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# DHS Cloud Strategy and Trade Nexus

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May 2011

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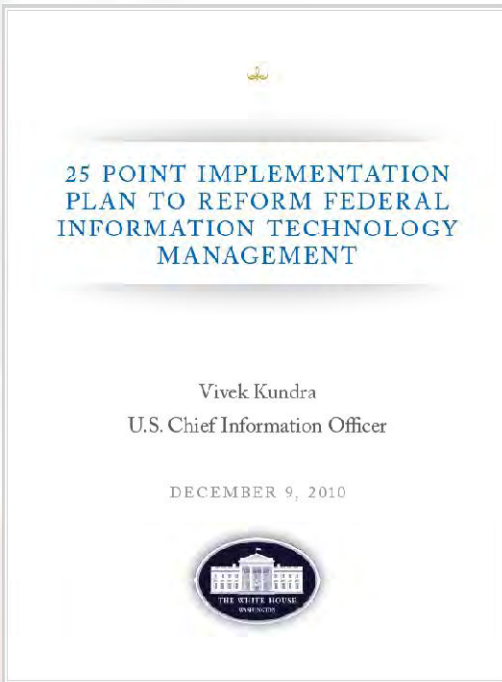
Homeland  
Security

# IT Reform @ DHS

Federal Plan

Departmental Plan

IT Reform @ DHS



Action Item	Owner(s)	< 6 mos.	6-12 mos.	12-18 mos.	DHS	Component
Achieving Operational Efficiency						
1 Complete detailed implementation plans to consolidate 80 data centers by 2015	OMB, Agencies	•				
2 Create a government-wide marketplace for data center availability	OMB, GSA		•			
3 Shift to a "Cloud First" policy	OMB, Agencies	•				
4 Stand-up contract vehicles for secure IaaS solutions	GSA	•				
5 Stand-up contract vehicles for "commodity" services	GSA	•				
6 Develop a strategy for shared services	Federal CIO	•				
Effectively Managing Large-Scale IT Programs						
7 Design a formal IT program management career path	OPM, OMB	•				
8 Scale IT program management career path	OPM, Agencies		•			
9 Require Integrated Program Teams	OMB	•				
10 Launch a best practices collaboration platform	Federal CIO Council	•				
11 Launch technology fellows program	Federal CIO		•			
12 Enable IT program manager mobility across government and industry	OMB, CIO Council, OPM		•			
13 Design and develop cadre of specialized IT acquisition professionals	OMB, Agencies	•				
14 Identify IT acquisition best practices and adopt government-wide	OFPP	•				
15 Issue contracting guidance and templates to support modular development	OFPP		•			
16 Reduce barriers to entry for small innovative technology companies	SBA, GSA, OFPP			•		
17 Work with Congress to create IT budget models that align with modular development	OMB, Agencies		•			
18 Develop supporting materials and guidance for flexible IT budget models	OMB, CFO Council, CIO Council			•		
19 Work with Congress to scale flexible IT budget models more broadly	OMB, Agencies			•		
20 Work with Congress to consolidate Commodity IT spending under Agency CIO	OMB, Agencies	•				
21 Reform and strengthen Investment Review Boards	OMB, Agencies	•				
22 Redefine role of Agency CIOs and Federal CIO Council	Federal CIO, Agency CIOs	•				
23 Rollout "TechStat" model at bureau-level	Agency CIOs			•		
24 Launch "myth-busters" education campaign	OFPP	•				
25 Launch an interactive platform for pre-RFP agency-industry collaboration	GSA	•				

Cloud First

Rationalize IT Infrastructure

Governance & Best Practices

**"Shift to a "Cloud First" policy"**



Homeland Security

# Private and Public Cloud Services

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## **DHS Private Cloud Attributes**

- 1. Services Based**
- 2. Multi Tenant**
- 3. Pay Per Use**
- 4. Scalable and Elastic**
- 5. Access**
- 6. Compliant**

## **DHS Cloud Services (Private/Public)**

- 1. Software as a Service (SaaS)**
- 2. Platform as a Service (PaaS)**
- 3. Infrastructure as a Service (IaaS)**
- 4. Consulting as a Service (Caas)**



# Data Segmentation – Pivot Point

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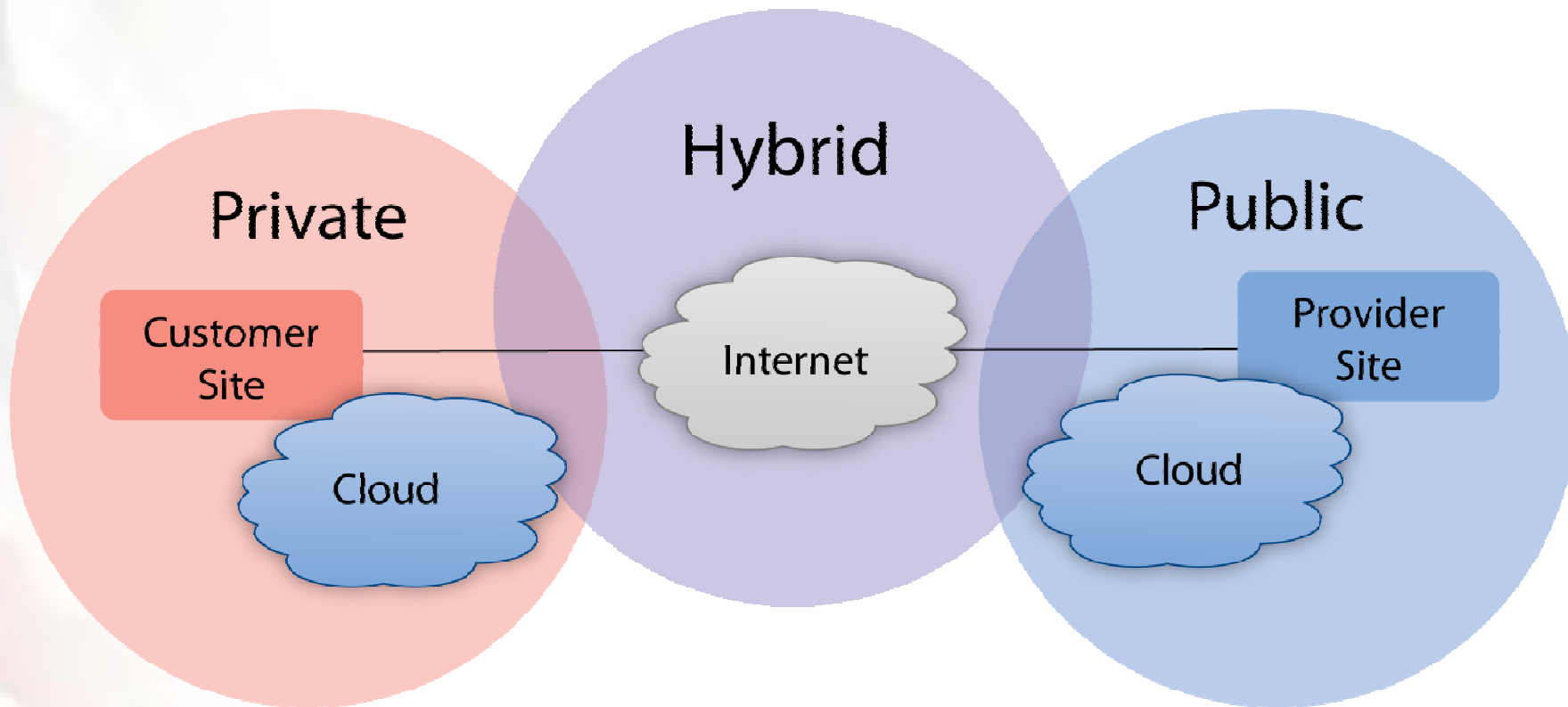


- Must Align the Right Data Segmentation to the Right Cloud Model
- Must meet Security and Certification requirements

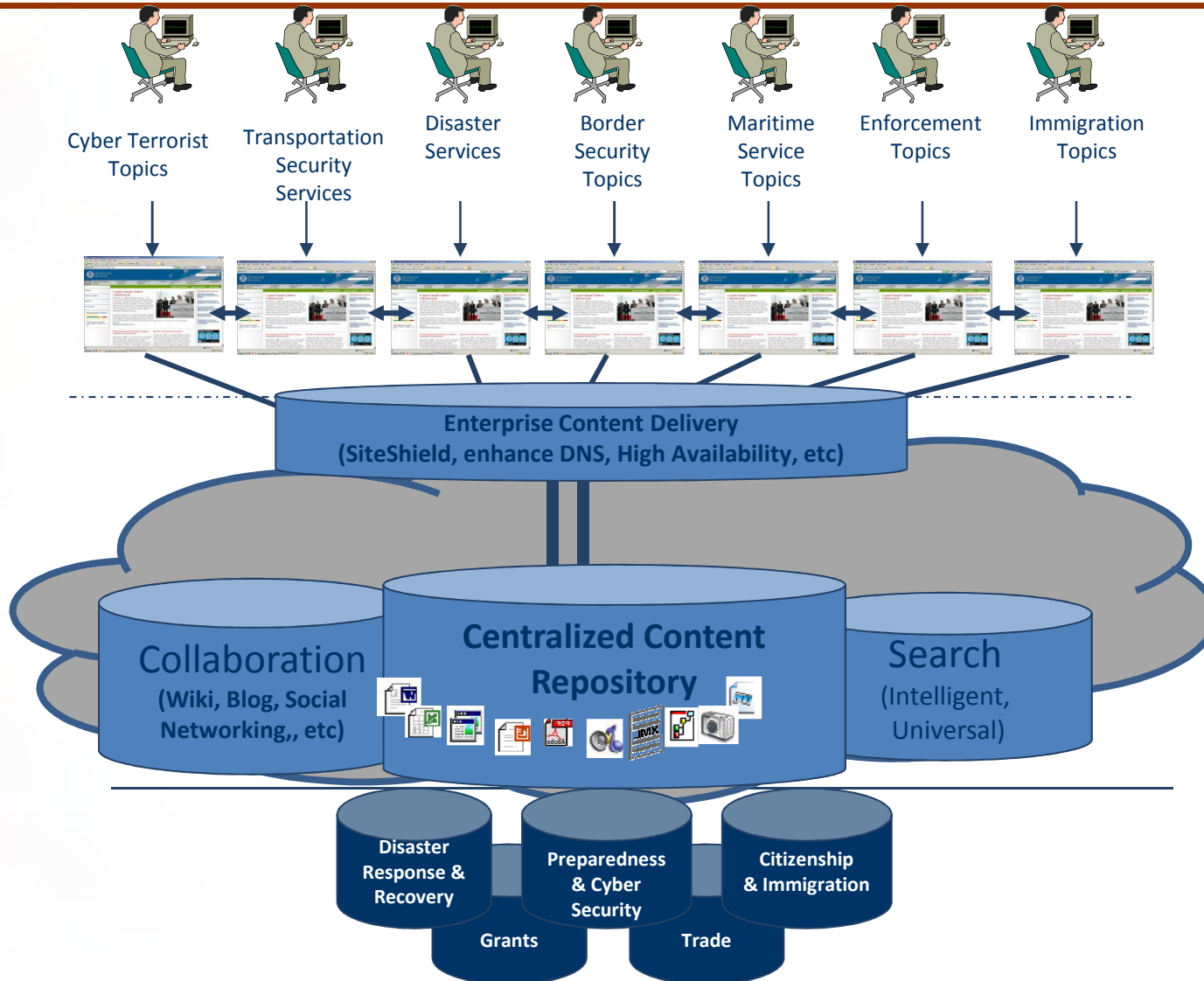


# Cloud Models

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# DHS Public Cloud Vision



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# Challenges for Hosting Sensitive TRADE Applications

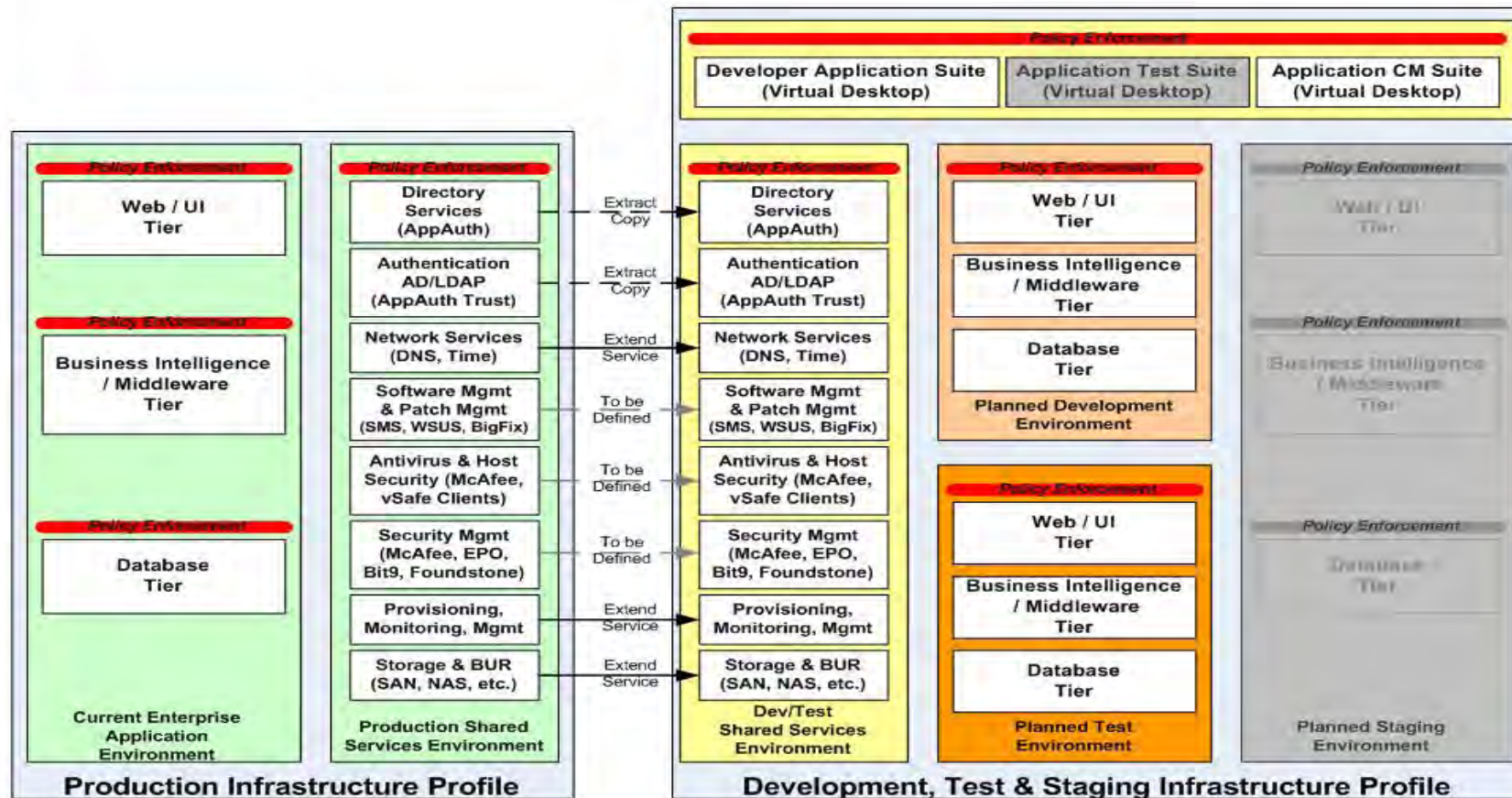
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- Security And Privacy
- Access Controls and Data Segregation
- Compliance
- Logs and audit trails
- Business continuity and disaster recovery



# DHS Private Cloud: Infrastructure as a Service

## DHS OCIO/ITSO & OCIO/ESDO Development, Test, Staging & Production Infrastructure Profile



Filename: 20100303\_ESDO Dev Test Staging Infrastructure Configuration v10.vsd  
 Page: ESDO Infrastructure Service Profile  
 Last Edit Date: 3/11/2010

Department of Homeland Security  
 OCIO/ESDO

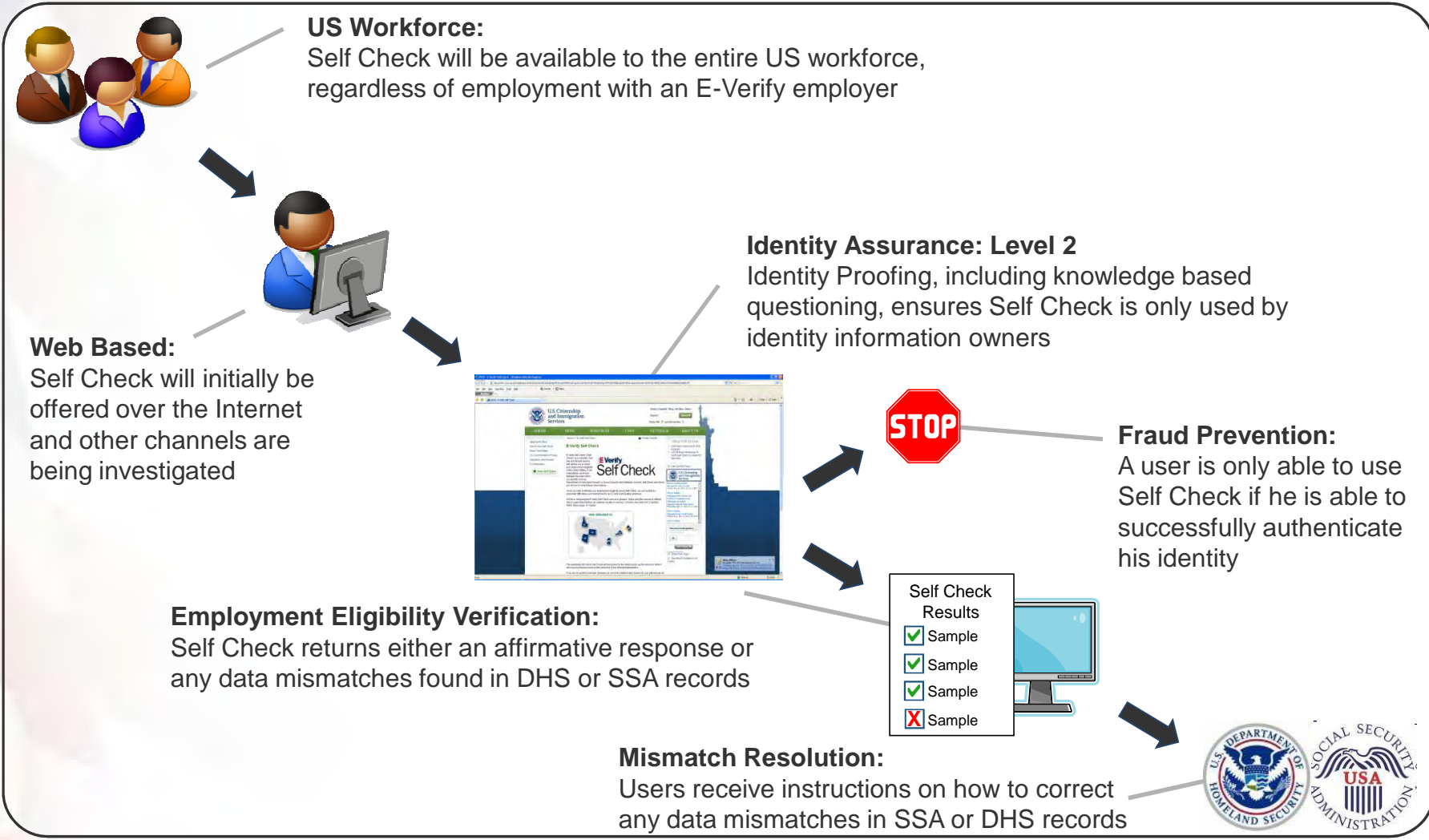
Created: Keith McCloskey (June 09)  
 Updated: Keith McCloskey (July 24, 2009)



