

UNITED NATIONS



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SPECA Workshop on digitalization of transport services

The case of **eTIR** and **eCMR**



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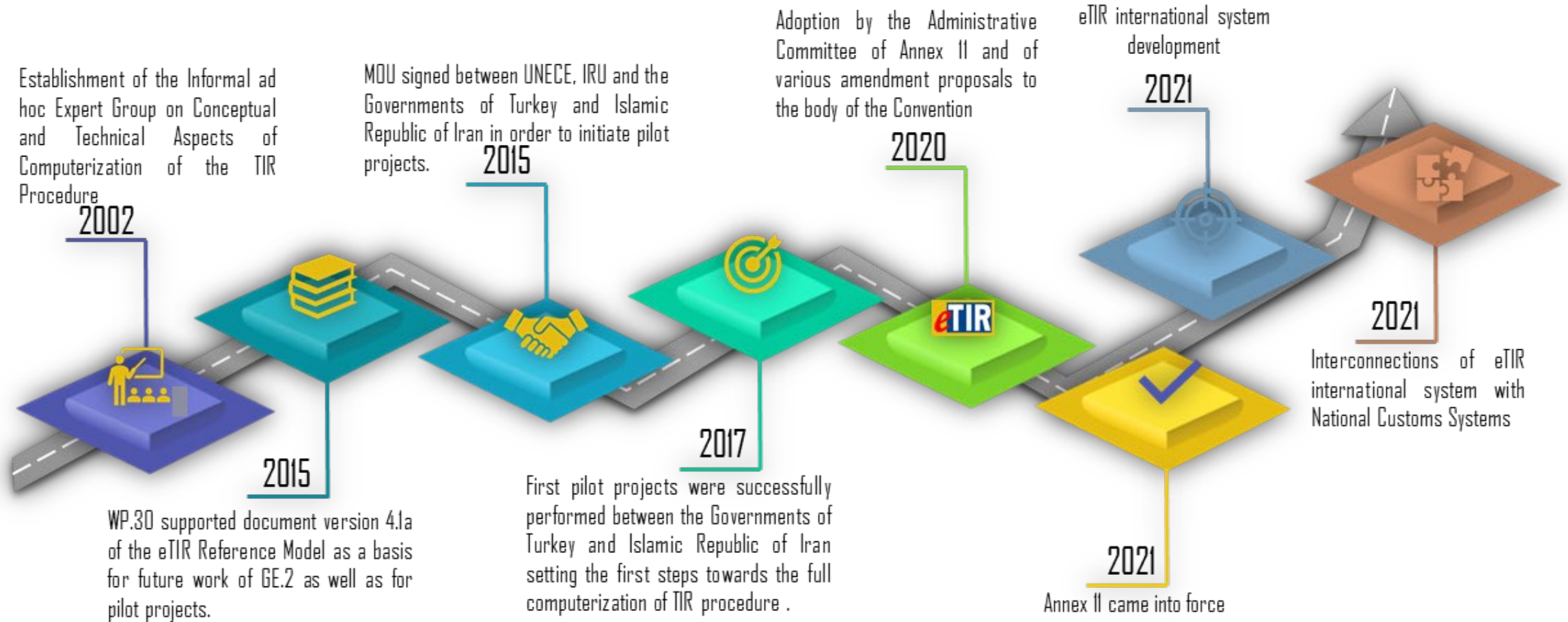
TIR Secretary

