CAREC Time Release Study (TRS) Seminar

Single Window Environment & WCO Data Model

Tokyo, 8 September 2010

Shingo MATSUDA World Customs Organization

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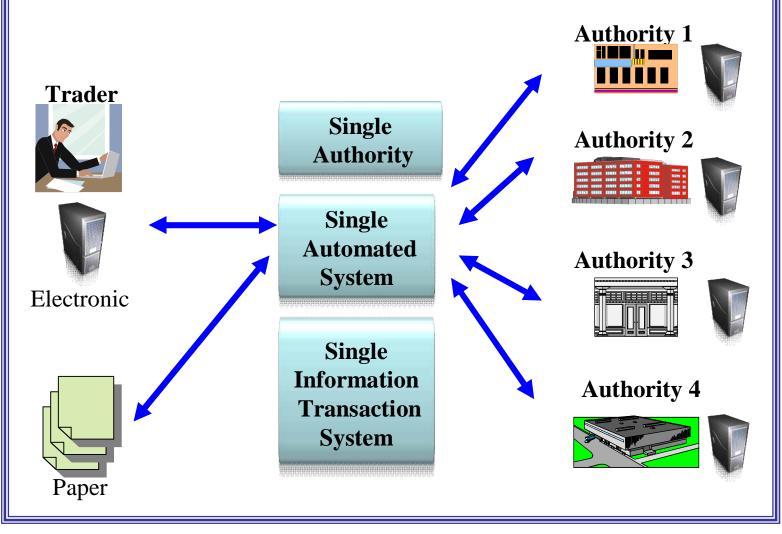
Single Window - Definition

Across border, 'intelligent', facility that allows parties involved in trade and transport to lodge standardised information, mainly electronic, with a single entry point to fulfil all import, export and transit related regulatory requirements.

(WCO unofficial definition)



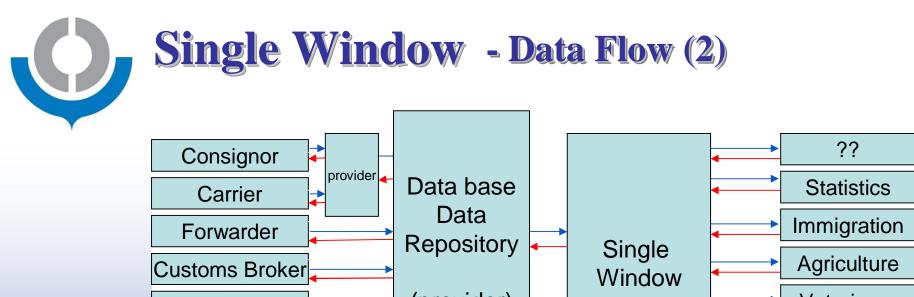
Single Window -- The Most Common Models



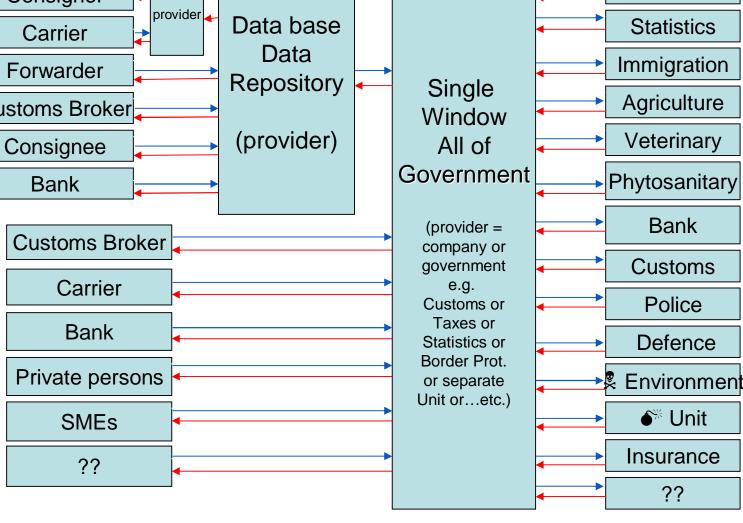
(UN Recommendation 33)

