

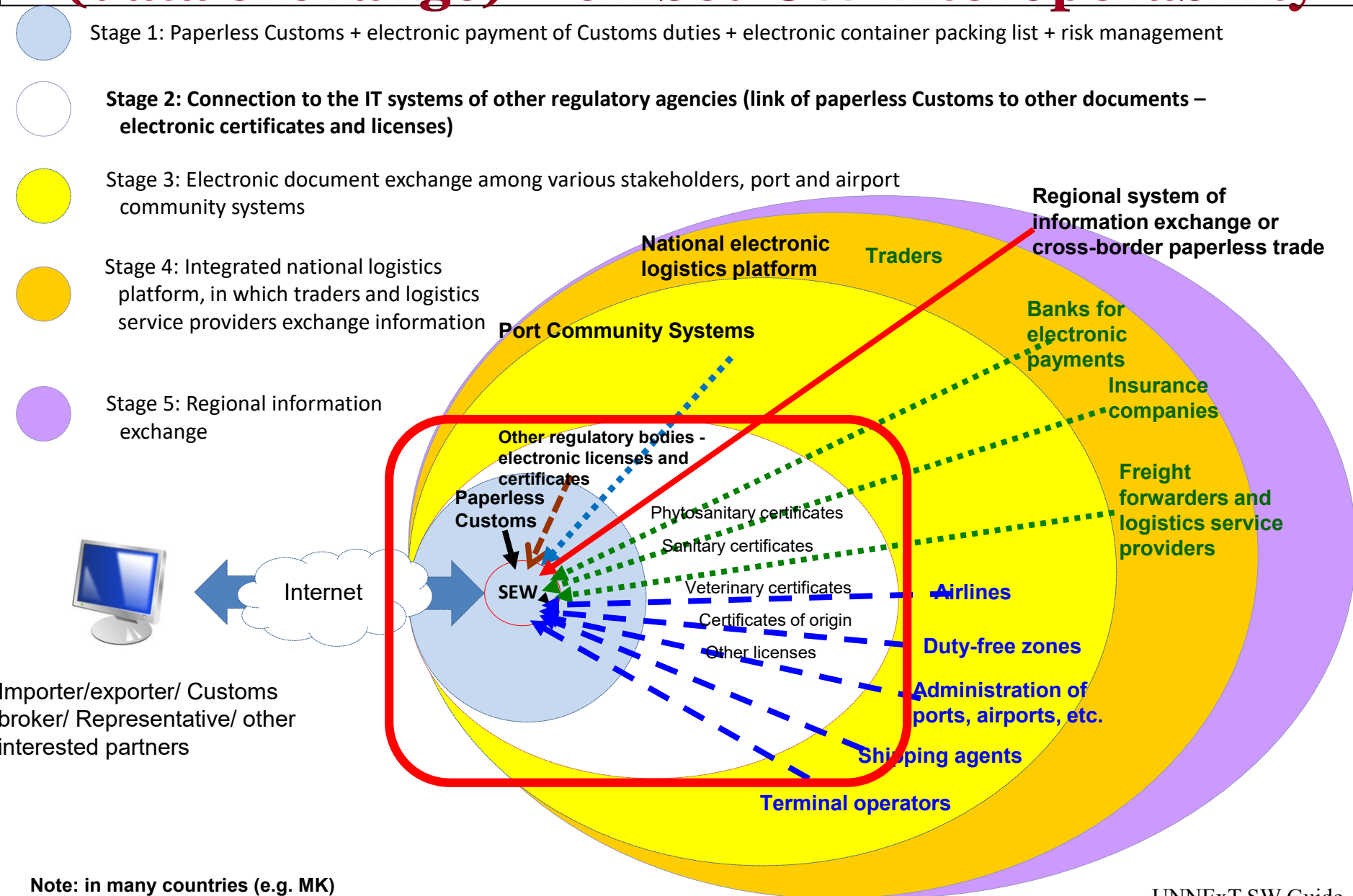


Tools for Data Harmonization and Standardization: Possible use in the Western Balkans

