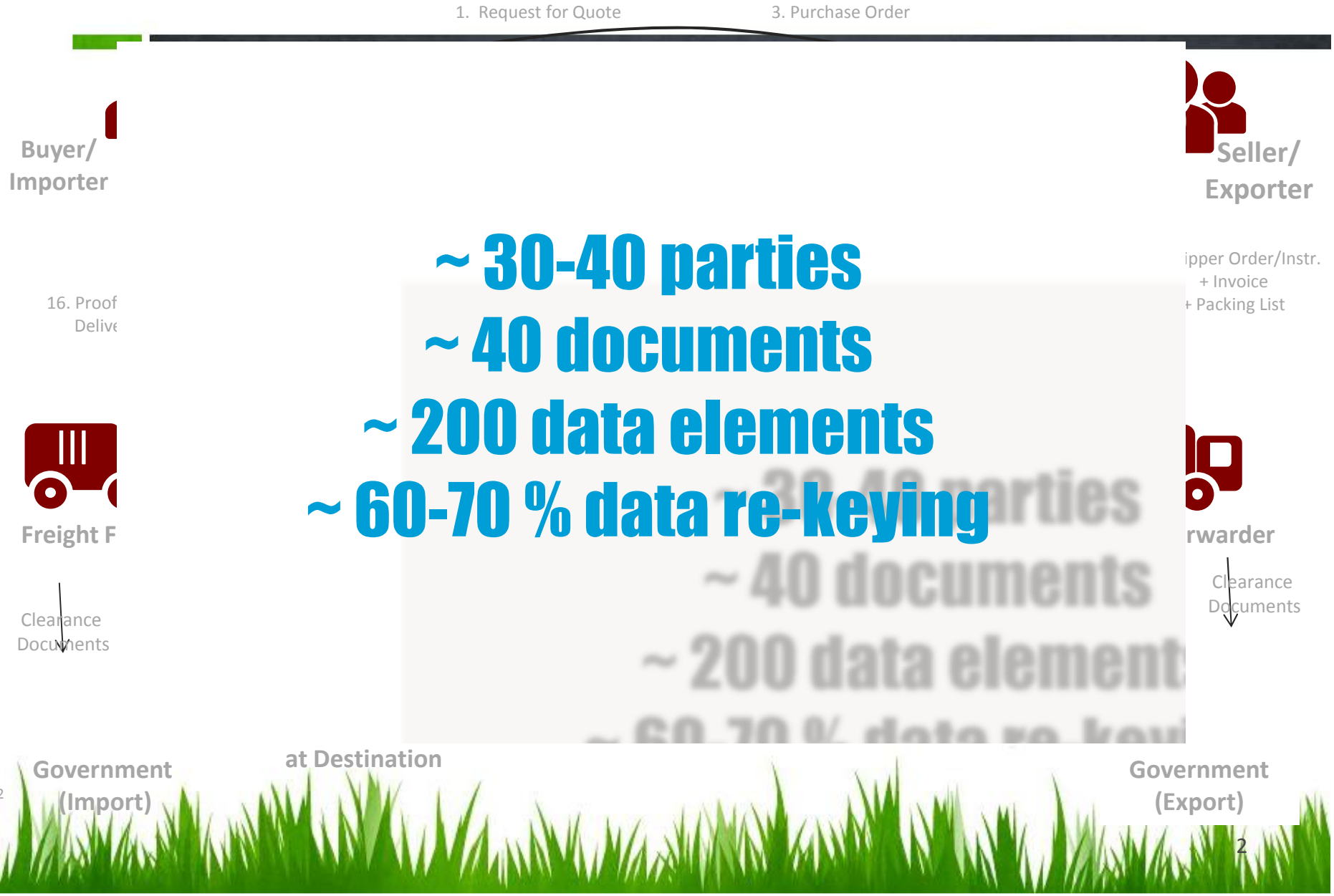
Thailand National Single Window

Information and Communication Technology Bureau
Thai Customs Department

Thailand National Single Window
Why should have Single Window



Evolution of e-Customs and Thailand National Single Window

I

Isolated Organization

Face-to-Face Services

II

Customs EDI Services (G2B, G2G)