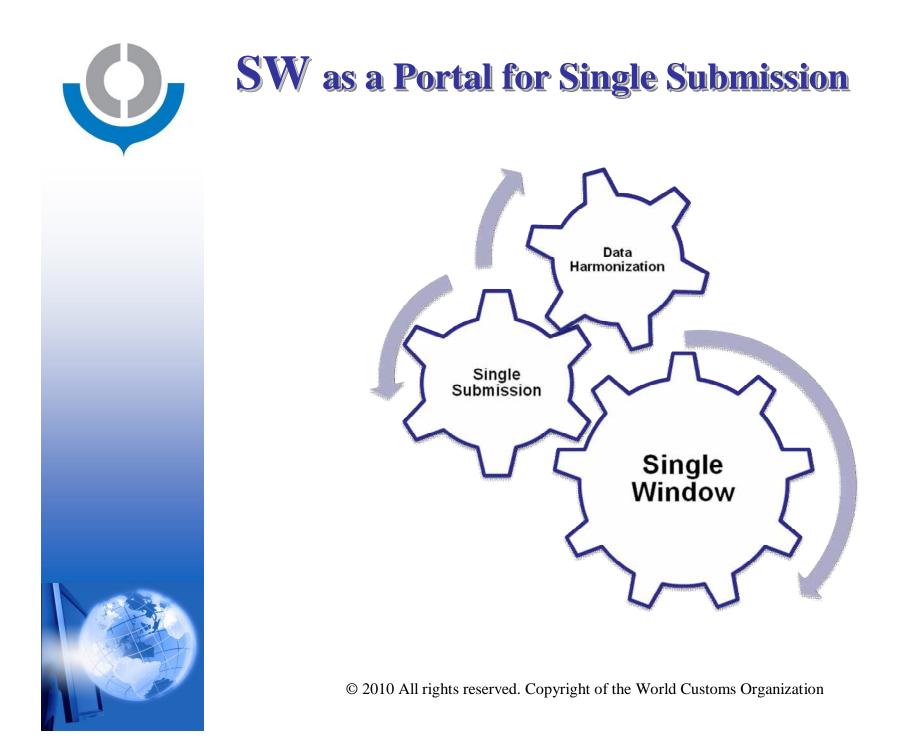


Consignor 🔶		-	•	<u> </u>
Carrier		•	→	Statistics
Forwarder		Oʻra alla	•	Immigration
Customs Broker		Single Window	•	Agriculture
Consignee		All of	•	Veterinary
Bank		Government	•	Phytosanitary
Customs Broke	sr 🕨	(provider =	•	Bank
		company or government	•	Customs
Carrier	_	e.g. Customs or	•	Police
Bank	•	Taxes or Statistics or	→	Defence
Private persons	S •	Border Prot.	→	Environment
SMEs	•	Unit oretc.)	•	
??			•	Insurance
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Single Window Offers

- Single point of data submission
- Single point of response
- > Transmitted to appropriate authorities
- Ability to reuse data submit once use many times
- Data standardisation
- > Online report capability





Benefits of SW

Benefits for Government

- Supply chain security increased
- More effective and efficient use of resources
- Improved trader compliance
- Increased accuracy of trade figures

Benefits for Trade

- Reduced cost of compliance
- Faster clearance and release
- Predictable application/explanation of rules
- Effective and efficient deployment of resources



Single Window - Political & Technical

The Single Window environment is a complex technical issue, but it cannot work without the politics and other non-IT issues being examined first. Be sure to get the policy, legal and administrative frameworks analysed and sorted before looking at technical options.

(WCO Guidelines)

Political

- Developing Political will
- Management Group among border agencies
- Concept paper/feasibility study
- Decide a lead agency
- Policy Harmonization

<u>Technical</u>

- Technical Group among border agencies
- Data Harmonization
- Development of SW system
- Alignment with global standards







- Customs at the Center of SW
- Legal Issues & Customs
- Business Process Re-engineering & Customs
- Information management Issues & Customs
- E-Commerce & Customs

