Transport & Trade connectivity in the age of pandemics: Project closing event
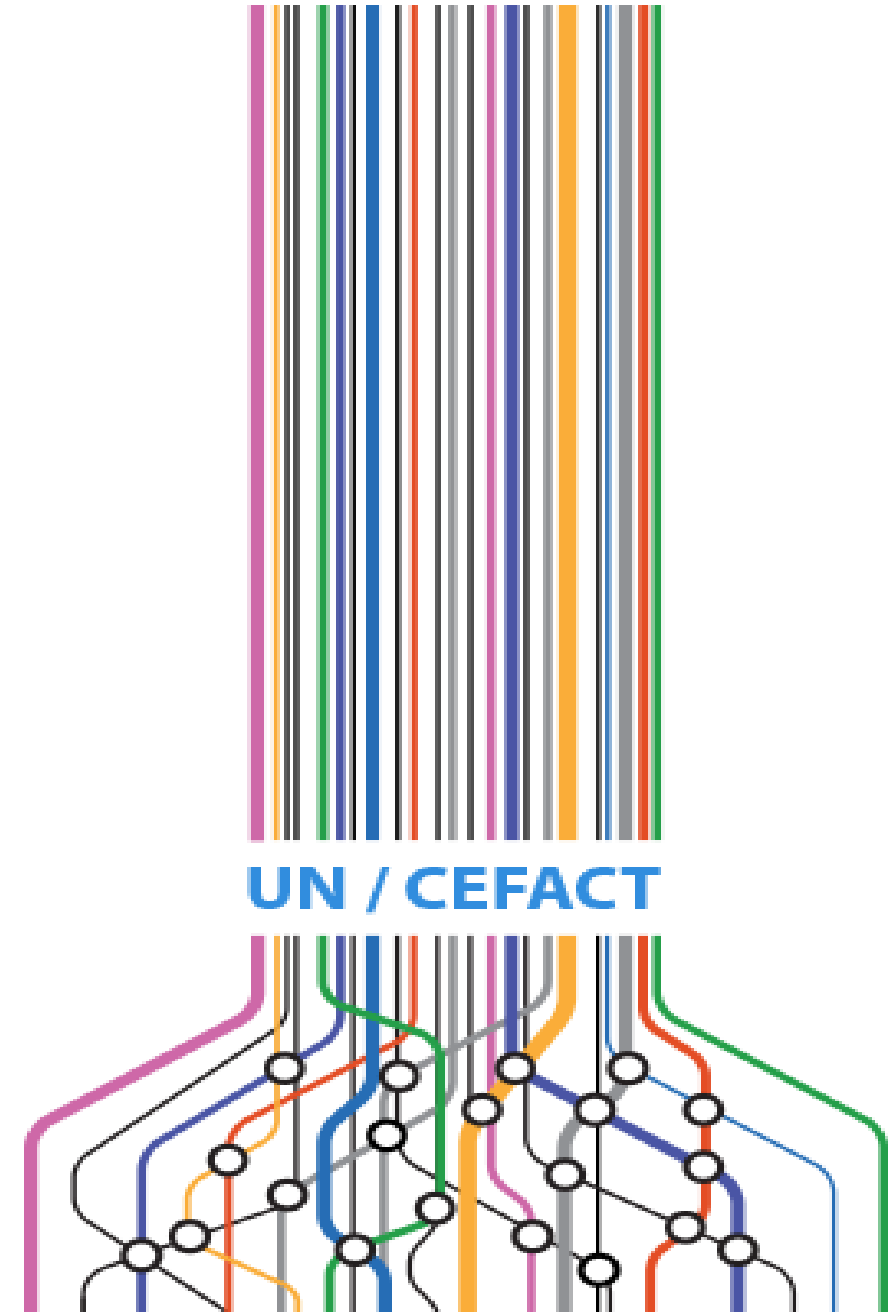
UNECE/CEFACT Contribution

