



WORLD CUSTOMS ORGANIZATION  
ORGANISATION MONDIALE DES DOUANES

# **WCO Data Model Private Sector Usages – Trader Perspectives**

**Sue Probert  
SEPIAeb Ltd**



# Many Different Trader Interests

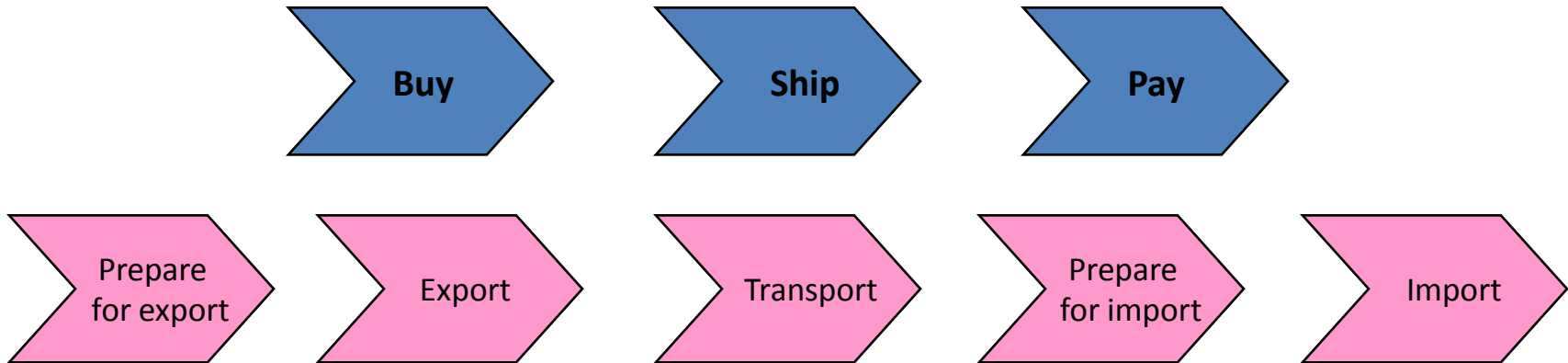
- Declarants
  - Importers and Exporters
  - Carriers
  - NVOCCs (Non-Vessel Owning Common Carrier)
- Agents
  - Freight Forwarders
  - Third and Fourth party logistics providers
  - Customs Interface service providers
- Software System Providers
  - Import/export software systems providers
  - Customs, Cross-Border Agency and Single Windows software providers
  - Web-based cross-border solutions



# Increasing Challenges and New Opportunities

- Revised Kyoto Convention and new national and regional legal requirements place ever greater responsibility on importers/exporters and carriers for the provision and accuracy of their declared data
- Similarly cross-border International Conventions are developing electronic equivalents for trader required certificates, Licences etc. and are increasingly encouraging electronic rather than paper submissions
- Direct filing efficiencies
- Ever increasing data collection requirements in quantity and timing
- Agents challenged to adjust to the changes and enter new markets
- Emerging technologies
- Single Windows single submission interfaces requiring more coordinated data management

# UN/CEFACT International Supply Chain Reference Model



**Commercial Procedures**

- Establish sales contract
- Order goods
- Advise on delivery
- Request payment

**Transport Procedures**

- Establish transport contract
- Collect, transport and deliver goods
- Provide waybills,
- Goods receipts, etc.

