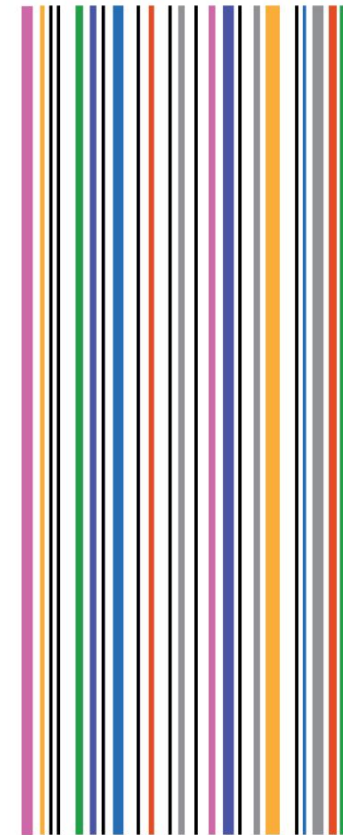


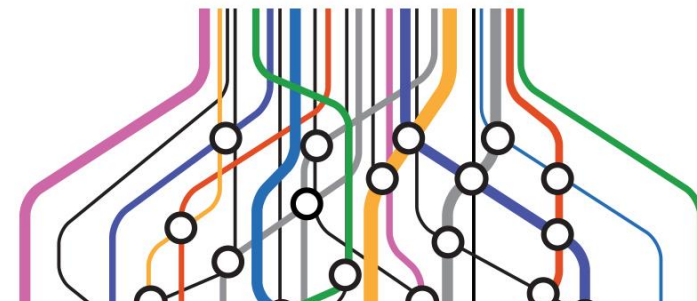
Inland Transport Week Digitalization and eDocuments

United Nations Centre for Trade Facilitation and
Electronic Business (UN/CEFACT)

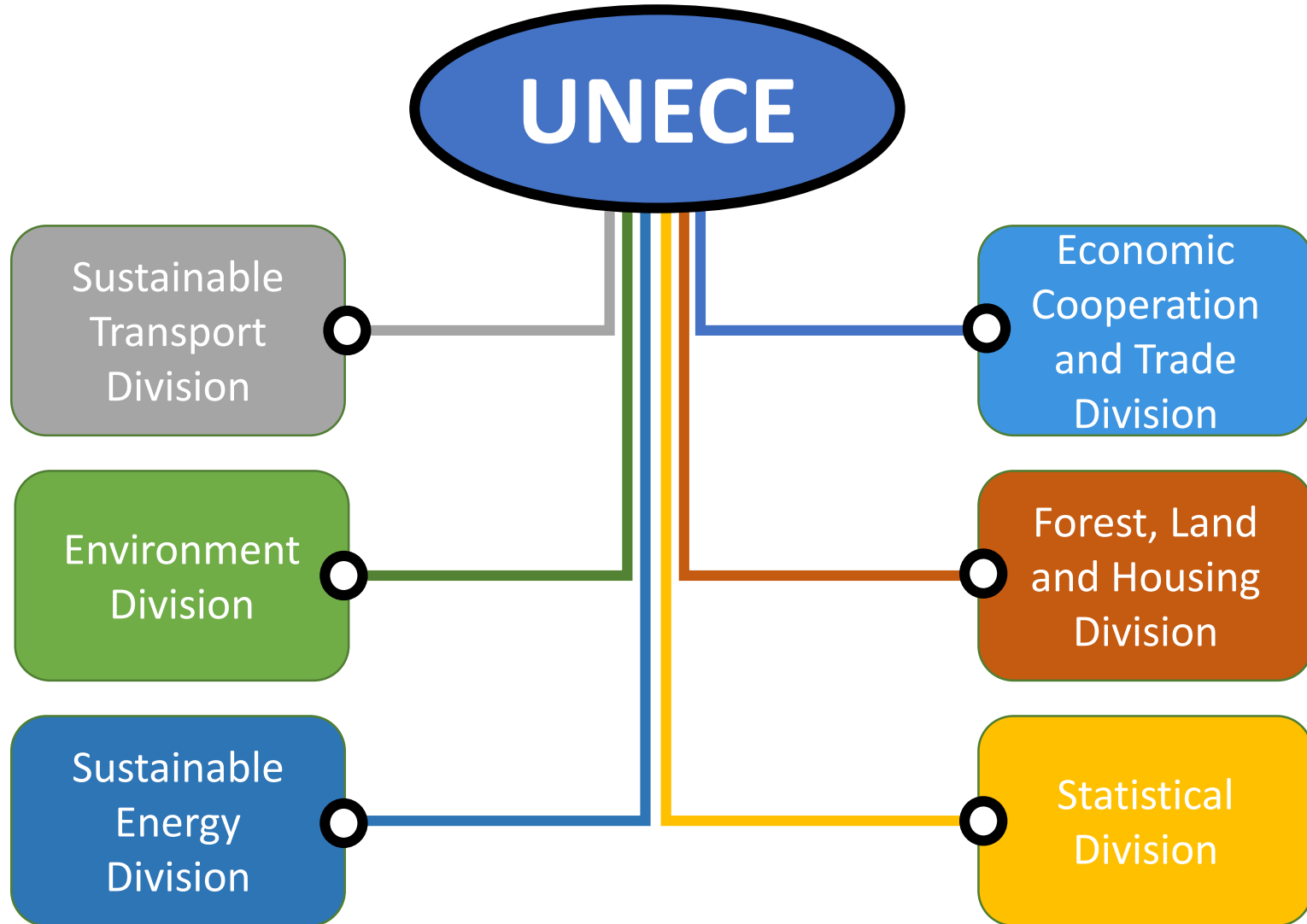
Sue Probert
Chair, UN/CEFACT
sue.probert@sepiaeb.com
UNECE – UN/CEFACT
19 February 2019