June 20th 2022

Sue Probert

Chair, UN/CEFACT

suesiprobert@live.com

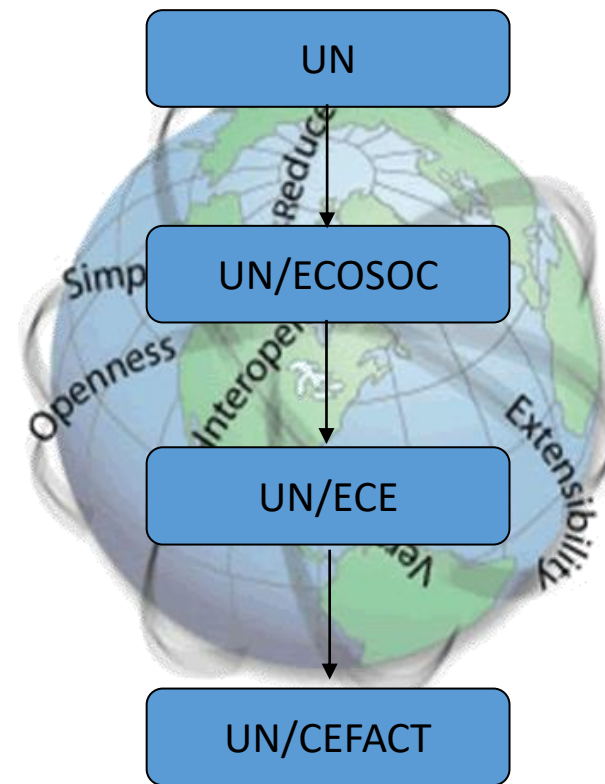UN / CEFACT

UN/CEFACT

Objectives

- Simple, transparent and effective processes for global business

- Efficient and automated exchange of information

Outputs

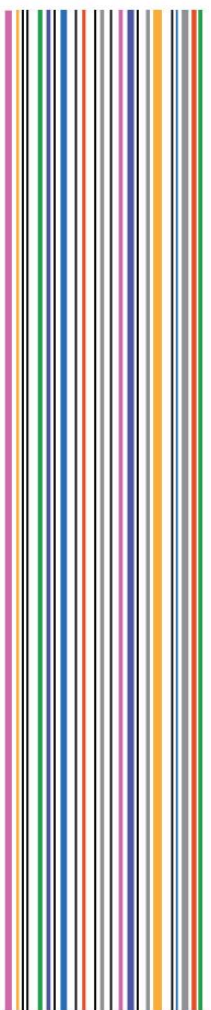- Global Trade Facilitation and Electronic Business Recommendations and Standards

Means

- Public Private Sector Partnership – over 1000 experts from government and business

- Experts meet via internet every week plus two Face-to-Face Forums per year (hopefully)

Global Remit
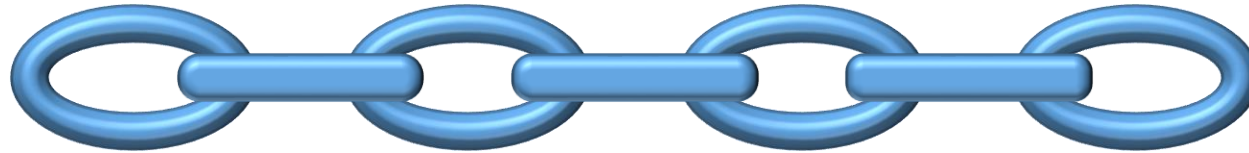
Cooperation / Collaboration

EEC

EU
DG-MOVE
DG-TAXUD
DG-MARE
DG-DEVCO
DG-DIGIT
...

ISO
IEC
ITU
WTO
ITC
IATA
WCO
**OECD**

GS1
IPCSA
PROTECT
FIATA
SMDG
...

One link in a global supply chain

- Most dematerialization projects are only looking at one sectoral view
  - Almost all sectoral views are just one part of a global supply chain
  - The international supply chain is very complex (multiple actors and multiple relations in data exchanges)

- A holistic view and approach are needed
  - Information will not be related purely to goods or purely to transport or purely to regulatory
  - There are clear links between the information in each part of the global supply chain

- UN/CEFACT deliverables all take this holistic approach
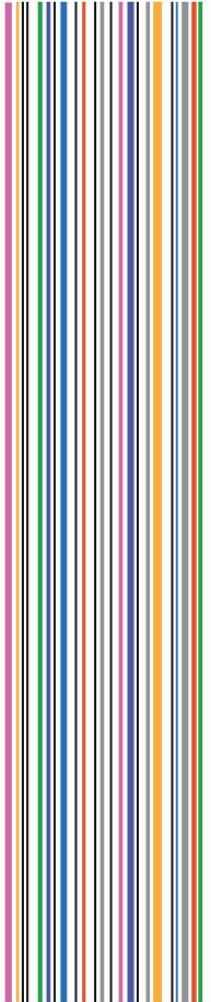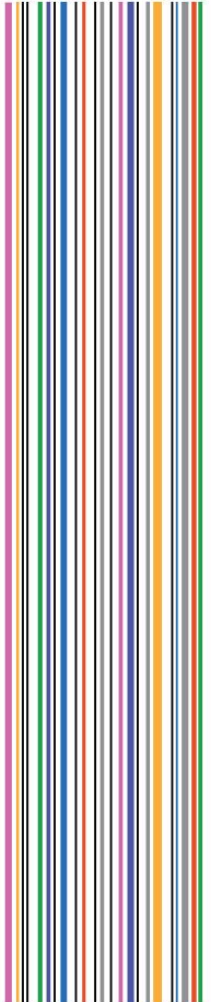
UNTTC
Transport & Trade Connectivity
in the age of pandemics

