



# Introduction to the WCO Data Model

Geneva, 20 June 2016

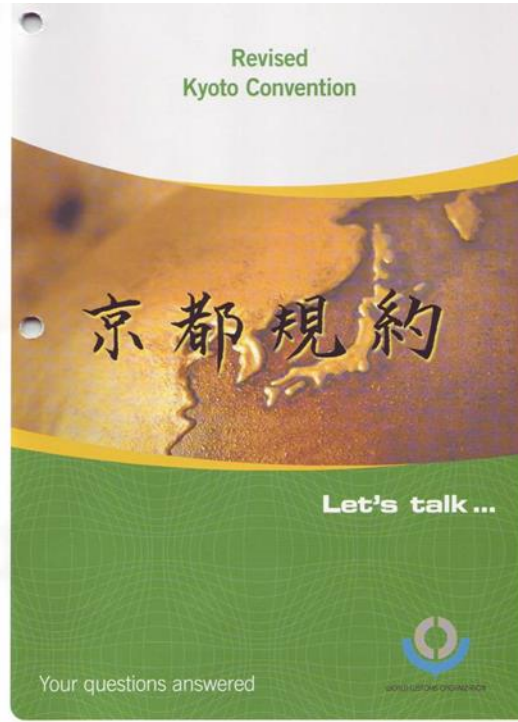
Seminar for the Promotion of Electronic Exchange of Customs Information

***CROSS-BORDER TRANSACTIONS***

***ON THE FAST TRACK***



# WCO Revised Kyoto Convention



- » DM Business Process is based on RKC
- » RKC: Blueprint for Modern Customs Administration)
- » International Convention on the Simplification & Harmonization of Customs Procedures 1999
- » 3.11, 7.2: Use of UN Layout Key and use of international standards for electronic information exchange;
- » 3.18: Lodging of supporting documents by electronic means;
- » 3.21: Lodging of goods declaration by electronic means



# WCO Data Model: Background

- **History**
  - » Initiated by the G7 in 1996
  - » To expedite export and Import process between themselves
  - » Transferred to the WCO to gain international exposure 2001
- **Since version 3 covered Single Window Requirement in additions to Customs.**
  - » Further developed and maintained by the Data Model Project Team
  - » Meets regularly 3-4 times a year, Next meeting will be in September 2016
  - » DMPT is an Open meeting for WCO Member Administrations, IOs, IGOs, as well as private sector
  - » DMPT underway the development activities in the Session (offline) and in the intersession through online facility.

WCO Governing  
Bodies

Permanent Technical  
Committee (PTC)

Information  
Management Sub  
Committee (IMSC)

Data Model Project  
Team (DMPT)

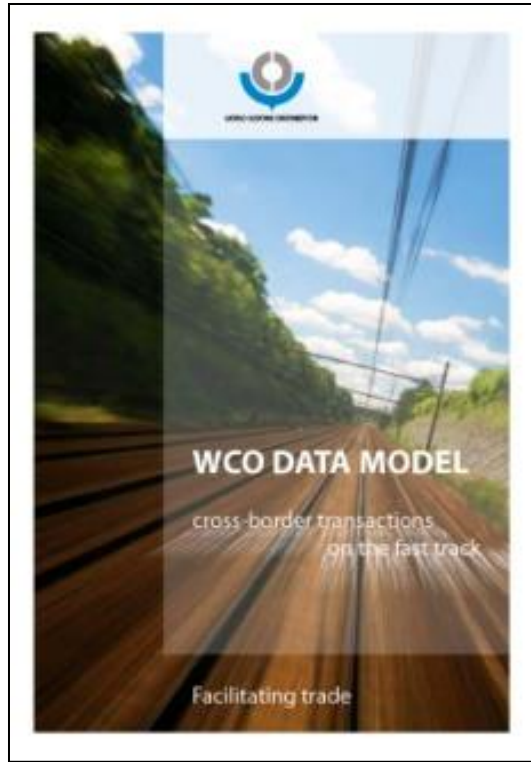


# WCO Data Model: Definition

- » Library of regulatory data requirement that consists of
- » standardized and reusable components,
- » to meet the procedural and legal needs of cross-border regulatory agencies such as Customs,
- » controlling export, import and transit transactions



# WCO Data Model: Purpose



- » The WCO Data Model ensures interoperability between government agencies' reporting requirements and enables information to be shared and exchanged among relevant government agencies, including Customs,
- » resulting in greater facilitation for Trade.