UN / CEFACT



UNECE Work Areas



UN/CEFACT – UN Centre for Trade Facilitation and Electronic Business

Objectives

- Simple, transparent and effective processes for global business
- Efficient and automated exchange of information

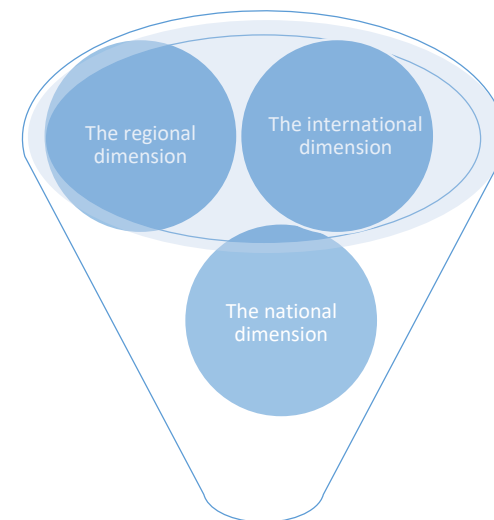
Key tools

- Global trade facilitation recommendations
- eBusiness standards
- Guidelines

Means

- Public-Private Partnership
– over 500 experts
- Meet virtually practically every weeks

Trade facilitation is discussed at three levels: all complementary



Smart connectivity through clear semantics



UN/CEFACT – Semantic Hub for Standardization



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

Smart connectivity with standardized documentation



Many trade documents

Enquiry Order **Despatch advice** Collection order
 Payment order **Letter of credit** Forwarding
 instructions **Forwarder's invoice** Goods receipt **Air**
waybill Freight invoice Road consignment note Transit
 manifest Export licence **Bill of lading** Cargo manifest
 Exchange control doc Phytosanitary certificate **TIR**
carnet Rail consignment note **Veterinary**
certificate **Goods declaration** [Examples of trade documents](#)
 Packing note Certificate of origin Consular invoice **Dangerous**
goods declaration Import/Export licence
Customs delivery note

Recommendation 1 UN Layout Key

- Specifically endorsed in the WCO Revised Kyoto Convention and the WTO TF Agreement
- Provides a common basis for the layout of trade-related documents and the information they contain
 - Basis for international transport conventions and customs
 - Endorsed by key international organizations
- All data elements in UNLK aligned documents have electronic equivalents in UN/EDIFACT, ebXML, ...
- Recommendation has recently been revised