Chief Transport Facilitation and Economics

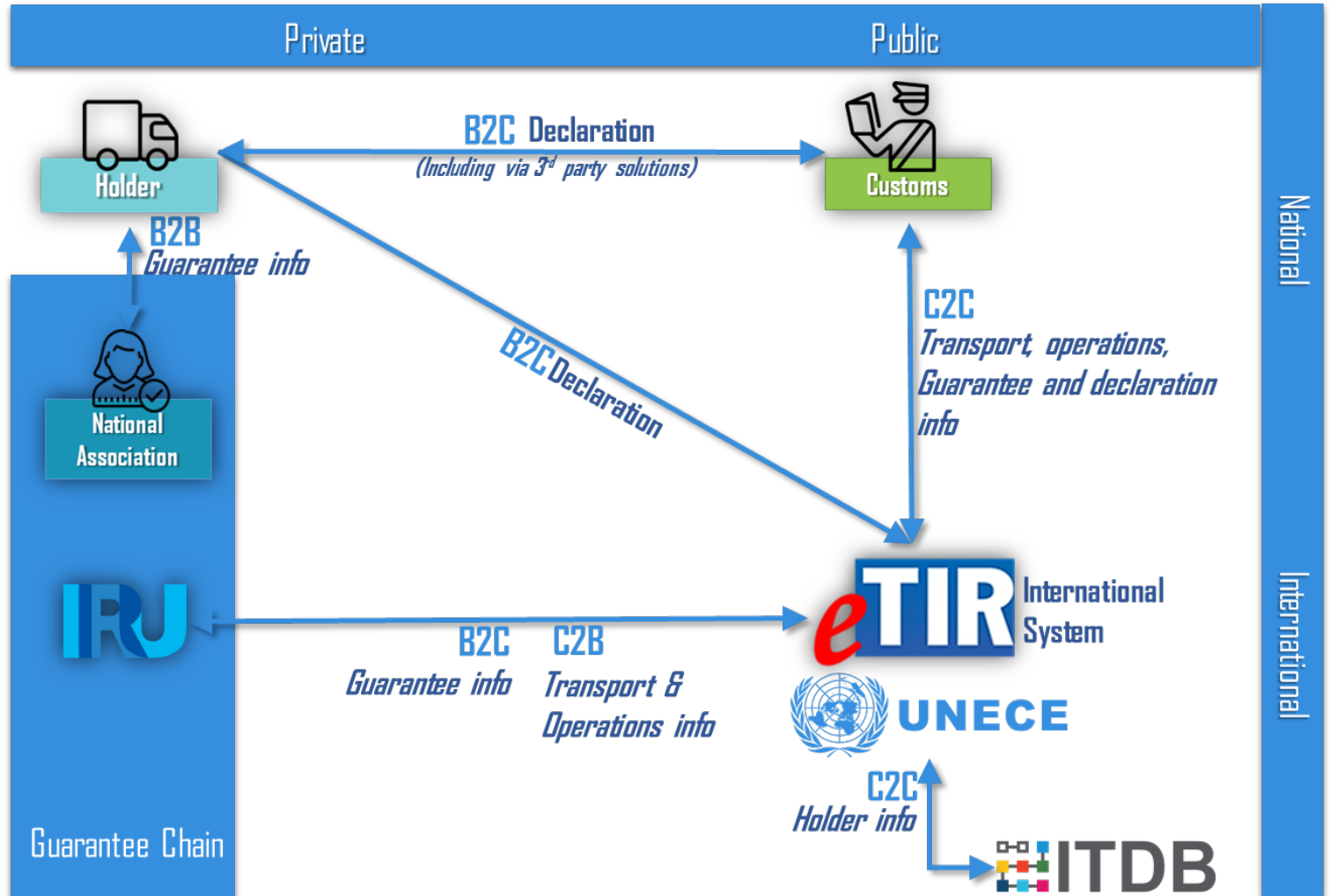
Sustainable Transport Division

UNECE

www.etir.org



The eTIR international system aims to ensure the secure exchange of data between national Customs systems related to the international transit of goods, vehicles or containers according to the provisions of the TIR Convention and to allow Customs to manage the data on guarantees, issued by guarantee chains to holders authorized to use the TIR system (Customs to Customs).