Homeland Security



# Self Check: Identity Proofing in the Cloud



Homeland Security



# Norbert Kouwenhoven

IBM Global Customs Solutions Leader  
WCO Conference, May 11th, 2011



# Cloud Strategies and Solutions for Customs:

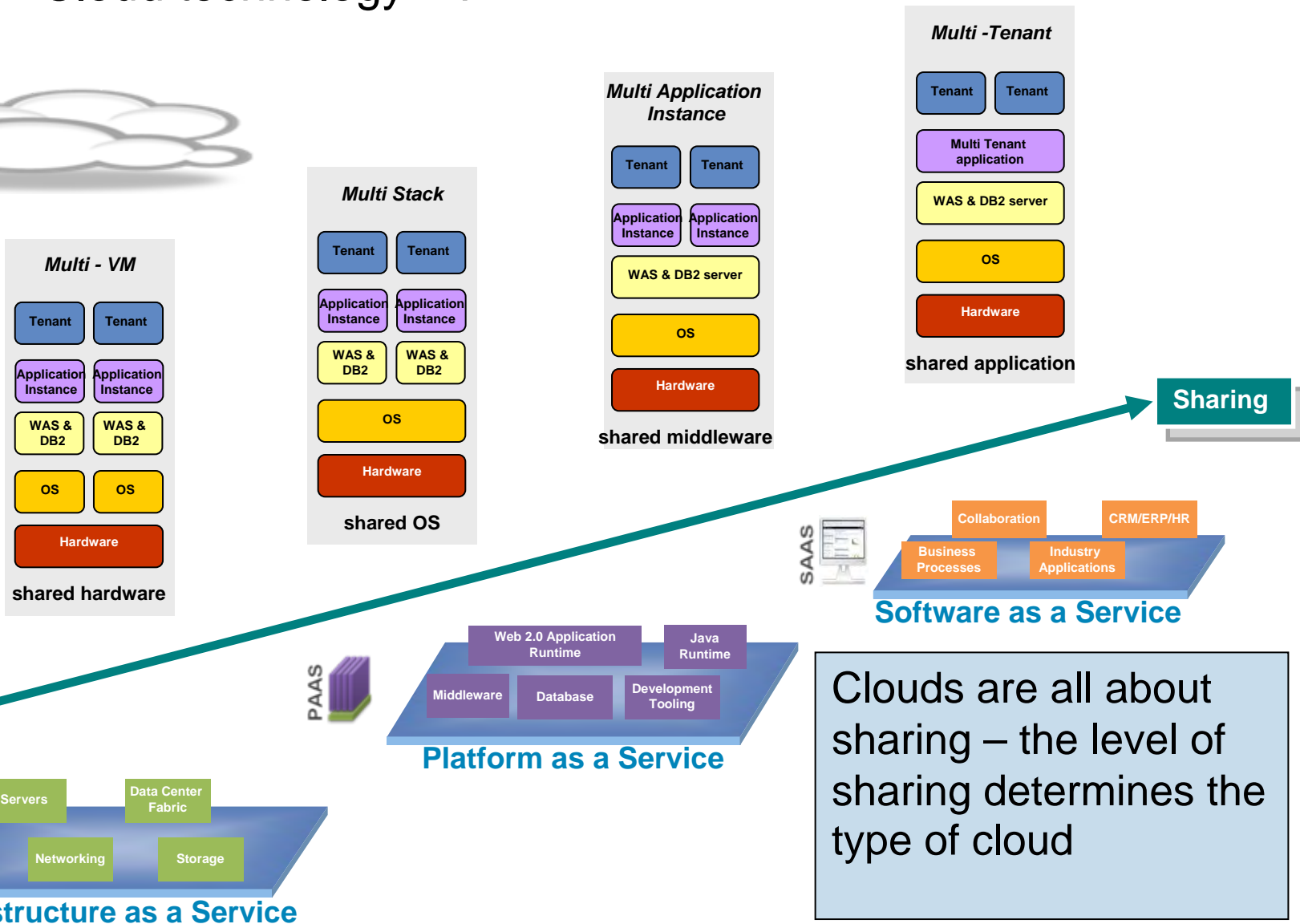
***From smoke to cloud .....***



An IBM point of view

WCO conference  
May 11th, 2011  
Norbert Kouwenhoven

# What is Cloud technology ?

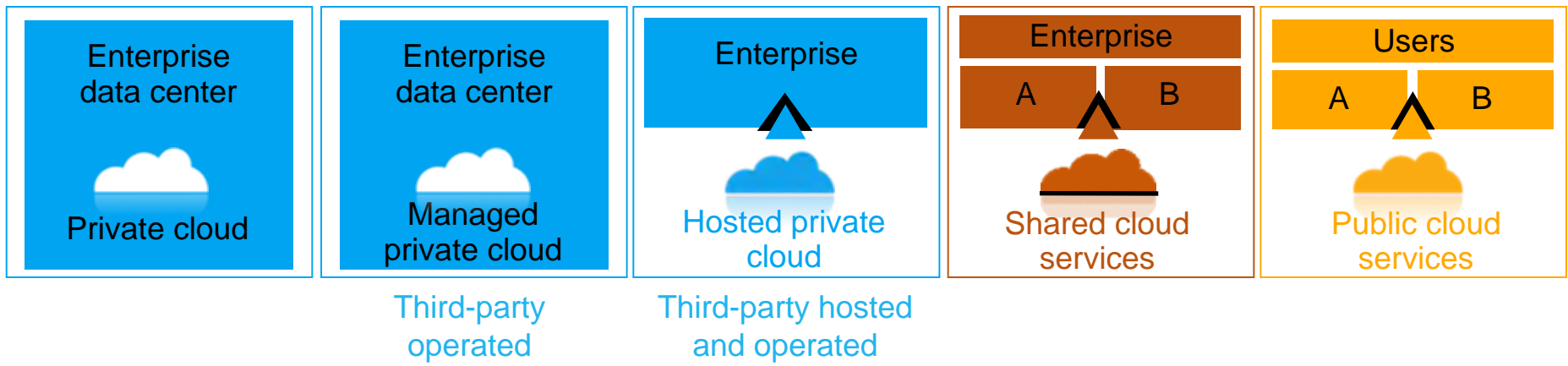


# What about Private and Public cloud?

The spectrum of deployment options for cloud computing:

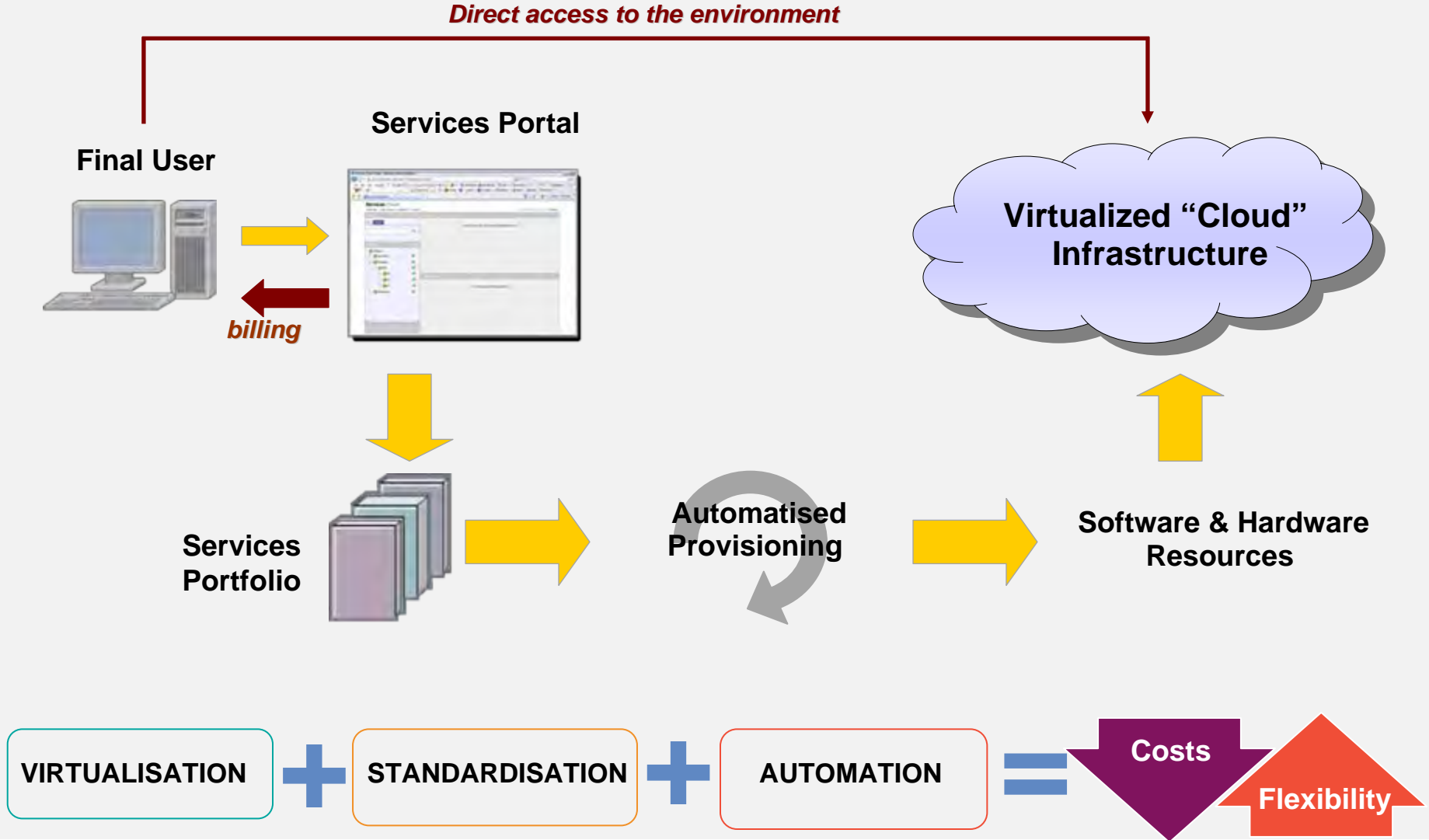
**Private**  
IT capabilities are provided “as a service,” over an intranet, within the enterprise and behind the firewall

**Public**  
IT activities / functions are provided “as a service,” over the Internet



**Hybrid**  
Internal and external service delivery methods are integrated

# How does Cloud “work”?



# Ask yourself what **you** would do if...

... you could give any of your clients (traders, LSPs,...) access to any of your services anytime, anywhere, by any means?

... you had on demand access to unlimited computing and analytics power?

... you could easily and seamlessly connect and collaborate with businesses and government organizations wherever they happened to be?

... you could inexpensively and rapidly develop and experiment with new services?

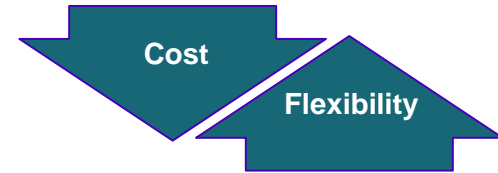
VIRTUALIZATION



AUTOMATION



STANDARDIZATION



## So what's your cloud strategy?

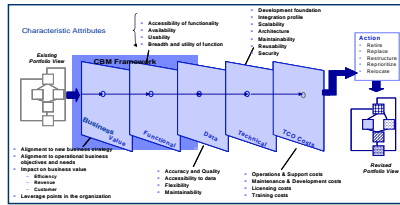
# How to develop & implement your own strategy?

## Analysis & Vision



Cloud Strategy Outline

## Strategy Design



Cloud Services Prioritization

## Strategic Roadmap

ID	BY WHEN	DESCRIPTION	STATUS	START DATE	END DATE	START DATE	END DATE	START DATE	END DATE
001	Q1 2012	Implement cloud-based HR system	Completed	2011-01-01	2011-03-31	2011-01-01	2011-03-31	2011-01-01	2011-03-31
002	Q2 2012	Implement cloud-based CRM system	In Progress	2011-04-01	2011-06-30	2011-04-01	2011-06-30	2011-04-01	2011-06-30
003	Q3 2012	Implement cloud-based ERP system	Planned	2011-07-01	2011-09-30	2011-07-01	2011-09-30	2011-07-01	2011-09-30

Business Case

Execute



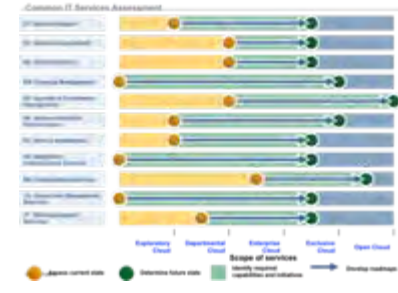
Cloud Readiness Report

±3 weeks



Cloud Strategy

± 4 weeks



Cloud Migration Roadmap

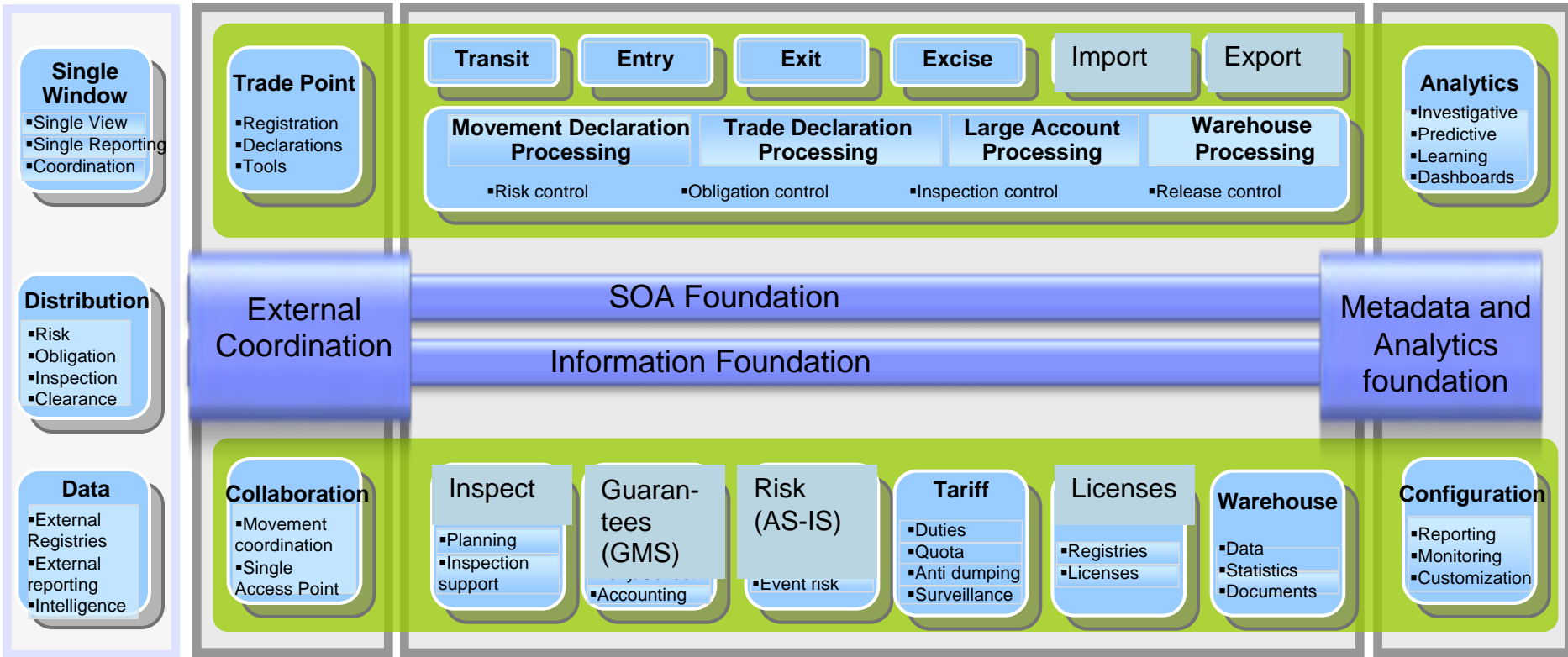
±3 weeks

## IBM Cloud Strategy Method





# eCustoms Framework



# Private cloud : Suitable for components with major national customizations or high security requirements, e.g.:

**Single Window**

- Single View
- Single Reporting
- Coordination

**Trade Point**

- Registration
- Declarations
- Tools

Transit    Entry    Exit    Excise    **Import**    **Export**

**Analytics**

- Investigative
- Predictive
- Learning
- Dashboards

**Distribution**

- Risk
- Obligation
- Inspection
- Clearance

**External Coordination**

Three types of private cloud:

- **Private cloud:** Private, implemented on your premises, you run/manage it
- **Managed private cloud:** Third-party operated, owned by you, mission critical, packaged applications
- **Hosted private cloud:** Third-party owned and operated, standardization, centralization, security, internal network

**Metadata and Analytics foundation**

**Data**

- External Registries
- External reporting
- Intelligence

**Collaboration**

- Movement coordination
- Single Access Point

**Inspect**

- Planning
- Inspection support

**Guarantees (GMS)**

- Accounting

**Risk (AS-IS)**

- Event risk

**Tariff**

- Duties
- Quota
- Anti dumping
- Surveillance

**Licenses**

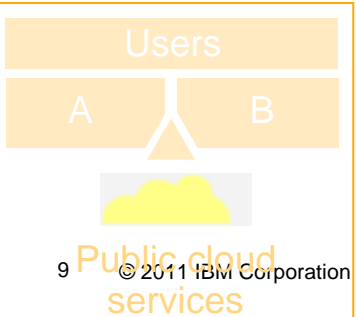
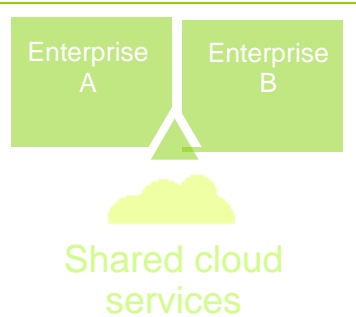
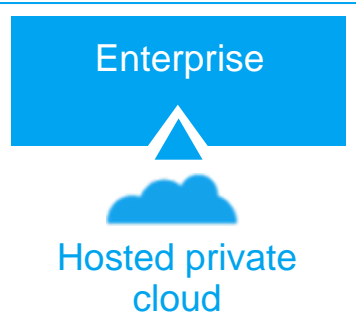
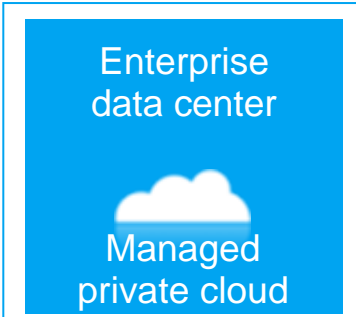
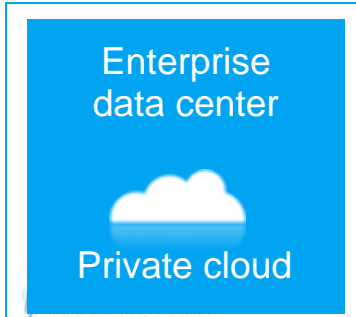
- Registries
- Licenses

**Warehouse**

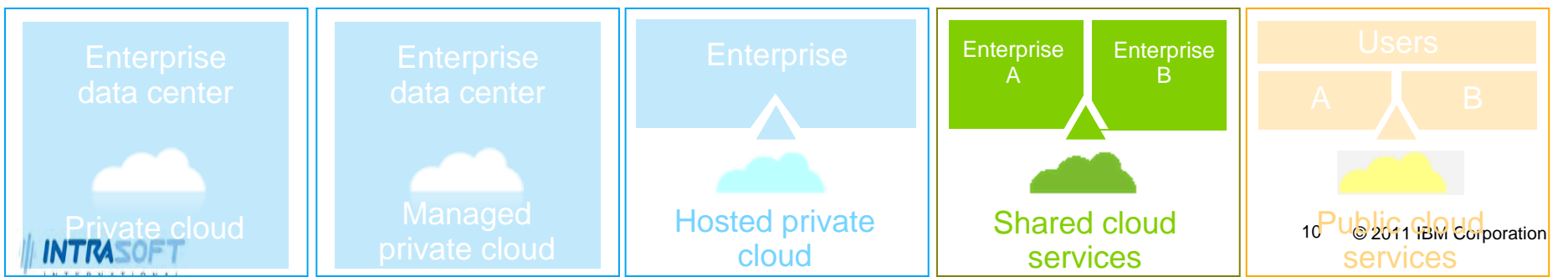
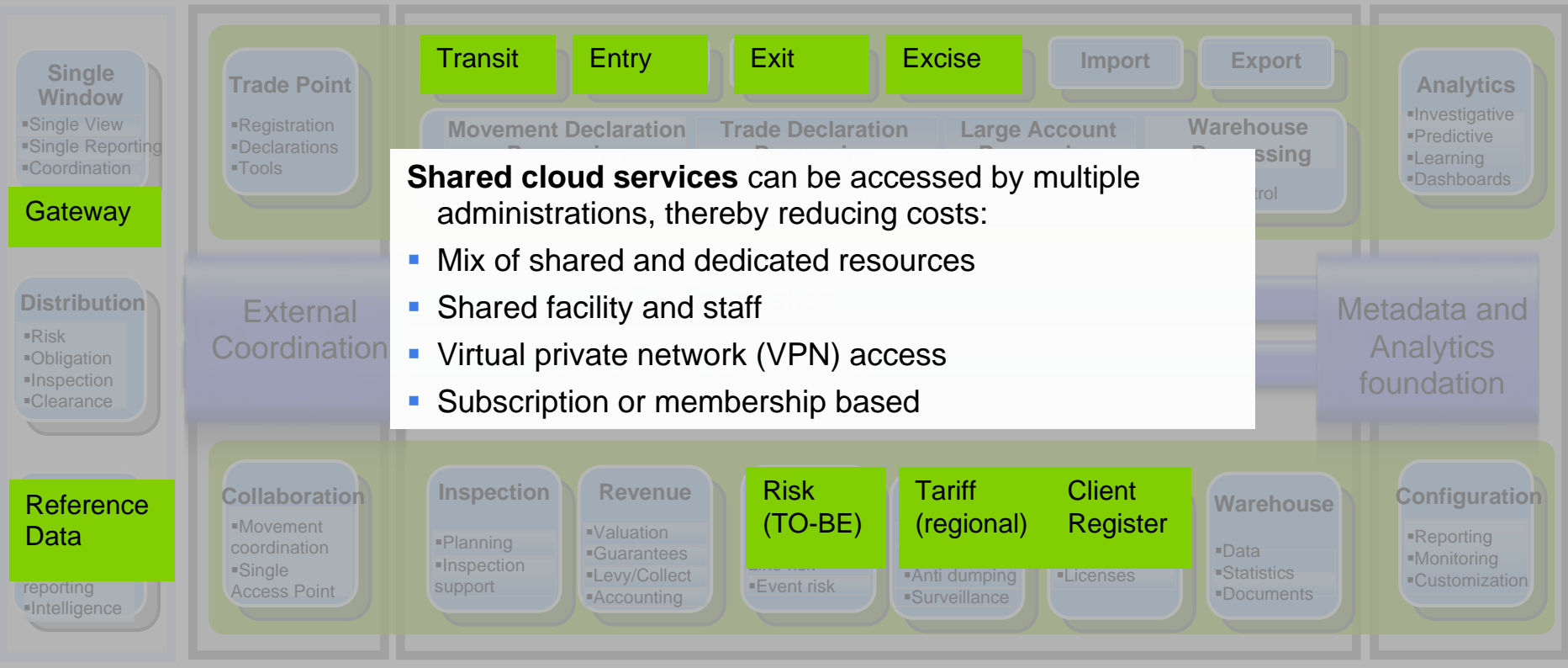
- Data
- Statistics
- Documents