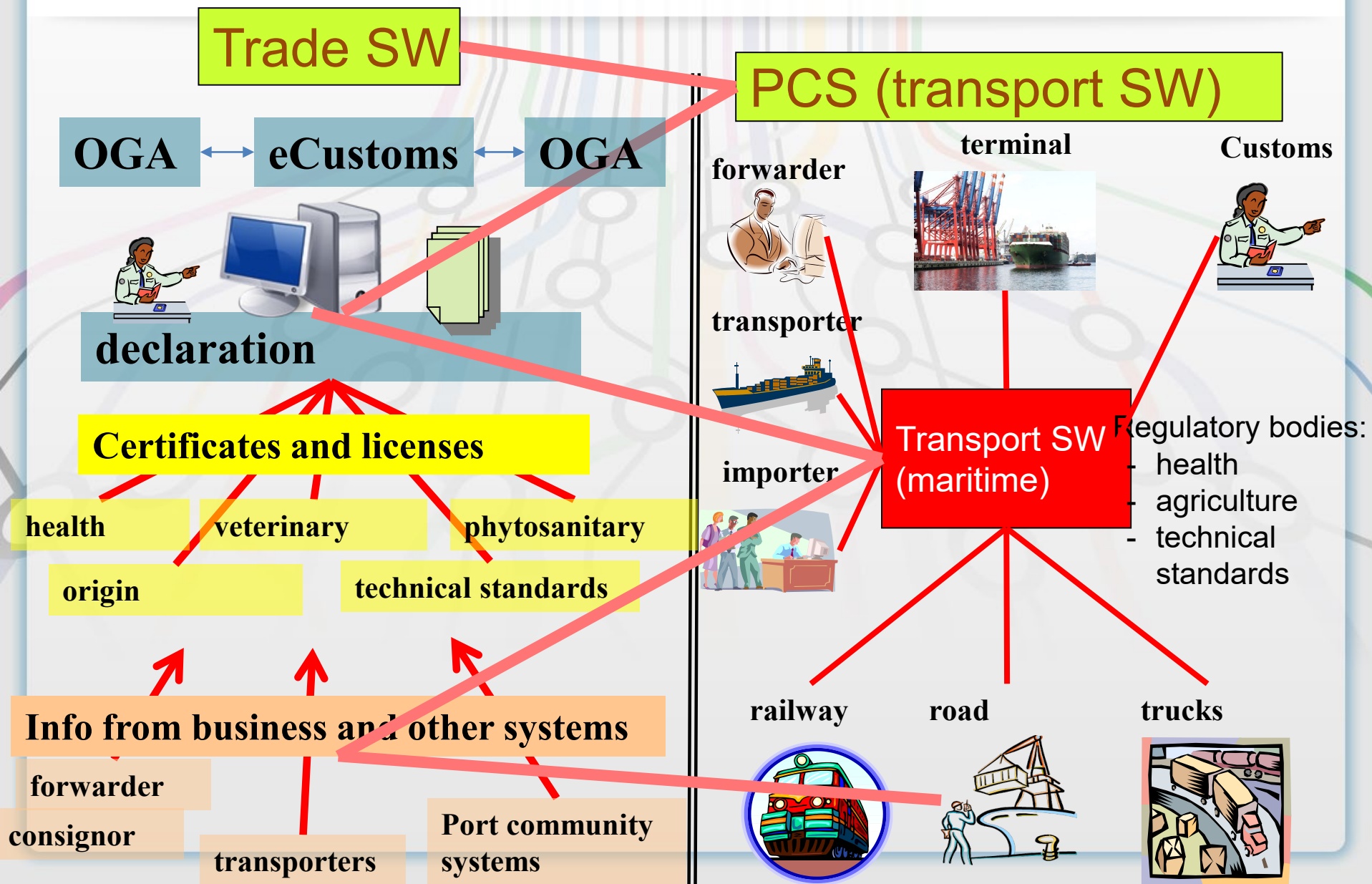




Single Window building algorithm in 5 stages (data exchange) – embed SW interoperability



Types of interorganizational information exchange





Rec.36: Four pillars of interoperability

SW uses

- international standards for trade data and document exchange
- data harmonization
- alignment with international standards

Interoperability on different levels:

- semantics
- business processes
- message syntax (IT systems)
- legal systems

Legal basis for exchange with other SW systems to be created in each SW

A governance structure to be established for SW interoperability

Move from document-based to process/data-based approach

TFA: Art.10.1 Formalities and Documentation Requirements

1.1 With a view to minimizing the incidence and complexity of import, export, and transit formalities and to decreasing and simplifying... documentation requirements, ~~taking into account the legitimate policy objectives~~, each Member shall review such formalities and documentation requirements and ensure that such formalities and documentation requirements are...

