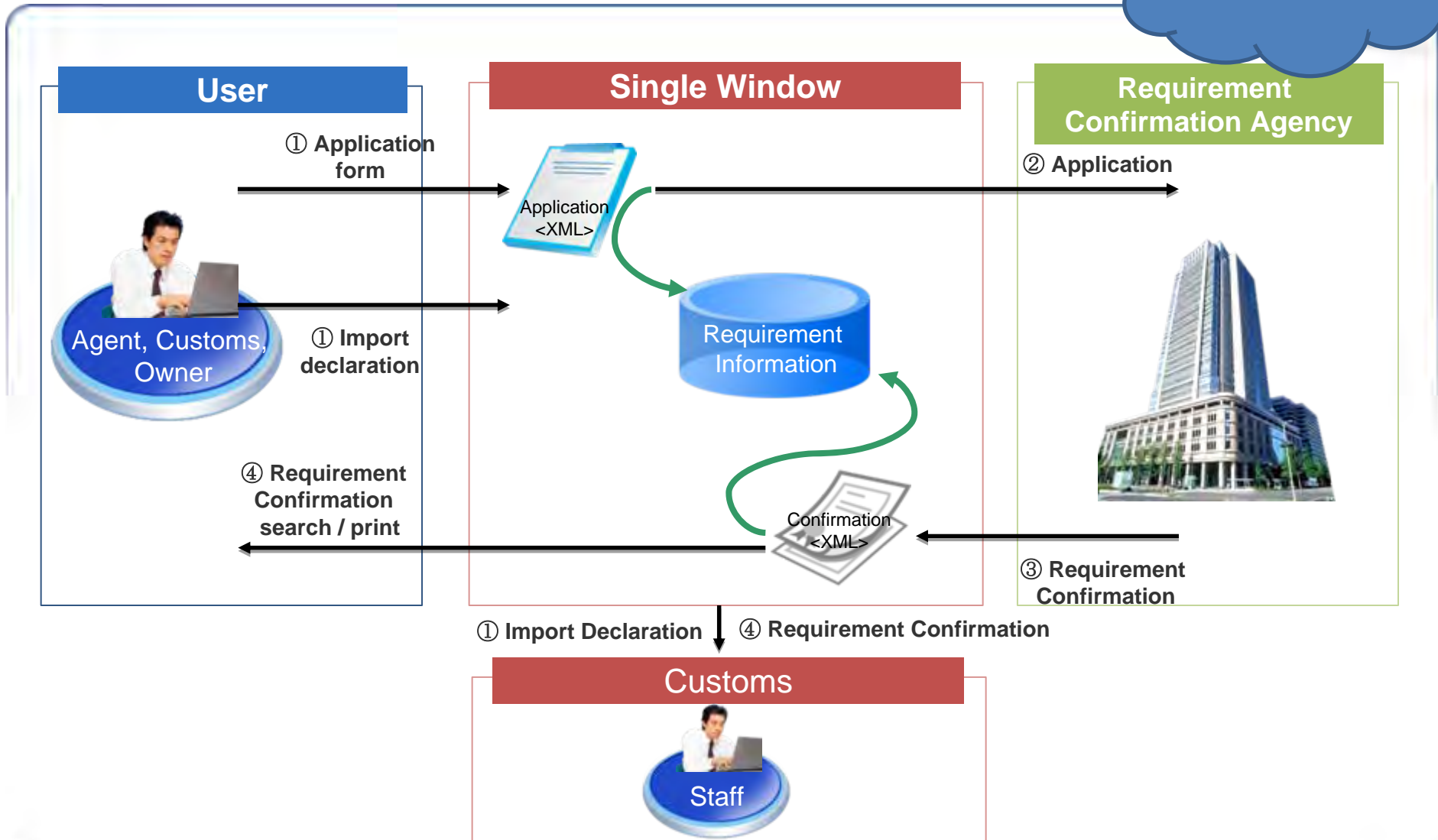
Manual Work
Processing of
Confirmation
Agencies