**Configuration**

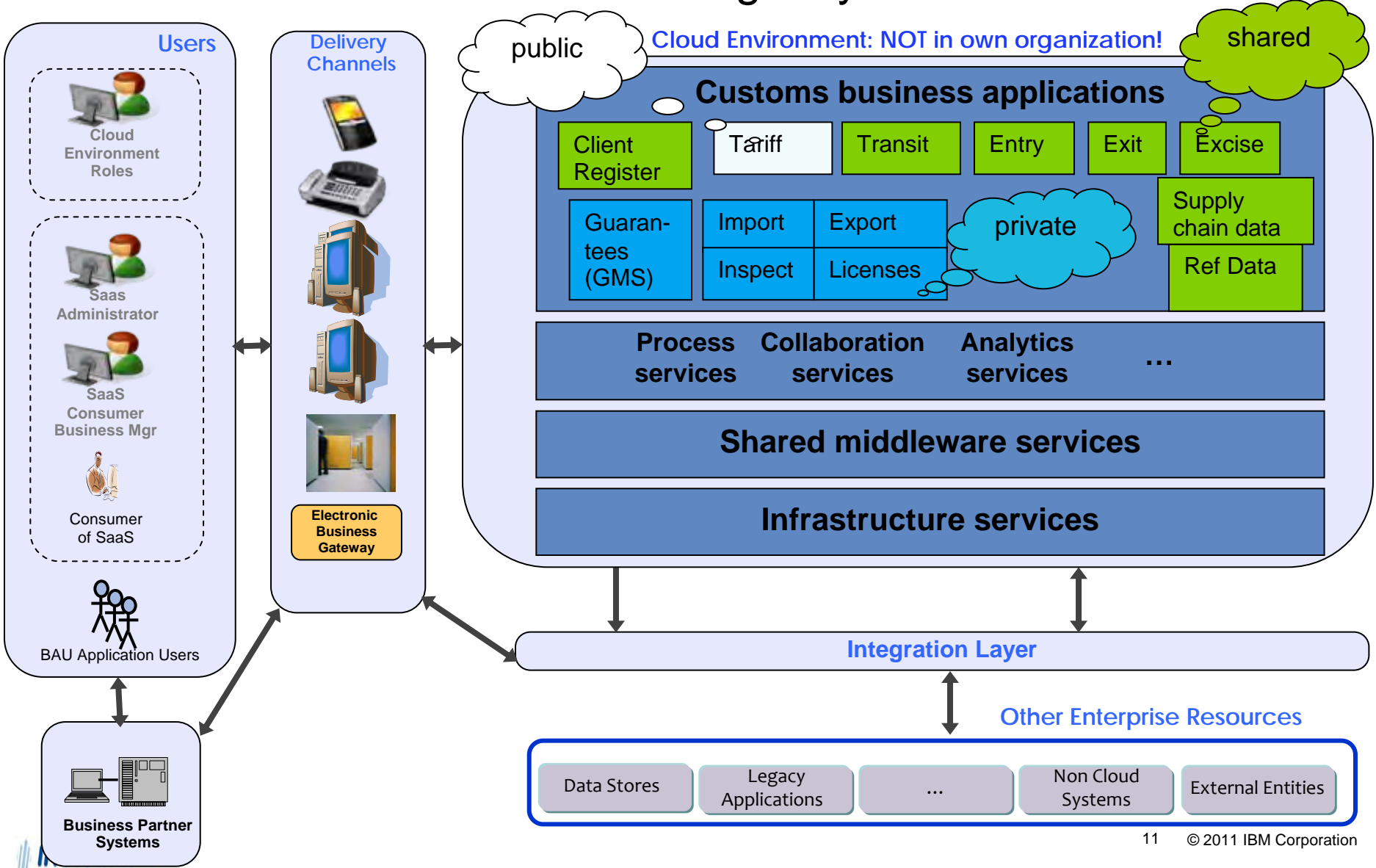
- Reporting
- Monitoring
- Customization



# Shared Cloud: Suitable for economic regions with standardized customs business processes, e.g.:



# What will tomorrow's Customs Agency CIO see?



# Call for Action:

**3 ideas for immediate implementation**

# TARIFF-online on a Public Cloud: 27 European Member States implement the same Integrated Tariff of the European Communities

## Business Challenge

- TARIFF comprises all customs duty rates and certain EU rules applicable to the EU's external trade. National extension adds national taxes
- 27 countries need the same business application. No high security requirements, as the database can be accessed by traders online.

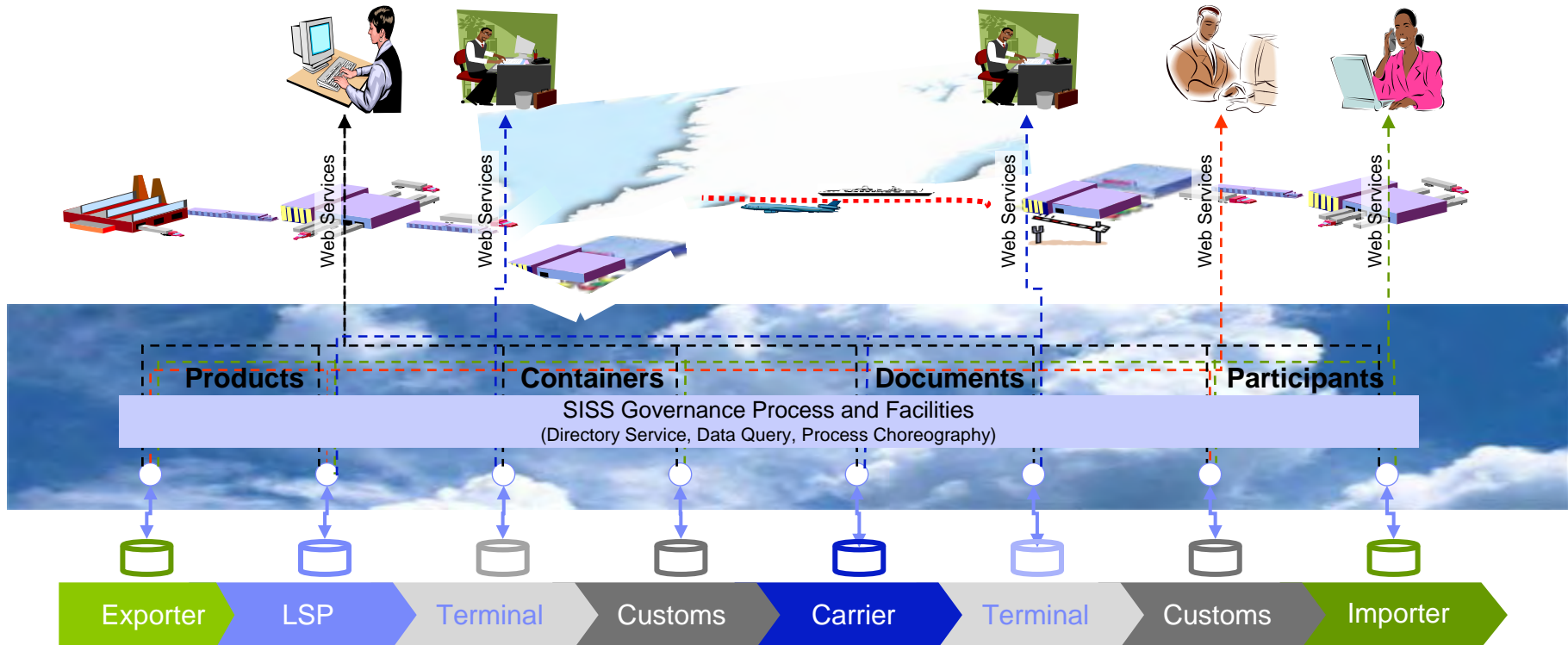
## What you want

- Be compliant with EU requirements
- TARIFF data management
- Support for traders
- Reduce IT costs (application development, maintenance, personnel)
- Know what it will cost
- Fast Return on Investment

## Our cloud offering provides a solution

- TARIFF database as a shared cloud service for multiple customs administrations
  - Query duty data & calculate duties
- EU compliant, including updates (new releases)
- Outsource tariff data management
- National measures can be added through web interface
- Flexibility in pricing: fixed price or pay per use
- No investment in ADM and infrastructure. Countries share costs of standardized application.
- Fast deployment, no development cycle
- Option: public cloud, also accessible to traders
- Same service for quota handling and surveillance reporting (statistics)

# Shipment Information Sharing Service on Shared Private Cloud: SISS to realize the Authorized Supply Chain (secure trade lanes)



Supply chain partners and government share end-to-end supply chain information of authorized supply chains. Standardized information services are available for all authorized parties via a cloud

# Risk Assessment on a Private Cloud, in a world of distributed information sources and a plethora of threats

## Business Challenge

- Risk assessment is characterized by a large variety of information sources and dynamic world requiring constant learning and regular changes of risk profiles
- Risk management techniques are highly sophisticated, and self development is complex and expensive
- COTS solutions exist on the market

## What you want

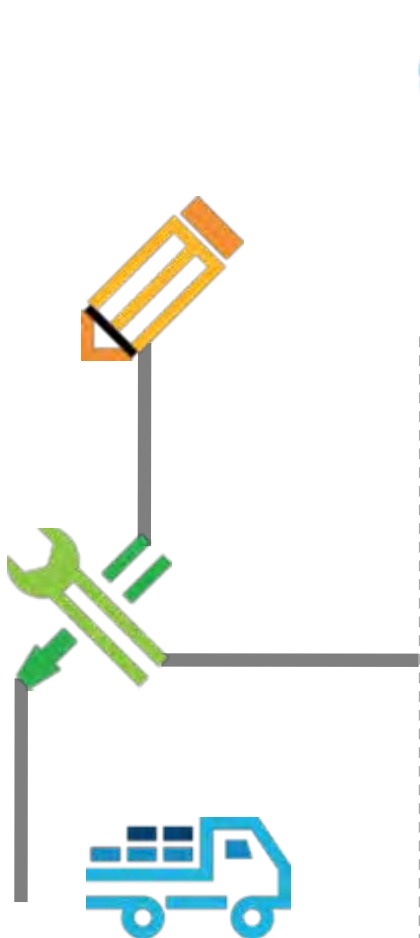
- Identify risks on time
- Learning cycle
- A risk management system that handles information from multiple sources of various organizations (e.g., customs, police)
- Secure data

## Our cloud offering provides a solution

- Standardized risk assessment service
- As a private cloud service for your administration
- Tailored to your administration's situation
  - Option: Initial set of risk profiles
  - Flexibility: Manage your own risk profiles
- Security is guaranteed
  - Private cloud (either on your premises, or on ours)
  - Security services
- No investment in ADM and infrastructure. Countries share costs of standardized application.
- Fast deployment, no development cycle. No need to re-invent the wheel



# What role can IBM play?



IBM provides a comprehensive set of capabilities to accelerate a client's "cloud journey":

- ▶ **Consulting and enabling services**

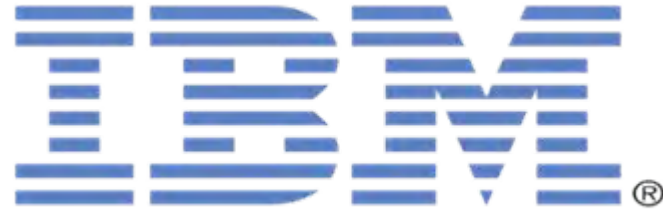
Experience and expertise to help plan, build and deliver cloud services

- ▶ **Cloud services**

To optimize your business

- ▶ **Technologies**

To plan, build, deliver and manage cloud services



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**For more information, please visit:**  
[ibm.com/cloud](http://ibm.com/cloud)



# Back-up slides

# What is “Cloud” technology ?



*Cloud computing is a model for enabling convenient, **on-demand network access** to a **shared pool of configurable** computing resources (e.g., networks, servers, storage, applications, and services) that can be **rapidly provided and released with minimal management effort** or service provider interaction.*

“Cloud” is:

- a **new consumption and delivery model** inspired by consumer Internet services.

“Cloud” enables:

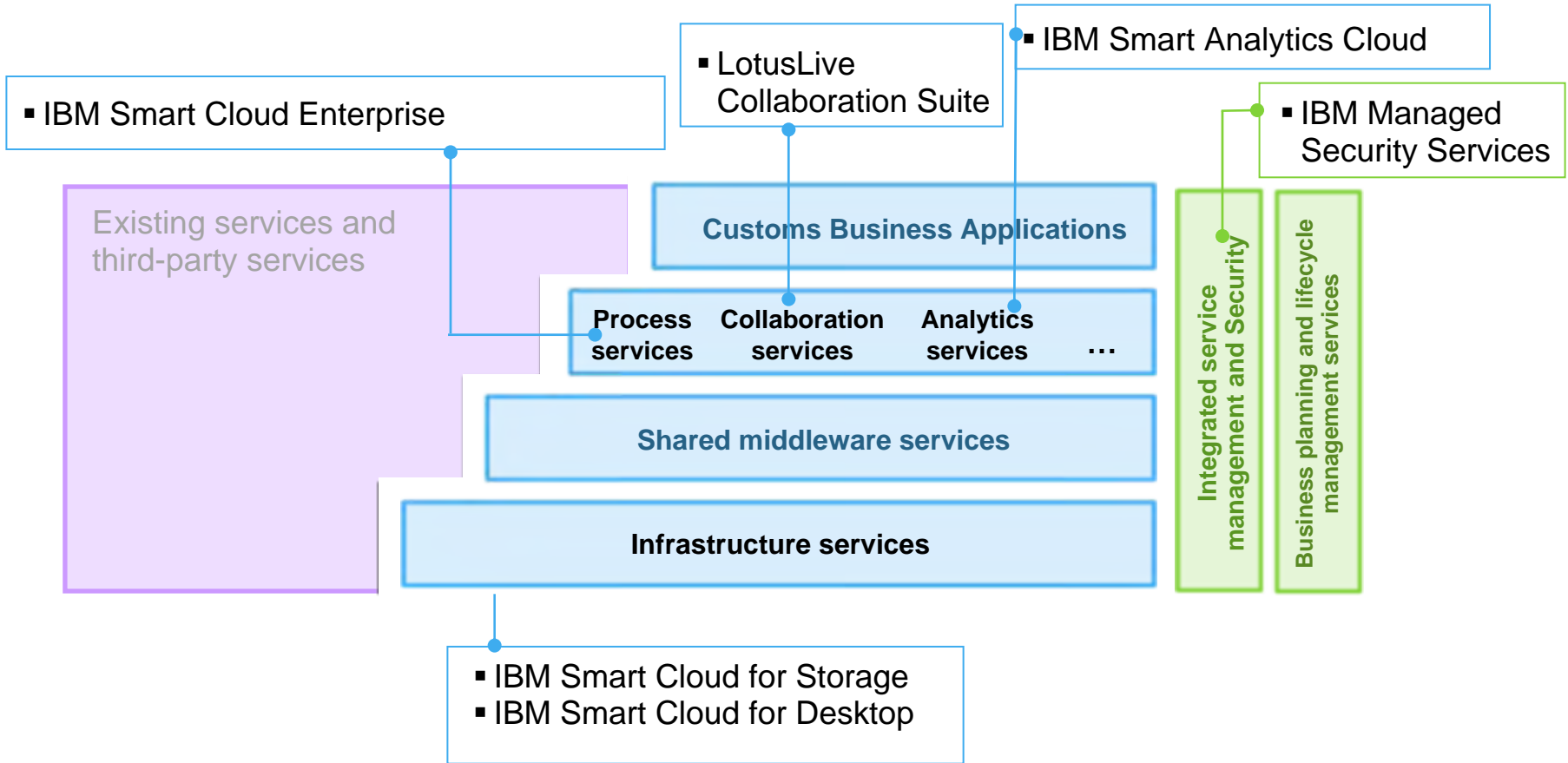
- Self-service
- Sourcing options
- Economies-of-scale

“Cloud” represents:

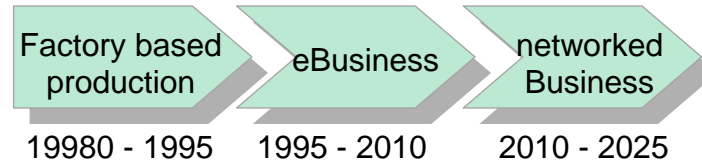
- The **industrialization** of **delivery** for IT supported **services**

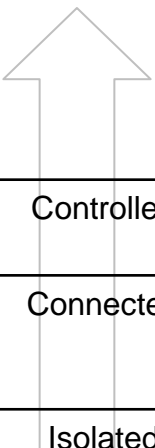

# Cloud solutions go far beyond Customs Business

Applications: desktop services, collaboration services and more



# Industry integration towards 'networked' business requires a cloud based platform

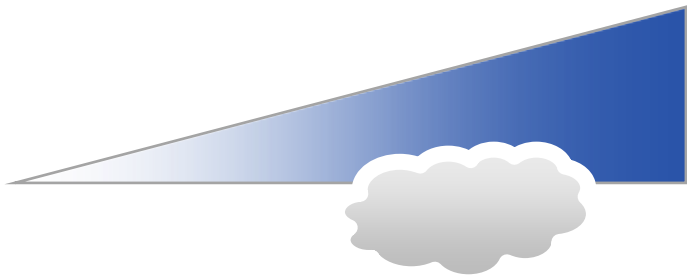


Maturity Level	Business operating environment	IT operating environment
Optimized 	'End to end' networks of optimized functions and information in trade and logistics communities	<b>Cloud based solutions provided by industry specific suppliers</b> 
Controlled	Distribution of business functions and information into the network	Modular systems with a mix of internal and external suppliers
Connected	Coordination of trade/movement information between partners	Common parts appearing in systems
Isolated	One on one' exchange of trade/movement information between trade, logistics and government parties.	Silo based IT systems aimed at specific types of business flows and regimes.

# Cloud: Doing more with less, with reduced risk, higher quality and maximum business flexibility

Capability	From	To
Server/Storage Utilization	10-20%	70-90%
Self service	None	Unlimited
Test Provisioning	Weeks	Minutes
Change Management	Months	Days/Hours
Release Management	Weeks	Minutes
Metering/Billing	Fixed cost model	Granular
Payback period for new services	Years	Months

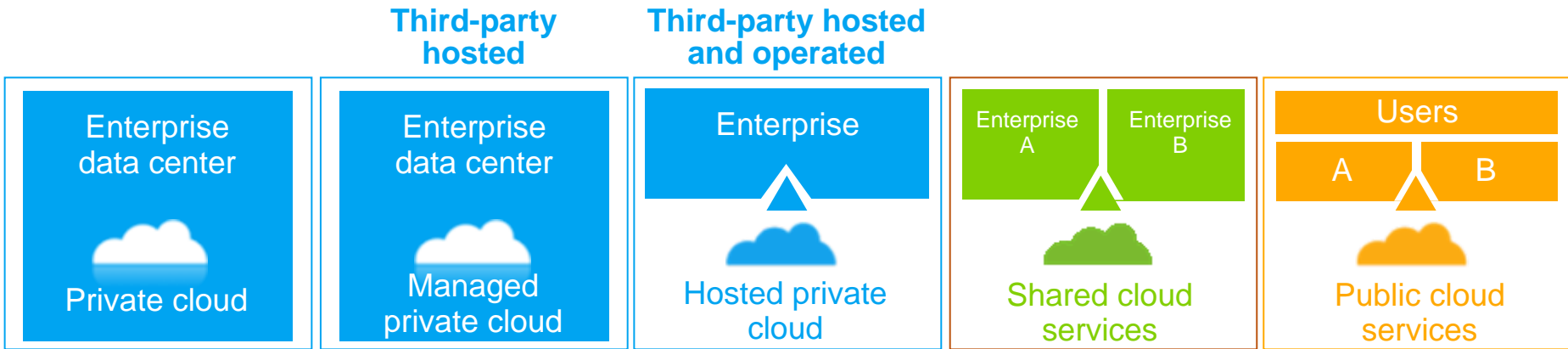
*Cloud is a synergistic fusion which accelerates business value across a wide variety of domains.*



Legacy environments

Cloud enabled enterprise

# There is a spectrum of deployment options



- Private
- Implemented on client premises
- Client runs/manages

- Third-party operated
- Enterprise owned
- Mission critical
- Packaged applications

- Third-party owned and operated
- Standardization
- Centralization
- Security
- Internal network

- Mix of shared and dedicated resources
- Shared facility and staff
- Virtual private network (VPN) access
- Subscription or membership based

- Shared resources
- Elastic scaling
- Pay as you go
- Public Internet



# Ready-to-consume cloud services from IBM



## IBM Smart Business on the IBM Cloud

Business processes	<ul style="list-style-type: none"> <li>• <b>BPM BlueWorks</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>IBM Smart Business Cloud for Expense Reporting</b></li> </ul>
Collaboration	<ul style="list-style-type: none"> <li>• <b>IBM LotusLive</b></li> </ul>	
Desktop and devices	<ul style="list-style-type: none"> <li>• <b>IBM Smart Business Cloud for Desktop</b></li> <li>• <b>IBM Smart Business End User Support</b></li> </ul>	
Development and test	<ul style="list-style-type: none"> <li>• <b>IBM Smart Business Cloud for Development and Test</b></li> </ul>	
Infrastructure compute	<ul style="list-style-type: none"> <li>• <b>Computing on Demand</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>IBM Managed Security Services</b></li> <li>• <b>IBM Tivoli Live</b></li> </ul>
Infrastructure storage	<ul style="list-style-type: none"> <li>• <b>IBM Information Protection Services</b></li> </ul>	
Software as a Service	<ul style="list-style-type: none"> <li>• <b>IBM WebSphere Application Server</b></li> <li>• <b>IBM WebSphere sMash</b></li> <li>• <b>IBM WebSphere Portal</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>IBM DB2</b></li> <li>• <b>IBM Informix Dynamic Server</b></li> <li>• <b>Lotus Domino</b></li> <li>• <b>Lotus Web Content Mgmt</b></li> </ul>



# Customs and the Cloud

## Demystifying the Cloud

World Customs Organisation ICT Conference 2011

Seattle, USA



accenture

*High performance. Delivered.*

# Jim Canham

Director

Global Customs Industry

Accenture

..... allows users – from citizens, traders, to departmental employees, to IT staff – to obtain computing **services** and capabilities through the internet, regardless of the users' physical **location**.

These services, from raw infrastructure to complete business processes can be purchased and delivered through web interfaces and turned **on and off** as required.