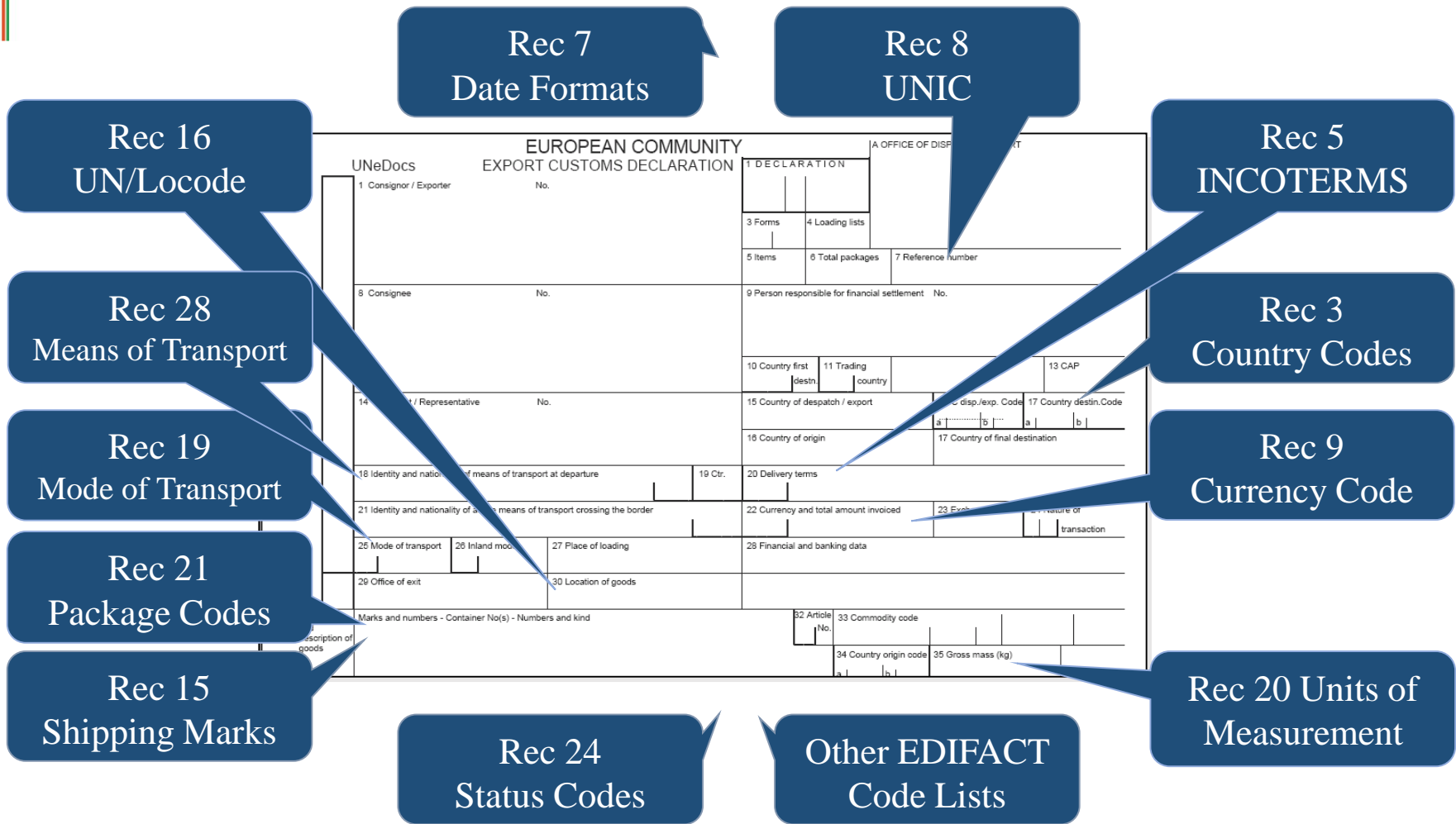
The image shows a detailed layout key for the CMR form, with numbered boxes (1-29) indicating the location of specific data elements. The form is titled 'CMR' and includes a large logo in the center. The layout key is organized into several sections, with numbers 1-15 on the left side and 16-29 on the right side. The form includes fields for sender and carrier information, goods description, weight, volume, and charges. The layout key is organized into several sections, with numbers 1-15 on the left side and 16-29 on the right side. The form includes fields for sender and carrier information, goods description, weight, volume, and charges.

Digitalization and eDocuments means that information must be structured

(no free text)