Effort to Simplify
Clearance Process

Launch of 『**Single Window**』 project
for One-Stop processing of information

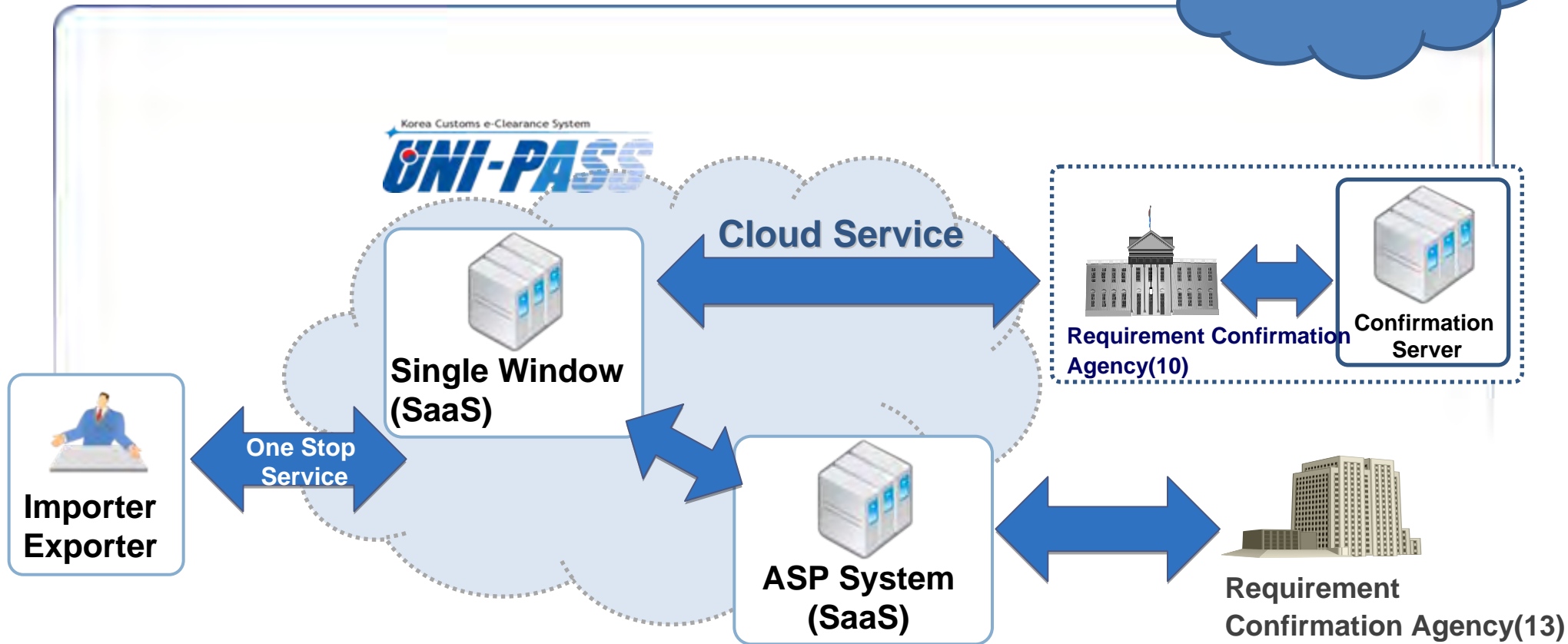
Work Process

Public Cloud
(Single Window)



SaaS (Software as a Service)

Public Cloud
(Single Window)



- ASP System : provides requirements confirmation SaaS for requirements confirmation agencies.

Application Effects

Public Cloud
(Single Window)



Standardization

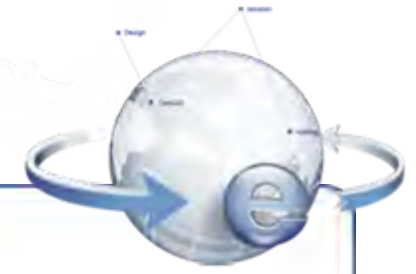
**Improvement of Scalability and Flexibility through
Platform Unification and Integration of Infrastructure**



**Economic
Effects**

**Reduction of System Development, Management and
Operation Cost**

→ 13billion USD / 1 year



Korea Customs e-Clearance System



Cloud Service

Public Cloud
(Single Window)

Private Cloud
(SBC)



Project Background

Private Cloud
(SBC)

Enterprises are using several security solutions for information protection, but circuitous leakage routes targeting PCs are being detected continuously.

Hackers Crack Cyberspace
THE KOREA TIMES 기사입력 2008-01-12 19:09 | 최종수정 2008-01-12 19:09

Increasing Hacking in Korea

Year	Number of Hacking Incidents
'96	158
'99	572
'00	1,943
'01	5,333
'02	15,192
'03	26,179

Source: KISA

Staff ReporterThe sprawling Korea is the pride of the nation with 45 million households connected to the Internet, marking the world's largest. However, the world-entitled generation has become more ubiquitous. According to statistics from the Information Security Agency (KISA), domestic hacking...

Retired FSS staff banned from working at banks
2011-05-25 17:55

Latest News Report: Ronaldo set to announce...