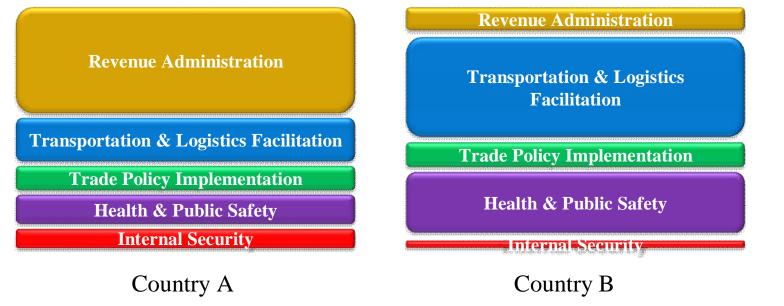






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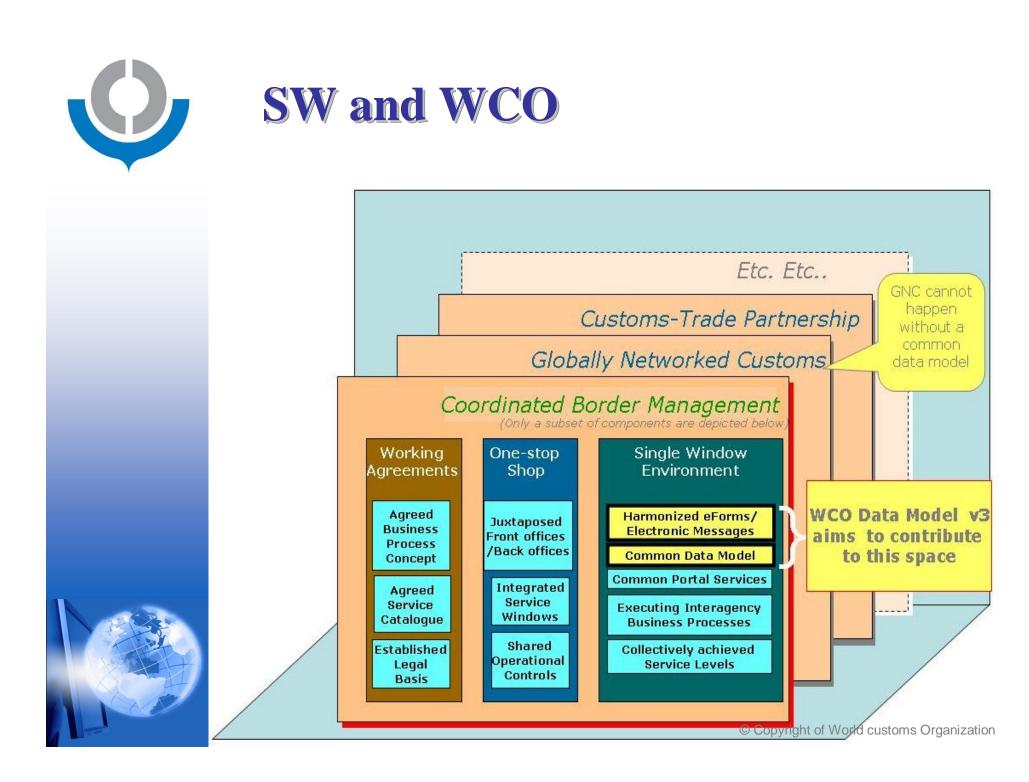






The choice of services for Single Window would depend on the national Customs

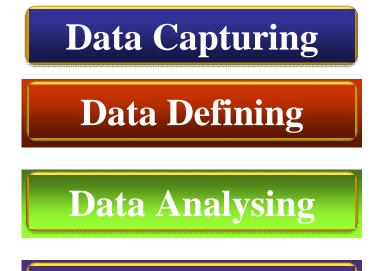
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WCO SW tools available

- WCO SW Data Harmonization Guidelines
- Practical Tool for SW Developer
- Process Guidance on Data Harmonization



Data Reconciling





WCO SW tools available

- WCO Initial Functional Assessment
- Practical Tool for Customs
- Initial Assessment on data required by OGA
- Originally designed to identify functions of OGA in relation to WCO Data Model 3.0
- Also useful for initial stage of SW to identify stakeholders and their functions

Contents of Questionnaire

- 1. Demographic Information (Details of OGA)
- 2. OGA Functions/Capabilities (Import, Export, Post-Release, Enforcement ...)
- 3. OGA System Information





WCO SW tools available - WCO Data Model Version 3.0

<u>History</u>

- WCO Customs Data Model, Ver. 1.0 (Jun2003)
- WCO Customs Data Model Ver. 2.0 (Jun2005)
- WCO Data Model Ver. 3.0 (finalized in Dec 2009)

WCO Data Model Version 3.0

- Simplifying reporting of goods, cargo & conveyances
- Implementing Single Window business processes
- Implementing complex requirements of partner Cross-Border Regulatory Agencies
- Dealing with complex schemes for duties, taxes/fees
- Helping prepare the blueprint for customs automated system