UN/CEFACT – Code Lists



UN/EDIFACT standard

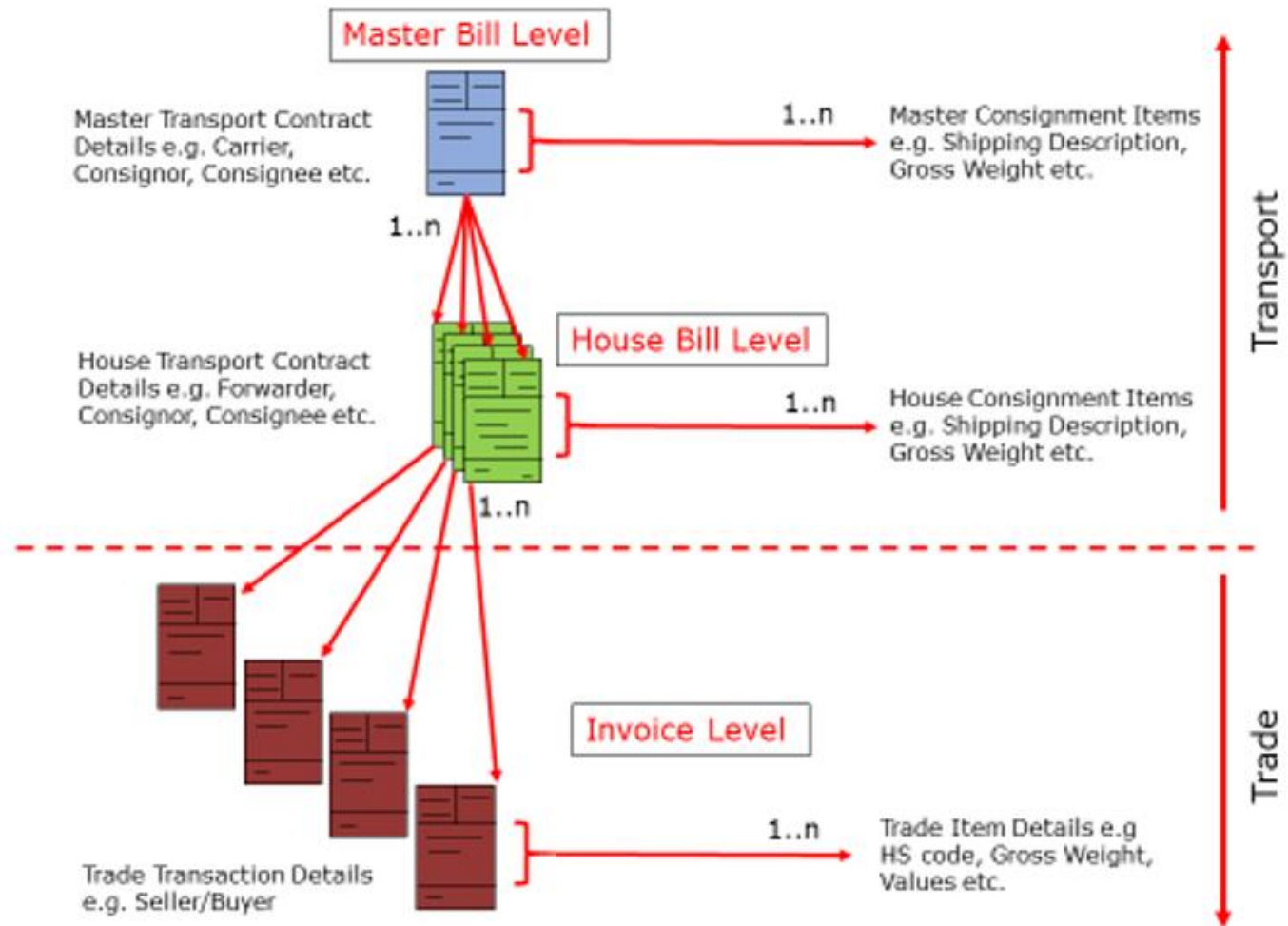
- Global Electronic Data Interchange (EDI) standard developed and maintained by the UN/CEFACT
- Standardized representation of semantics
- Concise data format
- Since approximately 1990
- Over 200 messages covering multiple domains. For example:
 - Customs (customs declaration, cargo report, ...)
 - Commercial (orders, invoices, remittance advice, ...)
 - Transport (Bill of Lading, manifest, ...)
 - Logistics (dispatch advice, shipping instruction, inventory report...)
 - Master data (price catalogue, ...)
 - Many industries (retail, DIY, container handling, ...)