**Regulatory Procedures**

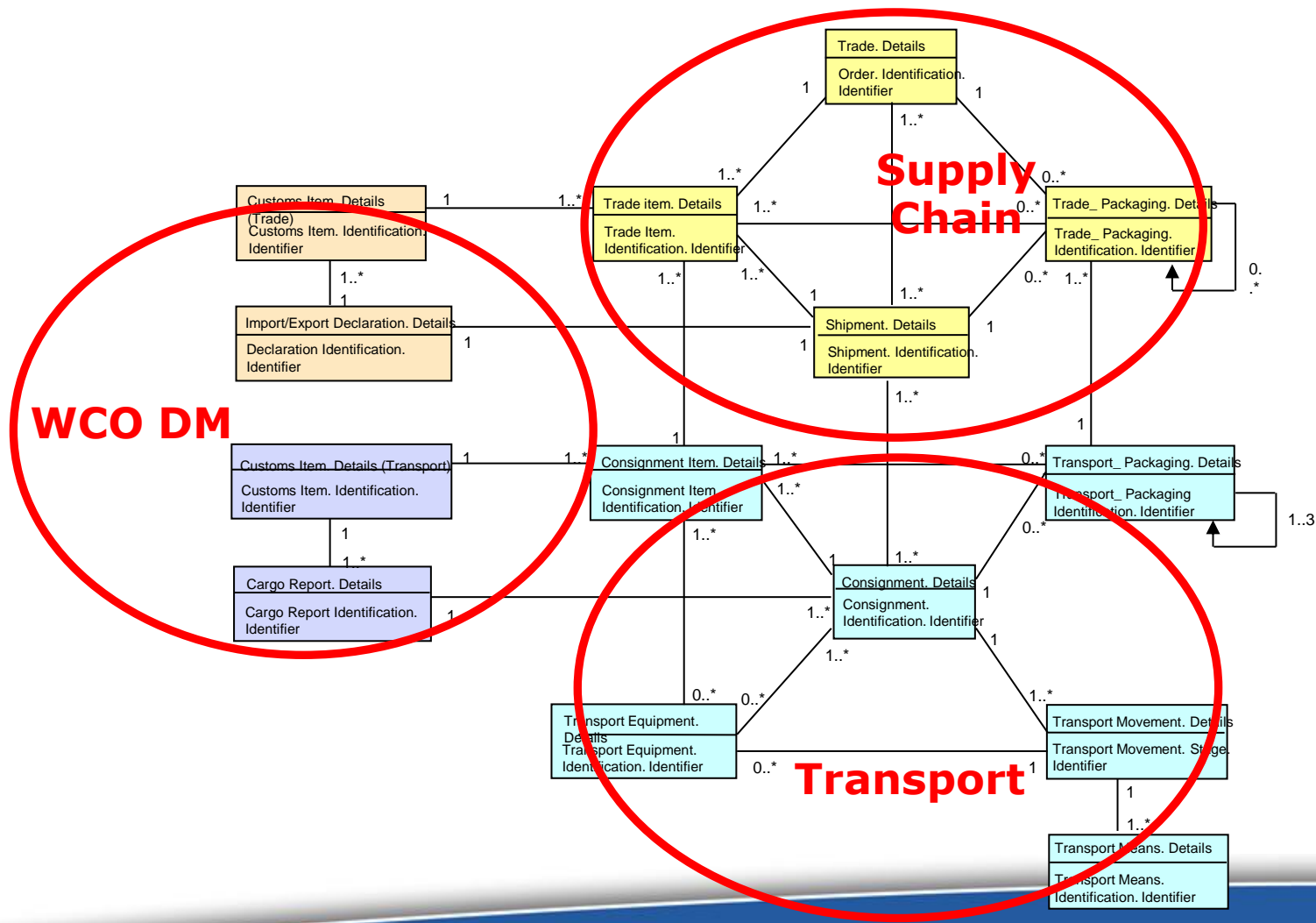
- Obtain im/export licenses etc.
- Provide Customs Declarations
- Provide cargo Declarations
- Apply security measures
- Clear goods

**Financial Procedures**

- Provide credit rating
- Insurance
- Execute payment
- Issue statements

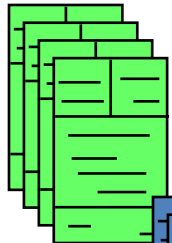


# The UN/CEFACT International Supply Chain Data Entity Diagram





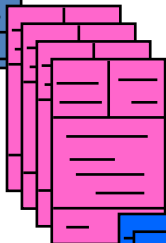
# The Paper World of Today based on the UN Layout Key



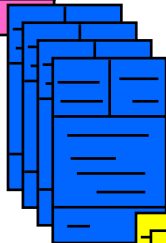
Trade Documents – Quotation, Order, Invoice etc.