UN/EDIFACT and XML (Less paper)

III

Multi Single Electronic Windows (G2B, G2G, B2B)

ebXML/XML PKI/Digital Signature & other standards

IV

National Single Window

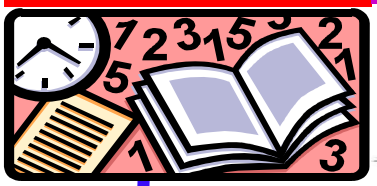
(Integrated Single Window)

ebXML/XML PKI/Digital Signature & others

V

ASEAN Single Windows and other International cross-border data exchange

ebXML/XML PKI/Digital Signature & Others



<----1997 | **1998-2006** | **2006-2008** | **2008-2010** | **2011-2015**

Single Window Concept

UN/CEFACT

Recommendation No. 33

- **"A facility that allows party involved in trade and transport to lodge standardized information and documents with a single entry point to fulfill all import, export, and transit-related regulatory requirements. If information is electronic, then individual data elements should only be submitted once."**

WCO

World Customs Organization

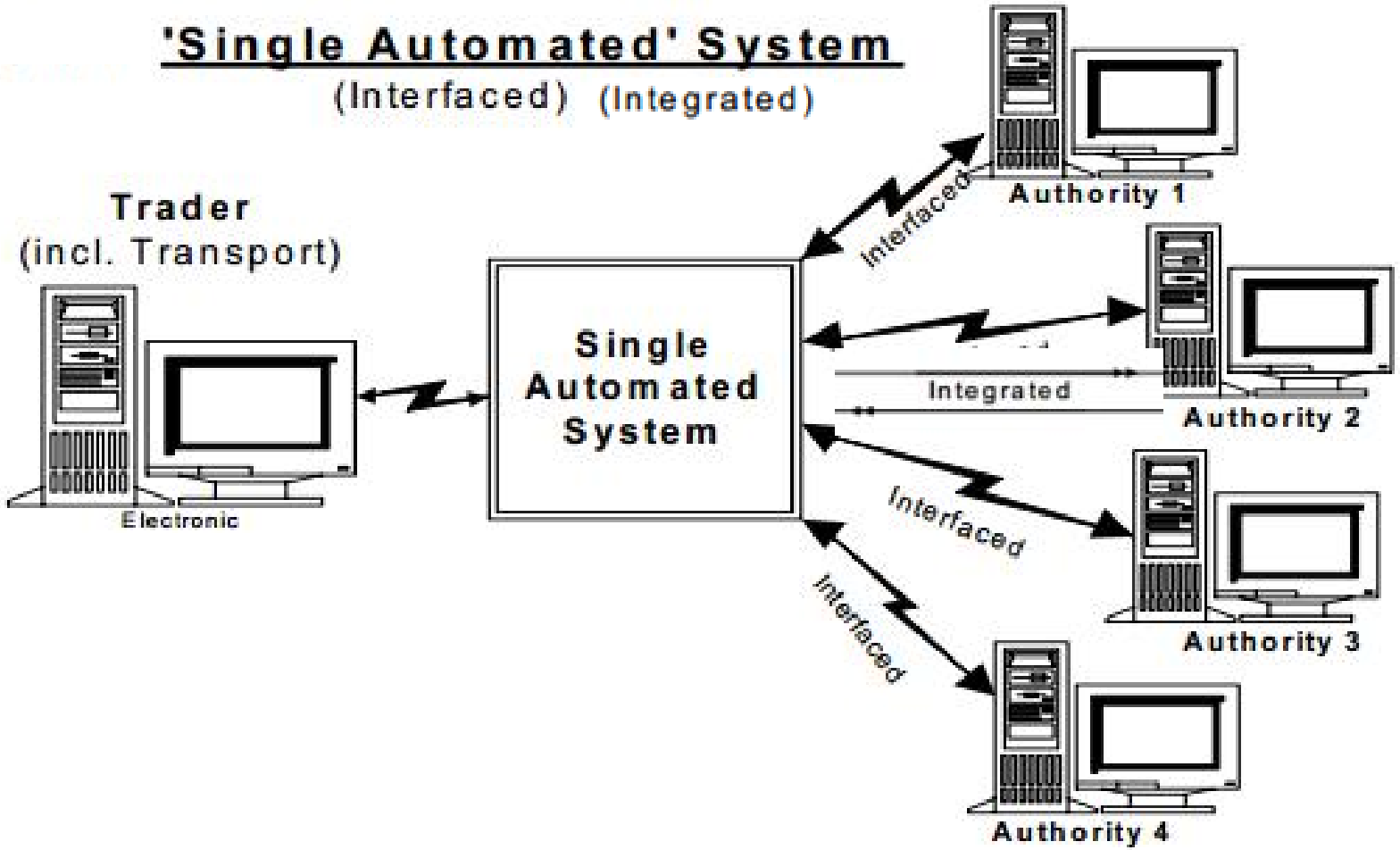
- **A Single Window Environment is a cross border, 'intelligent', facility that allows parties involved in trade and transport to lodge standardized information, mainly electronic, with a single entry point to fulfill all import, export and transit related regulatory requirements.**