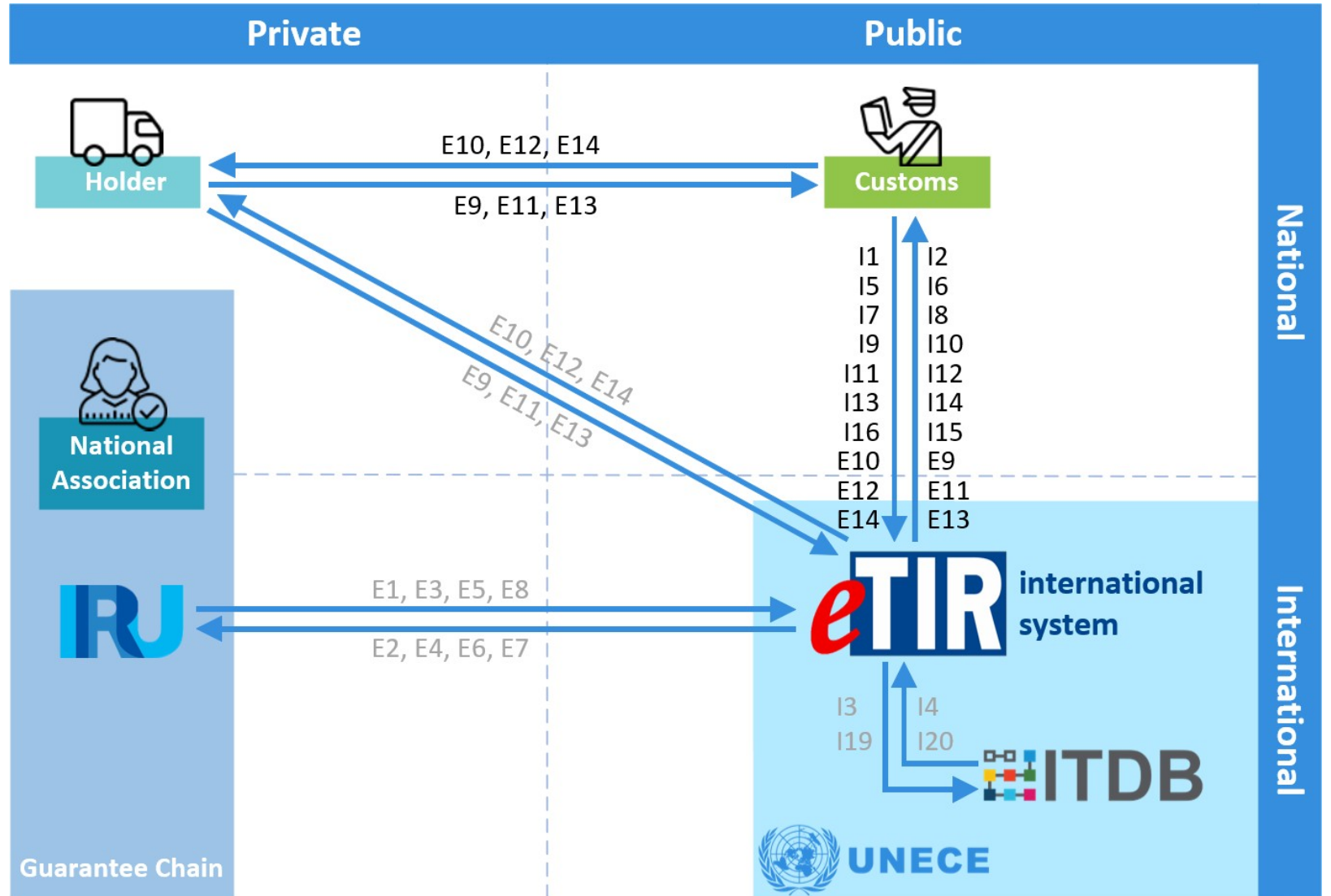


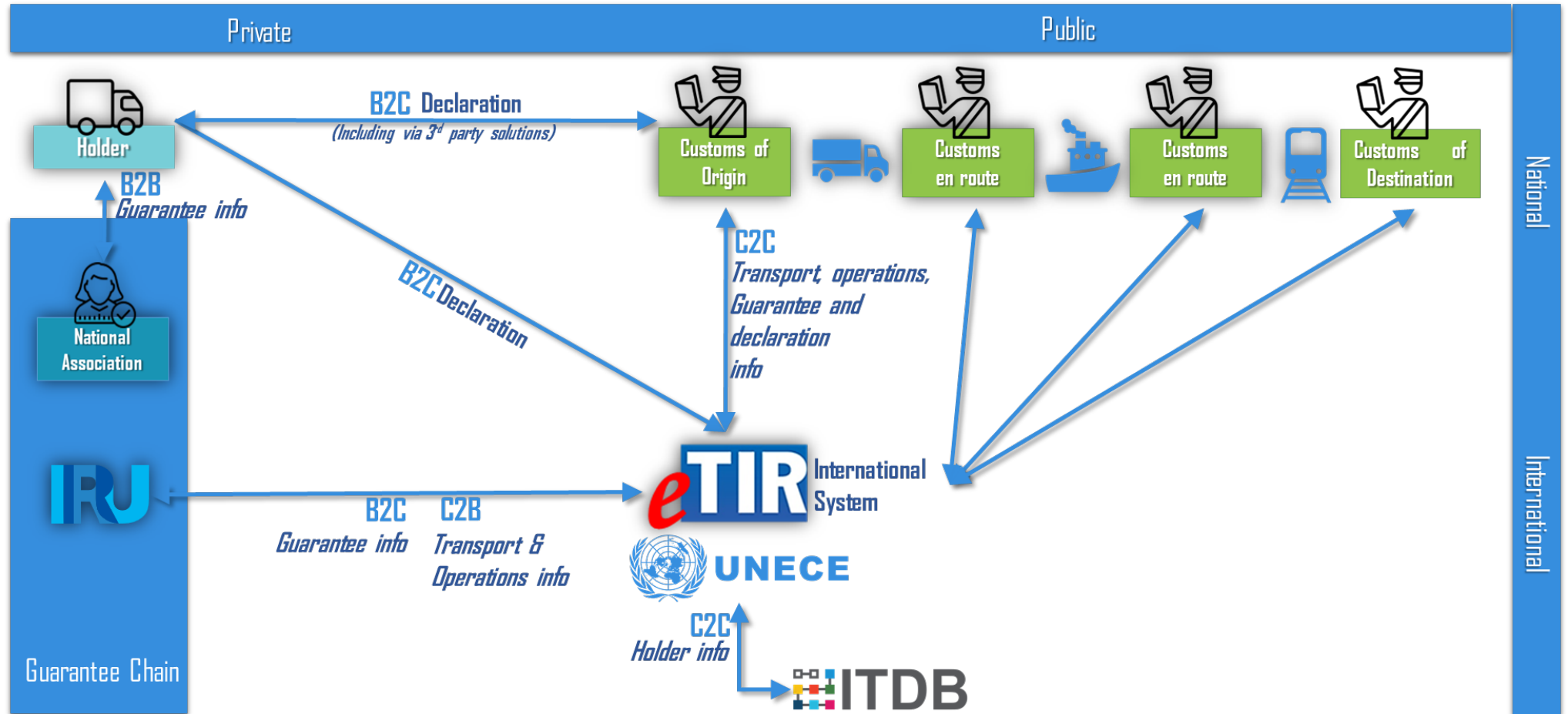
External messages (B2C)

E1	E2	Record guarantee
E3	E4	Cancel guarantee
E5	E6	Query guarantee
E7	E8	Notify guarantee chain
E9	E10	Advance TIR data
E11	E12	Advance amendment data
E13	E14	Cancel advance data

Internal messages (C2C)

I1	I2	Accept guarantee
I3	I4	Get holder info
I5	I6	Query guarantee
I7	I8	Record declaration data
I9	I10	Start TIR operation
I11	I12	Terminate TIR operation
I13	I14	Discharge TIR operation
I15	I16	Notify customs
I17	I18	Refusal to start TIR operation
I19	I20	Check customs office