The Financial Supervisory Service on Wednesday decided to ban its staff from taking senior posts at financial companies right after their retirement way to prevent corruption.

The decision came as part of its sweeping reform measures following several incumbent FSS staffers' wrongdoings.

In its statement, the regulatory body said it would ban the habitual practice under which incumbent and former staffers were recommended as auditors at banks or brokerage firms.

"We will completely eliminate the practice. In addition to stopping our recommendation practice, we plan to select the best of calls from financial...

Press Release

Implication

PC is highly vulnerable to information leakage

SBC (Server Based Computing)

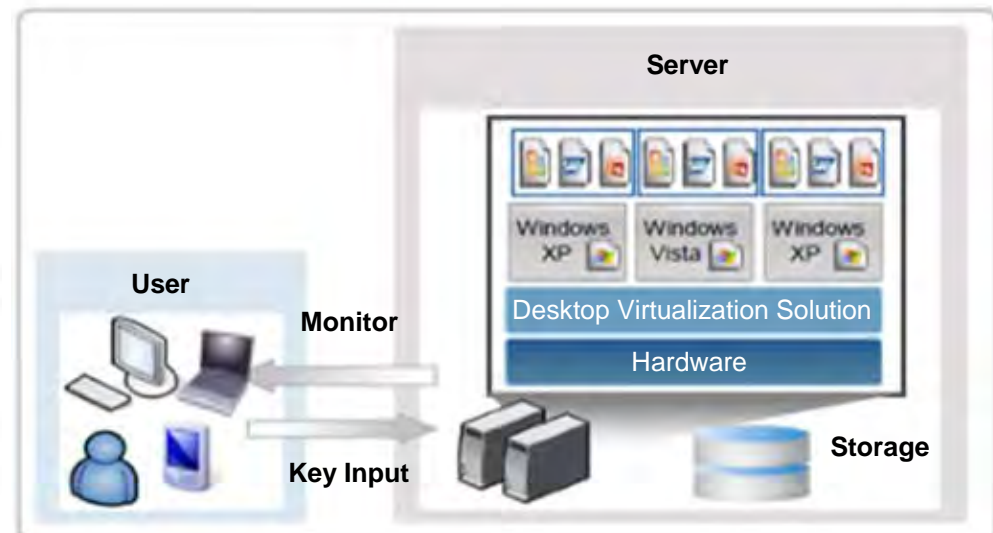
Private Cloud
(SBC)

▶ PC Environment



- Creation/management of important Data done by PC
- Requires regular update management of illegal S/W

▶ Desktop Virtualization



- Data creation/management by server, PC Download is done according to policy
- Work environment standardization and central management possible

SBC (Server Based Computing)

Private Cloud
(SBC)

Software and Data required for the Server is Provided
the User PC is only used as in/out-put device.

Users

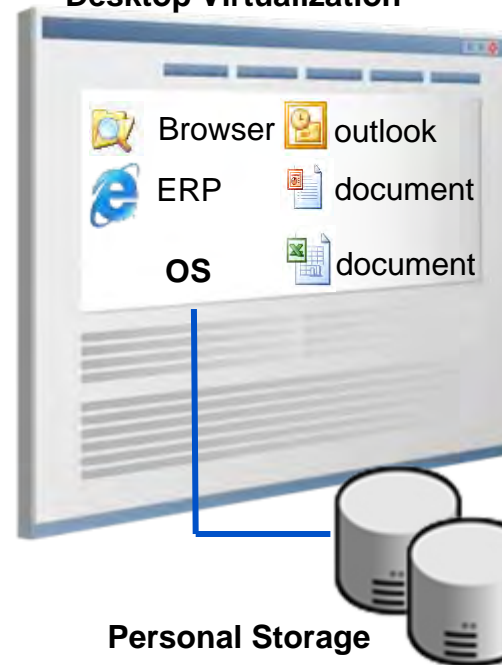


LAN/WAN



- Import/Export Audit
- Cargo Audit
- Requirement Confirmation Audit
- Operation / Maintenance

Application Virtualization
Desktop Virtualization



LAN

Groupware, Portal

Internal Work

Fundamental
Prevention of
Info Leakage

Ease of
Post-Tracking

Protection of
Internal Sources
from Viruses

Support of
Diverse Work
Environment

Application Effect

Private Cloud
(SBC)



Security

Possibility of internal/external information leakage minimized due to fundamental blocking of data storage in PC