ASW

ASEAN Agreement to Establish ASEAN Single Window

- **Single submission, single processing and single decision making for customs release and clearance (summary)**

Thailand Single Window
Conceptual model



Thailand National Single (roles & participants)

Electronic document Exchange Service

- ✓ Document exchange between government agencies (G2G) via Government Information Network (GIN) supported by MICT
- ✓ Data exchange between government and business sectors (G2B) via VAN/VAS providers
- ✓ Data exchange between business sectors (B2B) via VAN/VAS providers

National and International Gateways

- ✓ Integrate / link VAN/VAS (import, export and logistics)
- ✓ National gateway for data exchange between Thailand and ASEAN Members
- ✓ National gateway for data exchange between Thailand and other countries

Participants / Clients

- ✓ 40 government agencies (35 user agencies and 5 support agencies)
- ✓ 125,000 traders (importer,exporter,customs broker, freight forwarder, shipping lines, air lines, sea port, air port, logistics service providers, bank,…)
- ✓ Others (ASEAN Member and other countries….)

National Commitment

National Logistics Committee chaired by the Prime Minister

- ✓ **Minister of Finance, Minister of Industry, Ministry of Commerce, Ministry of Transport, NECDB, ….**
- ✓ **Executives from business sectors**
- ✓ **Thailand National Single Window is one of the National Agendas**

ASEAN Agreement to establish the ASEAN Single Window

- ✓ **ASEAN – 6 (2008)**
- ✓ **ASEAN - 4 (2012)**

Leading Agency

- ✓ **The Customs Department, Ministry of Finance**

Business/Financial Model of National Single Window

- ✓ **Initial funding by the government (100%) supervised by the Customs**
- ✓ **No transaction fee for data exchange among government and trade**

Resources Mobilization / Partnership between Government & Trade

National Committees and Working Groups

- ✓ National Logistics Committee of Thailand
- ✓ National Sub-committee on Data Integration for Import, Export and Logistics
- ✓ Steering Committee on National Single Window Development
- ✓ Committee on Regulatory Framework and Quality Assurance of Thailand National Single Window
- ✓ Inter-Agency Technical Working Group for National Single Window
- ✓ Inter-Agency Legal Working Group
- ✓ Committees and Working Groups (within each agency)

Business process analysis and reforms

- ✓ Group discussion and consultation to simplify and streamline business process among government and business sectors
- ✓ Workshop (focus groups)