- UN New York launched **COVID-19 initiative to encourage exchange of digitised electronic data** rather than paper documents in transport contract related data exchanges

- **UNECE and UN/CEFACT joint contribution:**

  - Cross-modal project to develop modal guides on reuse of the UN/CEFACT MMT Reference Data Model to support digitised data exchanges between transport modes

  - **7 Heads of Delegation** supported the Project (Germany, Spain, Greece, Russia, Italy, US and Ukraine)

Phase 2 - Modal Specific Customisation

Air Freight

Road Freight
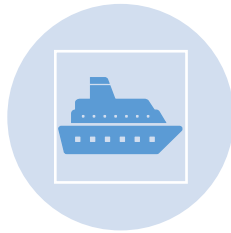
Sea Freight

Rail

Inland Waterway
(tbc)

- Analysis of the CIM/SMGS ECN data structure in preparation for the mapping to IFTM subset

- Identified potential issue for mapping between the railway ECN and IFTM due to different structural representation

- Open discussion to describe and understand the issue

- Proposals for the next phase to reach a mapping exercise
  - Rearrange the structure of the railway ECN in the manner of MMT for seamless mappings and multimodal interoperability
  - Map only the possible data elements for the purpose of achieving multimodality
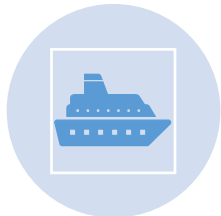
- Maritime specific subset of MMT created and re-used to model the **Ocean Bill of Lading**
- Project calls concluded last week on this work, results to be published good basis for industry eBill of Lading projects
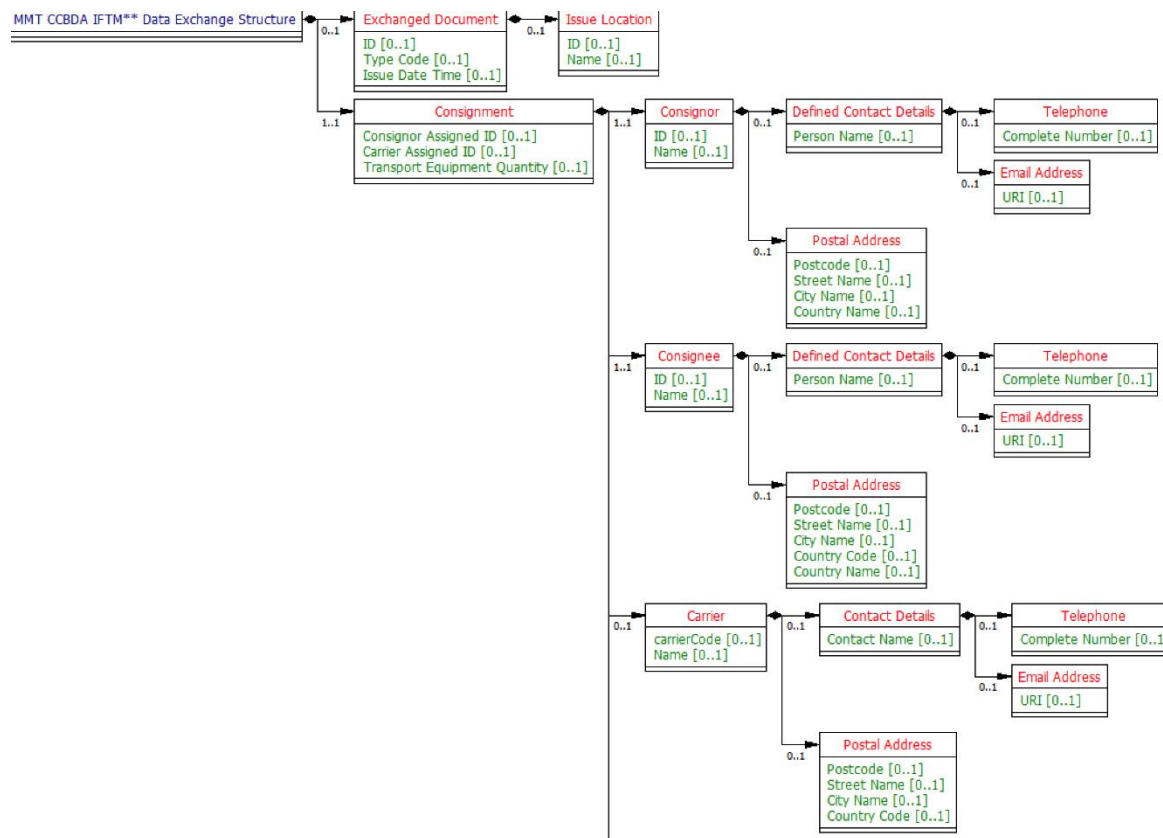
Road Freight