# WCO Data Model:

## ○ Top Benefits

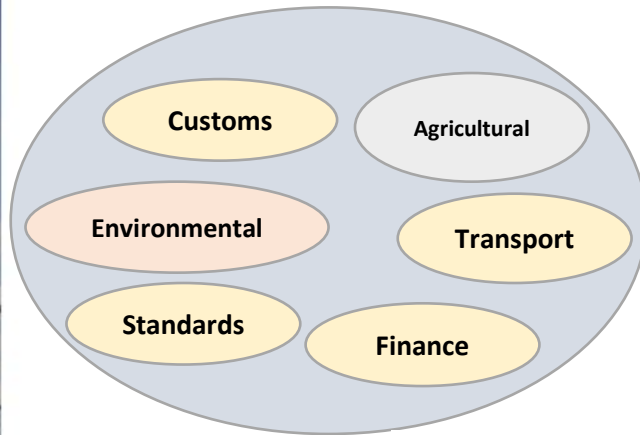
- » Reduces costs to trade by simplifying data requirements
- » Improves reporting and compliance by improving the quality of data.
  - Meets requirements of several international conventions.
  - Is aligned with widely used international standards
- » Enables Single Window implementation
  - Can be used as the basis for Data Harmonization
  - Includes data requirements from Customs, agriculture, environment & marine safety
  - Provides an electronic messaging solution for Single Window