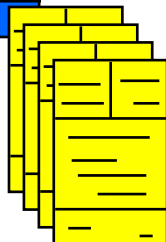
Materials Management Documents – Despatch Advice, Pick List, Packing List etc.



Transport Documents – Bill of Lading, Shipping Instructions etc.



Customs Documents – Export, Import, Transit Declarations, Cargo Reports etc.



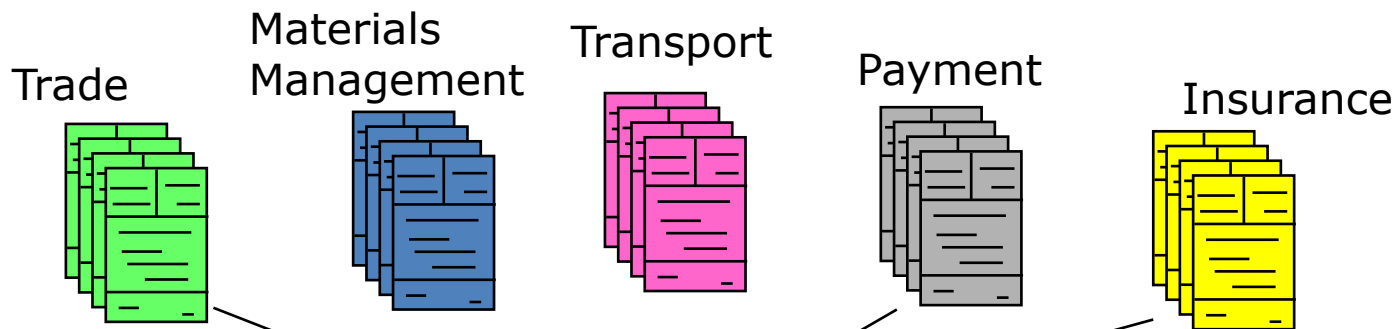
Other Regulatory Documents – Cert of Origin, DGN etc.



WORLD CUSTOMS ORGANIZATION  
ORGANISATION MONDIALE DES DOUANES

# View of a Future Electronic World through Single Windows

UN/CEFACT CCL



B2B

B2G

Customs

Other Govt. Agencies

G2G

WCO DM



# What does the WCO DM offer Traders

- Global language to talk to Customs and Partner Border Agencies
- Common global approach across cross-border Agencies
- Harmonised procedures
- Harmonised and object modelled data structures
- Hierarchical reusable message structures
- Aligned Information Package methodology
- More common interfaces will be possible globally following increased adoption by multiple agencies