Global Trade – 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

International Supply Chain Contracts



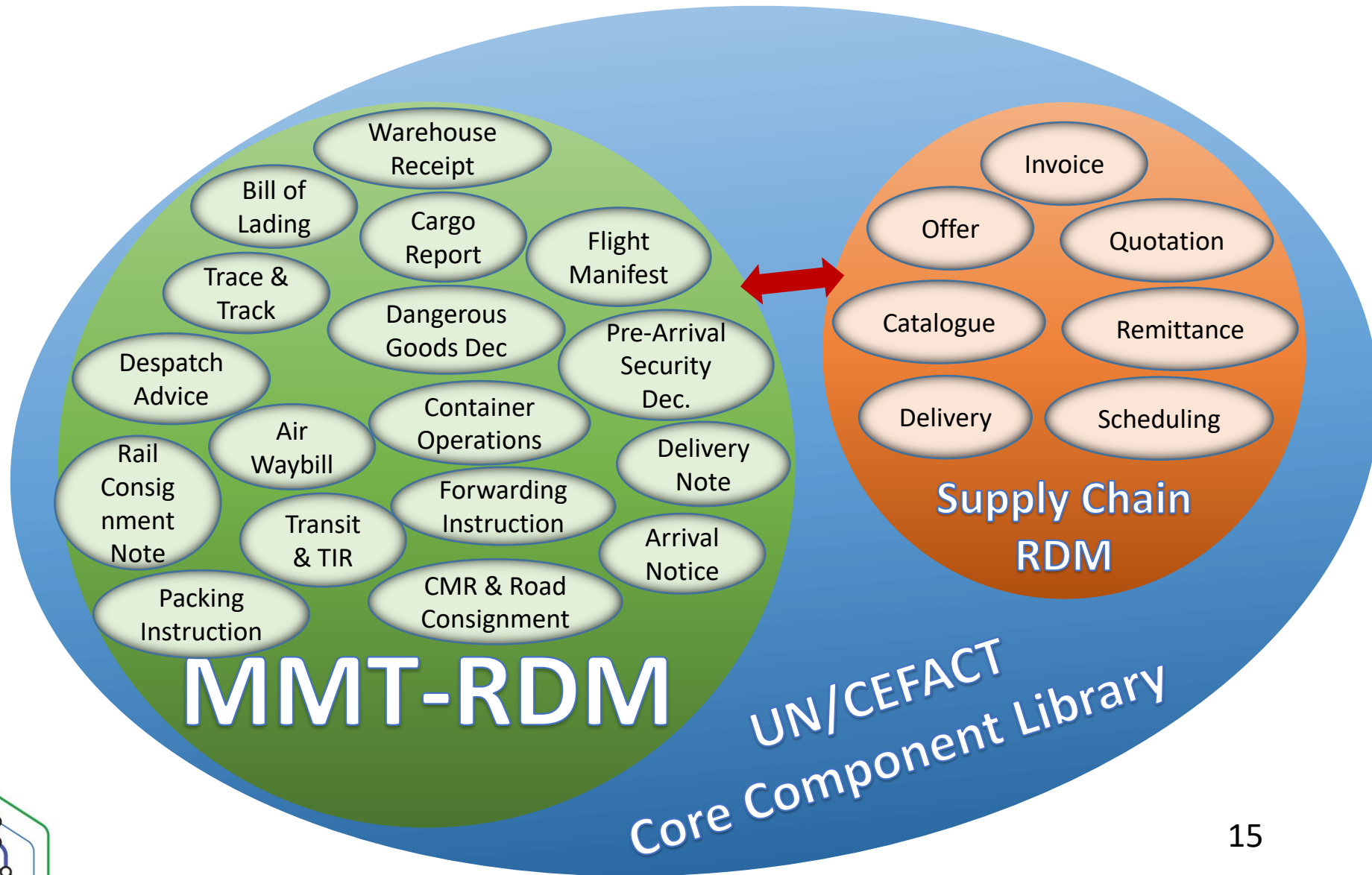
UN/CEFACT

Process driven approach

UN/CEFACT evolution

- From Document centric to Process driven artefacts
(*Contextualized Business Artefacts*)
- Supports Document centric & Process driven workflows
- Standardized syntax-neutral data exchange structures, based on common Master data exchange structure
(*from which complete documents and/or snippets of documents can be created in any chosen syntax e.g. XML, JSON or UN/EDIFACT etc.*)

Multi-Modal Transport Reference Data Model



UN/CEFACT standards for transport and logistics



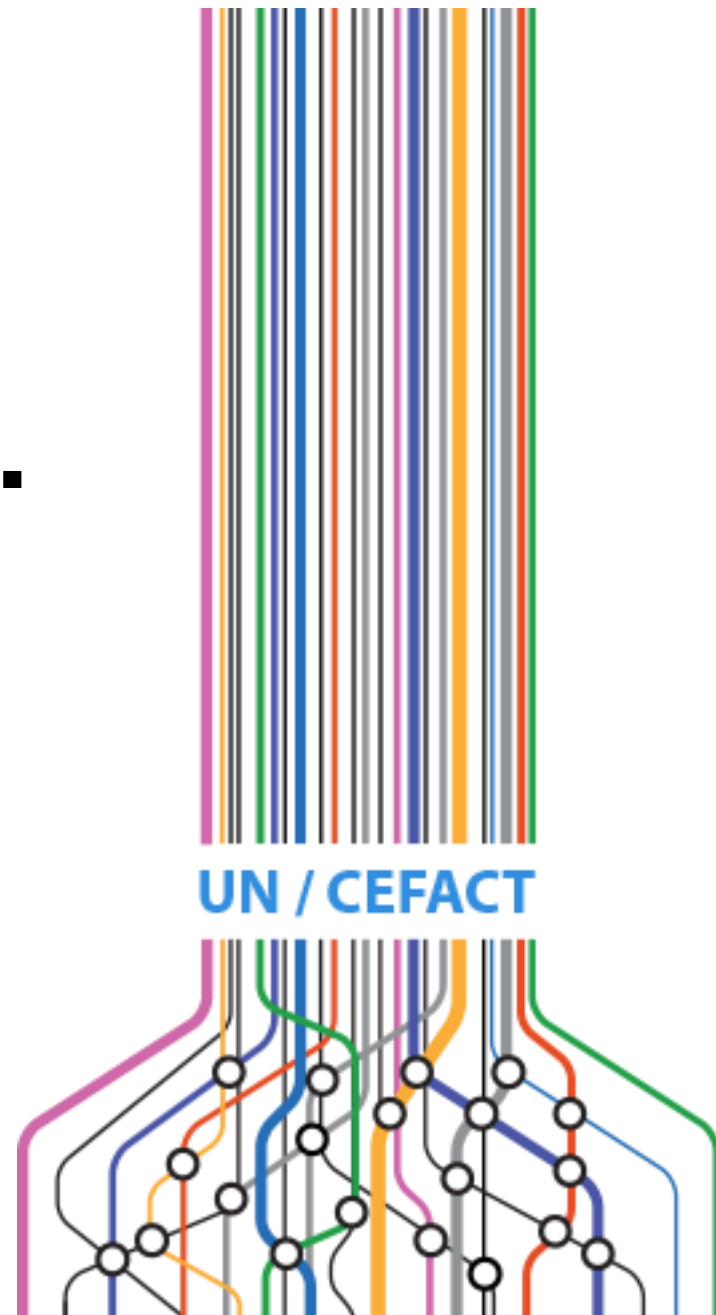
Key Problems challenges by the Private Sector when executing international transactions