ASEAN Meetings and Working Bodies

- ✓ AEC Council, AEM, AFM, ASEAN Customs Director-General, ….
- ✓ ASEAN Single Window Steering Committee (ASW)
- ✓ Technical Working Group for ASW
- ✓ Legal & Regulatory Working Group for ASW
- ✓ Others

ICT and Security Framework Adoption

National Single Window Systems

- ✓ Two National Single Windows (2 data centers)
- ✓ Data Centers comply with ISO security standard
- ✓ 24 x 7 service (non-stop operation)

Certificate Authorities

- ✓ National Root Certificate Authority (Government Information Technology Service)
- ✓ 3 recognized Certificate Authorities comprising CAT-CA, TOT-CA and Thai Digital ID company
- ✓ NRCA and CA inter-operability testing between Thailand and Singapore and Thailand and Taiwan to enable mutual trust and recognition for the use of different digital certificates.

Message Security Inter-Operability

- ✓ Messages exchange within Thailand National Single Window environment utilize digital signature and encryption.
- ✓ Key Pair : RSA 1024 bits, Signature Algorithm : SHA1 with RSA, Data Encrypt Algorithm : 3DES
- ✓ Secure Socket Layer (SSL)
- ✓ Others

Thailand National Single Window 2013

Trading Communities

VAN / VAS

Global Trade

AEC 2015

International Single Window Connectivity

Secure Networks

Web Browser

Certification Authorities

Secure Networks

NSW Portal

Web Self Registration
Web e-Form (Trader and Agency)
Single Window Entry
Community e-Tracking
National Standard Data Set

NSW Primary Site

ASW / International Gateway
Community Gateway and Partner Management
Message Process Orchestration
& Transformation
Business Activity Monitoring

NSW

Thailand National Single Window

NSW Portal

Web Self Registration
Web e-Form (Trader and Agency)
Single Window Entry
Community e-Tracking
National Standard Data Set

NSW Secondary Site

ASW / International Gateway
Community Gateway and Partner Management
Message Process Orchestration
& Transformation
Business Activity Monitoring