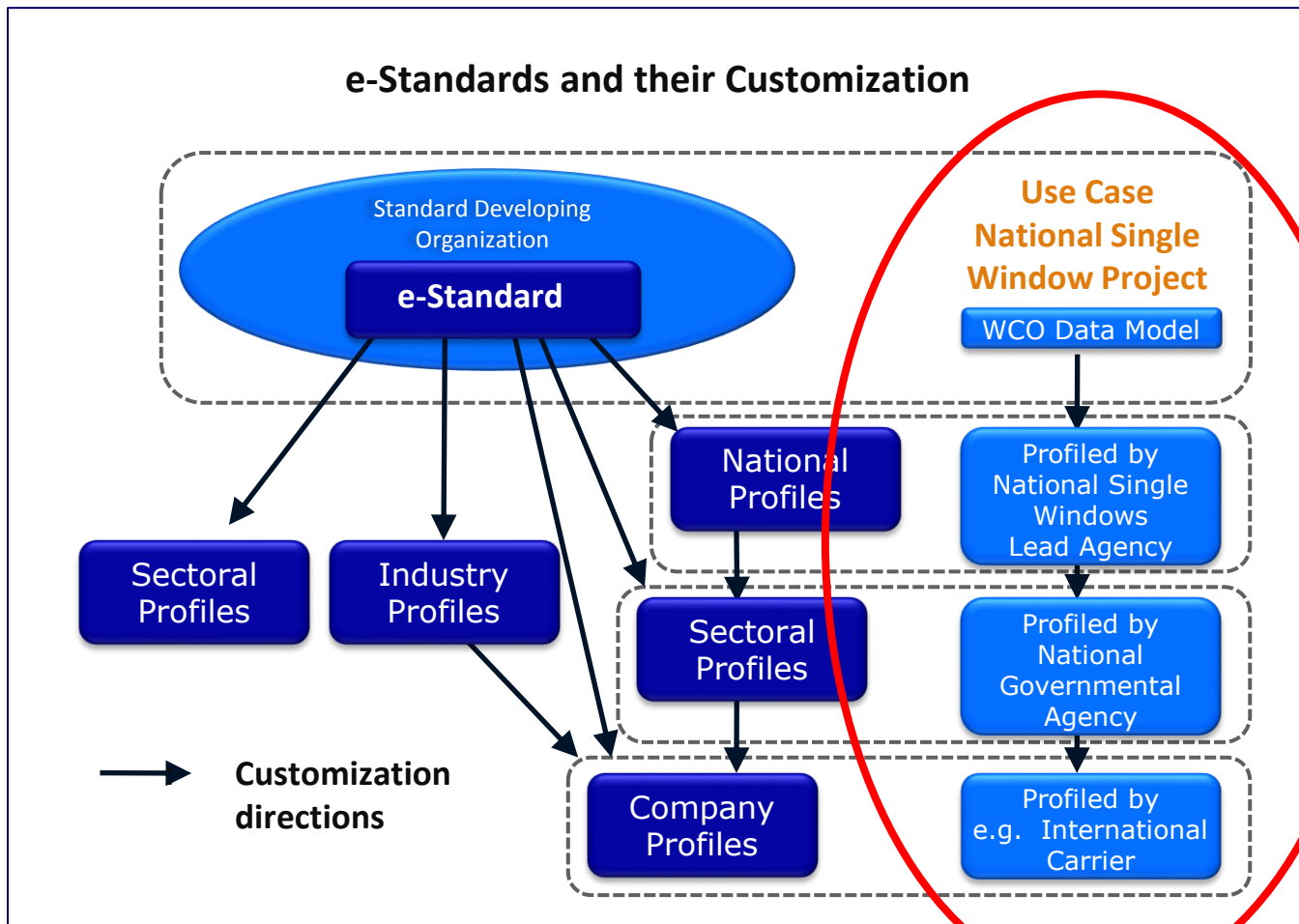
WORLD CUSTOMS ORGANIZATION  
ORGANISATION MONDIALE DES DOUANES

# WCO Data Model Applications – Example Trader Use Cases

# Example of Increased Private Sector reuse of WCO Data Model

- CONEX is proposing a one-stop shop for security declarations in multiple countries, each with their own technical specifications and their own national data models.
- In order to have a single interface for users, Conex has used the WCO Data Model version 3.3
- The result is a clear, single interface for users instead of different specifications for each country.
- Conex has then brought this experience back to the WCO Data Model by actively participating in the focus group on Advanced Electronic Information which is convened by Lance Thompson of CONEX