- Too many legal requirements still mandating use of paper documents
- Modal specific international transport conventions in an increasingly intermodal or synchromodal transport & logistics world
- Multiple regulatory requirements with unharmonised data definitions and exchange protocols
- Legal goods held back at borders or en route by Customs, Port Health or other cross-border agency due to:
 - Unavailability of accurate data at inspection point
 - Lack of pre-arrival accurate targetting information

History of Transport Message Exchange Standards

- UN Trade Data Elements Directory and UN Layout Key Document Standards
- UN/EDIFACT – 30 years of message development and increasing implementation
- International Code Lists
- Multi Modal Transport Reference Data Model (supporting e-Contracts, eCMR, eIMO-FAL, Traceability)
- Current emerging technology and methodology projects for the industry (e.g. Smart Container [Internet of Things], Data Pipelines)

For more information...

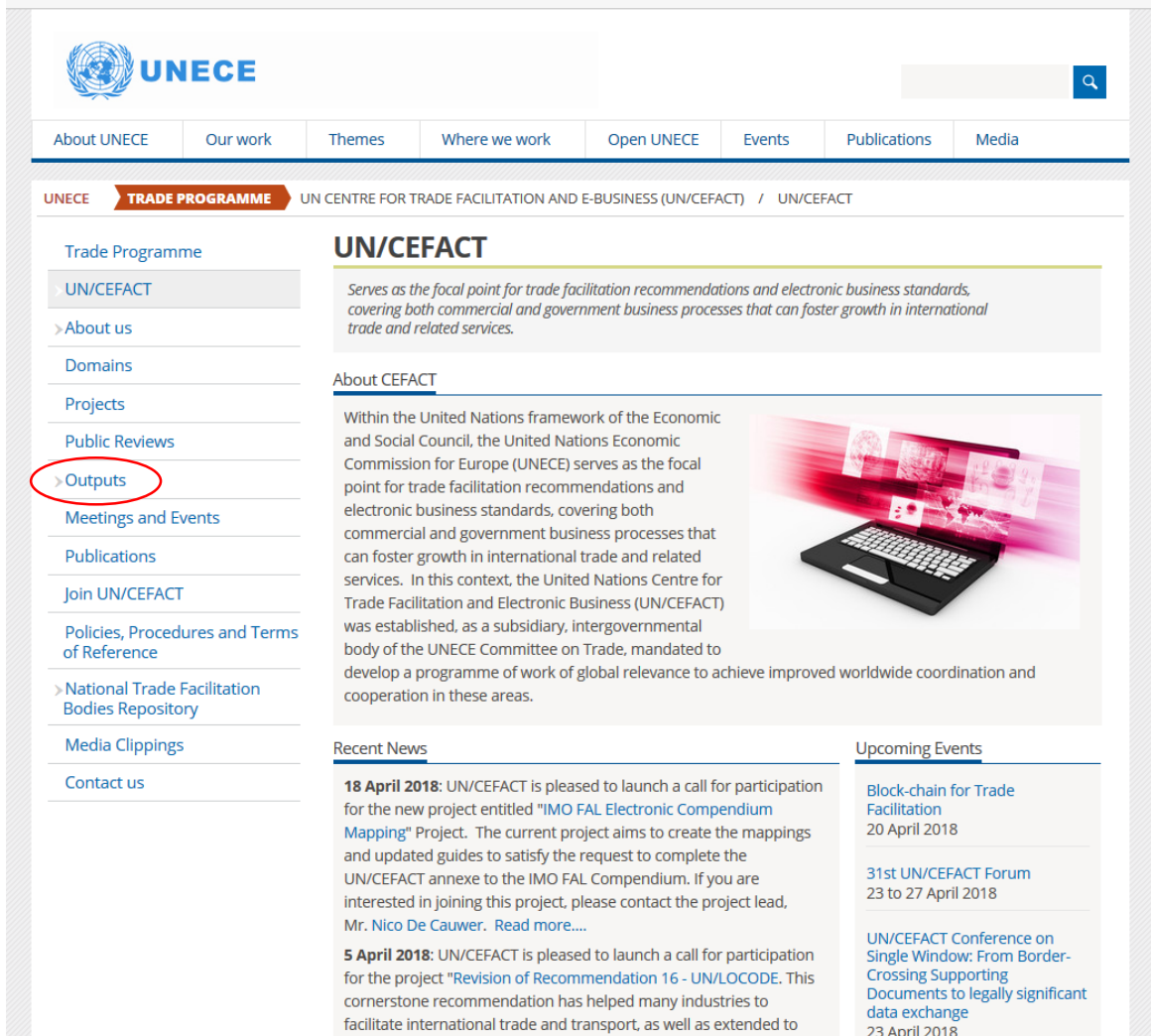


- List of Trade Facilitation Recommendations
 - UN/LOCODE
 - Business Requirement Specifications(BRS)
 - Core Components Library (UN/CCL)
 - ISO/TC 154
 - Requirements Specification Mappings (RSM)
 - UN/EDIFACT
 - UN/EDIFACT-ISO9735
 - UN/UNTDED-ISO7372
 - XML Schemas
 - UN/CEFACT Modelling Methodology (UMM)
 - Technical Specifications
 - Core Components Data Type Catalogue
 - Core Component Technical Specification
 - Core Components Business Document Assembly
 - UML Profile for Core Components 
 - UN/CEFACT Modelling Methodology (UMM)
 - XML Naming and Design Rules
 - Procedures For Reference Data Model (RDM) & Associated Artefacts Publication
 - Guidance Material