Art 10.4 Single Window

4.1. Members shall **endeavour to establish or maintain a single window**, enabling traders to **submit documentation and/or data** requirements for importation, exportation, or transit of goods **through a single entry point** to the **participating authorities** or agencies. After the examination by the participating authorities or agencies of the documentation and/or data, the **results shall be notified to the applicants through the single window** in a timely manner.

4.2. ..

4.3 Members **shall notify** to the Committee the **details of operation** of the single window.

4.4 Members shall, to the **extent possible and practical**, use **information technology** to support the single window.

(These are the same elements of the definition of Rec. 33.)

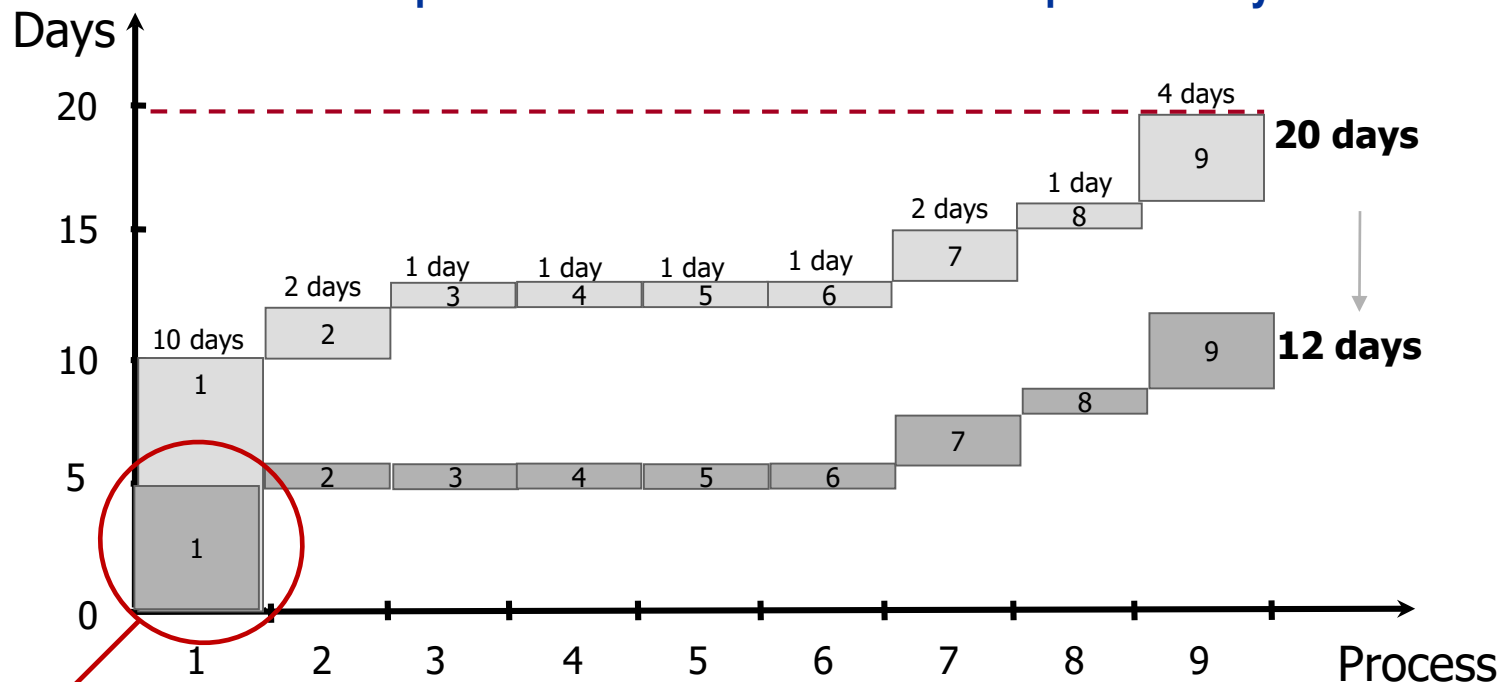
regulatory functions

Need to analyse formalities and documentary procedures in order to simplify them:

- Streamlining documentary procedures and simplifying documents can significantly reduce transaction costs, improve trade competitiveness and thus benefit governments, businesses and consumers.
- Make an inventory of all required documents and procedures (to help implement TFA art. 1.1 «publication» and 1.2 «info on the Internet»)
- Using Time Release Studies (TFA art.7.6); Doing Business, LPI reports
- Carry out Business Process Analysis:
 - Analyze processes
 - Identify repeated or redundant formalities and requirements
 - Prepare recommendations on how to re-engineer the business processes in order to simplify them; eliminate unnecessary documentary procedures and formalities; prepare them for electronic document and data exchange; perform any other TF reforms

