

Sixth Technical Cooperation Workshop for the Western Balkans

— Skopje 8/9 Feb 2024

Sue Probert UN/CEFACT Chair





Agenda

- UN/CEFACT Mandate and Objectives
- UN/CEFACT Focus & Deliverables
- UN/CEFACT Collaborative Semantic Harmonization
- International Supply Chain Reference Data Models
- How regulations shape UN/CEFACT standards and are supported to assist trade facilitation







UN/CEFACT Mandate & Objectives



to develop and facilitate the use of global standards for electronic business, trade facilitation, and related areas.



enhance international trade efficiency and effectiveness contribute to the advancement of the Sustainable Development Goals



Development of Standards

Harmonization & Interoperability

Capacity Building

Advocacy for Best Practices

Collaboration & Cooperation









UN/CEFACT Focus: Develop Data Exchange Standards

- >To streamline international trade documentation processes through digitalization, reducing paperwork and administrative burdens
- >To enhance traceability in cross-border supply chains
- >To mitigate and improve risk management and resilience, ensuring business continuity.
- >To support semantic harmonization across the data requirements of trade, transport and regulatory processes.
- >To enable measuring, comparing, and reducing carbon emissions throughout the supply chain.



Transport & Logistics

Cross-Border Regulatory

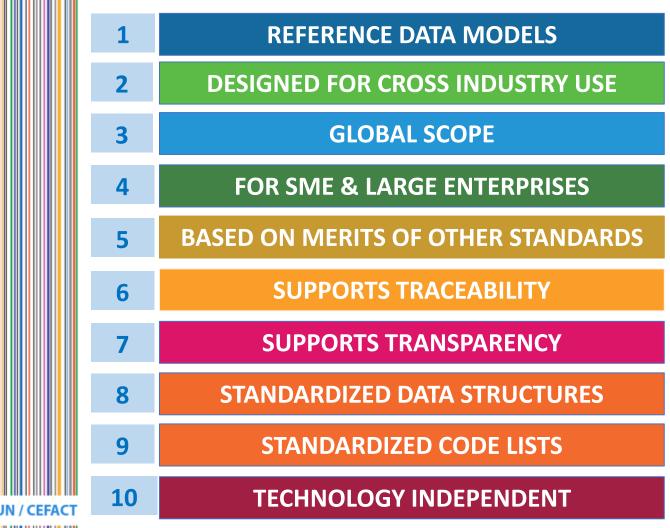
Track & Trace

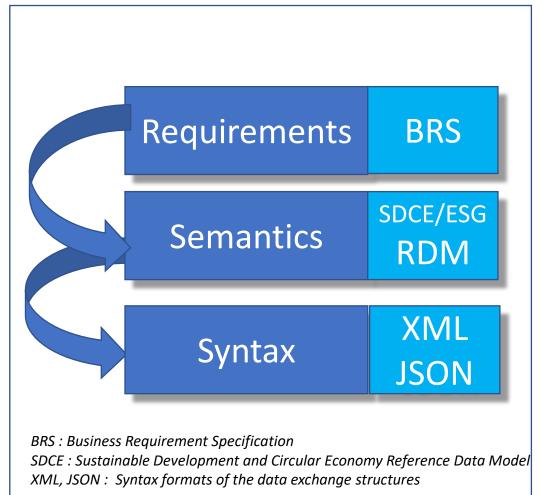
Risk Management and Resilience





UN/CEFACT eBusiness Standards Delivrebles









(A) UNECE

UN/CEFACT: Collaborative Standards

Harmonization

Partnership Agreement signed

between the International Maritime Organization (IMO), the World Customs Organization (WCO), the United Nations **Economic Commission for** Europe (UNECE) and the International Organization for Standardization (ISO) to harmonize data model for IMO **Convention on Facilitation of**