UN/CEFACT

Where to find documents

www.unece.org/cefact



The screenshot shows the UN/CEFACT website interface. At the top, there is the UNECE logo and a navigation menu with items: About UNECE, Our work, Themes, Where we work, Open UNECE, Events, Publications, and Media. Below the navigation is a search bar and a breadcrumb trail: UNECE > TRADE PROGRAMME > UN CENTRE FOR TRADE FACILITATION AND E-BUSINESS (UN/CEFACT) / UN/CEFACT.

The main content area is titled "UN/CEFACT" and includes a description: "Serves as the focal point for trade facilitation recommendations and electronic business standards, covering both commercial and government business processes that can foster growth in international trade and related services."

Under the heading "About CEFACT", there is a paragraph explaining the organization's role within the United Nations framework. To the right of this text is an image of a laptop displaying various data visualizations.

On the left side of the page, there is a vertical navigation menu with the following items: Trade Programme, UN/CEFACT, About us, Domains, Projects, Public Reviews, **Outputs** (highlighted with a red circle), Meetings and Events, Publications, Join UN/CEFACT, Policies, Procedures and Terms of Reference, National Trade Facilitation Bodies Repository, Media Clippings, and Contact us.

At the bottom of the page, there are two columns: "Recent News" and "Upcoming Events".

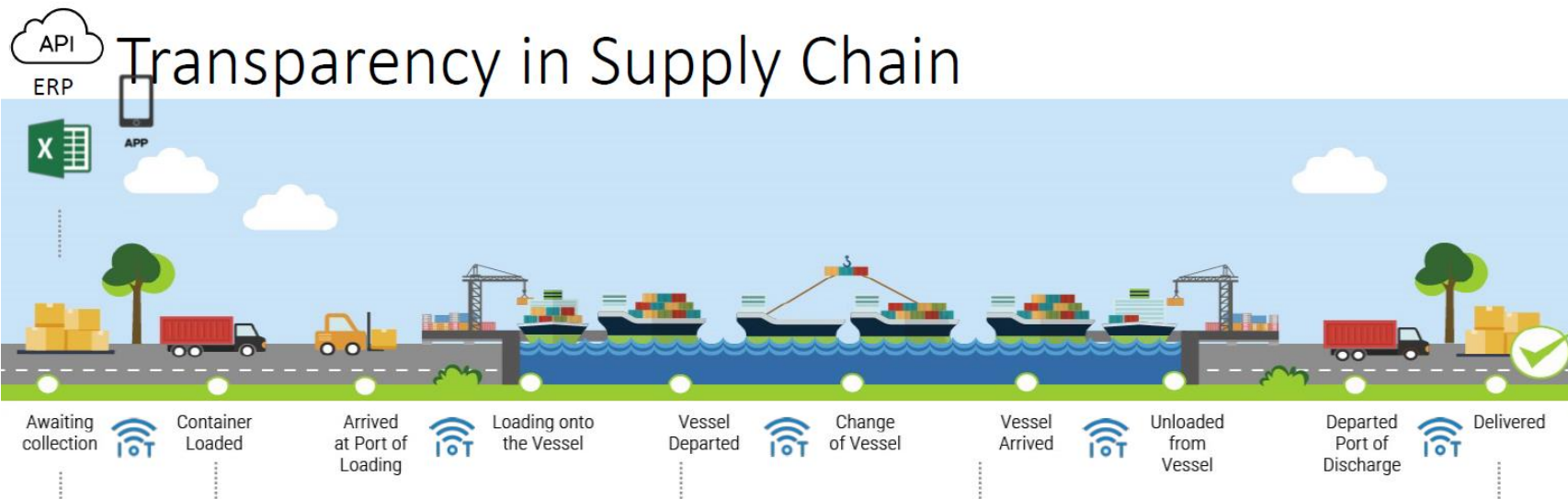
Recent News:

- 18 April 2018:** UN/CEFACT is pleased to launch a call for participation for the new project entitled "IMO FAL Electronic Compendium Mapping" Project. The current project aims to create the mappings and updated guides to satisfy the request to complete the UN/CEFACT annexe to the IMO FAL Compendium. If you are interested in joining this project, please contact the project lead, Mr. Nico De Cauwer. [Read more...](#)
- 5 April 2018:** UN/CEFACT is pleased to launch a call for participation for the project "Revision of Recommendation 16 - UN/LOCODE. This cornerstone recommendation has helped many industries to facilitate international trade and transport, as well as extended to