Business Process Analysis: Recommendation Development

Example: Time – Procedure Chart of Importation by Sea



Main area for improving efficiency: days for preparing documents

9 Main processes

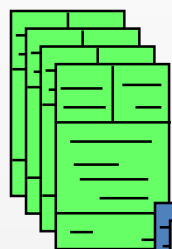
1. Prepare documents for import
2. Prepare to enter a seaport (Vessel)
3. Enter a seaport (Vessel)
4. Report cargo manifest
5. Unload cargo
6. Clear goods through customs
7. Arrange the transport for the pick-up of goods
8. Handle cargo at the terminal
9. Pay for goods

UN Layout Key UNLK – UNECE Rec. 1

1. Декларатор (наименование, адрес, страна)		ORIGINAL No.	
UNCTAD/ASYCUDAWorld		CERTIFICATE OF ORIGIN Issued in the Russian Federation	
Manifest Customs Reference C 1 01/02/2008 7 Reference number 2008 #1		1 DECLARATION IM 4 3 Forms 02/02 A OFFICE OF DESTINATION CUO01 Inland Office	
31 Packages and description of goods	Marks and numbers - Containers No(s) - Number and Kind Marks & no marks2 of packages	32 Item 2	33 Commodity code No. 41011000 00
34 Country Code		35 Gross mass (kg)	
LOGA3		COPY	
VZOREC OBRAZCA EUL (osemlistni set)		ASEAN COMMON EFFECTIVE PREFERENTIAL TARIFF/ASEAN INDUSTRIAL COOPERATION SCHEME CERTIFICATE OF ORIGIN (Combined Declaration and Certificate) FORM D THAILAND Country See Notes Overleaf	
EVROPSKA SKUPNOST		ASEAN CO., LTD. ADBUALUANG RD., 0, THA LAND.	
1 DEKLARACIJA		C. STREET, TONDO, NES.	
2 Pošiljatelj/izvoznik St.		4. For Official Use	
3 Obrazi 4 Nakladnice		<input type="checkbox"/> Preferential Treatment Given Under ASEAN Common Effective Preferential Tariff Scheme <input type="checkbox"/> Preferential Treatment Given Under ASEAN Industrial Cooperation Scheme <input type="checkbox"/> Preferential Treatment Not Given (Please state reason/s)	
5 Postavke 6 Številto tovorov 7 Opravilna števila		Signature of Authorised Signatory of the Importing Country	
8 Prejemnik St.		8. Origin criterion	
9 Odgovori za plačilni promet St.		9. Gross weight or other	
10 Prva namembna država 11 Država trg.		10. Number at date of inv	
14 Deklarant/zastopnik St.			
15 Država odpreme/izvoza 16 Država porekla			
18 Registracija in država prevoznega sredstva ob odhodu 19 Zab.			
20 Dobavni pogoji			
5 Item number		6. Marks and numbers on	
7. Number and type of packages, description of goods including quantity where appropriate and HS number			

UN Layout Key UNLK – UNECE Rec. 1

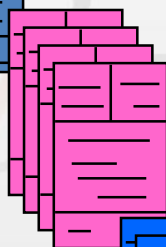
UNLK Form Families



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.