**Collaboration Demands?**

**Mobile Workforce?**

**Self Service?**

**Lengthy Procurement?**

**Budgetary Pressure?**

**Data Storage and Analysis?**

**Rising Infrastructure Costs?**

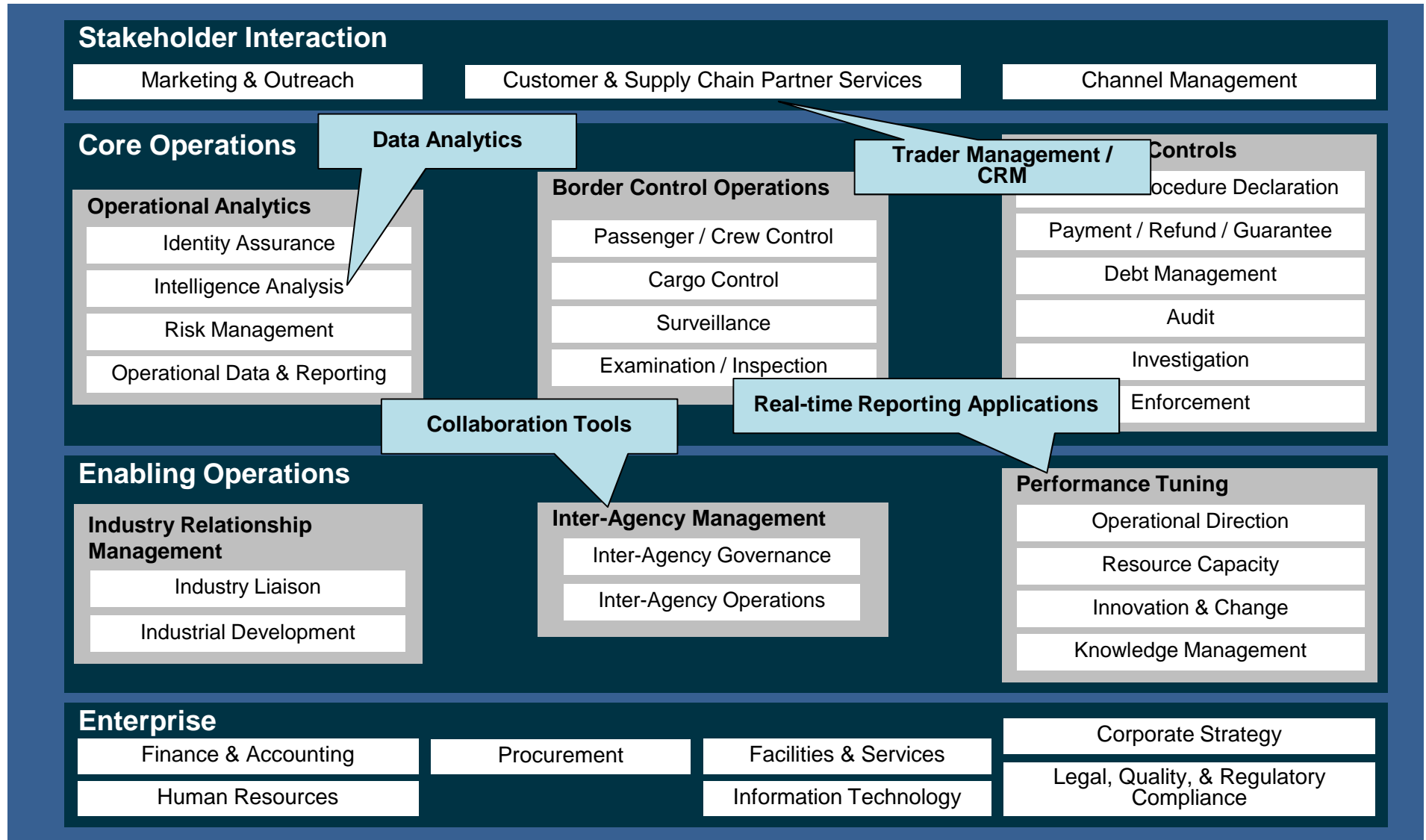
# Jim Canham

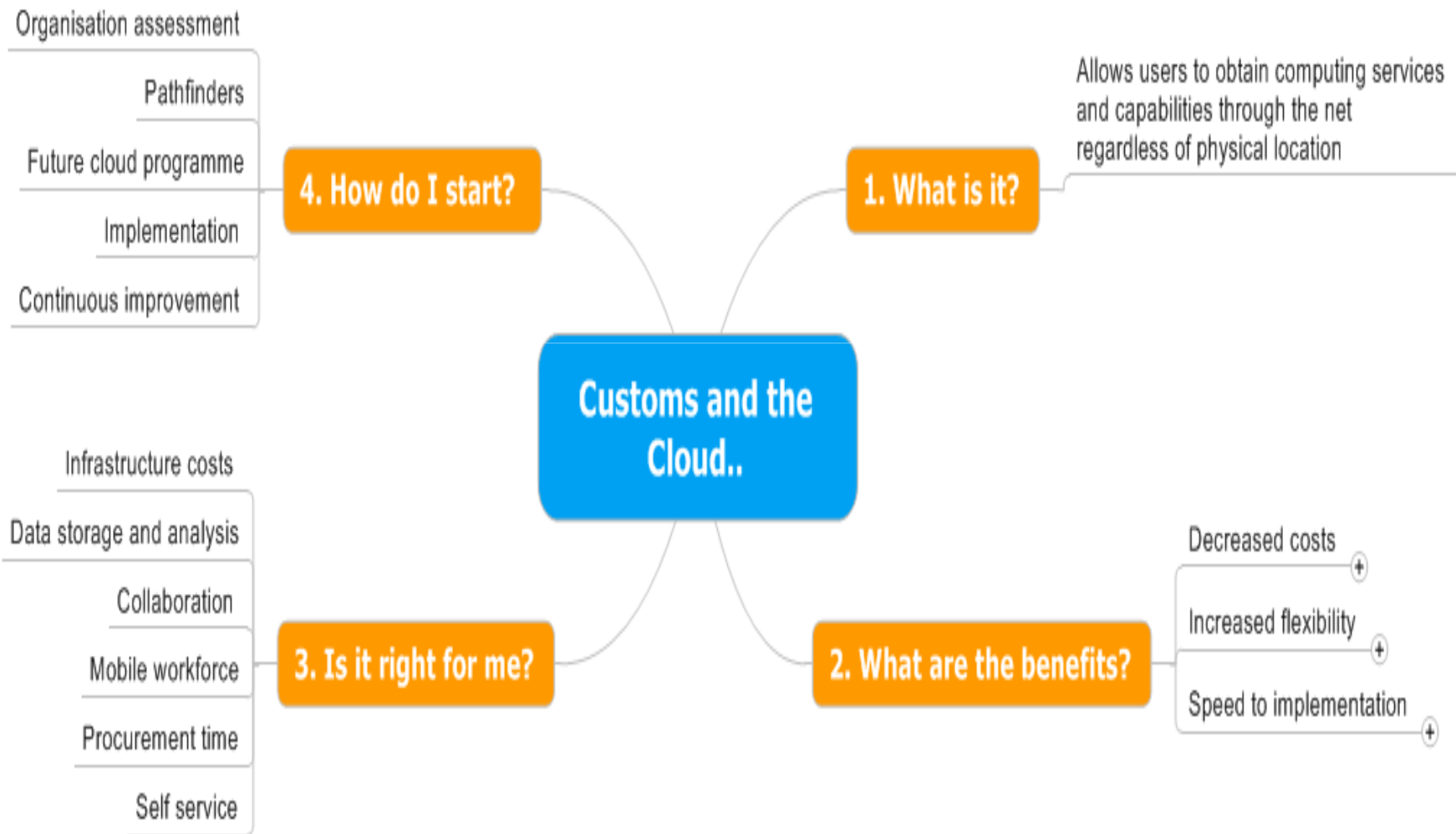
Director

Global Customs Industry

Accenture

# Customs – High Performance Functional Model







United Nations Economic Commission for Europe

New concepts for information exchange in  
international supply chains

Why are Governments different...

Seattle, May 2011



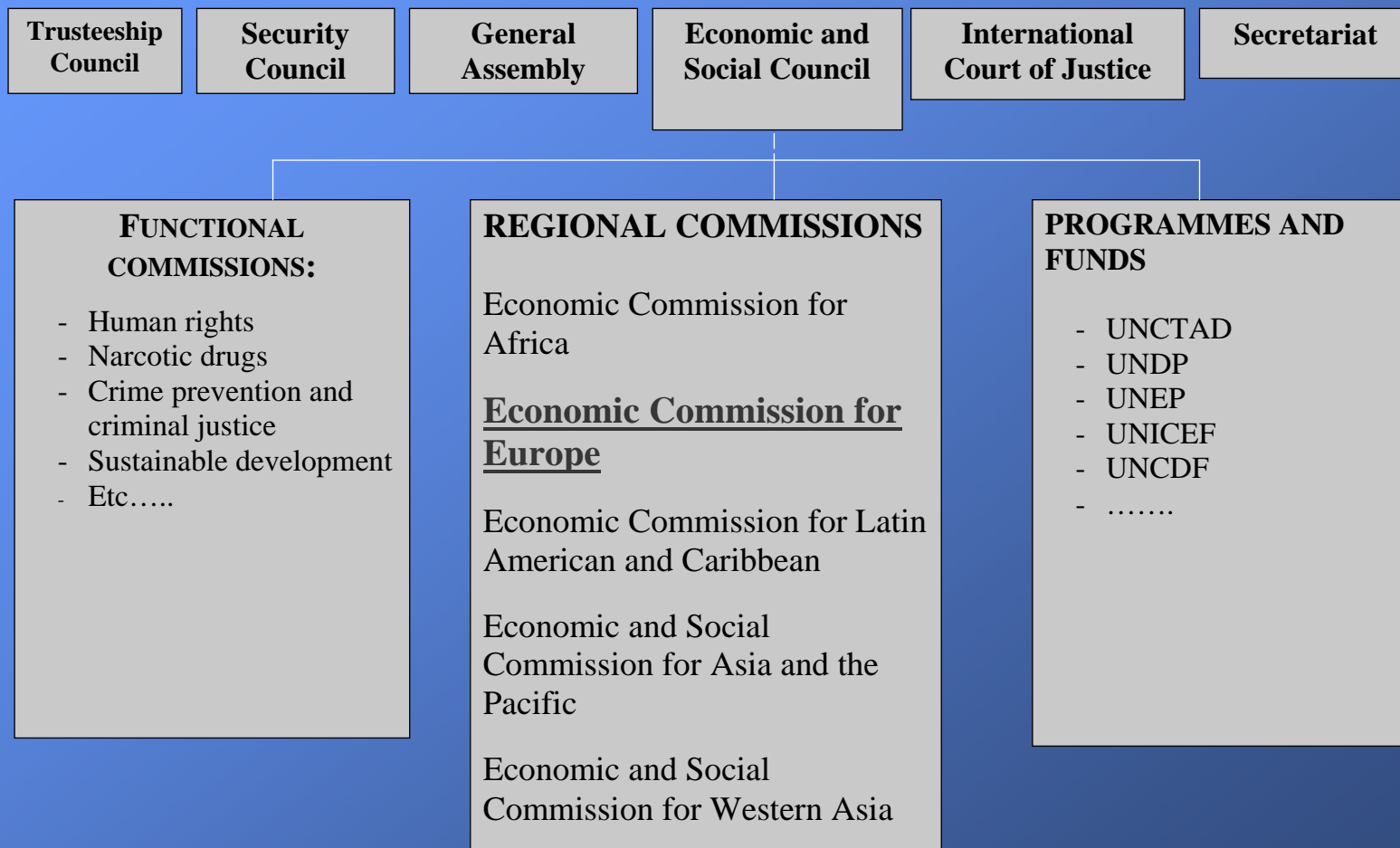
# Agenda

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1. UNECE
2. Governments
3. Towards a cloud based, information driven supply chain
4. Complementary role of Government, Business and International Organizations
5. Single Window – a case study for cloud computing?
6. Conclusions



# UN Economic Commission for Europe (UNECE)



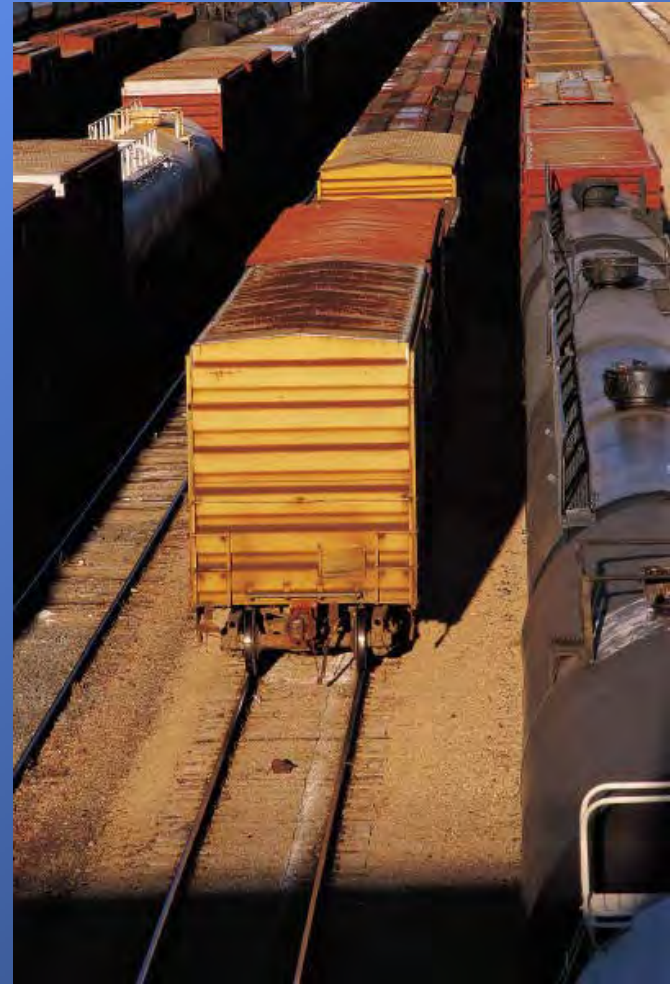
# Role of UNECE

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- UNECE's key objective is economic integration within the UNECE region and between UNECE region and the rest of the world
- Trade Facilitation and efficient trade data interchange are key tools of UNECE to achieve this objective

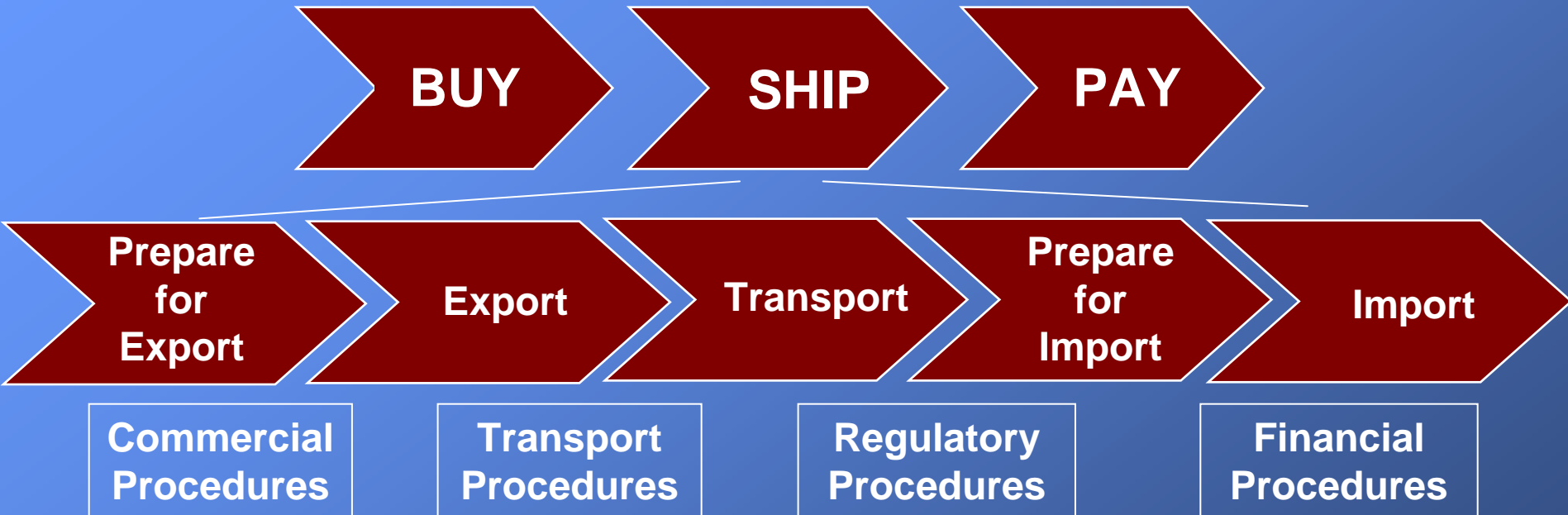
# UN/CEFACT – Trade facilitation Standards and Recommendations

- Over 30 Recommendations, many of which are ISO Standards and are covered in the WTO TF Negotiations
  - Recommendation 1 - UN Layout Key for Trade Documents (ISO 6422)
  - Recommendation 25 - UN/EDIFACT (ISO 9735)
  - UNTDED (ISO 7372) and Core Component Library (CCL) - WCO data model
  - Recommendation 33, 34 and 35 - Single Window
  - Recommendation 4 on TF Structures
  - Recommendation 18 – strategies and approaches





# Facilitation of the International Supply Chain



# Governments (why are they different ...)

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- Different attitudes to trade - trusted partner (AEO, CTPAT) or ....
- Different views on information access
- Degree of regulation
- Attitude to data security (and legal framework)

AND .....

- Different roles (and time frame) of trade and Government

**NEED TO FOCUS MORE ON THE COMPLEMENTARY ROLES OF GOVERNMENTS, BUSINESS AND THE INTERNATIONAL ORGANISATOINS**



# Towards a cloud based, information driven supply chain

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## □ Cloud computing +++++ :

- Reuse of information
- Potential for a fundamentally different approach to handling (regulatory) information across the supply chain (from document/message centric approach to information centric approach).
- Potential for great creativity
- Productivity gains for business and government
- **Movement from capital expenditure to operational expenditure – lower cost of entry**





# Towards a cloud based, information driven supply chain?

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But, we need to be precise:

- Which data exactly needs to be shared – and how ?
- Who wants it, for what reason, when and in which format?
- Who is ready to provide the data and under which conditions?
- What policies and regulatory frameworks are needed?
- What standards and legal framework?
- What are the new opportunities created – what are the new operation and business models required



# Towards a cloud based, information driven supply chain?

---

And we need to be aware of the pitfalls:

- Who owns the data – how can it be protected (legal framework)
- Who has access – with whom can I share the information
- What if the government wants to impound the data of one company – is it all taken
- Who is responsible when the system crashes
- Who is responsible when the data gets lost

# Complementary role of Governments, Trade and the Business Community

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Requires the integrated action of business, governments, international organizations, universities ....

Each has its own unique role to plan and these need to be linked together through strong business government cooperation



# Complementary role of Governments, Trade and the Business Community ...

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## The role of Governments

- Provide the policy, legal and regulatory framework
  - Provide stability for investment
  
- Support the Research and Development



# Complementary role of Governments, Trade and the Business Community ...

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## The role of the private sector

- Provide technology and solutions
- Source of innovation and change
- Deliver the business case
- Implement





# Complementary role of Governments, Trade and the Business Community ...

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## The role of the International Organizations

- Develop the global standards, frameworks and rules
  - UNECE - Standards and Recommendations
    - Semantic Libraries (UNTDED, Core Component Library)
    - Data Model
    - Business process models
    - Codes for business
  - UNCITRAL, WTO, WCO, IMO, etc
- Ensure an inclusive approach
  - Forum for debate
  - Capacity Building
- Provide the forum to evaluate new technologies and concepts and to promote implementation on a global level



# Complementary role of Governments, Trade and the Business Community ...

---

## The role of Educational Institutes

- Pathfinder projects
- Developing business models, operational models
- Working closely with business and government
- Living Labs (ITAID, OPTICHAIN)
- Research and Development
- Education and training



# Single Window - a potential case study for the cloud

---

- Large scale inter organizational information exchange system to simplify and automate national export and import processes
- Port community systems
- One time submission of information
- G2G and B2G business processes
- UN Recommendations
- Government mandated and driven
- Private sector use and benefit
- Strong link to national development agendas and external trade policies



# UN Single Window Symposium

---

- UN Single Window Symposium in Geneva, 12 to 13 December 2011 – Single Window 10 years on – where are we now and where should we go
- Organised by all five UN Regional Commissions (Africa, Asia, Europe and North America, Middle East, Latin America)

# Summary

---

- ❑ Cloud based information sharing could generate a paradigm shift in the way we do international trade
- ❑ It can only succeed if governments and international organizations provide direction, security, standards, and the regulatory environment – participate in this effort
- ❑ It will only succeed if there is a business case and the private sector drives it

# Team Work





# Thank you

---

All UNECE Recommendations, codes, standards and publications are available for free on our website at:

- [www.unece.org/trade](http://www.unece.org/trade)
- [www.unece.org/cefact/](http://www.unece.org/cefact/)

Tom Butterly

E-mail: [tom.butterly@unece.org](mailto:tom.butterly@unece.org)



## Cloud Computing: A New Era for Customs and Trade

# ICT Procurement Why is Government So Different?

Renee Stein  
TCBoost Project  
Nathan Associates Inc.

2011 WCO ICT Conference and Exhibition  
Seattle, Washington, USA  
May 11-13, 2011

# Target Issues

How do you identify and select the appropriate ICT solution(s) that support an administration's goals and meet its automation needs within the constraints of financing, infrastructure, ICT expertise and available skills?

How do you ensure that the solution procured fits within the associated (financial and opportunity) costs – of infrastructure, training, etc. – while also providing the necessary benefits of automation?

# ICT Solutions Survey

## **Problem:**

1. There doesn't exist a comprehensive list of the solutions available for customs primary automation- this market is constantly growing.
2. Customs administrations and donors must therefore spend extensive resources to identify solutions, and many times do not take a needs-based, business-case approach to solution selection.
3. Donors and Customs do not have the information to know the options for procurement or the types of cost structures available when seeking solutions.

# ICT Survey Process

- Survey of solution providers examining the range of solutions and the functionalities that are automated.
- Survey of pricing and payment mechanisms suggested by solution providers.
- Best practices research for ICT procurement.