Help Desk & Call Center

Secure Networks

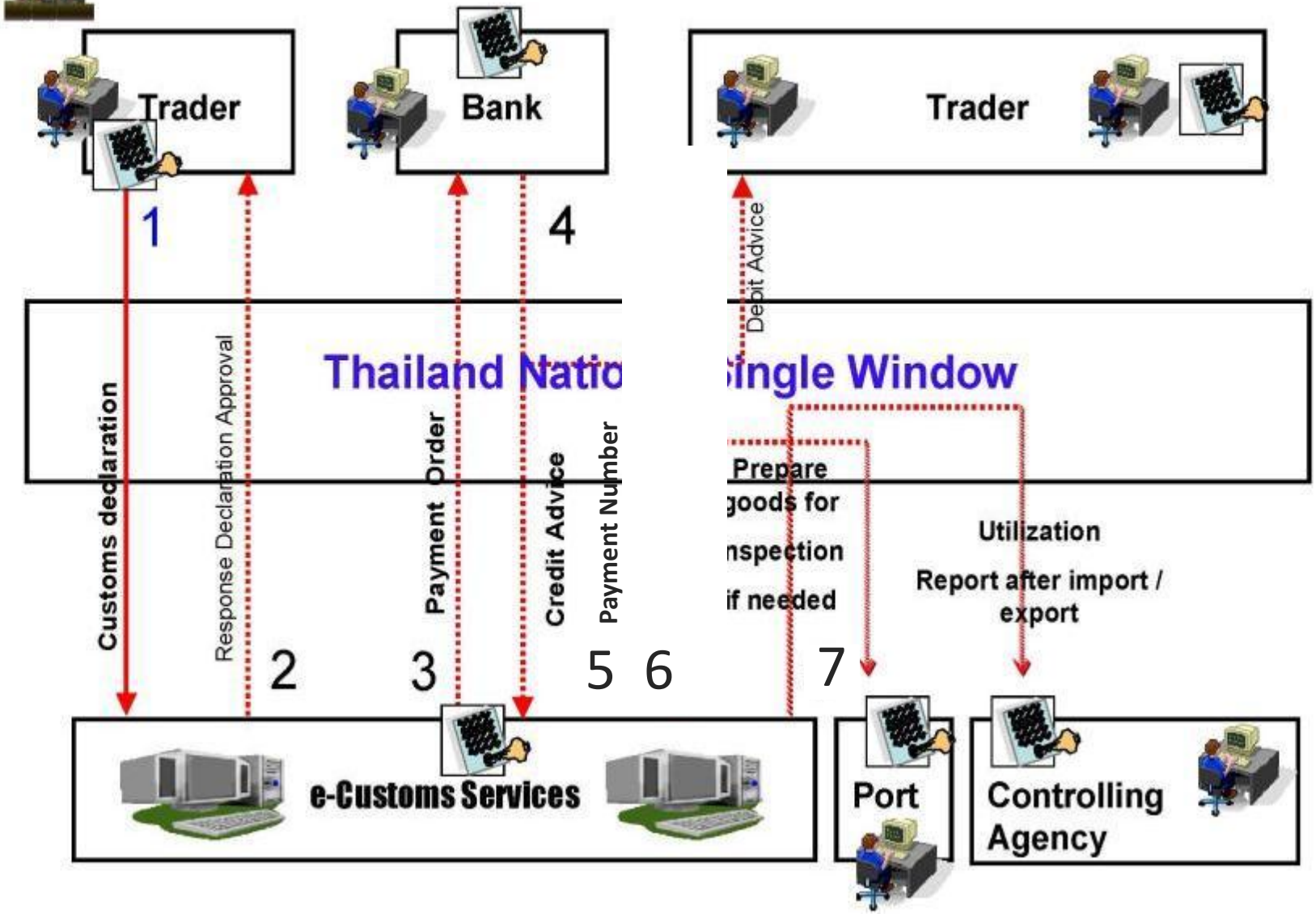
BANK

Insurance

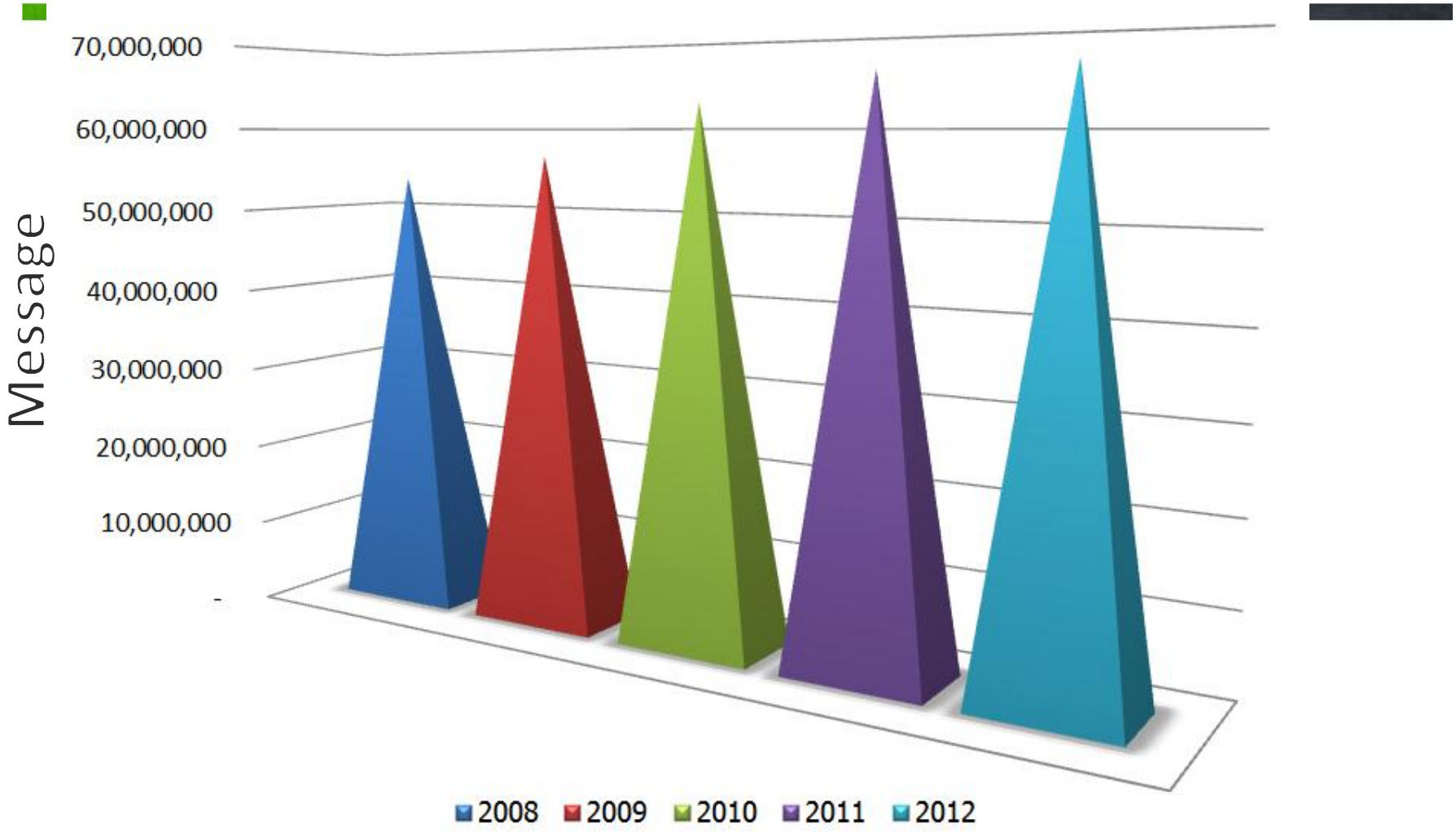
Government Information Network (GIN) and Private Networks

The Customs Department	Department of Foreign	Industrial Estate Authority	Department of industrial works	Department of Livestock Development	The Revenue Department	The Board of Investment	Department of Fisheries	The National Bureau of Agricultural Commodity and Food Standards	The Fine Arts Department	Department of Energy Business	Office of the Cane and Sugar Board
Department of Primary Industries and Mines	Department of Mineral Fuels	Department of Land Transport	Office of Atoms for Peace	Defence Industrial Department	Department of Provincial Administration	Department of Agriculture	Department of Medical Sciences	Department of Forestry	Department of Internal Trade	Electrical and Electronics Institute	Department of National Parks, Wildlife and Plant Conservation
Office of the Rubber Replanting Aid Fund	Airports of Thailand Public Company Limited	Marine Department	Department of Civil Aviation	Department of Mineral Resources	Office of The National Broadcasting and Telecommunications Commission	Thai Industrial Standards Institute	Department of Disease Control	Port Authority	Food and Drug Administration	The Federation of Thai Industries	The Thai Chamber of Commerce and Board of Trade