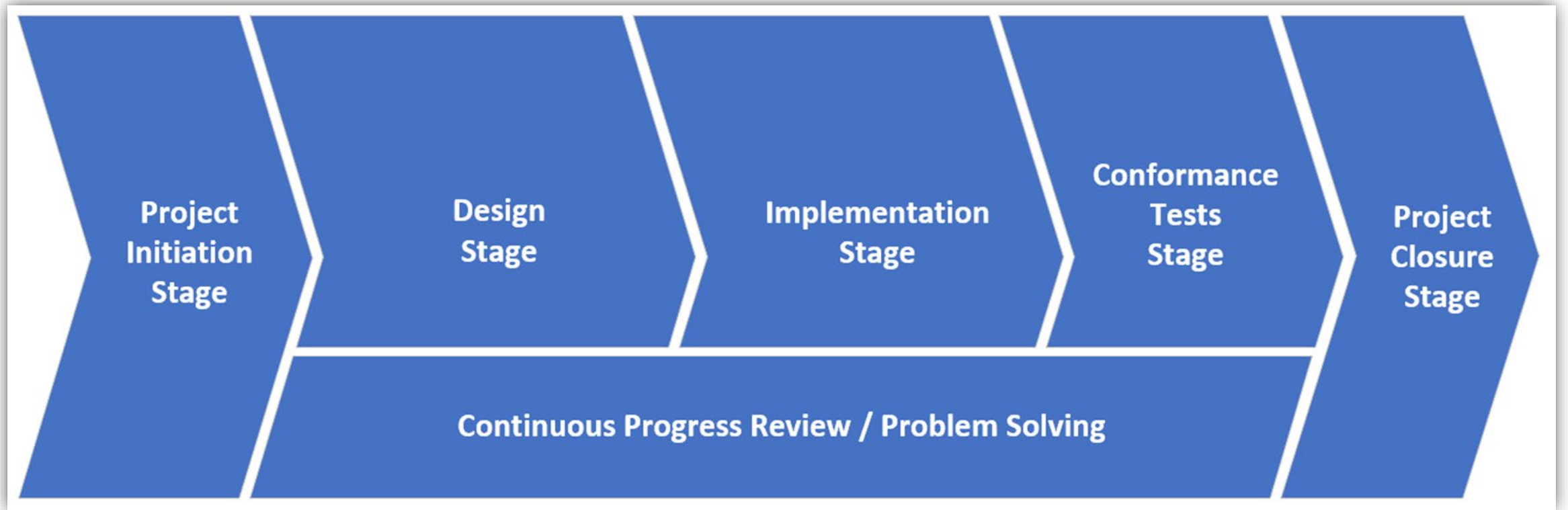


National

International

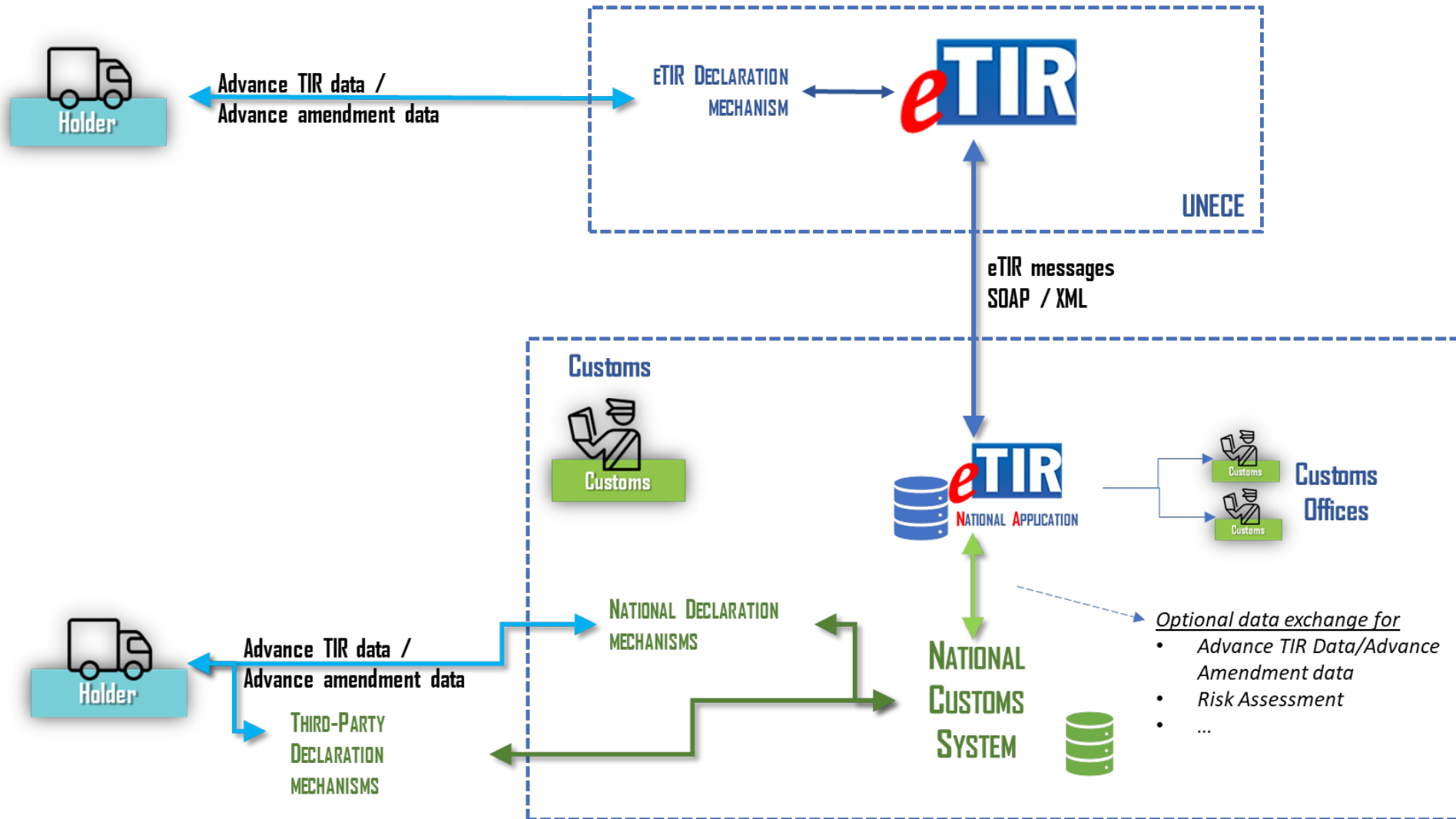
- 1. Introduction: https://unece.org/sites/default/files/2021-09/WP30-GE1_id21-11e.pdf
- 2. Concepts: https://unece.org/sites/default/files/2021-09/WP30-GE1_id21-13e.pdf
- 3. Functional specifications: https://unece.org/sites/default/files/2021-09/WP30-GE1_id21-14e.pdf
- 4. Technical specifications: https://unece.org/sites/default/files/2021-09/WP30-GE1_id21-12e_0.pdf