- Transit (incl. e-TIR)





WCO Data Model Component

Data Mode

WCO Data Model 3.0

XML Schemes / messages Other readers, Guidelines etc

Message implementation guidelines

International code standards

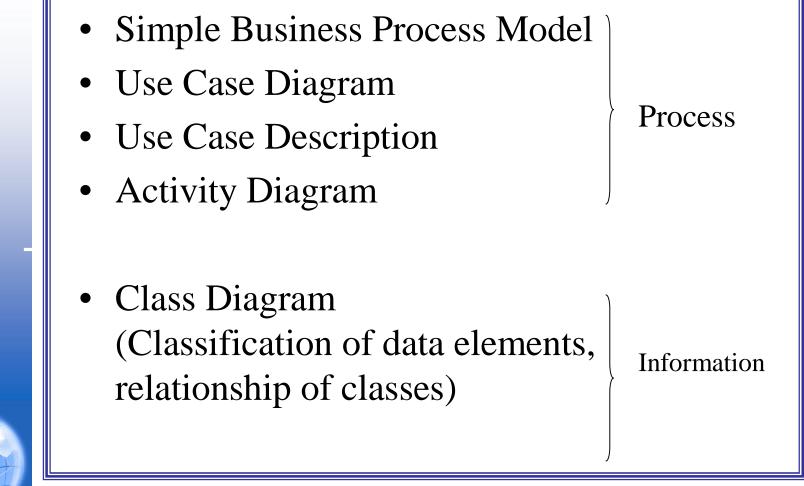
Information models

Harmonized maximum data sets

Business Process Models

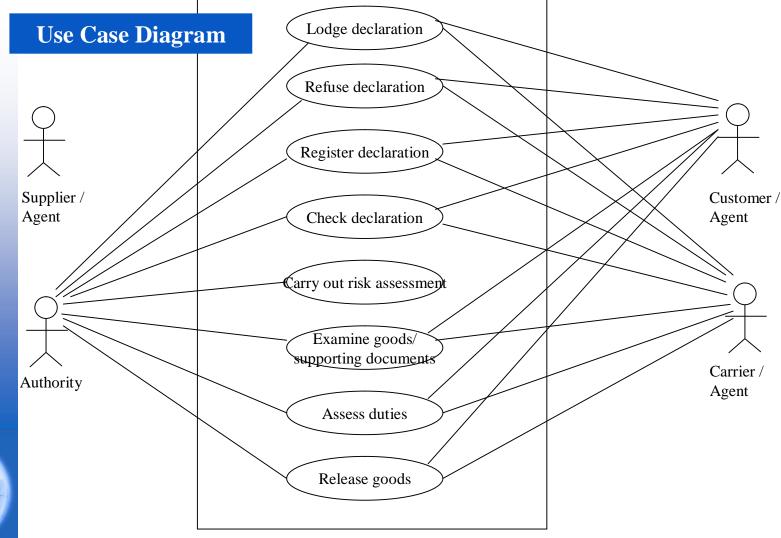


WCO Data Model Component - (1) Business Process Model



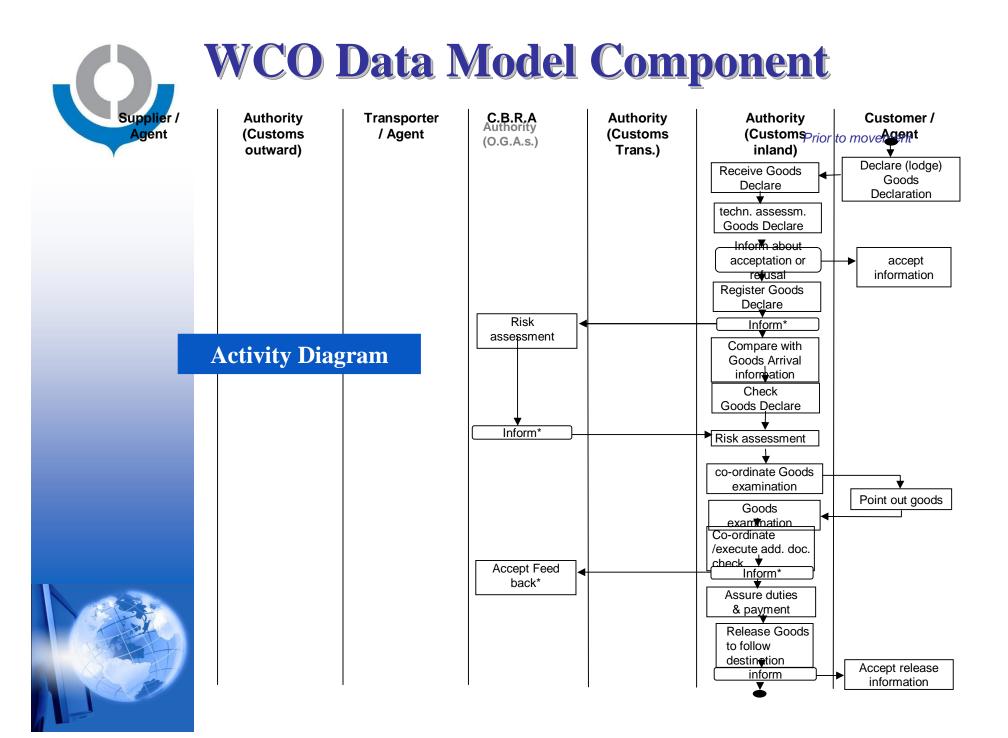


WCO Data Model Component





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WCO Data Model Component - (2) The Data Sets

- Maximum data in 11data sets for 11 different procedures – in total 450 data elements
- Based on the 2005 Edition of the UNTDED
- Detailed information about a single data element



	A	В	С	D	Е	F	G	H	1	J	K	L	M	N	0
WCO details				2	2	reqance	etails			0 details	UNTDED Details		10		
23	VCO ID	Name	Definition	Data model classes		Erpo	Convet	Tran:	Resp	Format	Code remarks	UID	Name	DENs	CALL.
4						Ē	ll-	Ì٦	l-I	-		-	-		П
86	149	Conveyance reference number	number, flight number, trip number.	BorderTranspo rtMeans TransitTranspo rtMeans	X	×	×	×		an17		8028	TransportMeans.Jou rney.Identifier		>
87	150	Number of containers	Total number of freight containers or similar unit load devices.	BorderTranspo rtMeans			×			n6		8046	Consignment.Transp ortEquipment.Quantit y		
88	151	Equipment supplier type, coded	Code identifying a type of party that is the supplier of transport equipment.	TransportEquip ment						n1	EDIFACT codes	8077	TransportEquipment. SupplierPartyType.C ode		
89	152	Equipment size and type identification	Code specifying the characteristics, i.e. size and type of a piece of transport	TransportEquip ment	×	X	×	×		an4	ISO, IATA, EDIFACT or user codes	8155	TransportEquipment. Characteristic.Code		>