## Border ICT Solutions Mapping Tool

[Tool Overview](#)

Functionality Filter	Solutions																																																														
<p>1 Use the filters below to only show the solutions which match your requirements.</p> <p><a href="#">Reset Filter</a></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Information Management</li><li><input type="checkbox"/> Pre-Import</li><li><input type="checkbox"/> Declarations, clearance and inspection</li><li><input type="checkbox"/> Risk Management</li><li><input type="checkbox"/> Authorized Economic Operator</li><li><input type="checkbox"/> Revenue</li><li><input type="checkbox"/> Transit</li><li><input type="checkbox"/> Enforcement</li><li><input type="checkbox"/> Declaration</li><li><input type="checkbox"/> Audit</li><li><input type="checkbox"/> Investigations</li><li><input type="checkbox"/> Appeals</li><li><input type="checkbox"/> Global Cooperation</li><li><input type="checkbox"/> Quality Management</li><li><input type="checkbox"/> Systems Support</li></ul> <p><a href="#">Download Excel table of data</a></p>	<p>2 Explore the solutions below to see the full range of features they offer.</p> <p>Check up to 4 solutions and click <a href="#">Compare</a></p> <p>↓</p> <table border="1"><thead><tr><th>Solution</th><th>Countries</th><th>Provider</th></tr></thead><tbody><tr><td><input type="checkbox"/> ASYCUDA World</td><td>Show</td><td><a href="#">UNCTAD</a></td></tr><tr><td><input type="checkbox"/> Scanning Solutions</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> TransitNet</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> Profiler</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> TRADENET</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> Advance Cargo Information</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> NetReveal</td><td>Show</td><td><a href="#">Detica</a></td></tr><tr><td><input type="checkbox"/> Arctic TARIFF</td><td>Show</td><td><a href="#">Arctic Group</a></td></tr><tr><td><input type="checkbox"/> Arctic FAST</td><td>Show</td><td><a href="#">Arctic Group</a></td></tr><tr><td><input type="checkbox"/> MicroClear</td><td>Show</td><td><a href="#">ICS</a></td></tr><tr><td><input type="checkbox"/> TRIPS</td><td>Show</td><td><a href="#">Crown Agents</a></td></tr><tr><td><input type="checkbox"/> e-biscus</td><td>Show</td><td><a href="#">Bull</a></td></tr><tr><td><input type="checkbox"/> HS Classifier &amp; HS Code Auditor</td><td>Show</td><td><a href="#">3CE</a></td></tr><tr><td><input type="checkbox"/> Trade World Manager Portal &amp; Universal Risk Management</td><td>Show</td><td><a href="#">Webb Fontaine</a></td></tr><tr><td><input type="checkbox"/> Government Executive Vision</td><td>Show</td><td><a href="#">Webb Fontaine</a></td></tr><tr><td><input type="checkbox"/> Trade XI</td><td>Show</td><td><a href="#">Gainde 2000</a></td></tr><tr><td><input type="checkbox"/> Single Window Orbus</td><td>Show</td><td><a href="#">Gainde 2000</a></td></tr><tr><td><input type="checkbox"/> Electronic Cargo Tracking</td><td>Show</td><td><a href="#">SGS</a></td></tr><tr><td><input type="checkbox"/> Customs TotalFlow</td><td>Show</td><td><a href="#">Blue Teal</a></td></tr></tbody></table>			Solution	Countries	Provider	<input type="checkbox"/> ASYCUDA World	Show	<a href="#">UNCTAD</a>	<input type="checkbox"/> Scanning Solutions	Show	<a href="#">SGS</a>	<input type="checkbox"/> TransitNet	Show	<a href="#">SGS</a>	<input type="checkbox"/> Profiler	Show	<a href="#">SGS</a>	<input type="checkbox"/> TRADENET	Show	<a href="#">SGS</a>	<input type="checkbox"/> Advance Cargo Information	Show	<a href="#">SGS</a>	<input type="checkbox"/> NetReveal	Show	<a href="#">Detica</a>	<input type="checkbox"/> Arctic TARIFF	Show	<a href="#">Arctic Group</a>	<input type="checkbox"/> Arctic FAST	Show	<a href="#">Arctic Group</a>	<input type="checkbox"/> MicroClear	Show	<a href="#">ICS</a>	<input type="checkbox"/> TRIPS	Show	<a href="#">Crown Agents</a>	<input type="checkbox"/> e-biscus	Show	<a href="#">Bull</a>	<input type="checkbox"/> HS Classifier & HS Code Auditor	Show	<a href="#">3CE</a>	<input type="checkbox"/> Trade World Manager Portal & Universal Risk Management	Show	<a href="#">Webb Fontaine</a>	<input type="checkbox"/> Government Executive Vision	Show	<a href="#">Webb Fontaine</a>	<input type="checkbox"/> Trade XI	Show	<a href="#">Gainde 2000</a>	<input type="checkbox"/> Single Window Orbus	Show	<a href="#">Gainde 2000</a>	<input type="checkbox"/> Electronic Cargo Tracking	Show	<a href="#">SGS</a>	<input type="checkbox"/> Customs TotalFlow	Show	<a href="#">Blue Teal</a>
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# Outcome 1 – Online Tool

**Functional and customizable mapping of solutions**

**List of solutions surveyed, ability to compare solutions by functions offered**

**Ability to see list of countries where solutions are currently implemented and access the website of the solution for more information**

# Outcome 2 - ICT Procurement Guide

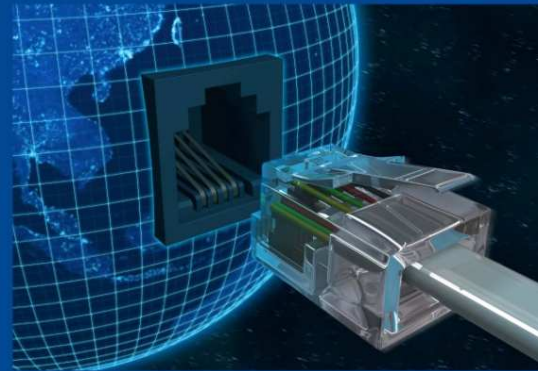
## Driving Real Change

- Accountability
- Competitive Supply
- Consistency
- Efficiency
- Fair-dealing
- Integration
- Integrity
- Informed decision-making
- Legality
- Responsiveness



### INFORMATION AND COMMUNICATIONS TECHNOLOGY PROCUREMENT

BEST PRACTICES GUIDE FOR CUSTOMS ADMINISTRATIONS



May 2011  
This publication was produced by Nathan Associates Inc. for USAID's review.

# Conclusion



***Please visit the Nathan Associates booth to  
receive a copy of the Guide and a  
demonstration of the Internet tool***

**[http://www.tcboostproject.com/resources/tools/border/survey\\_results.php](http://www.tcboostproject.com/resources/tools/border/survey_results.php)**

# ***The Pipeline Interface***

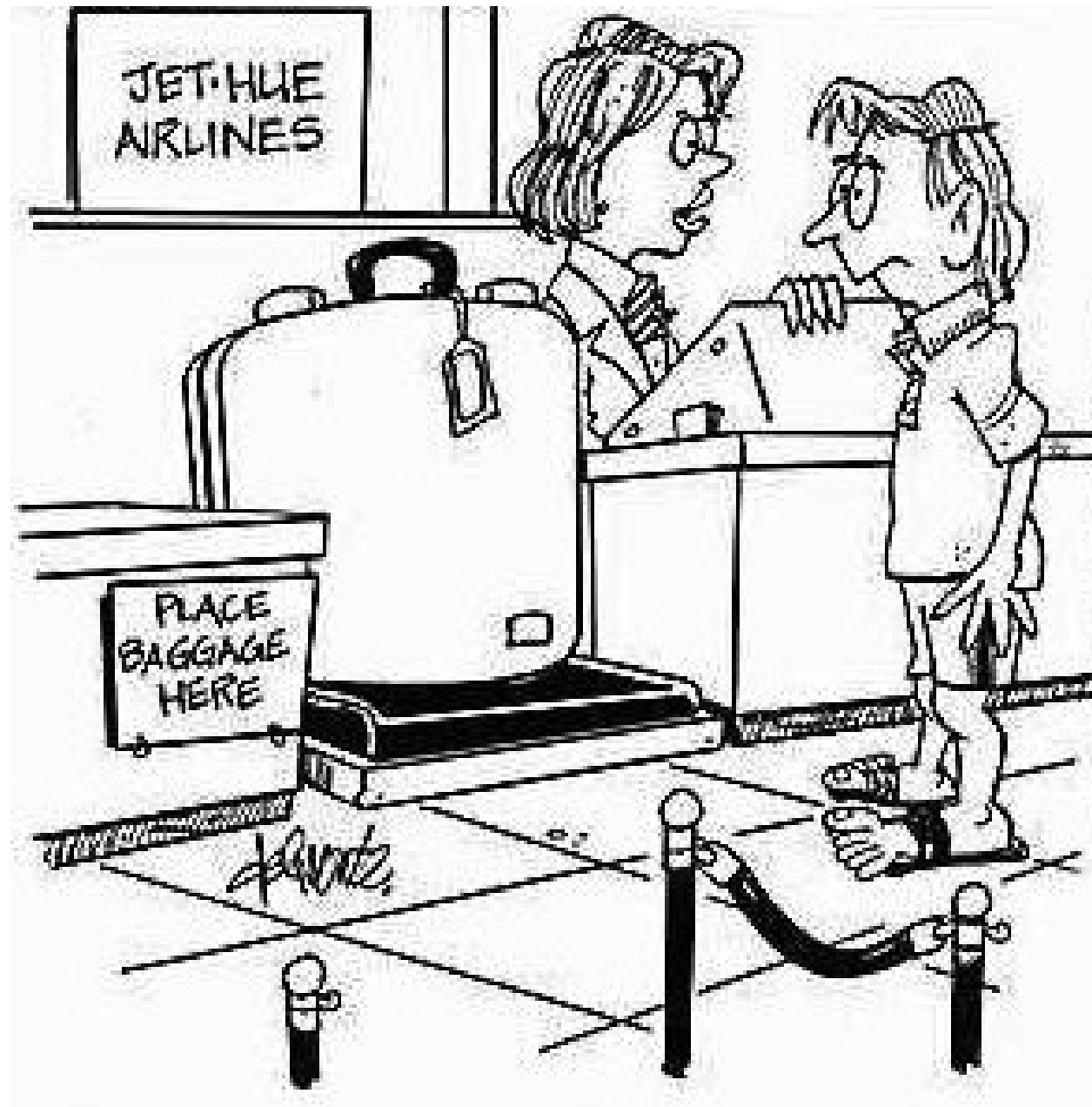
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*rch*



***Frank Heijmann***  
***Netherlands Customs***

***David Hesketh***  
***United Kingdom Customs***



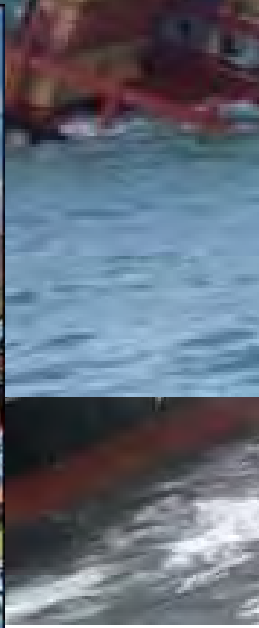
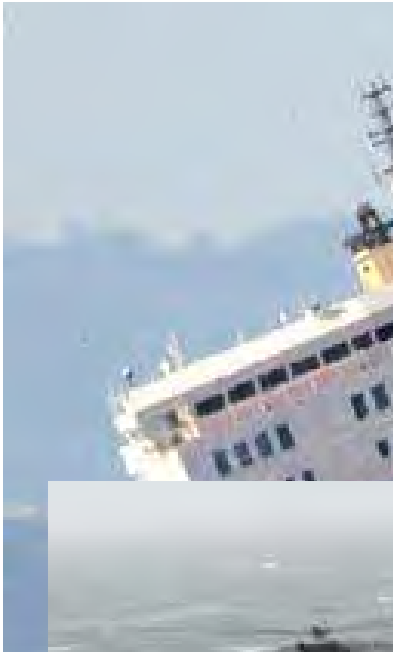


# Malcom Purcell McLean, 1913 – 2001



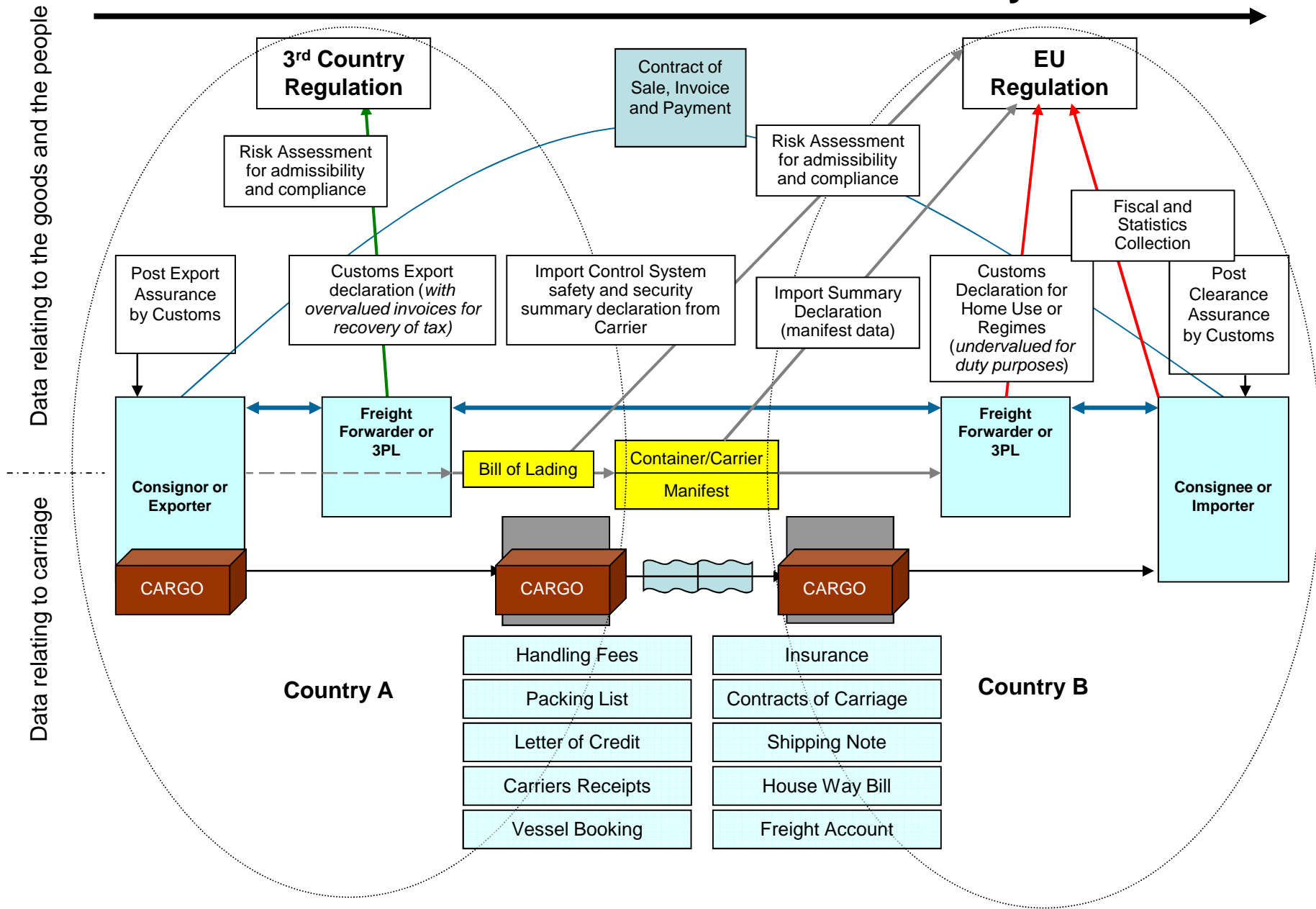




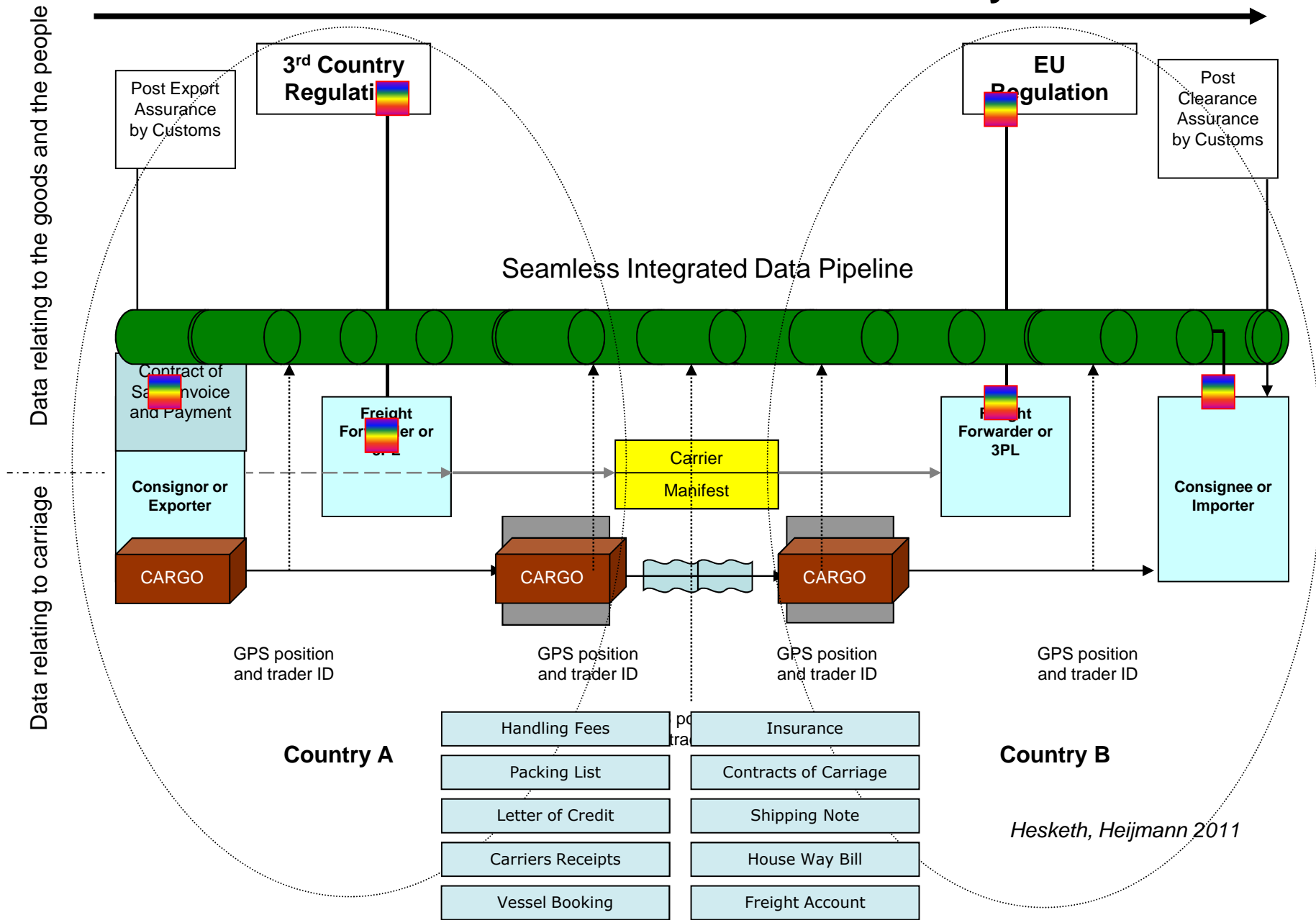




# Current Customs and International Trade Systems



# Future Customs and International Trade Systems



# ***The Digital Interface***



**A CONCEPT  
FOR THE FUTURE**

***Frank Heijmann***  
***Netherlands Customs***

***David Hesketh***  
***United Kingdom Customs***

# Outsourcing IT

Anne Craig

WCO – IT Conference  
May 2011



# Outsourcing IT

- ❖ CBSA mandate
- ❖ Sourcing Strategy
- ❖ CBSA what we do
- ❖ Outsourcing – some things to consider
- ❖ Keys to Success



## CBSA Mandate

- ❖ The CBSA mandate is to protect Canada's borders while facilitating the flow of legitimate trade and travel. Execution of this mandate is increasingly dependent on information technology, especially in the areas of risk assessment and revenue collection.
- ❖ The CBSA also provides services at the border for other government departments and agencies. This unique role introduces higher complexity, since our information management practices must support not only our own legislated mandate, but that of other departments and agencies through advanced information sharing protocols.
- ❖ CBSA develops and maintains its own line of business applications to support this mandate. Currently, we have in excess of 120 nationally and internationally deployed IT systems. Of these applications, 47 are considered 'mission critical'.

## Canadian Federal Government – Sourcing Strategy

- ❖ In the Canadian Federal Government, most departments and agencies have their own IT organization. The strategy in the last few years has been to develop a centralized IT Shared Services organization that would provide certain IT services to all of government.
- ❖ Those services were defined as common services and represented potential benefits in cost savings as well as providing centralized management of services allowing departments to focus on their more specialized needs.
- ❖ These services are primarily “outsourced” and managed through contracts that were competitively sourced. These type of services are traditional IT services such as network and data centre services.

## CBSA – what do we do?

- ❖ We build, we buy, and we share.
- ❖ When the CBSA was created in 2003, previously part of the Canada Customs and Revenue Agency, a decision was made to continue to have the Canada Revenue Agency provide a number of IT services to the CBSA. This includes Data Centre Services, Distributed Computing Services, Infrastructure Management Services, and Telecommunication Services. We review that decision every couple of years and continue to believe this an effective model for us.
- ❖ With our tight business linkages with other Federal departments in Canada and abroad, we also receive, provide, or share IT services with our partners.
- ❖ We also have outsourced IT arrangements with private sector experts for specific business application capabilities. Examples are the receipt of API/PNR data, the NEXUS Air Kiosk solution using biometrics, and the license plate reader solution used at land border crossings.
- ❖ The information CBSA receives from its clients is provided under legislative and privacy frameworks. Appropriate measures must be taken to safeguard and utilize any data for the purposes it was intended.

## Outsourcing – what to consider

- ❖ Is it mission critical to your business?
- ❖ Do you have the capabilities internally?
- ❖ How quickly do you need the capability?
- ❖ How much do you know about what you are outsourcing? How will the service or technology withstand change?
- ❖ Do you have the capabilities/experience to manage an outsourced arrangement?
- ❖ How do you ensure your accountability?

## Keys to Success

- ❖ Develop and maintain a relationship with your service provider.
- ❖ Managing sourced arrangements requires extra different skill sets than normally found when managing your own IT organization.
- ❖ When developing an outsourcing plan consider the entire life cycle as you would any other IT asset.
- ❖ Keep your sourcing strategy ever green. Consider it as a part of your overall IT strategy.