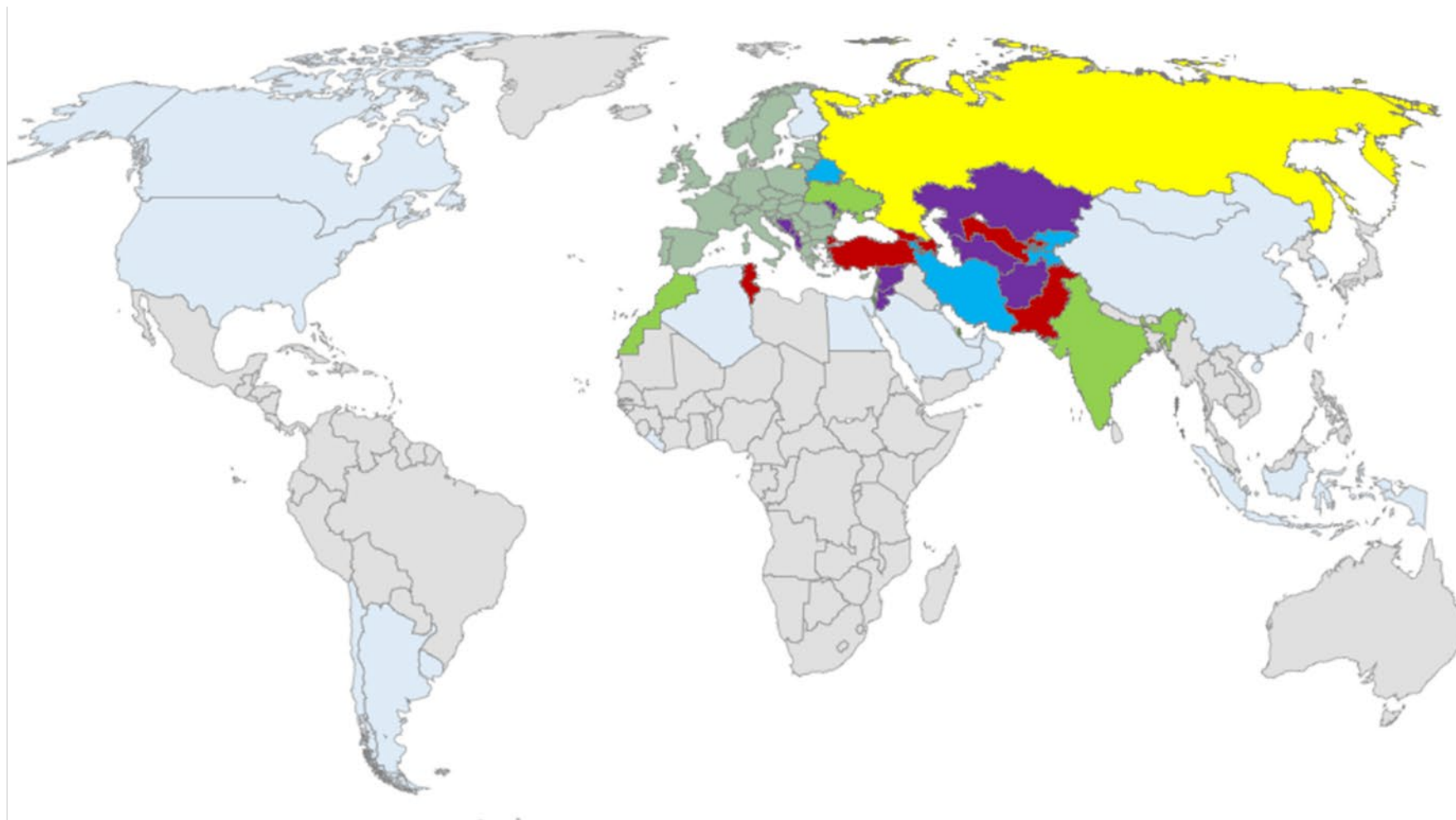


Time



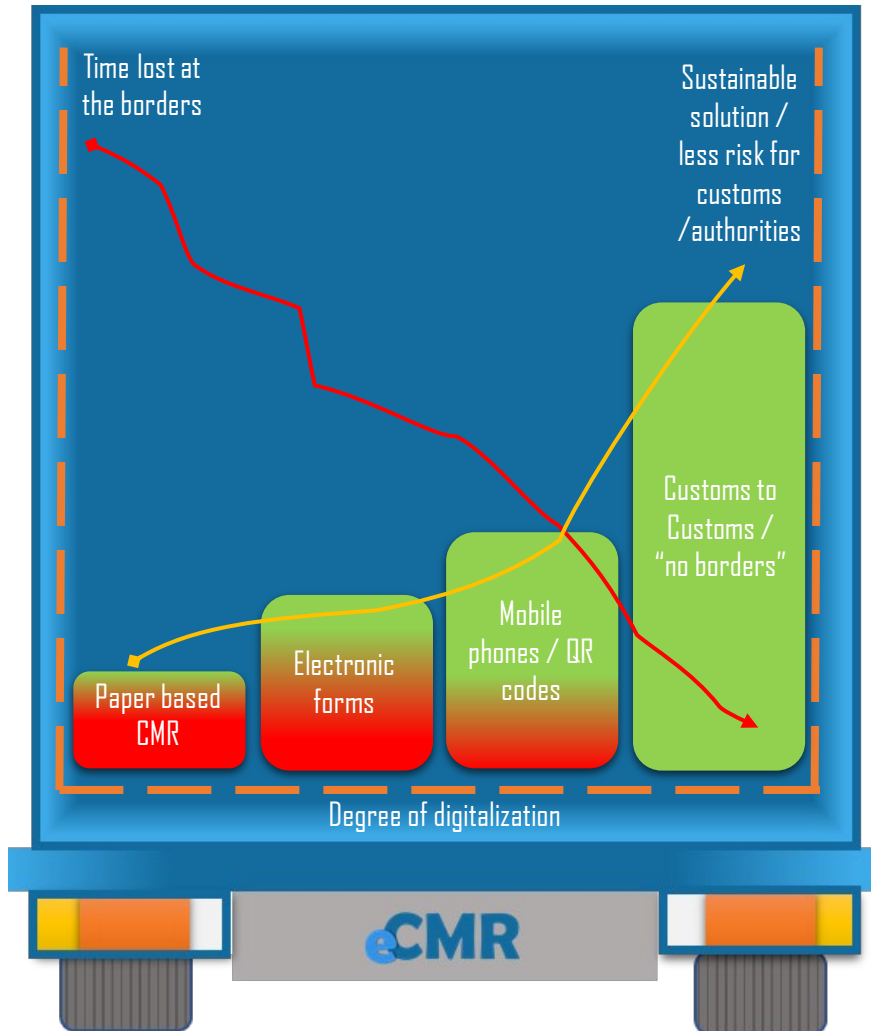


CPs finalizing implementation	6
CPs started interconnection	5
CPs expressed interest	6
CPs & ASYCUDA interconnection	9
CPs & EU PoC	31
Rest of TIR CPs	18+1

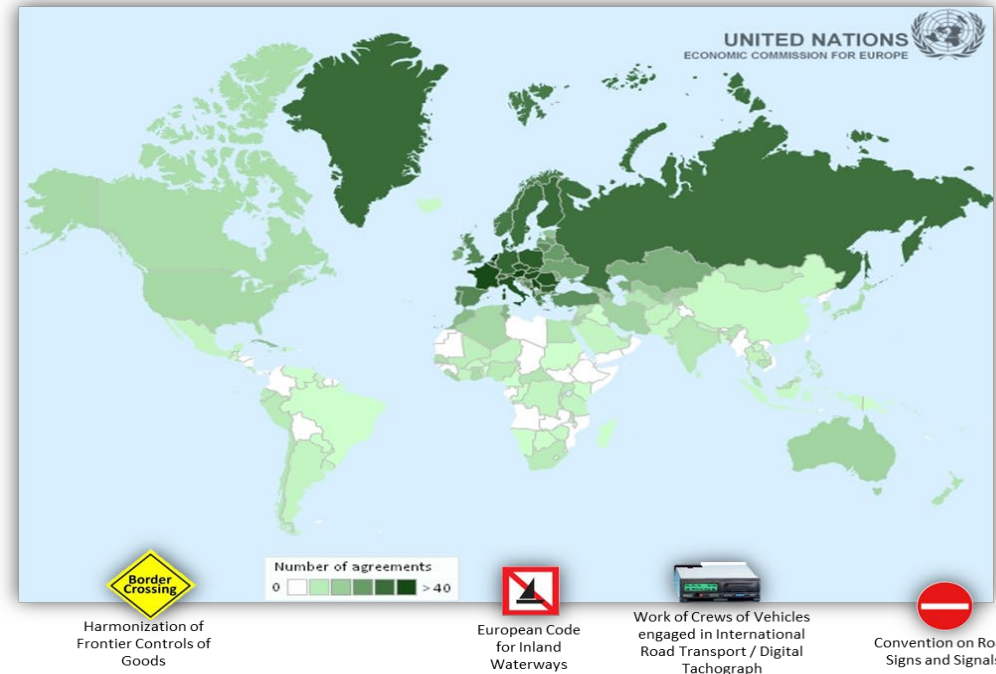


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eCMR



- TIR**
Global Customs facilitation tool
- International Driving Permit**
- Green Card**
Motor Vehicle Insurance System
- CMR**
Contract for the International Carriage of Goods by Road
- CH**
Convention on Road Traffic