Upcoming Events:

- Block-chain for Trade Facilitation**
20 April 2018
- 31st UN/CEFACT Forum**
23 to 27 April 2018
- UN/CEFACT Conference on Single Window: From Border-Crossing Supporting Documents to legally significant data exchange**
23 April 2018

Pipeline Data Exchange Standard Project



- Supply Chain data extracts sent to regulatory agencies at key time points
- Standardised overall data exchange structure
- Quality data from the original source at earliest time
- Regulatory and supply chain visibility benefits

- Road transport consignment note – CMR convention

Albania

Azerbaijan

Georgia

Hungary

Kazakhstan

Kyrgyzstan

Moldova

Montenegro

Serbia

Turkmenistan

Ukraine

- Electronic road consignment note

Moldova

- Several messages including the original declaration, the hand over of goods, the proof of delivery and status messages



e-IMO FAL Ship Reporting project

- IMO Electronic ship reporting regulation from 2019
- Updated IMO FAL Convention and Compendium to be published 2019
- New Compendium includes port call regulatory requirements data model
- UN/CEFACT Annex project to map the IMO FAL data model to the Multi Modal Reference Data Model and UN/EDIFACT (updated)
- Project members include carriers and port community system providers
- Links to Maritime Single Window initiatives (e.g. EU MSW)



<https://uncefact.unece.org/display/uncefactpublic/IMO+FAL+electronic+compendium+mapping>

UN/CEFACT & Internet of Things

- Smart Container project
 - Looking at the data which would be shared with the rest of the supply chain
 - This could trigger smart contracts and events like invoicing
- IoT general project
 - Launching early 2019 will be looking at other use cases of IoT and how they relate to UN/CEFACT standards
 - Could potentially have the same type of events triggered



- UNECE - UN/CEFACT work on Traceability
 - [Traceability framework](#)
 - [Textile Traceability](#)
 - [Electronic Interchange of fisheries catch data \(FLUX\)](#)
 - [Animal traceability data exchange](#)
 - Rapid Alert System for Food and Feed (RASFF) Notification Exchange
 - [eQuality certificate](#) (work in progress)

Traceability

UNECE

Traceability for sustainable trade -
A Framework for consensus driven design of traceability projects





UN/CEFACT

Where to find documents

tfig.unece.org

The screenshot shows the homepage of the Trade Facilitation Implementation Guide. At the top left, the title "TRADE FACILITATION IMPLEMENTATION GUIDE" is displayed. To the right is the UNECE logo and a search bar. Below this is a navigation menu with links for Home, About, Intro, Domains, Itineraries, Instruments, Organizations, Case Stories, and Training, along with a language dropdown set to English. The main content area features a large graphic of colorful lines and nodes, followed by a welcome message: "Welcome to the Trade Facilitation Implementation Guide. A tool for simplifying cross-border trade." A button for "WTO TF Agreement" is visible. Below this is a section titled "Introduction to Trade Facilitation" with four main categories: Domains (represented by a network icon), Itineraries (represented by a path icon), Instruments (represented by gear icons), and Organizations (represented by a group of people icon). The footer contains the text "Trade Facilitation Implementation Guide" and the UNECE logo.

UN / CEFACT

more information & contacts

All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at:

- www.unece.org/
- www.unece.org/trade
- www.unece.org/cefact/
- tfig.unece.org
- Secretary of UN/CEFACT:
 - Lance THOMPSON, UNECE, ECTD, TFS
 - lance.thompson@un.org

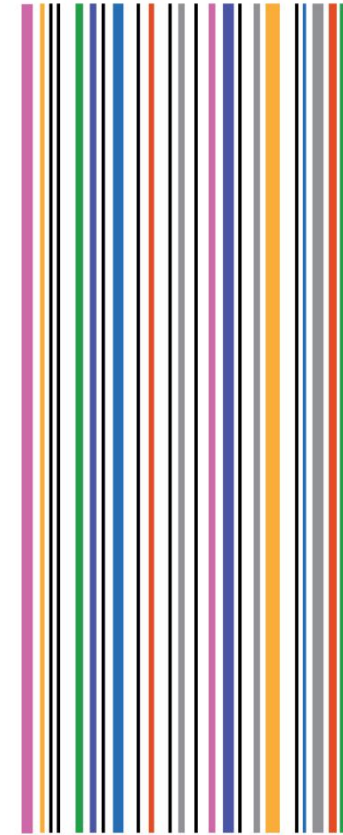


Upcoming events of UN/CEFACT

- **UN/CEFACT 33rd Forum**
 - 1-5 April 2019, Geneva, Switzerland
- **UN/CEFACT 24th Plenary**
 - 7-8 April 2019, Geneva, Switzerland

Thank you

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UNECE – UN/CEFACT
19 February 2019



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