***Integration of Customs Risk  
Management Technology with  
ASYCUDA***

2011 WCO IT Conference & Exhibition  
Day 2 Session 9:45 – 11:00hrs

# Overview

*This session will provide a summary of the recent deployment of the Barbados Automated Customs Risk Management System.*

*Panelists:*

- Mr. Frank Holder, Comptroller of Customs (Barbados) &*
- Mr. Chris Thibedeau, Vice President, GreenLine Systems*

## Implementing Risk Management at the Barbados Customs & Excise Department (BCED)

BCED has recently undergone a significant change in the way it conducts business at the border.

With the assistance of the Inter-American Development Bank (IDB), BCED is in the process of transforming to a risk management-based customs organization.



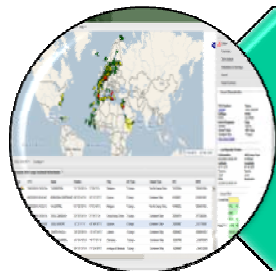
# Background



2008 - BCED formed a dedicated Risk Management Unit (RMU)

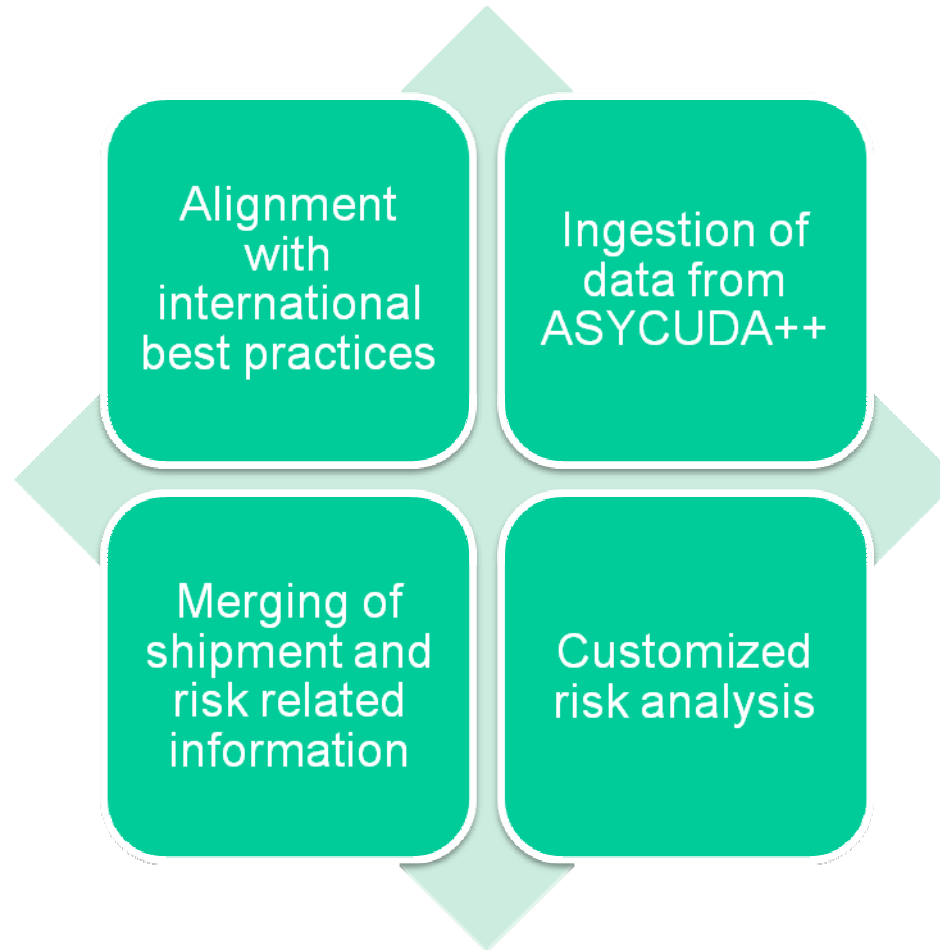


2009 - RM System needed to carry out risk analysis and intelligence tasks



2010 - BCED and GreenLine Systems implement iBench as BCED's Automated Customs Risk Management System

## Four capabilities were identified as required for the risk management system



# System Objectives

Integrate with ASYCUDA++

Pre-Arrival and Arrival Analysis Workflow

Risk Scoring  
of Cargo  
and SADs

Mgmt  
Reports

3 Risk Assessment Modules (RAMs):

Revenue  
Protection

Narcotics

Security

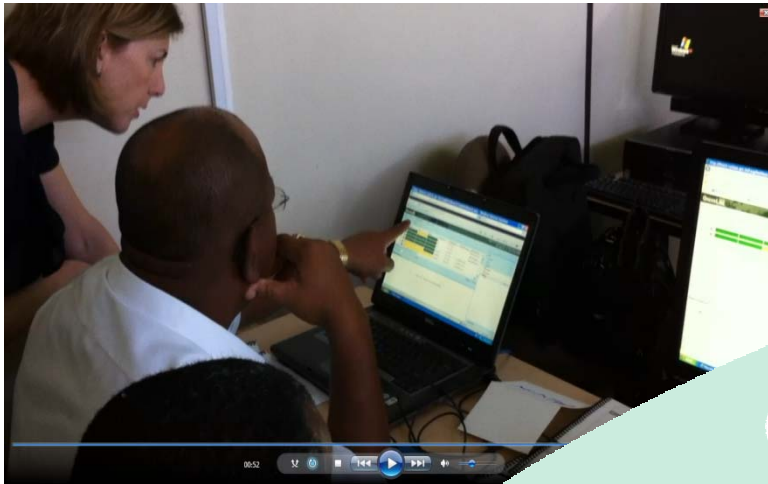
# Project Phases: Plan and Design



- **Plan**
  - Kick Off Meeting

- **Design**
  - Analyze Data
  - Analyze ASYCUDA++ Historical Transactions
  - Needs Assessment
  - Gather Requirements
  - Develop ConOps
  - Functional Requirements

# Project Phases: Configure-Integrate-Develop



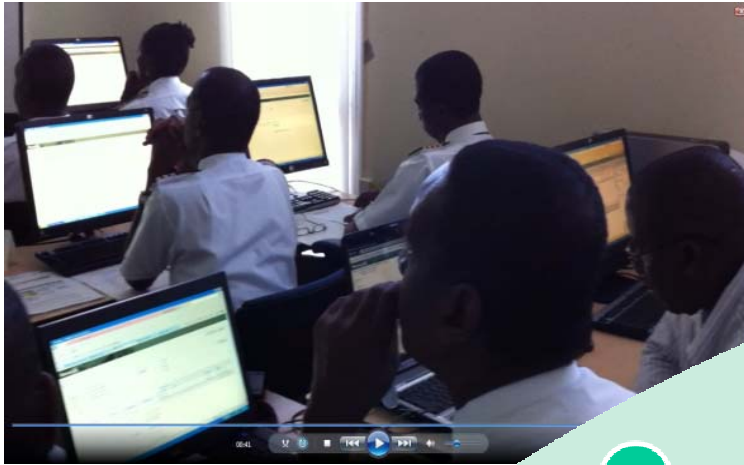
Develop  
ASYCUDA++  
Interface

Define Risk  
Assessment  
Models

Develop  
Custom Reports

Additional  
Customizations

# Project Phases: Test and Train



● Full  
Regression  
Test

● End-User  
Training

● Deploy  
iBench in the  
Production  
Environment

# Conclusion



WCO products SRAs and GHRI have been closely integrated with ASYCUDA



Barbados has made a significant step forward in its modernization that can be considered a benchmark and best practice for other partner customs administrations

## Recommended Reading

The Barbados Customs example follows the principles and tenants promoted in a new capacity building product:

- InterAmerican Development Bank’s Knowledge and Capacity Product:
  - *“Risk Management for Cargo and Passengers.”*

For further information on this document please contact:

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Vice President, World Wide Customs,  
Regulatory and Law Enforcement

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(fax) 613-216-7994

(cell) 613-884-8162 |

Email: [cthibedeau@greenlinesystems.com](mailto:cthibedeau@greenlinesystems.com)

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USA Office: 241 18<sup>th</sup> St Suite 500 | Arlington,  
VA 22202

**Maria Ortiz**

Customs, Trade Facilitation and Logistics  
Integration and Trade Sector

Tel: 1-202-623-2391

1300 New York Avenue, N.W.

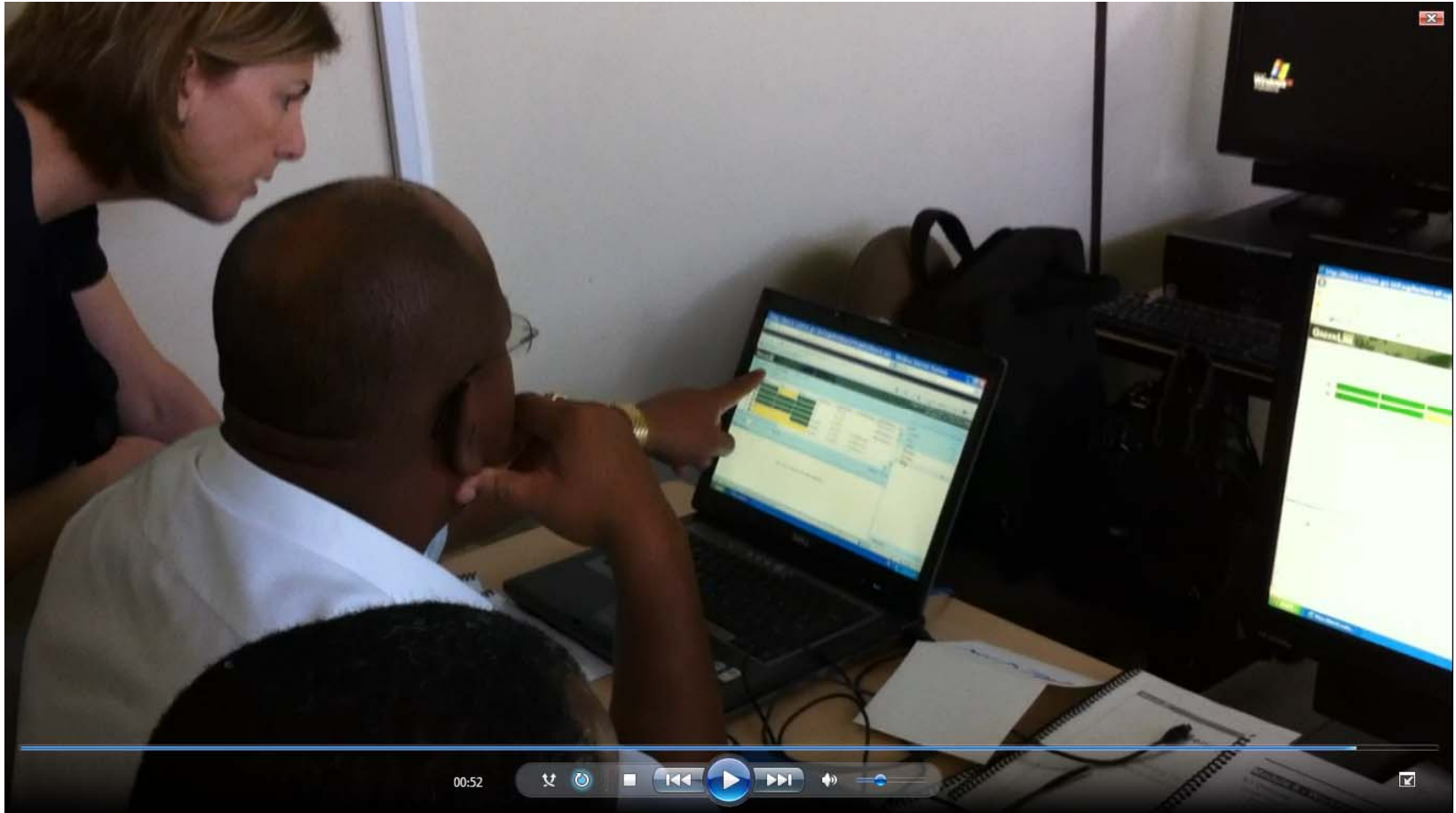
Washington, D.C. 20577 USA

[mariaortiz@iadb.org](mailto:mariaortiz@iadb.org)

[www.iadb.org](http://www.iadb.org)



# Questions?



The background of the slide is a photograph of a harbor scene. In the foreground, several people are walking on a wooden pier. In the middle ground, there are several boats docked at a pier. In the background, a city skyline is visible across the water under a clear blue sky. The text 'Port of Seattle' is overlaid on the image in a blue, sans-serif font. To the right of the word 'Port' are three horizontal, rounded rectangular bars in shades of blue and green, stacked vertically.

# Port of Seattle

May 2011

# PORT OF SEATTLE HARBOR



Pier 90/91

Pier 86

Pier 66

Terminal 46

Terminal 30

Terminal 25

Terminal 18

Terminal 5

Terminal 5 On-Dock Rail

BNSF (SIG - North)

BNSF (SIG - South)

UPRR (ARGO)

# TECHNOLOGY, EQUIPMENT & PEOPLE



**Optical Character Recognition (OCR)**



**Rubber Tired Gantry Crane (RTG)**



**Radiation Portal Monitors (RPM's)**



**Radio Frequency Identification (RFID)**



**Vehicle & Cargo Inspection Station (VACIS)**

# TERMINAL GATE ENTRY & EXIT



# MARINE TERMINAL ENTRY



ENTRANCE TO  
ON -TERMINAL  
TRUCK QUEUING  
AREA



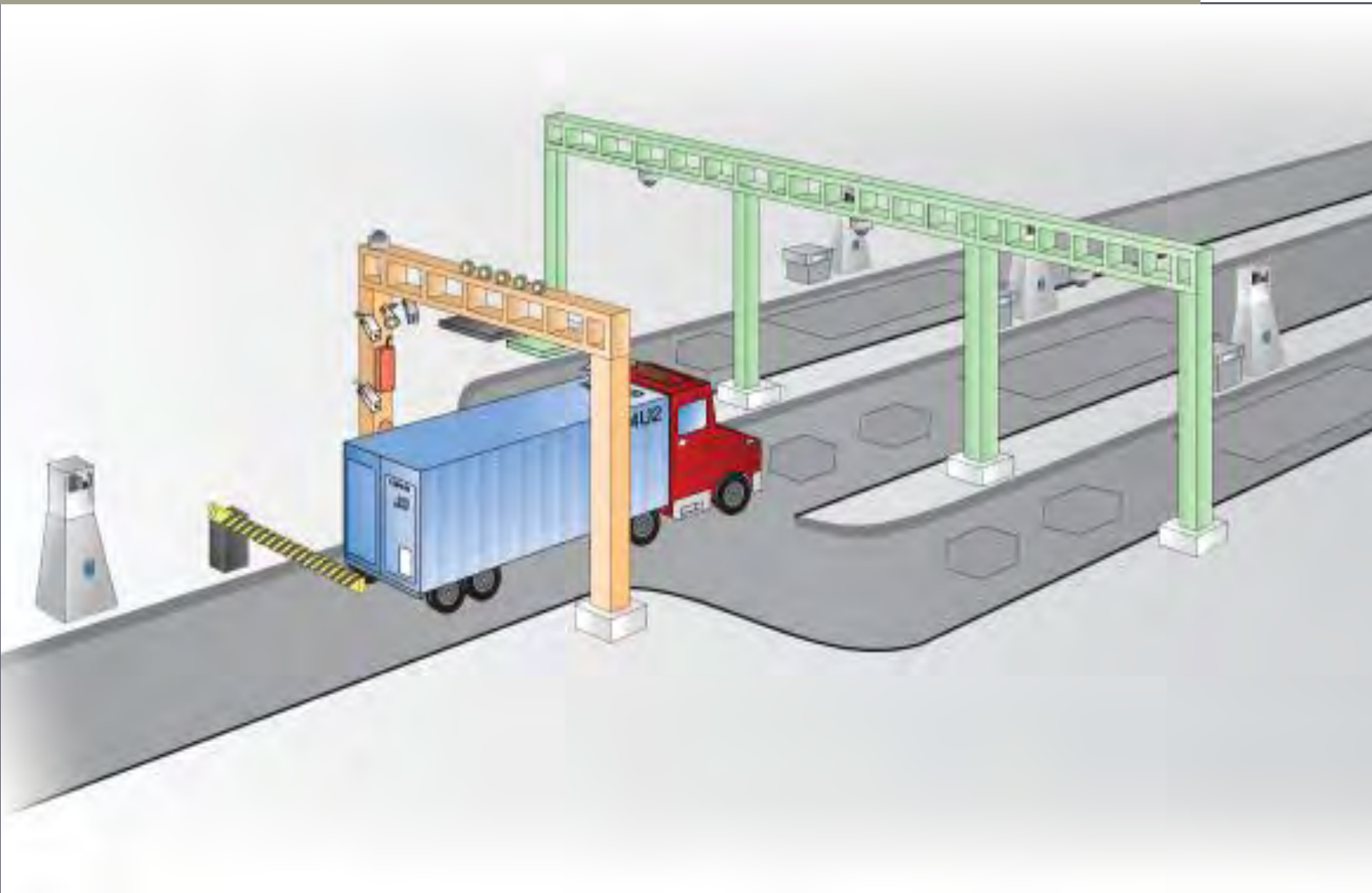
GATE PASS  
ISSUED

DRIVER'S ID  
SCANNED

INSTRUCTION  
TICKET PRINTS



# OPTICAL CHARACTER RECOGNITION (OCR)



# “KITCHEN” VIEW OF REMOTE CAMERAS





# MARINE TERMINAL ENTRY

## STEAMSHIP COMPANY EQUIPMENT INTERCHANGE AND INSPECTION REPORT



Gate Pass Number

# 4203

REMARKS - REFER TO DAMAGE BY ITEM NUMBER, BOTH CONTAINER AND CHASSIS

STEAMSHIP COMPANY <b>BLUE CONTAINER LINE</b>		VESSEL		VOYAGE			
DELIVERING - RECEIVING CARRIER <b>EMERALD EXPRESS</b>		BOOKING/BILL OF LADING NUMBER		CARGO DESCRIPTION			
PORT OF DISCHARGE		FOR TRANSHIPMENT TO		MOVEMENT IN	HAZARDOUS	LABELS	
CONTAINER NUMBER <b>TGHU787003 6</b>		SEAL NUMBER	STATUS EMPTY	LENGTH 40'	HEIGHT 9'6"	TYPE Standard	
CHASSIS NUMBER <b>FFFZ016393</b>		CHASSIS LENGTH & TYPE 40' GOOSE NECK		BOOKED TEMP	BKD. VENT		OVERSIZE
TOTAL ROAD WEIGHT	TRACTOR WEIGHT	CHASSIS WEIGHT	CONTAINER GROSS		CONTAINER TARE		CARGO WEIGHT

# TERMINAL TECHNOLOGY

YARD TRUCK RFID TAG



OCR Cameras



Crane OCR



CRANE RFID TAG & PTUI



# RADIO FREQUENCY ID (RFID) FOR TRUCKS



RFID tag on Port Truck



RFID Port



RFID Ports

Automated tag/transaction association

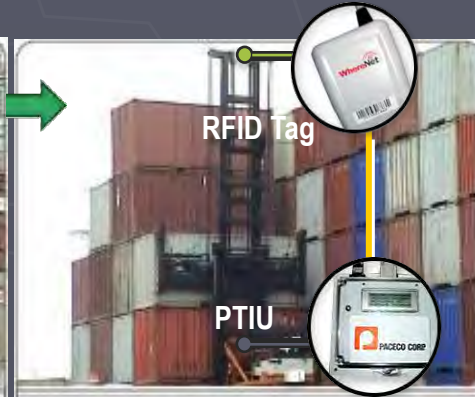
# RFID FOR CONTAINER HANDLING EQUIPT



RFID Port

RFID Tag

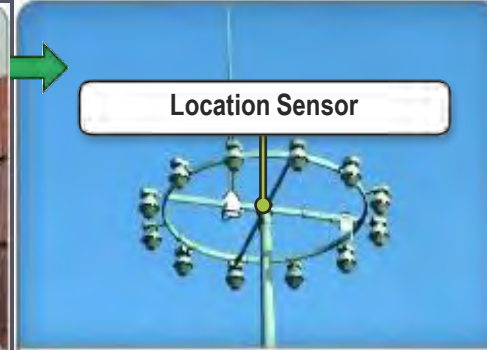
RFID tag on top-pick forces the truck or chassis tag to transmit its ID. ID is auto transferred back to the top-pick



RFID Tag

PTIU

Container and Top-pick are automatically associated based on PTIU sensor and location



Location Sensor

The location of the top-pick's tag is determined when container disengages.



Vendor Marine Terminal

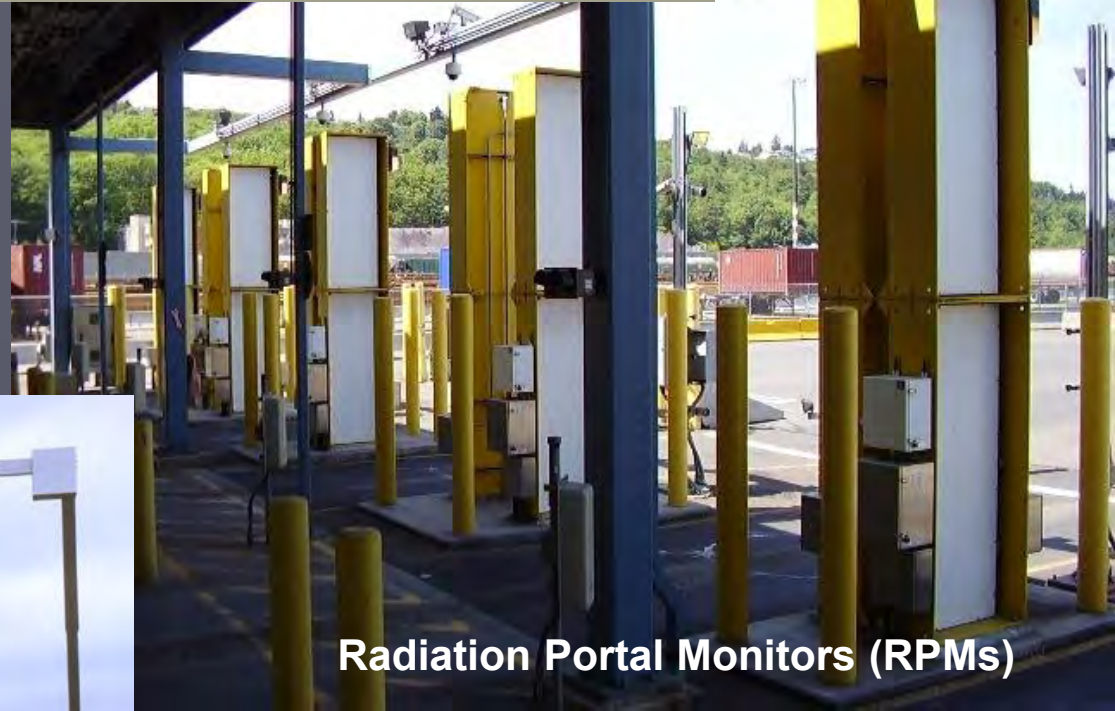
Terminal Operating System

The location information is translated to bay, cell, and tier and updated to the TOS.