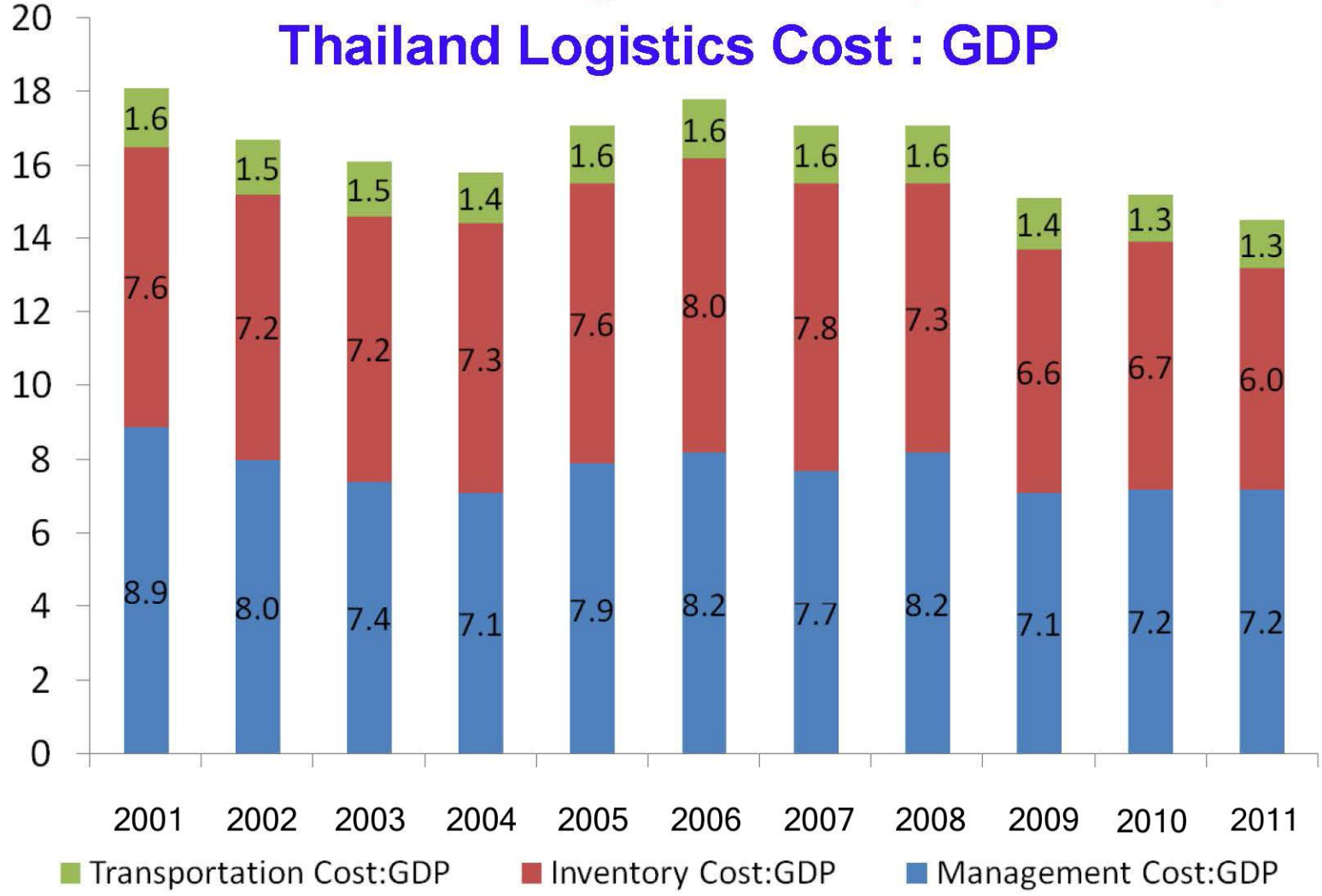
A Single Submission of Electronic Customs Declaration



Thailand National Single Window
NSW Message Statistics



Potential Benefits
Thai National Single Window (2008-2012)



Source : NESDB

Thai Customs Electronic Systems : TCES

Front Office System (17 systems)

- e-Export
- e-Import
- e-Payment
- e-Licensing
- e-Manifest
- e-Express
- e-Tracking
- Profile system
- Account system
- Drawback system
- Reference file system
- Registration system
- RFID System
- GIS System
- Airport interface system
- Customs Fee System
- ebXML Gateway

Back Office System (16 systems)

- Investigation and Suppression system
- Seized Good System
- Lawsuit Information System
- Unclaimed Good System
- Vehicle Information System
- Postal Manifest System
- Fuel Information Tracking
- Internal Audit System
- Laboratory Information System
- Customs Valuation System
- Component Parts