Various Work
Environment

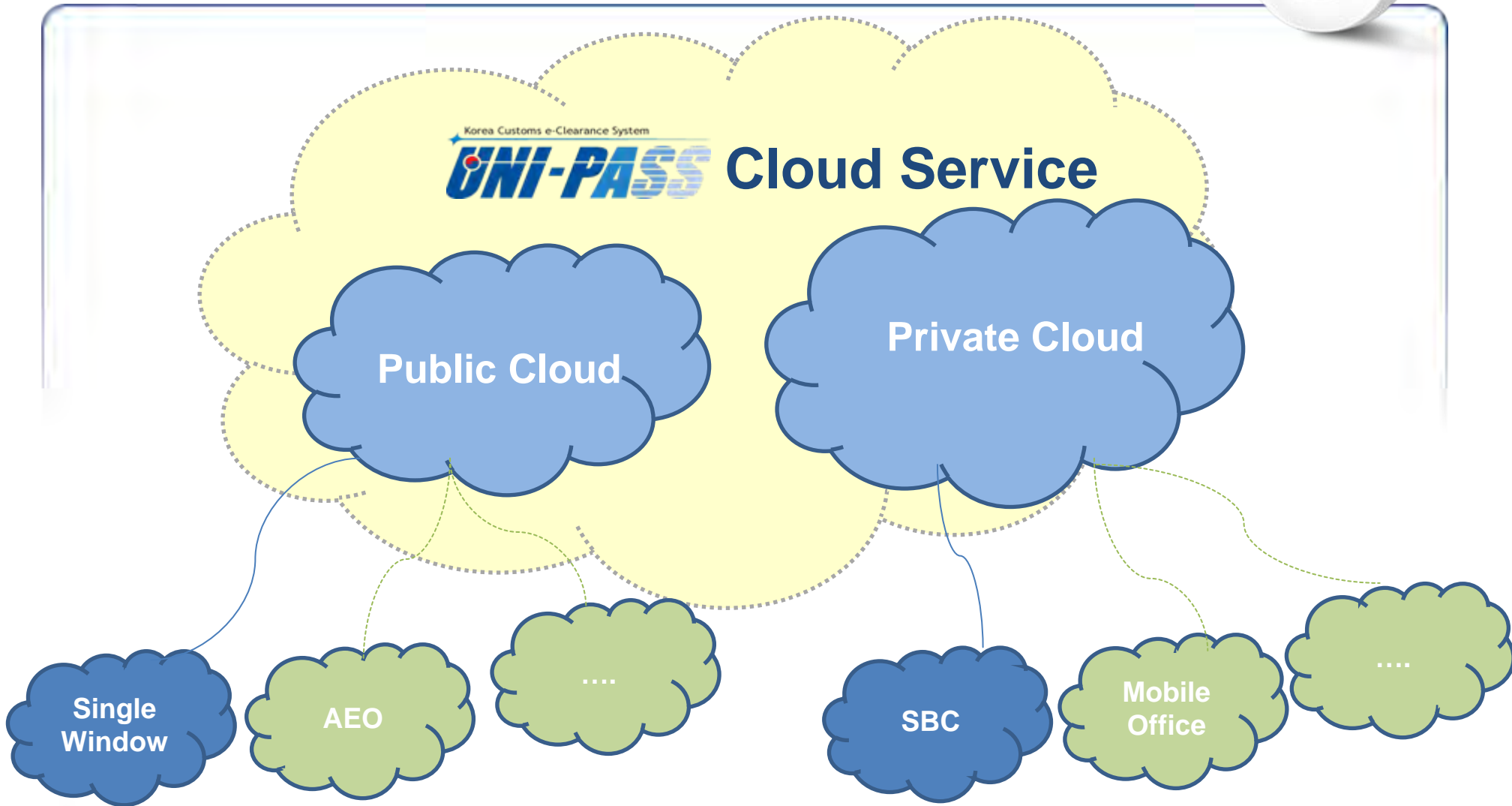
Connection environment for data equipment(Smart Phone, PDA, etc) is provided for easy use by remote officer, traveling officer

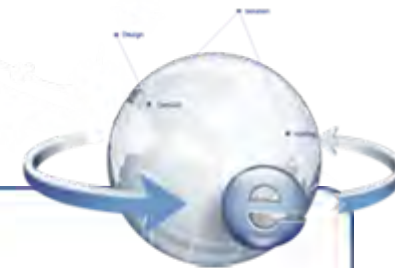


Economic

Reduction of Equipment Operation Cost through Unification of Data Processing Equipment
→ 2.6 billion USD/year

Future Development Direction





Thank You !

Q & A