# TERMINAL SECURITY

Transportation  
Workers Identification  
Credential (TWIC)

Vehicle & Cargo Inspection Station  
(VACIS)



Radiation Portal Monitors (RPMs)



# Transportation Worker Identification Credential

## Card Security Features



Sample prototype card shown, production card will differ in appearance



Memory chip carries individual's unique biometric for identity match at reader. If the secured data doesn't match the individual's fingerprint, or the facility has not opened access to the individual the card **cannot be used**.



Transportation  
Security  
Administration



# Port of Seattle

Where a Sustainable World is Headed

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

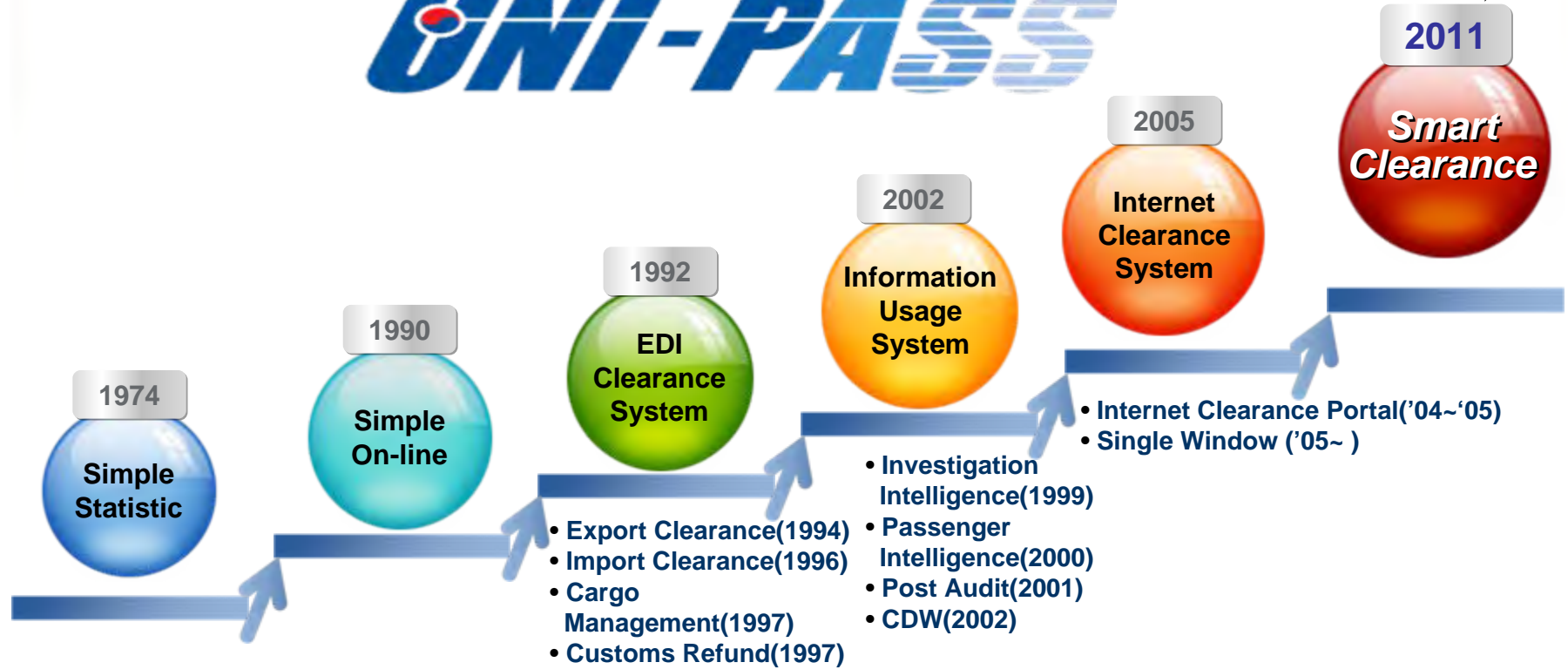
e-Customs

u-Customs

Smart Customs

관세청 전자통관시스템

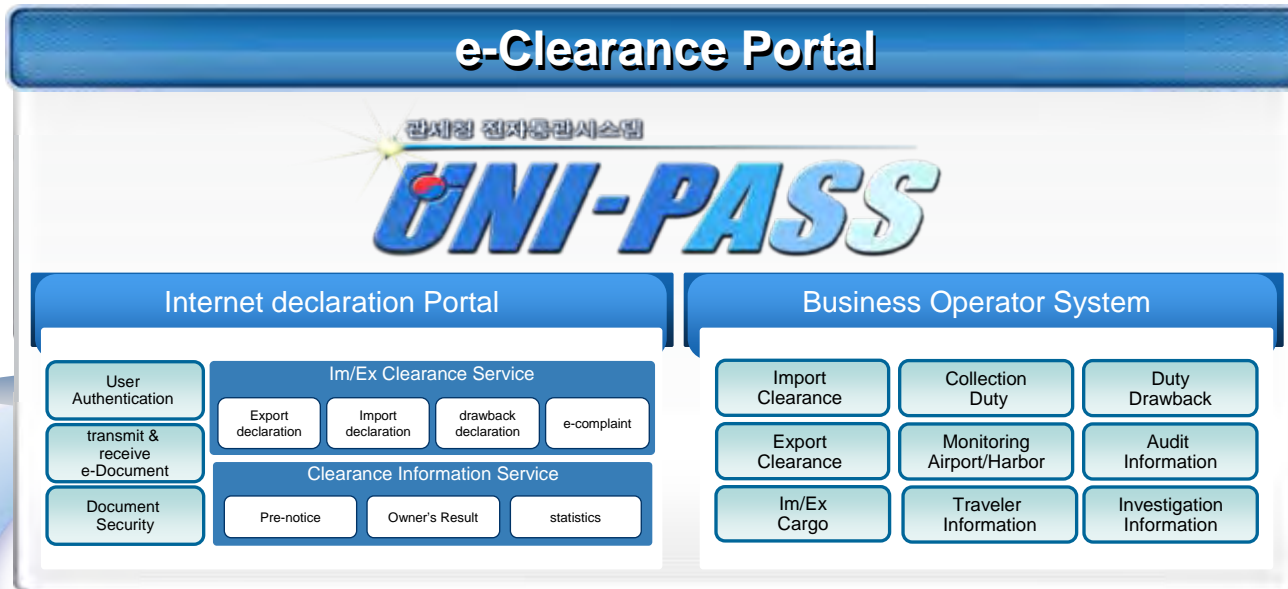
## UNI-PASS



# 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

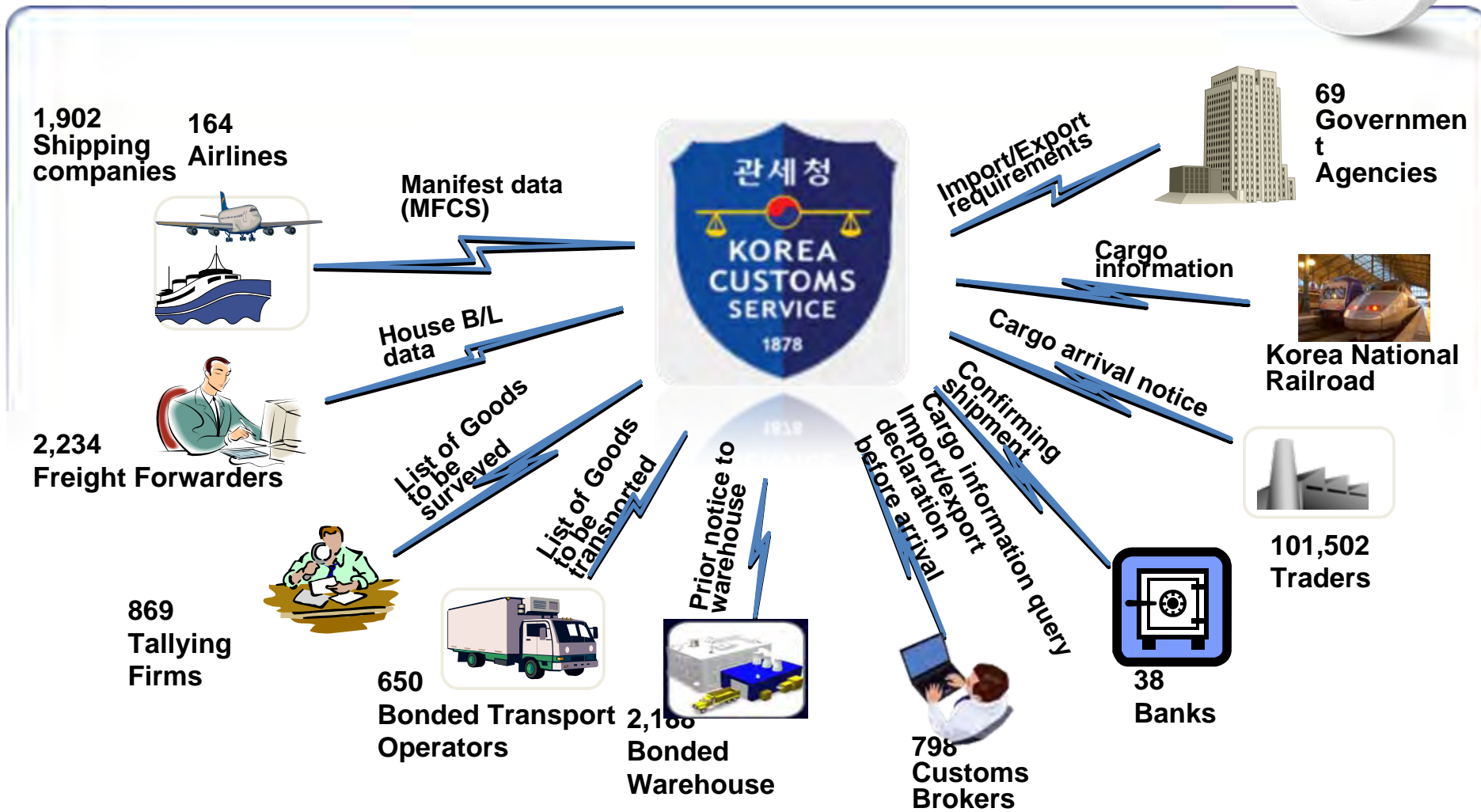
**CDW**

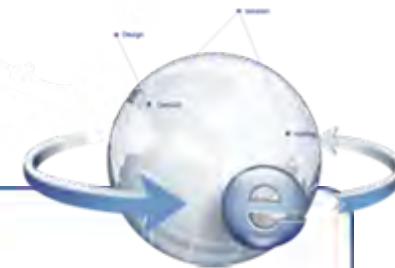
- Data Integration
- Data Mining
- Data Analysis

**EA**

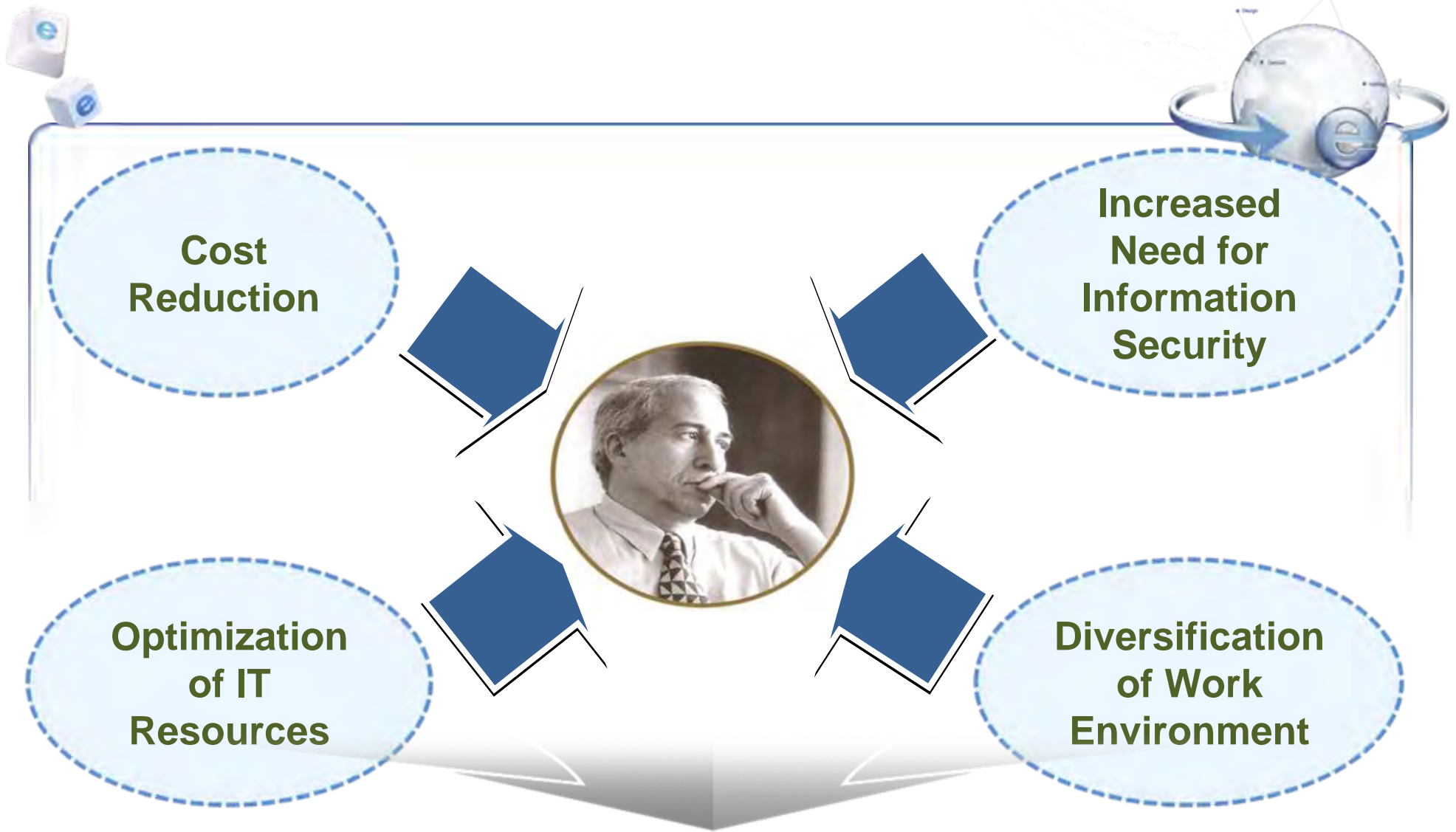
- IT Architecture
- IT Asset Mgmt
- IT Service Mgmt

# u – Clearance Network

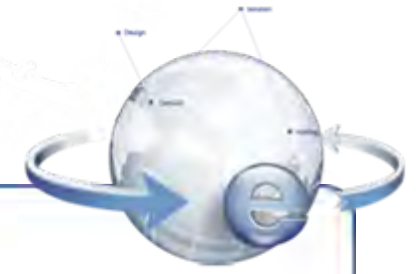




**What are their interests ?**



## **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

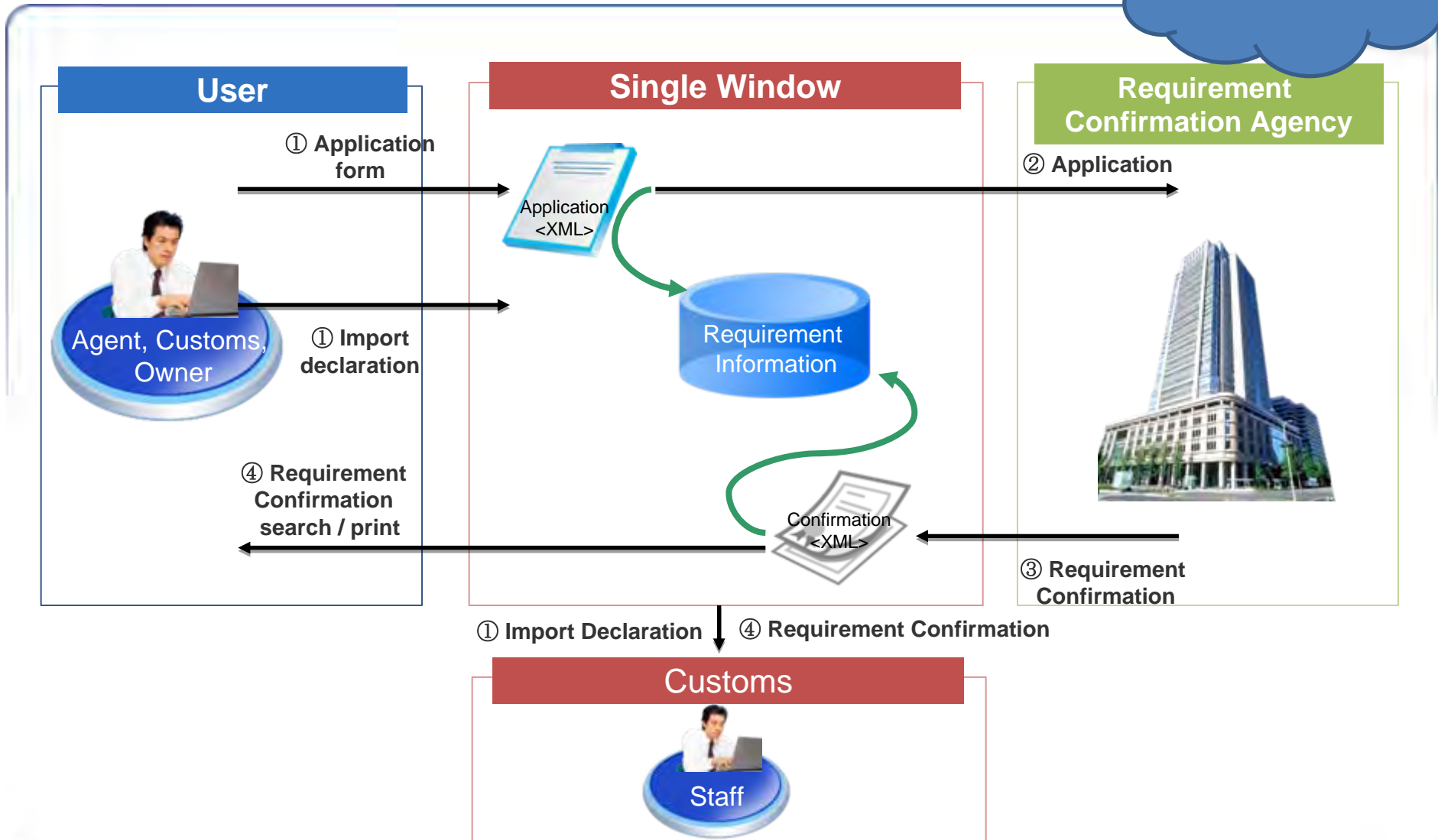
Effort to Simplify  
Clearance Process

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



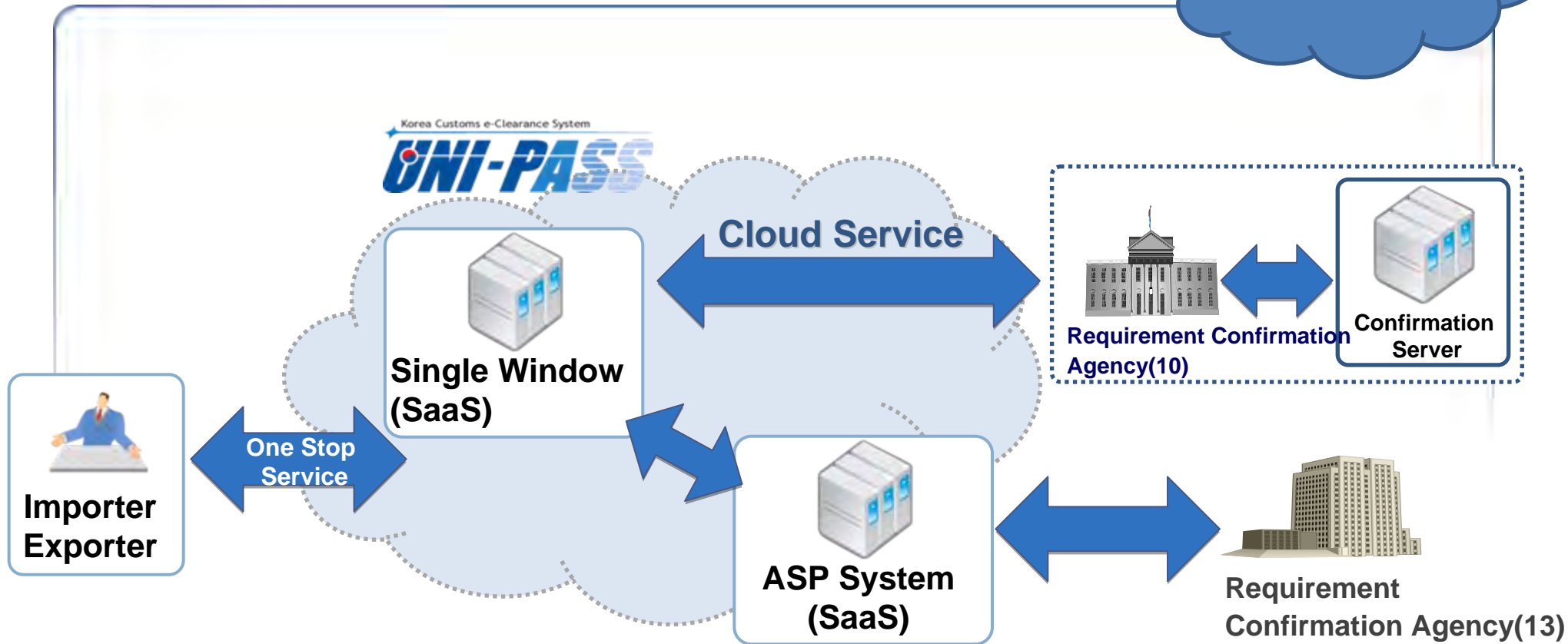
# Work Process

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**

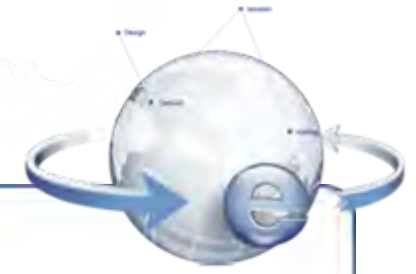
**Improvement of Scalability and Flexibility through  
Platform Unification and Integration of Infrastructure**