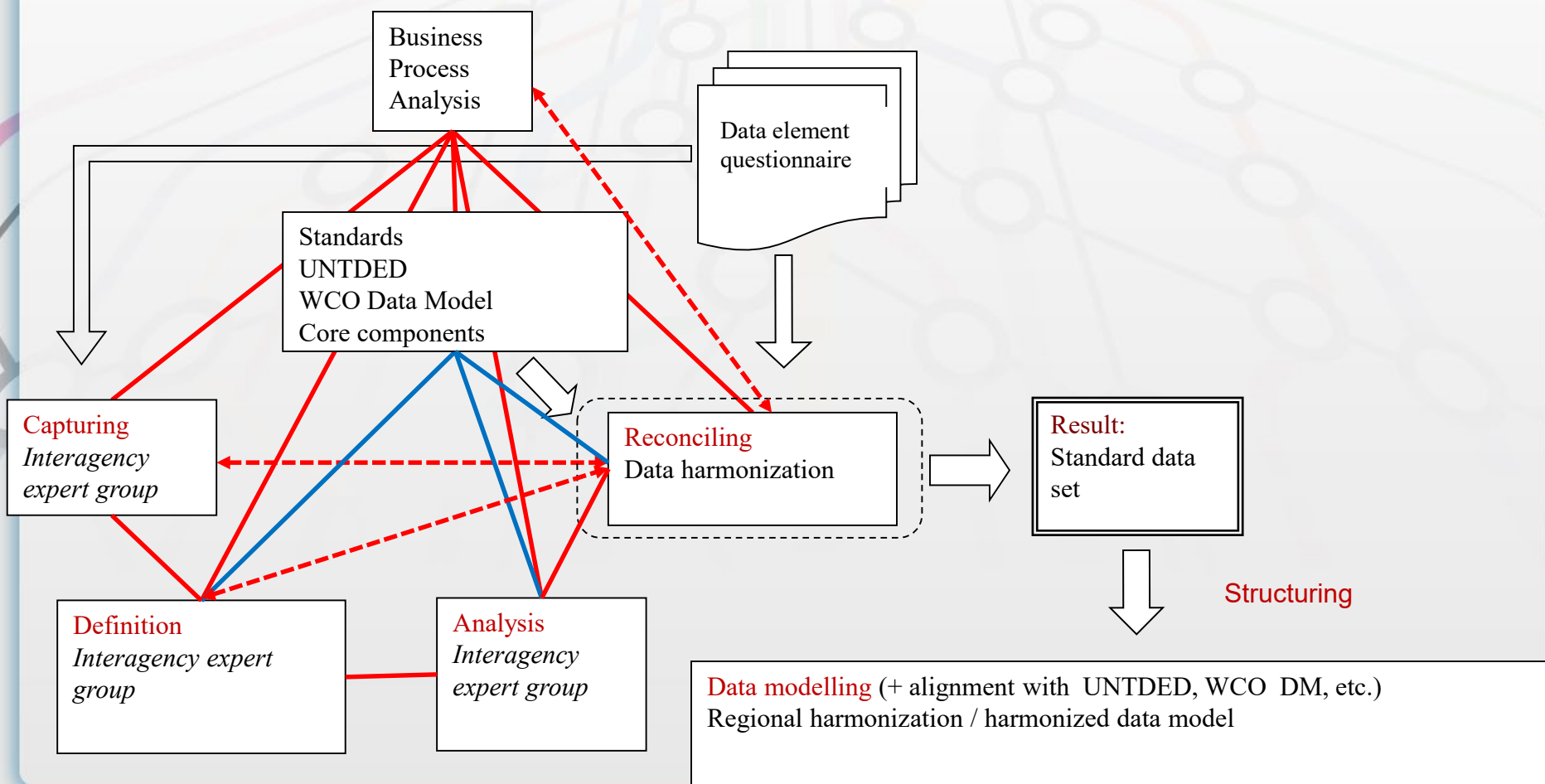
Other Regulatory Documents – Cert of Origin, DGN etc.

Why data harmonization?

- Simplification and standardization of submission of data
- Data required in trade and transport documents often repeated
- Data harmonization - an interactive process of capturing, defining, analysing and reconciling government information requirements, and data standardisation and mapping
- eliminate duplication and redundancies in trade data
- The product - a standard data set - can be used in a data model
- Harmonize and align data to int'l standards in order to **reuse** it; use codes
- Data harmonization necessitates a project approach

UNCEFACT Recommendation 34:

Data Harmonization in 4 stages (“manual” or automated)



Research/Findings - example

Currently Collected
Port of Unloading
Port of Unlading
Domestic Port of Unloading
Domestic Port of Unlading
Foreign Port of Unloading
Foreign Port of Unlading



From the UNTDED
Consignment.
Unloading Location.
Identifier
3393

Port Codes
4 N Customs Proprietary
5 N Statistical Proprietary



UNLOCODE
UNECE Recommendation
Number 16

UNCEFACT standards foundation for data and document harmonization & SW

- **UNCEFACT Multimodal Transport reference Data Model**
- **UNCEFACT Unified Business Process Modelling Methodology – UMM**
- **UNCEFACT Core Components Technical Specification - CCTS v2.01 (ISO 15000-5/CCS)**
- **UNCEFACT Core Component Library**
- **UNCEFACT XML Naming and Design Rules**
- **UNCEFACT UN/EDIFACT Directory**
- **United Nations Trade Data Elements Directory (UNTD)**
- **UN Layout Key (UNLK): ECE Rec. 1. Includes codes**

Used in e-CMR and e-TIR

Project Rhein–Danube e-corridor based on UNEDIFACT

Streamlining Customs declarations: the SAD

Example of documentary simplification:
SAD (1988): EU + EFTA.