e-CMR model: CMR Convention data, taken into account
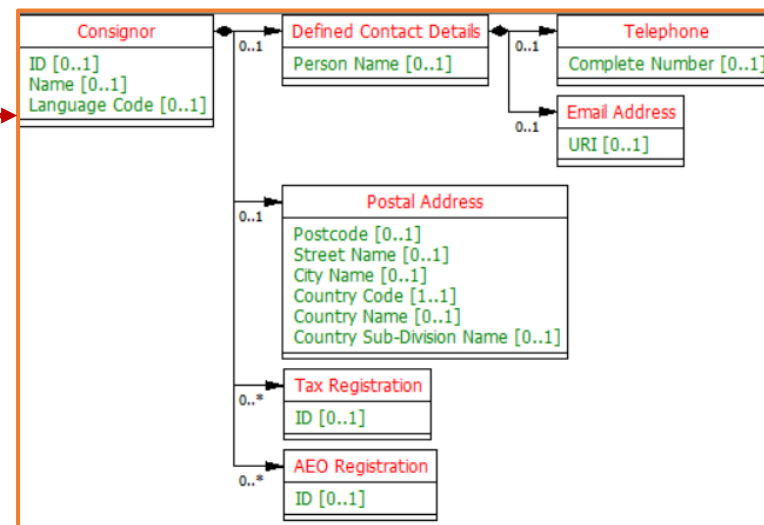
Each object in the eCMR structure has a unique Dictionary Entry Name plus a business short name for readability.

Based upon the UN/CEFACT Core Component Library (CCL), the MultiModal Transport Reference Data Model (MMT) and the Supply Chain Reference Data Model (SCRDM).

Airfreight domain supports multiple IATA standards for B2B & some B2G:

- Cargo-IMP: legacy, bespoke EDI

- Cargo-XML: current, UN/CEFACT aligned

- ONE Record: evolving, JSON-LD backwardly compatible

Review & mapping UN/CEFACT IFTM subset with **IATA ONE Record**

Enhanced data model for example supporting piece level

Bill of Lading (BOL) <> Air Waybill (AWB) baseline, others to be considered

Next steps: project team assembly & project calls

Inter Modal Matrix with MMT as Reference Model (Auto-generated)

		C	D	E	F	G	H	I	J	K	L	M	N	O
	1	BN	FIATA Bill	CIM-SMGS	CIM-SMGS URL	Wagon List	River B/L	Maritime B/L	eCMR	EFTi DR FEB2021	EFTi DG to	Air Waybill	Air CSD	Air DG
	2	BN	FIATA Bill	CIM-SMGS Co	CIM-SMGS Co	Wagon list; Co	River Bill of Lading	Maritime BL	eCMR MMT; R	eFTI DESCopy	MMT Cont	Air Waybi	CSD; D21A	DG Decla
−	3	MMT CCBDA IFTM** Data Exchange Structure	X	X	X	X	X	X	X	X	X	X	X	X
+	4	Exchanged Document Context							X					
−	10	Exchanged Document	X	X	X	X	X	X	X			X	X	X
.	11	ID	X	X	X	X	X	X	X			X	X	X
.	12	Name												
.	13	Type Code					X	X	X			X	X	X
.	14	Issue Date Time	X	X	X	X	X	X	X			X	X	X
.	15	Remark							X					
.	16	Original Issued Quantity	X				X							
.	17	Copy Issued Quantity	X				X							
.	18	Purpose Code		X	X							X	X	X
.	19	Sender Assigned ID		X	X									
.	20	Recipient Assigned ID		X	X									
.	21	Version ID		X										
−	22	Note		X	X				X				X	
.	23	Subject Text							X					
.	24	Content Code												
.	25	Content Text		X	X				X				X	
.	26	Subject Code							X				X	
−	27	Reference Document		X	X									
.	28	Type Code		X	X									
−	29	Issue Location	X				X	X	X			X		X
.	30	ID	X				X	X	X			X		X
.	31	Name	X				X	X	X			X		X
.	32	Country Code	X						X					
−	33	Contractual Clause	X	X	X							X		
.	34	ID	X									X		
.	35	Content Text	X	X	X							X		
−	36	Air Waybill Consignor Signatory Authentication	X	X	X	X						X		
.	37	Actual Date Time	X	X	X							X		

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Thank You

- All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at: www.unece.org/cefact/

- All experts are welcome to join the standards development work free of charge

For further information:

suesi.probert@live.com