# Single Window Architecture Model

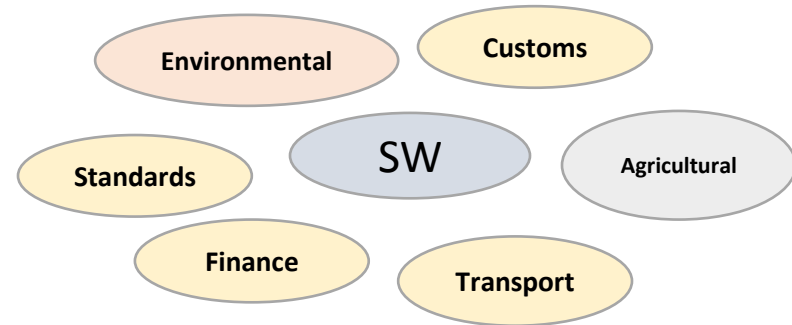
## Functional distribution

### Integrated Service



**Single Window Operator**  
Responsibility includes running IT systems

### Interfaced Service



**Single Window Orchestrator**  
Responsibility for standards and interface specifications

High

Extent to which Lead Agency will operate IT systems

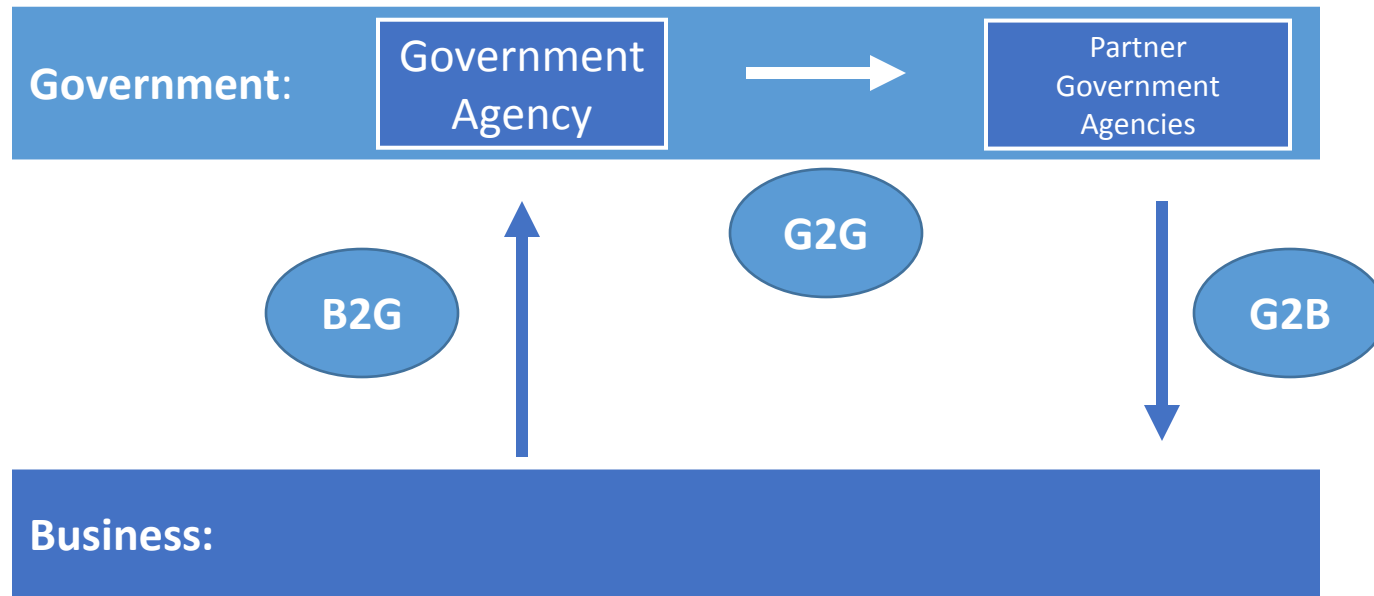
Low

Common or centralized IT systems for CBRAs

Separate or distributed IT systems for CBRAs



# WCO Data Model Coverage: Regulatory Space





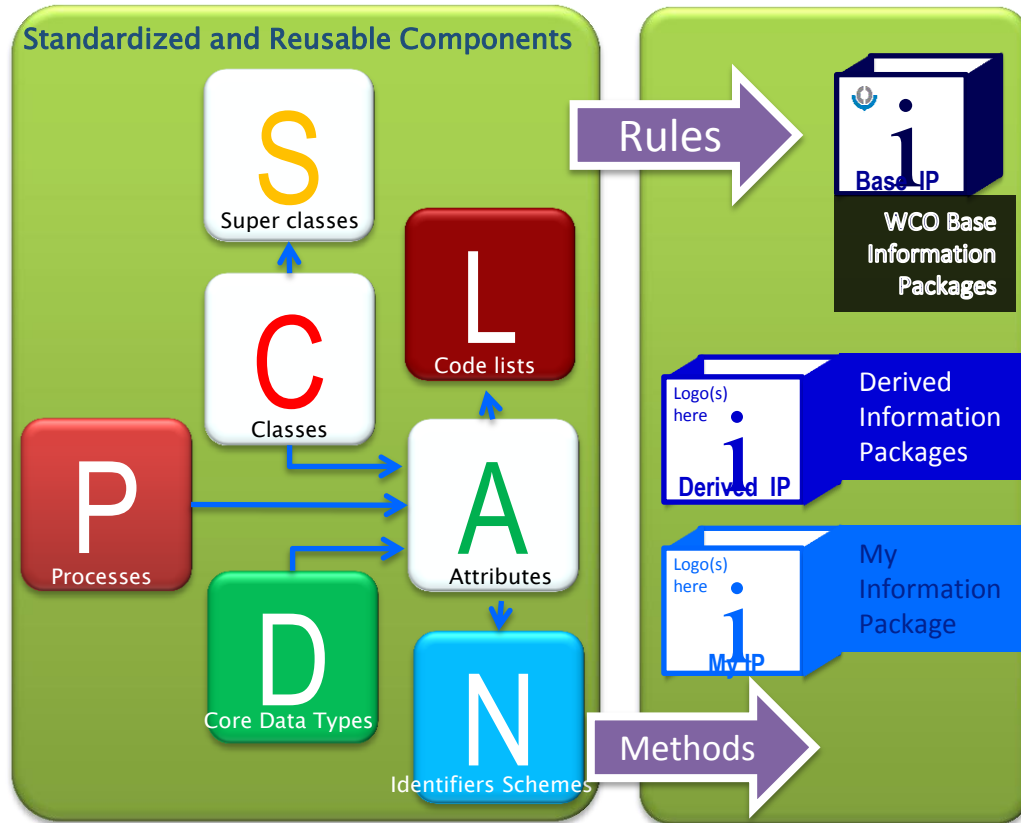


# WCO Data Model Building Block

|                   |                        |                          |
|-------------------|------------------------|--------------------------|
| <b>Syntax:</b>    | GOVCBR                 | XML                      |
| <b>Structure:</b> | Classes                | Information Package      |
| <b>Content:</b>   | Maximum Dataset        | International Code lists |
| <b>Context:</b>   | Business Process Model |                          |



# Information Package Concept



- » WCO Data Model: regulatory data requirement library that consist of standardized and reusable components:
- » as it is, the library doesn't serve any specific function
- » **Information Package:** Logical organization of standardized and reusable component of DM library to serve more specific purpose
- » Derived Information Package: Derived from legislation / convention



# Information Packages

MIP

NATIONAL IMPLEMENTATIONS

DIP

EU CDM

SAD

TRT

IMO

UPU

MSW

TIR

EU COO

BIP

Declaration

Response

LPCO

Intergov

[max.  
dataset]

WCO Data Model



# In the Data Model package

(as published on the website)

- **Maximum Dataset**
  - » List of unique data elements
- **Model Structures**
  - » Tree represent the overall structure of data elements of the WCO Data Model
  - » WCO Id, name and format representation
  - » Mapping to xml tag name
  - » Mapping to GOVCBR data elements
- **UML Class Diagram**
- **XML Schemas**
  - » Without notes
  - » Enriched with notes
- **GOVCBR MIG**



# Latest Development by DMPT

- **Version 3.6:**
  - » Released in May 2016
  - » Includes EU Customs Data Model Derived Information Package
  - » Report of conformance study of the Import and Export data of ASYCUDA
  - » Member Driven Quality Control Process
  - » Mapping of FAL Form 1 on General Declaration
- **Version 3.7**
  - » ongoing
  - » Study on Master Data requirements
  - » Further on study on ASYCUDA based systems conformance to the WCO Data Model, specifically on Transit data requirements.
  - » Technical Maintenance of the IMO FAL Compendium, Model Harmonization
  - » Study on XML Interoperability.
  - » Further development of Business Process Model of Information Packages.



# To Summarize ...

- **Toward Standardized and harmonized regulatory interface**
  - » As opposed to complex redundant and time consuming process
  - » Seamless regulatory coordination through the use of ICT
  - » Transparent complexities in the background / back office
  - » Integrated regulatory decision making process



**Thank you**

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