90	154	Transport equipment loaded status	Code specifying how full a piece of transport equipment is.	TransportEquip ment	X	X	X			n1	EDIFACT codes	8169	TransportEquipment. Fullness.Code		
91	156	Departure date and time	Date and time of departure of the means of transport.	rtMeans TransitDepartur	×		×	×		an17 (CCYYMMDD HHMMMSSS)		2380	Date Or Time Or Period. Text		
92	157	Container legal status indicator	Indication of the container's legal status with respect to the Container Convention.	ment						n1	0 = no, 1 = yes	8193	TransportEquipment. LegalStatus.Code		
93	159	Equipment identification number	load device.	EquipmentIdenti fication	X	X	×	×	×	an17	ISO 6346, IATA	8260	TransportEquipment.l dentifier		>
94	161	Previous government procedure	Code specifying the government procedure, if any, which has been applied to the goods prior to the application of a different government procedure.	GovernmentPr ocedure	×	×				an7	For Customs: User codes, categorized based on the revised Kyoto Convention.	9033	Customs.PreviousPr ocedure.Code		
95	162	Arrival confirmation indicator	Indicator that the start date of a customs control is confirmed or not.	Consignment	×					n1	0 = no, 1 = yes	7365	Processed.Indicator. Code		
96	163	Party relationship, indicator	Indication as to the effect of relationship existing between two parties such as financial relationship	CustomsValuat ion	X	×				n1	0 = no, 1 = yes	7365	Processed.Indicator. Code		T
90 97	164	Type of duty regime, coded	Code specifying a type of duty regime.	DutyTaxFee	х	X		\vdash	\vdash	an3	EDIFACT codes	9213	Duty.Regime.Code	\vdash	t
98	165	Seal number	The identification number of a seal affixed to a piece of transport equipment.	TransportEquip ment	X	×	×	×		an35		9308	TransportEquipment. Seal.Identifier		}