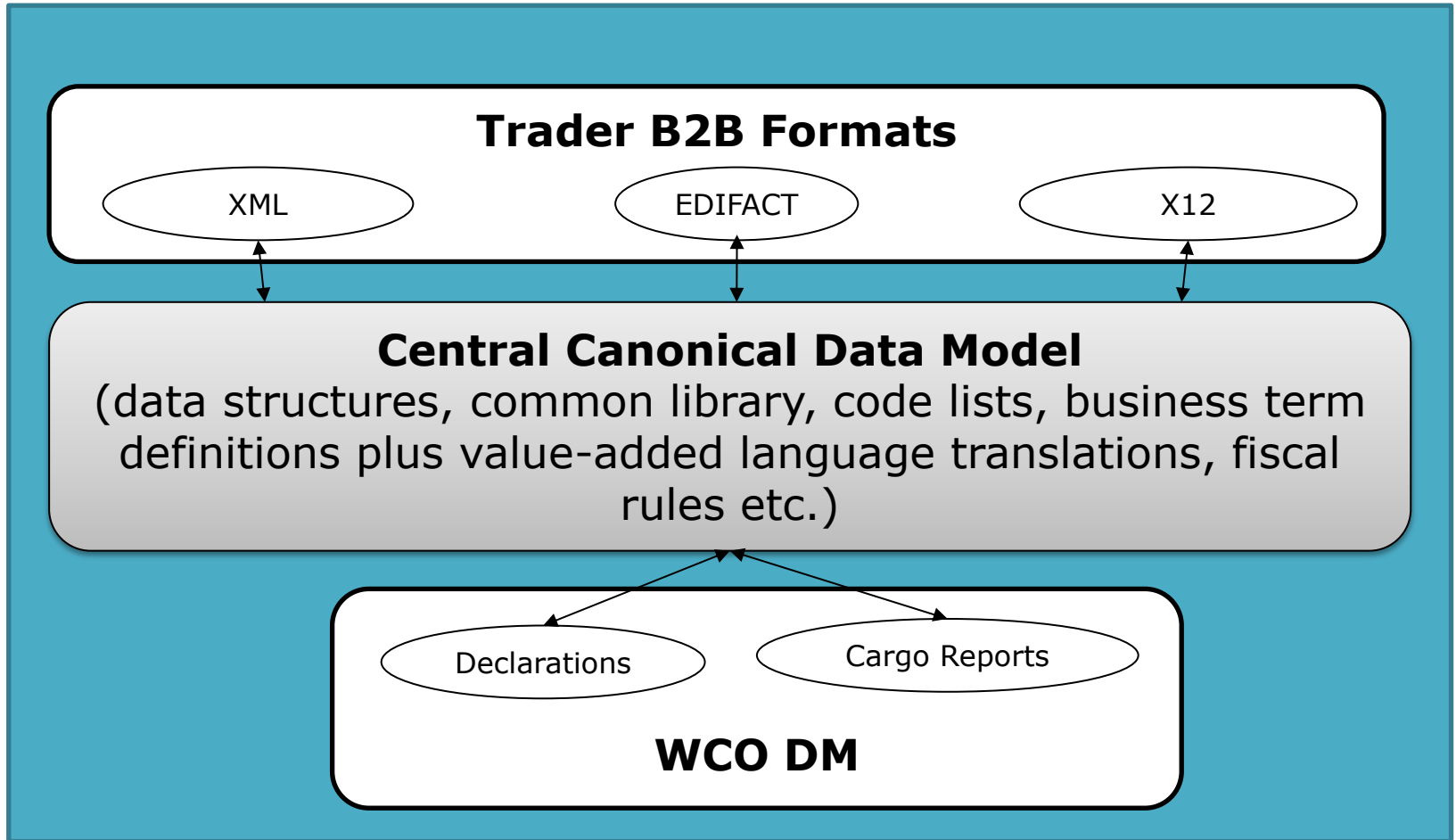
# Single Window Use Case



Copyright GEFEG mbH 2012



# Canonical Data Model Use Case



Mapping ↔

# Repository object view

# An ERP Use Case