International Maritime

Traffic (FAL) **Public-Private** partnership

1600+ volunteer experts





























DG MOVE

adopted our standards as a basis for two EU regulations

eFTI & **EMSW**

EC **DG-MOVE DG-TAXUD DG-MARE DG-INTPA DG-DIGIT EEC OECD**

DCSA GS₁ **IPCSA**

PROTECT

FIATA

SMDG

WCO

IATA

ISO

IEC

ITU

WTO

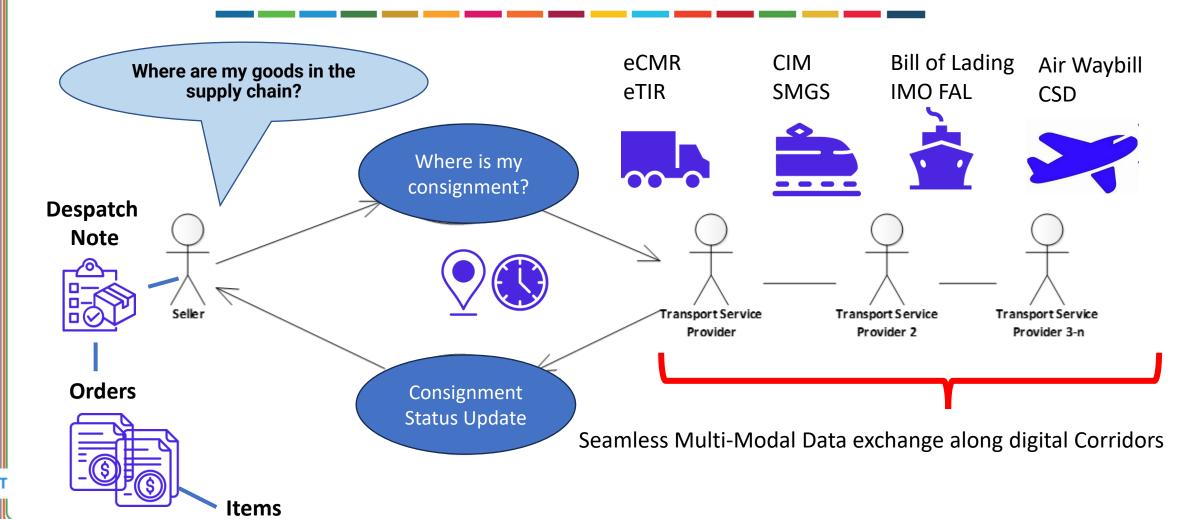
ITC







UN/CEFACT Focus: Semantic Standards Bridging Cross-Industry and Multimodal Transport Chains

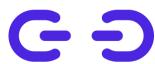








UN/CEFACT Focus: Semantic Standards Bridging Trade & Transport Views



The disconnect between trade and transport data for the goods being transported using different modes of transport. e.g., Tracing the goods offer evidences of the place of origin of the products supporting Single Window goals.



Stakeholders involved in trade and transportation of goods use terms and definitions in different ways. e.g., consignments versus trade deliveries (trade shipments)









UN/CEFACT Focus: Semantic Anchors

Shipment (Trade Delivery)

A shipment is an identifiable collection of one or more Trade Items (available to be) transported together from the Seller (Original Consignor/Shipper) to the Buyer (Final/Ultimate Consignee):

A Shipment can only be destined for one Buyer

A Shipment can be made up of some or all Trade Items from one or more Sales Orders

A Shipment can have only one Customs UCR

A shipment may form part or all of a Consignment or may be transported in different Consignments.



Consignment

A consignment is a separately identifiable collection of Consignment Items (available to be) transported from one Consignor to one Consignee via one or more modes of transport as specified in one single transport service contractual document:

A Consignment can only have one Transport Service Buyer

A Consignment can only have one Transport Service Provider

A Consignment can only have one Consignor

A Consignment can only have one Consignee

The Transport Service Buyer can be either the Consignor or the Consignee

A Consignment is made up of **one or more Consignment Items**

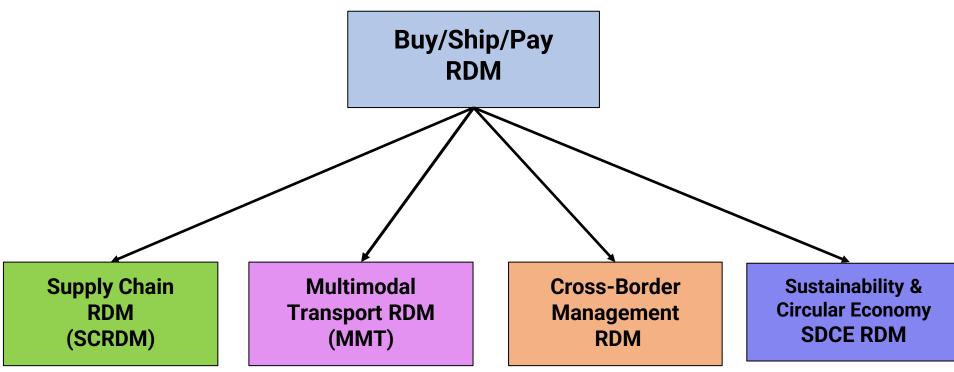
A Consignment can be made up of some or all Trade Items (aggregated into Consignment Items) from one or more Shipments