WCO Data Model Component - (3) Information Model

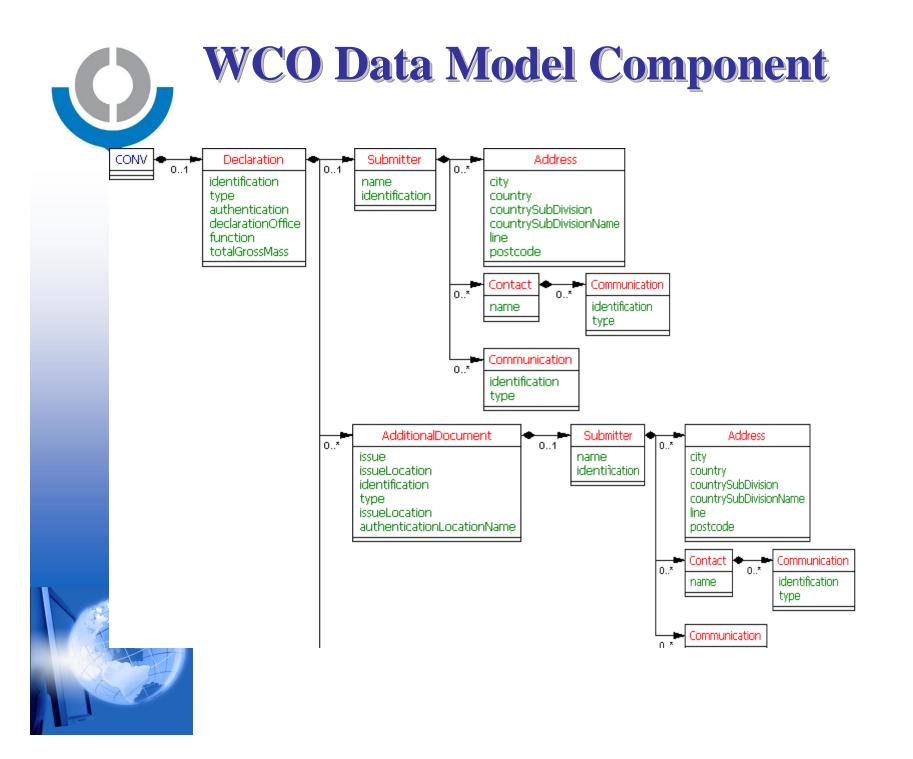
Modelling Objectives

- Establish a basis for designing and developing information systems and messages
- Analysis of business processes
- Optimisation of business processes

Modelling Standards

- UMM-UN/CEFACT Modelling Methodology
- UML2 Unified Modelling Language







WCO Data Model Component - (4) International Code Standard

Examples

- WCO The Harmonized System
- ISO 3166 Country codes
- ISO 4217 Currency codes
- ISO 6346 Container codes
- UN/Rec. No. 5 Incoterms
- UN/Rec. No. 16 UN/LOCODE
- UN/Rec. No. 20 Units of measure
- UN/Rec. No. 28 Type of means of transport
- Wassenaar codes Dual use goods





WCO Data Model Component - (5) Message Implementation Guidelines

- Assisting users to implement a WCO Data Model message
- Description of the exact usage of the data sets
- For XML generic implementation principles, Schemas and messages



WCO Data Model; Top 4 Benefits

- Reduces costs to trade by simplifying data requirements
- Improves reporting and compliance by improving the quality of data
- A comprehensive reference on cross border regulatory data standards
- Enables SW implementation
 - Can be used as the basis for Data Harmonization
 - Includes data requirements from Customs, statistics, agriculture
 - Provides an electronic message solution for SW



Ongoing Works on WCO SW

- Other ongoing work in this area
 - WCO Guide on Single Window
 Business Processes
 - WCO Guide in handling supporting documents in a Single Window.
- Compendium to come out in June 2011.
 - How to Build a Single Window Environment?
 - Coordinated Border Management
 - Risk Management



Thank you for your kind attention.

For more information please visit the WCO Web site: <u>www.wcoomd.org</u>

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