- Combined over 200 Customs and statistical documents in the EEC.
- Common rules for 30 years.
- Intro of Union Customs Code (UCC) amendments

❑ Rationalised and reduced administrative documentation

❑ Ensured openness in national administrative requirements

❑ Reduced amount of data

- *With possibility for countries to require or not some of the data elements ("Optional boxes")*

❑ Standardise and harmonise data

- *Which implies use of common codes for certain data elements*

The image shows a complex customs declaration form titled 'EUROPEAN COMMUNITY' and 'A OFFICE OF DISPATCH/EXPORT'. It is divided into several sections: A (Declaration), B (Accounting Details), and C (Office of Departure). Section A includes fields for consignee, country of origin, commodity code, and various taxes. Section B includes fields for accounting details, and Section C includes fields for the office of departure. The form is labeled 'C88 (1-8)' and 'PCU (January 1990)'.

Streamlining Customs declarations: the SAD

➤ Use international standards

➤ WCO data model

➤ Internationally defined Codes

Country codes (iso alpha 2 codes – ISO 3166-derived) (Boxes 15, 17, 21, 34 ...)

Currency codes (box 22 – ISO 4217))

Modes of transport (boxes 25 and 26 – UN-ECE rec. 28)

Customs offices (box 29, 51 – UN LOCODE - partially)

Package codes (box 31 UN-ECE rec. 21)

Commodity code (box 33 – HS code)

Documents identification (boxes 1, 40, 44, partially 1001 Edifact codes)...

EUROPEAN COMMUNITY 1 2 3 4 5 6 7

1 DECLARATION

2 Consignee/Exporter No

3 Form No

4 Loading unit

5 Items

6 Total packages

7 Reference number

8 Consignee No

9 Person responsible for financial settlement No

10 Country first origin

11 Trading partner

12 CAP

13 Country of dispatch/transport

14 Country of origin

15 C disp. Aisp. Code

16 Country of destination

17 Country of origin

18 Identity and nationality of means of transport at departure

19 Cts

20 Delivery terms

21 Identity and nationality of active means of transport crossing the border

22 Currency code

23 Exchange rate

24 Nature of transaction

25 Mode of transport at the border

26 Inland mode of transport

27 Place of loading

28 Financial and banking data

29 Office of exit

30 Packages and description of goods

31 Marks and numbers – Container No(s) – Number and kind

32 Additional information: Documents produced, Certificate and other sections

33 Type

34 Tax basis

35 Rate

36 Amount

37 MP

38 Deferred payment

39 Identification of employee

40 ACCOUNTING DETAILS

41 Principal

42 Signature

43 Office of departure

44 Intended office of transit (and country)

45 Guarantee

46 Code

47 Office of destination (and country)

48 CONTROL BY OFFICE OF DEPARTURE

49 Stamp

50 Place and date

51 Signature and name of declarant/representative

C88 (1-8)

PCU(January 1996)