UN/CEFACT evolution/revolution – Semantic Reference Data Models

- The support for information sharing, such as enabled by data pipelines, with the timely capture of quality data from original data sources ensuring supply chain visibility
- Reduction of administrative burden by efficient reuse of data shared within the BUY SHIP PAY domain model
- Standardized data exchange structures, based on common Master data exchange structure and independent of exchange syntax
- Common basis for implementing in chosen data exchange syntax(es)

UN/CEFACT Reference Data Model Family



Order Despatch/Receipt Advice **Receipt Advice** Invoice **Remittance Advice Travel & Tourism Experience** Scenario

Shipping Instructions Road & Rail Consignment

Notes Bill of Lading Container Gate In/Out **IoT Smart Container** Manifest

Export Declaration Import Declaration Certificate of Origin SPS Certificate CITES Permit

Event Traceability Product Transparency Circular Product Data Protocol Textile & Leather Tracking

Regulations are taken into account

Initial Contributions



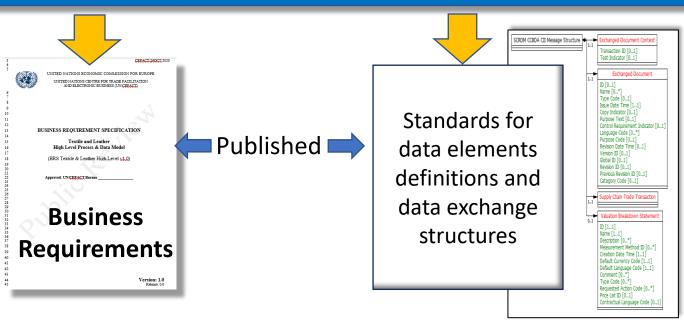
Policy Recommendations



Workshops, experts feedback



Business Requirement Specifications for ...







Regulations are translated into data exchange requirements

Regulations

eCMR
eFTI
EMSWe
eCERT (sanitaryphytosanitary
certificates)
CITES

Functional & data requirements

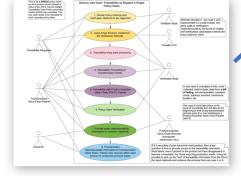
1	Agent / Trader	An agent or trader is a person who has been legally empowered to act on behalf of
		another person or an entity.
2	Brand Owner	A person or company who sells any commodity under a registered brand label.
3	Consumer	A person who purchases goods and services for personal use.
4	Customer	A person or company who buys goods or services from another company.
5	Dye/Bleach, Wash provider	A person or company whose trade is the dyeing, bleaching or washing of cloth or other material.
6	Effluent Treatment Party	An individual, group, or body having a role in effluent treatment, meaning cleaning industrial effluents, contaminated water from rivers and lakes, and so on in order to reuse the water for additional purposes. Along such lines, water is reutilized and sustained.
7	Farmer	A person or company engaged in agriculture business, field crop growing, cattle rearing for the meat or others productions (hides, milk, egg, wool, etc), breeders, raisers, finishers etc.
8	Ginner	A person or company who operates a cotton gin machine which separates the seeds and hulls from the cotton fibre.
9	Inspector / certifier	A person or company who inspects something, such as a product, process, organization, to ensure that it complies to requirements or regulations.
10	Laboratory Party	An individual, group, or body having a role in laboratory observations.
	Manufacturer	A person or company which makes finished products from raw materials or intermediary products in order to make a profit.
12	Kre.	A person or company who recycles, or uses machines to recycle.
13	Retailer	A person or company that sells goods to the public in relatively small quantities
14	Slaughter	A person ampany (slaughterhouse) who slaughters animals, most often to

Business Requirement Specification

Scope

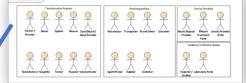
Traceability

Process diagrams

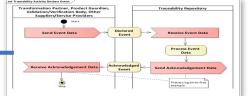


Test and enhance

Actors involved



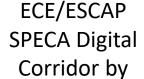
Data exchanges



Data structures

Data definitions

Period	Inspection	Facility Machine/ Device	Production Note Cycle	Assertion (Claim) Fault	Tolera
Inspection Event	Sustainability Inspection		1//	Treatment	
Chemical	Material	Proc	***	Parameter	
Material Goods Charateristic	Product Batch	-//		Binary File	
Technical Characteristic	Product Worked Hem (job)	Certification Certification	Characteristic	Document	
		Assertion (Claim)	Referenced Standard Metric Characteristic	Value Parameter Tolerance	