- E1**
World Forum for Harmonization of Vehicle Regulations (WP 29)
- ADN**
International Carriage of Dangerous Goods by Inland Waterways
- ATP**
Carriage of Perishable Foodstuffs
- ADR**
International Carriage of Dangerous Goods by Road
- E40**
Infrastructure Agreements for roads (AGR), Rail (AGC), Inland Water Transport (AGN), Intermodal Transport (AGTC)

eCMR Facts





eCMR Contracting Parties

Article 5 of **eCMR Protocol**

Users of **eCMR**

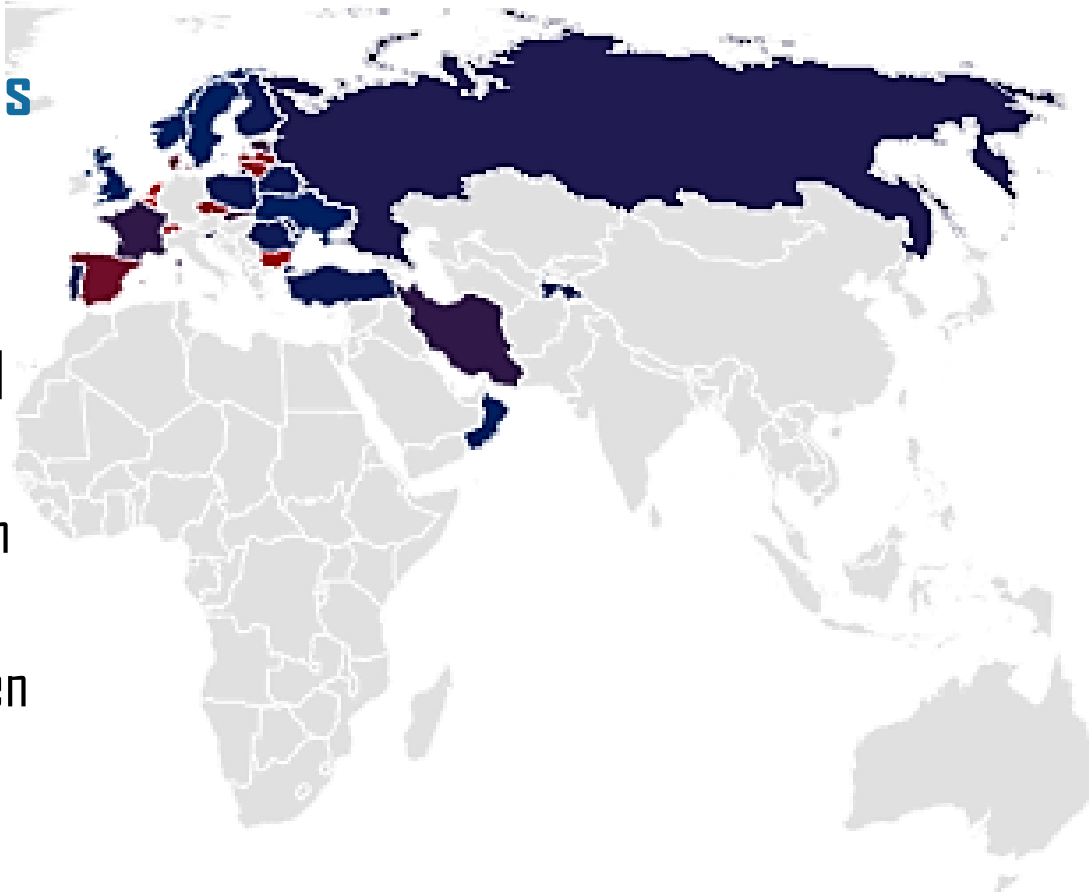
Pilots on **eCMR**

UN/CEFACT work on **eCMR**



eCMR Contracting Parties

- 29 Contracting Parties,
- out of those:
 - 4 (14%) ratified / acceded between 2008-2010;
 - 7 (24%) acceded between 2011 - 2016;
 - 18 (62%) acceded between 2017-2020
 - 1 has only signed but not ratified





Article 5 of eCMR Protocol

Article 5

Implementation of the electronic consignment note

1. The parties interested in the performance of the contract of carriage shall agree on the procedures and their implementation in order to comply with the requirements of this Protocol and the Convention, in particular as regards:
 - (a) The **method for the issuance and the delivery of the electronic consignment note** to the entitled party;
 - (b) An assurance that the electronic consignment note **retains its integrity**;
 - (c) The **manner in which** the party **entitled to the rights arising** out of the electronic consignment note is able to demonstrate that entitlement;
 - (d) The way in which **confirmation is given that delivery to the consignee has been effected**;
 - (e) The procedures for **supplementing or amending the electronic consignment note**; and
 - (f) The **procedures for the possible replacement of the electronic consignment note** by a consignment note issued by different means.
2. The procedures in paragraph 1 must be referred to in the electronic consignment note and shall be **readily ascertainable**.



Users of eCMR



- Taking receipt of goods by the carrier;
- Conclusion and content of the contract of carriage;
- Good external condition of goods and number of packages;

Copy

- First copy (sender's copy)
- Second copy (consignee's copy)
- Third copy (carrier's copy)
- Fourth copy (carrier's file copy)

Disposal

- Retained by sender
- Accompanies the goods
- Accompanies the goods
- Retained by carrier

Color

- Red
- Blue
- Green
- Black

- Info about the condition and quantity of the goods;
- Measures to be taken by the carrier;
- Transportation route
- Safety gain through clear identification of all carriers (sub- contractors)



- Proof of export of the goods;
- Confirmation of arrival
- Checking at the borders

- Cabotage practices;
- Validity of transport



- CMR is a customs document: proof of actual export and domestic delivery ("Customs Entry Certificate")
- Documentary letter of credit;
- Documentary collection (credit security, cash in return of the documents etc)
- Proof of delivery (Halting the practice of illegal VAT refunds)