Mapping the SAD data requirements to CCL, WCO DM, UNTDED

1	3	6	7	8	10			
EU SAD BOX NO	WCO No	UNTD ED	UNTD DEFINITION	CCL BIE REFERENCE	CCL BIE DICTIONARY ENTRY NAME	CCL DEFINITION	BOX TITLE NAME	COMMENTS
1	001	1001	Code specifying the name of a document such as 352 for Proforma invoice, 380 for Commercial invoice.	UN01002487 /UN01002491	Exchanged_ Document. Details Exchanged_ Document. Type. Code	The code specifying the type of exchanged document.	Declaration	
2	071, 239 - 245 (address)	3336	Name of the party consigning goods as stipulated in the transport contract by the party ordering transport	UN01004159 /UN01004212 /UN01004594	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Consignor. Trade_ Party Trade_ Party. Details	The consignor trade party for this supply chain consignment.	Consignor/ Exporter	
2a	072	3337	To identify the party consigning goods as stipulated in the transport contract by the party ordering transport	UN01004159 /UN01004212 /UN01004594 /UN01004595	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Consignor. Trade_ Party Trade_ Party. Details Trade_ Party. Identification. Identifier	A unique identifier of this trade party.	Consignor/ Exporter No.	
2b or 48?		3446	To identify a number assigned to a party by a tax authority.	UN01004159 /UN01004212 /UN01004594 /UN01004611 /UN01004486 /UN01004487	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Consignor. Trade_ Party Trade_ Party. Details Trade_ Party. Specified. Tax_ Registration Tax_ Registration. Details Tax_ Registration. Identification. Identifier	A tax registration specified for the trade party.	Registration number	
3	N/A	N/A	N/A	N/A			Forms	Not required in electronic environment, hence not available in WCO DM.
4	013	1166	The number of loading lists, manifests or similar documents	UN01004159 /UN01004200	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Loading List. Quantity	The number of loading lists, manifests or similar documents for this supply chain consignment	Loading lists	
5	228	7240	Count of the total number of goods items within a consignment.	UN01004159 /UN01004196	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Consignment Item. Quantity	The number of consignment items separately defined for transport or customs purposes within this supply chain consignment	Items	
6	146	7370	Count of total number of packages referred to as one consignment	UN01004159 /UN01004197	Supply Chain_ Consignment. Details Supply Chain_ Consignment. Transport. Logistics_ Package Logistics_ Package. Item. Quantity	The number of packages within this supply chain consignment.	Total packages	
7	009	1097	Reference assigned by a trader to identify	UN01002487 /UN01003569	Exchanged_ Document. Details Exchanged_ Document. Trader Assigned_ Identification. Identifier	A unique customs identifier for this	Reference number	

Simplified declarations Harmonisation

- Without **quality data from business** Customs cannot collect revenue & protect society
- **UCC-related modernization**: need to strengthen data quality and simplify procedures

The EU CDM (EU Customs Data Model) for:

- Trans-European Customs systems such as **NCTS, AES, ICS**
- **National Customs clearance systems** in the EU

A technical instrument that:

- models **data requirements** laid down by **EU Customs legislation**
- presents a **single, authoritative source of information for national Customs authorities** seeking technical developments in their IT systems
- Based on **data provided by traders to Customs** in various declarations and notifications required under EU Customs legislation (*Annex B of UCC-DA & UCC-IA*)

Important to :

- Ensure coherence throughout the data collection chain from Pre-arrival / pre-departure information to SAD declaration data.
- Avoid multiple changes of legislation that would affect Customs data collection in quick succession.
- Minimize disruptive effects on private and public IT systems

UN Layout Mapping Example

UN FORM 1992

EXPORT CARGO SHIPPING INSTRUCTIONS

Approved for B/LA

A Exporter/shipper VAT no. Booking number Customs reference
Exporters reference
Forwarder's reference

B Consignee VAT no. **D** Other address VAT no.

C Freight forwarder VAT no. (If required, this space may be used for other addresses, e.g. banks, place of acceptance/delivery, additional notify party.)
Country of origin of goods Country of final destination

Other UN transport details **E** (If required, this space may be used for other addresses or other information)

Vessel/flight no. and date Place of departure

Participation of discharge Place of delivery

Shipping marks container number Number and kind of packages Item No. Commodity code
Gross weight (kg) Cube (m³)
Procedure Net weight (kg) Value (€)
Summary declaration previous document
Commodity code
Quantity 2 Gross weight (kg) Cube (m³)
Procedure Net weight (kg) Value (€)
Summary declaration previous document
Commodity code
Quantity 2 Gross weight (kg) Cube (m³)
Procedure Net weight (kg) Value (€)
Summary declaration previous document
Commodity code
Quantity 2 Gross weight (kg) Cube (m³)
Procedure Net weight (kg) Value (€)
Summary declaration previous document