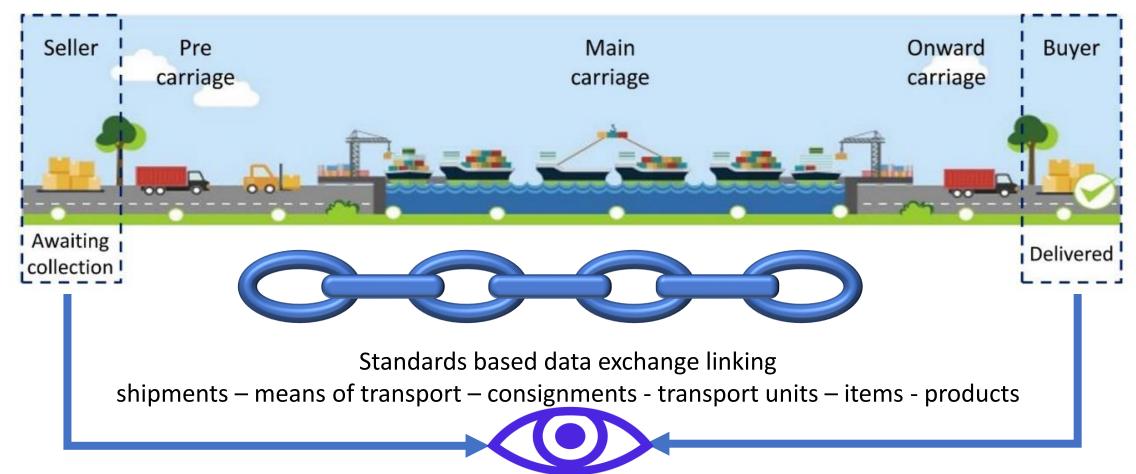
Pilots







UN/CEFACT Focus: Unifying Global, Cross-Industry, Cross-Border & Multimodal Supply Chains







CBM RDM Project Purpose

Provide a Regulatory Reference Data Model based on the UN/CEFACT Buy/Ship/Pay Reference Data Model to:

- Assist cross-border agencies to link international supply chain B2B data to national or regional crossborder management data requirements
- Support pipeline data submission from trusted traders
- Complement harmoniously the existing RDMs for trade and transport

Considering:

- **Trading Partner Collaboration**
- Data Harmonisation and Rationalisation
- Alignment to Cross-Border Agency Regulations and Standards Semantic Mappings B2B B2G G2B G2G

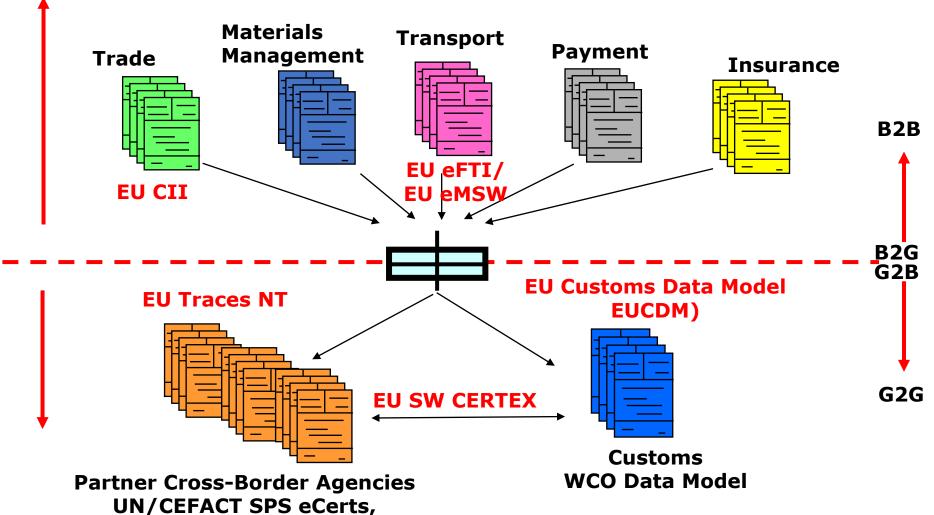
https://uncefact.unece.org/display/uncefactpublic/Cross-Border+Management+Reference+Data+Model

Key Single Window Semantic Aspects

- Public side and Government side speak different languages or, at least, different dialects
 - Affects names and definitions
 - Affects data quality
- Partnership approach using harmonised names and definitions will offer increased quality and mutually beneficial facilitation
- Pipeline provision of data in trusted trader programs
- Primary and Secondary data views
- Managing moving targets

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UN/CEFACT Buy/Ship/Pay Reference Data Models Single Windows Document Families – European Union Perspective



Pref CoO etc.

For further Information

- All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at:
- www.unece.org/cefact/
- Experts are always welcome to join our standards development and trade facilitation projects

UN/CEFACT Secretariat

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