**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 40 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)

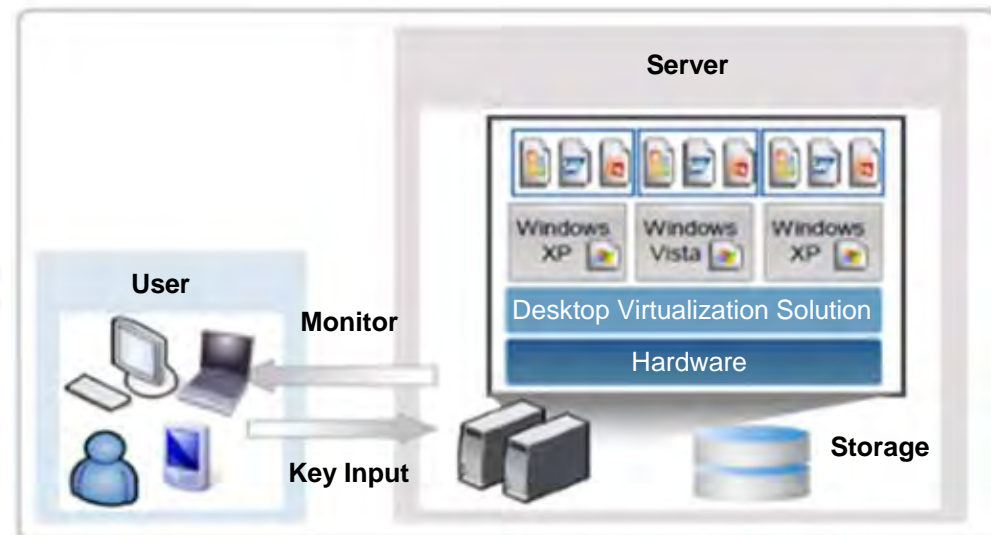
Private Cloud  
(SBC)

## ▶ 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**

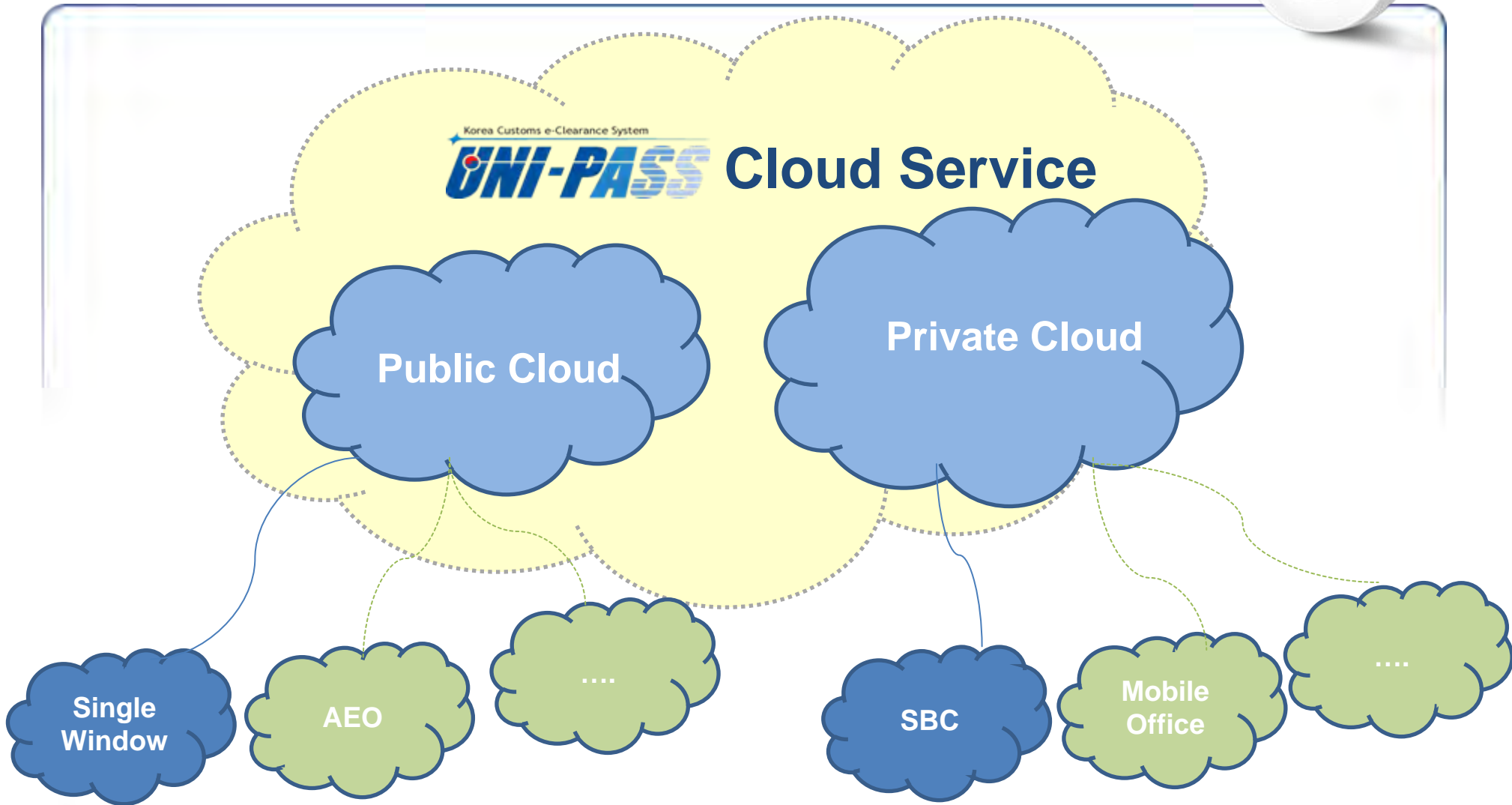


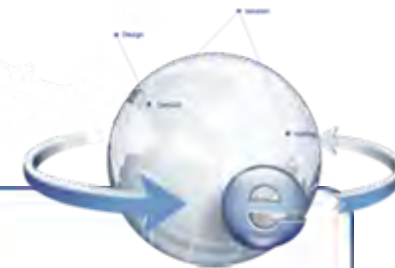
Economic

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



# Future Development Direction





# Thank You !

## Q & A



# **Customs IT Vision**

## **Information Technology Conference**

**Seattle, US  
13 May 2011**

***Susanne Aigner  
Deputy Director  
Compliance and Facilitation***



# The WCO Mission Statement

 To enhance the effectiveness and efficiency of Customs administrations

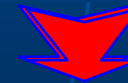
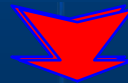
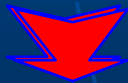
*...by improving their ability to*

Apply trade regulations & facilitate trade

Protect society

Collect revenue

*...which promotes*



**economic prosperity and social development**



# High Priority Activities

- Trade Facilitation, smooth flow of goods
- Security of Global Supply Chains
- Cooperation among Customs and with other agencies, e.g. GNC, CBM, SW, MRA
- Efficiency of Customs, Use of modern tools and instruments

**Key Requirements: Connectivity and Access to information when required**



# Potential Solutions

- **More accurate data**
- **As early as possible**
- **Maximum use of risk management and reduced burden on trade**
- **Innovation (cloud? Data pipelines?)**
- **But there are concerns: data protection/confidentiality/ responsibility for accuracy of data**



# Approved as the future Customs roadmap





*Thank you for your attention*

*For more information*

*[www.wcoomd.org](http://www.wcoomd.org)*

*[Susanne.Aigner@wcoomd.org](mailto:Susanne.Aigner@wcoomd.org)*





# Mozambique Vision - The Steps for a Sustainable Single Window Implementation

2011 WCO IT Conference & Exhibition  
Sheraton Hotel, US 11-13 May 2011



By Guilherme Mambo, Mozambique Customs,  
[gmambo@at.gov.mz](mailto:gmambo@at.gov.mz) or [gfmambo@gmail.com](mailto:gfmambo@gmail.com)

# Contents

- Mozambique – Overview
- Challenges faced by Mozambique Customs;
- Steps for a Sustainable Single Window Implementation
- Mozambique Single electronic Window- SeW
- Lessons learnt.



# Mozambique – Overview

- Population: 22,061,451 people , 2010 (country comparison to the world: 52);
- GDP: USD 22.19 billion , 2010 (country comparison to the world: 121);
- GDP – growth rate: 8.3% (2010) country comparison to the world: 8);
- **Export – Partners (2009):**
- Netherlands 47.62%, South Africa 11.6%;
- **Import – Partners (2009):**
- South Africa 33.54%, Netherlands 8.42%, India 5.93%, China 4.24% .



# Mozambique – Overview

Mozambique Customs today:

- Stands at the forefront of the international trade management;
- Constitutes a **strategic** partner to the private sector of the economy;
- Customs procedures and practices have a direct impact on the competitiveness of the companies.



# Mozambique – Overview

## Customs Traditional Role

- **Revenue Collection**
- Prevention of illicit trade
- Trade facilitation

Traditional Roles

## Modern Roles

- Provide transparency, predictability and timely clearance of goods to traders & stakeholders
- **Social Protection and Business Competitiveness**
- Balance trade facilitation and regulatory control



# Challenges Faced by Mozambique Customs

## The need to better meet:

- an increasing volumes of imports and exports;
- increasing volumes of entry and exit of means transportation;
- More sophisticated trafficking of drug and arms;
- Growing of international requirements originating from integration and development;

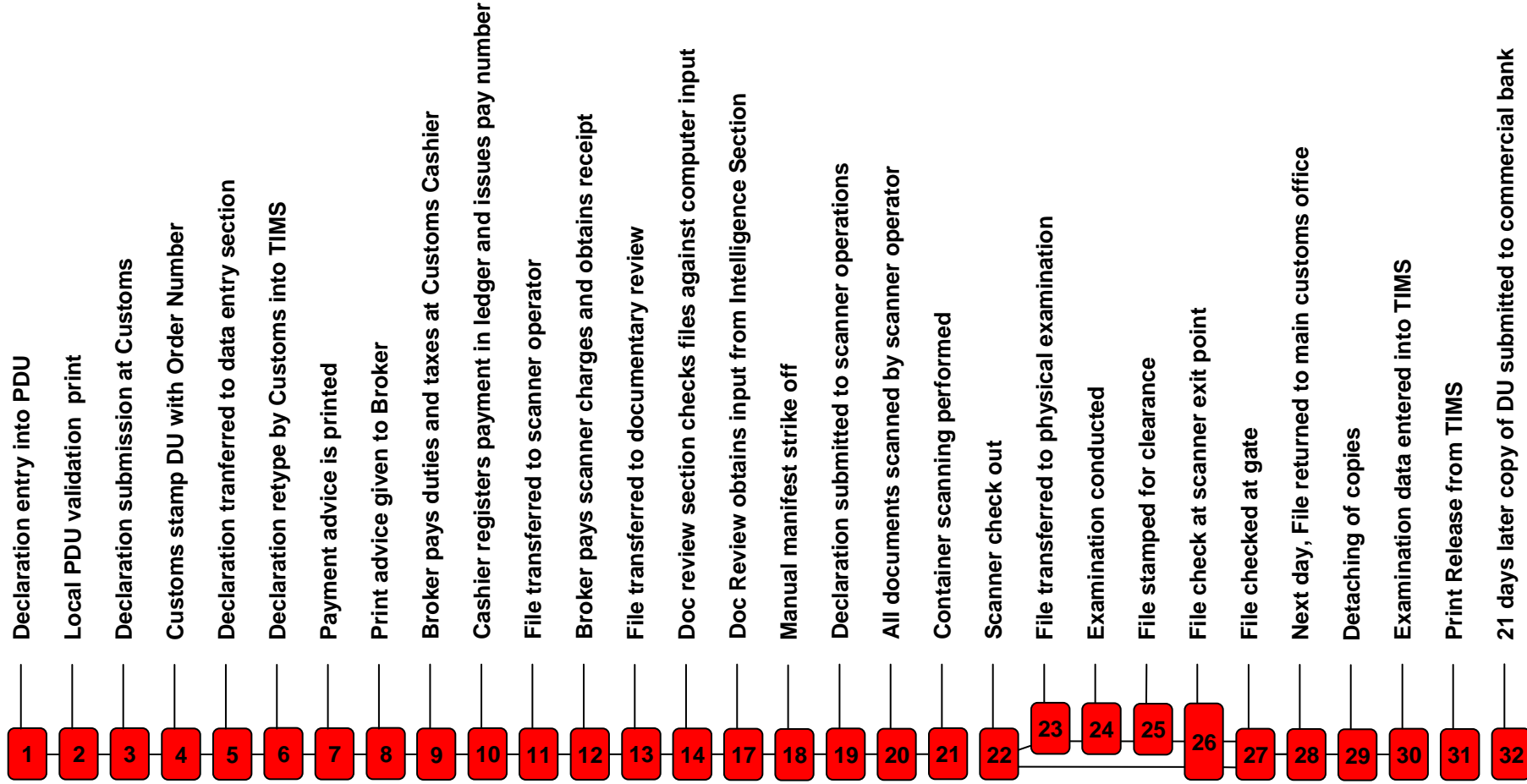


# Challenges Faced by Mozambique Customs

The need to better meet:

- Facilitate the movement of legitimate goods and persons;
- Promote economic growth;
- Rapid technological advancement;
- Inadequate financial resources, facilities, infrastructure; untrained staff;

# Old Customs clearance process





# Steps for a Sustainable Single Window Implementation

**The preparatory work took 7 years and included the following steps:**

- Internal Performance Reviews 2003;
- Customs Processes and IT systems diagnosis 2004;
- Rules and procedures Gap analysis 2005;
- Best Practices Workshop in Maputo (attended by 11 countries - 2005);
- MOU with Confederation of Trade Associations for implementation of SeW - 2006;
- *WCO Time Release Study* – 2007;
- International Tender 2009 for identification of partners;
- Start of implementation - Jan 2010.

# Mozambique Single Electronic Window- SeW

Moz SeW is implemented by MCNet a PPP mandated by the Government of Mozambique to implement, operate and ensure sustainability of a Single Electronic Window program for Trade.

The project includes strategic partnership with SGS and Crimsonlogic .

**The aim of the Single Window project is to:**

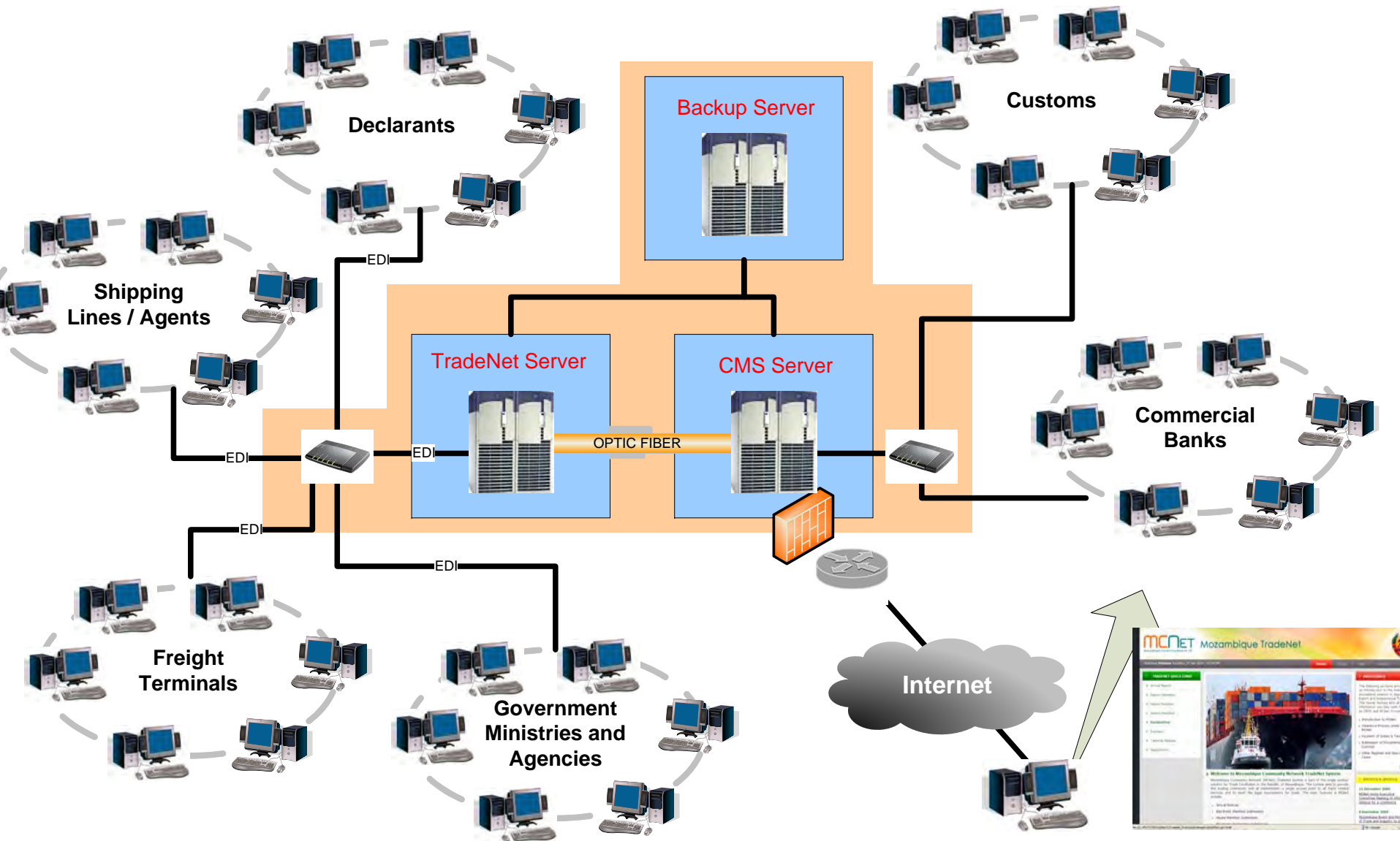
- Provide a centralized electronic platform for trade;
- Reduce clearance times at land borders, port and airports;
- Increase revenue collection and;
- Generally reduce the cost of doing business in Mozambique.



# Mozambique Single Electronic Window- SeW

- Provide the traceability of all the supply chain;
- Provides real time tracking of all customs operations;
- Insure the implementation of administrative and customs procedures;
- Centralizes and consolidates all the supply chain information;
- Compares expected data with real data and reveals discrepancies;
- Insure secure information about customs clearance process for each and any consignment;

# Mozambique TradeNet and CMS



# Mozambique TradeNet and CMS

The screenshot shows the MCNET Mozambique TradeNet website. The header includes the MCNET logo and the text "Mozambique TradeNet" and "Mozambique Community Network, SA". A navigation bar contains links for Home, Alerts, Help, Contact, and Logout. A sidebar on the left lists "TRADENET QUICK LINKS" such as Arrival Report, Master Manifest, House Manifest, Amend Manifest, Declaration, Payment, Terminal Release, and Registration. The main content area features a large image of a cargo ship and a "PROCEEDURES" section with an introduction and a list of topics including Introduction to MCNet, Clearance Process Under MCNet, Payment of Duties & Taxes, Submission of Documents to Customs, and Other Regimes and Special Cases. Below this is a "NOTICES & UPDATES" section with two entries: "15 December 2009 MCNet Hosts Executive Committee Meeting of African Alliance for e-Commerce" and "8 December 2009 Mozambique Board and Ministry of Trade and Industry to start Electronic Declaration Submission".

The screenshot shows the Mozambique Customs Management System (MCMS) login page in a Windows Internet Explorer browser. The browser address bar shows "C:\PROTOTIPO NOVO\Customs\_Prototype\Login.html". The page features the MCNET logo and the text "Mozambique Customs Management System". A login form includes fields for User Name, Password, and Language (set to English), with a Login button and a "Forgot Password?" link. A "PARTNERS" section lists MCNET and Mozambique Community Network, SA. A "WELCOME TO MOZAMBIQUE CUSTOMS MANAGEMENT SYSTEM" section provides a detailed description of the MCMS, stating it provides a common platform for customs system components and streamlines the clearance process. A "USEFUL LINKS" section includes HS code Search, Customs Circulars, Country/Port Search, and Exchange Rate. An "OTHER LINKS" section lists Govt Controlling Agencies and TradeNet Portal. The browser's taskbar shows the start button, several open applications, and the system tray with the date and time (8:25).

# Lessons Learnt

- We went through:
  - Huge coordination effort
  - Each entity had to review and be prepared to change its procedures and processes to fit into the SEW environment;
  - Each entity to agree in “letting go” the paper documents
- Financing – how is this achieved considering the **sustainability and continuous evolution** of such a system was critical;
- **Overcoming infrastructure weaknesses** in developing such as Mozambique with dozens of land borders in remote areas;
- **System reliability** was challenge to be seriously addressed due to the critical role a SEW plays in the trading environment;
- **Legal Framework** was established;
- **Training and capacity building** is a critical area that required carefully planning and execution;



Mozambique is proud to have the first  
Single Window in Southern Continental  
part of Africa

**THANK YOU**