*** DANGEROUS GOODS:**
Refer to 6002, 6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6014, 6015, 6016, 6017, 6018, 6019, 6020, 6021, 6022, 6023, 6024, 6025, 6026, 6027, 6028, 6029, 6030, 6031, 6032, 6033, 6034, 6035, 6036, 6037, 6038, 6039, 6040, 6041, 6042, 6043, 6044, 6045, 6046, 6047, 6048, 6049, 6050, 6051, 6052, 6053, 6054, 6055, 6056, 6057, 6058, 6059, 6060, 6061, 6062, 6063, 6064, 6065, 6066, 6067, 6068, 6069, 6070, 6071, 6072, 6073, 6074, 6075, 6076, 6077, 6078, 6079, 6080, 6081, 6082, 6083, 6084, 6085, 6086, 6087, 6088, 6089, 6090, 6091, 6092, 6093, 6094, 6095, 6096, 6097, 6098, 6099, 6100, 6101, 6102, 6103, 6104, 6105, 6106, 6107, 6108, 6109, 6110, 6111, 6112, 6113, 6114, 6115, 6116, 6117, 6118, 6119, 6120, 6121, 6122, 6123, 6124, 6125, 6126, 6127, 6128, 6129, 6130, 6131, 6132, 6133, 6134, 6135, 6136, 6137, 6138, 6139, 6140, 6141, 6142, 6143, 6144, 6145, 6146, 6147, 6148, 6149, 6150, 6151, 6152, 6153, 6154, 6155, 6156, 6157, 6158, 6159, 6160, 6161, 6162, 6163, 6164, 6165, 6166, 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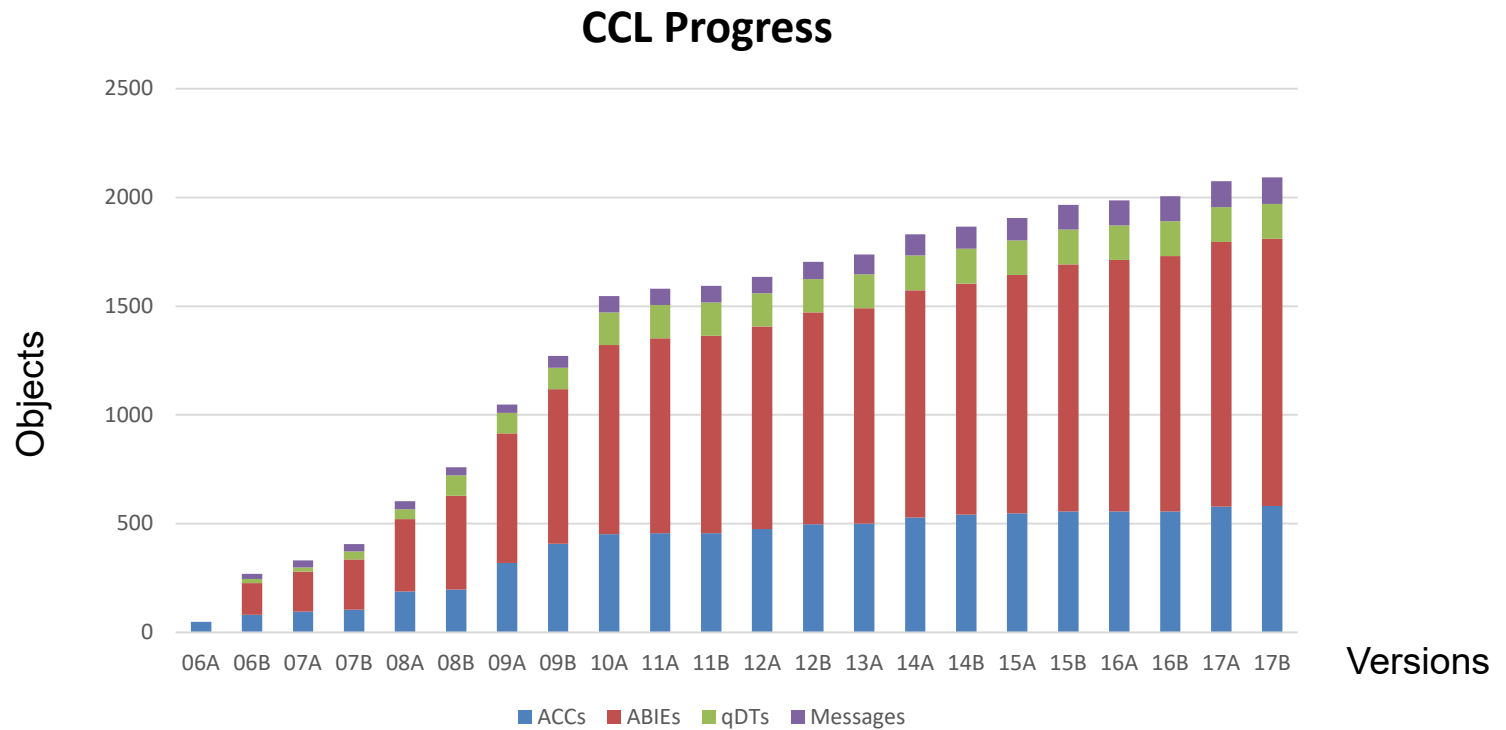
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