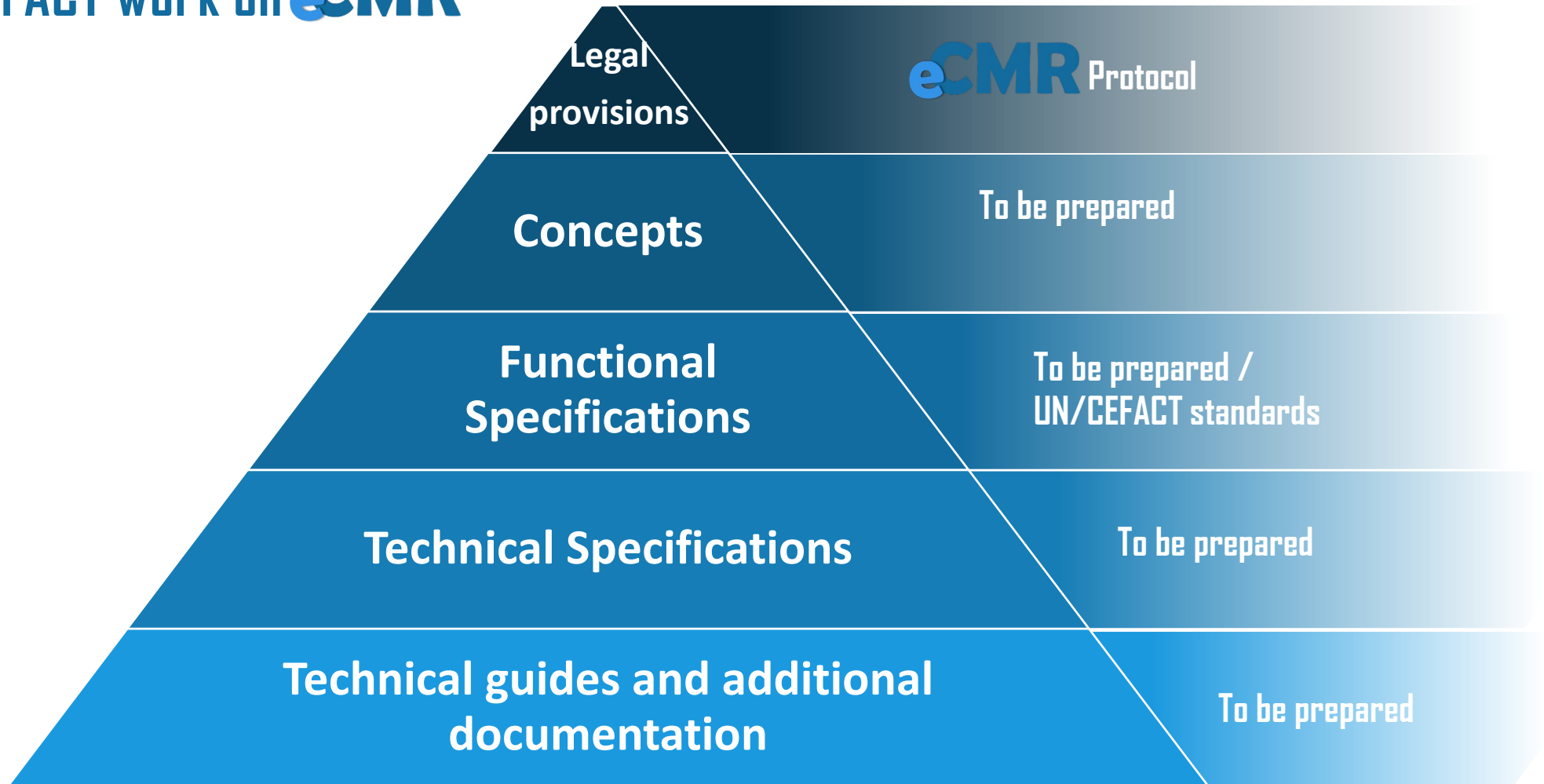
- Further action after taking receipt of the goods;
- Certain information regarding the goods



Pilots on eCMR



UN/CEFACT work on eCMR





Requirements that the **eCMR** protocol stipulates

2



<i>Articles of the eCMR protocol</i>	<i>id</i>	<i>Operational procedure</i>
Article 2	1	demand
	2	declaration
	3	instruction
	4	request
	5	reservation
	6	other communication relating to the performance of a contract of carriage
Article 3	7	Authentication of the electronic consignment note
	8	particulars contained in the electronic consignment note shall be accessible to any party entitled thereto
Article 4	9	electronic consignment note shall contain the same particulars as the consignment note referred to in the Convention
	10	The procedure used to issue the electronic consignment note shall ensure the integrity of the particulars contained therein from the time when it was first generated in its final form

Requirements that the eCMR protocol stipulates

<i>Articles of the eCMR protocol</i>	<i>id</i>	<i>Operational procedure</i>
Article 4	11	The particulars contained in the electronic consignment note may be supplemented or amended in the cases authorized by the Convention (The procedure used for supplementing or amending the electronic consignment note shall make it possible to detect as such any supplement or amendment to the electronic consignment note and shall preserve the particulars originally contained therein)
	12	The method for the issuance and the delivery of the electronic consignment note to the entitled party;
	13	An assurance that the electronic consignment note retains its integrity;
	14	The manner in which the party entitled to the rights arising out of the electronic consignment note is able to demonstrate that entitlement;
	15	The way in which confirmation is given that delivery to the consignee has been effected;
	16	The procedures for supplementing or amending the electronic consignment note;
	17	The procedures for the possible replacement of the electronic consignment note by a consignment note issued by different means

Requirements that the eCMR protocol stipulates

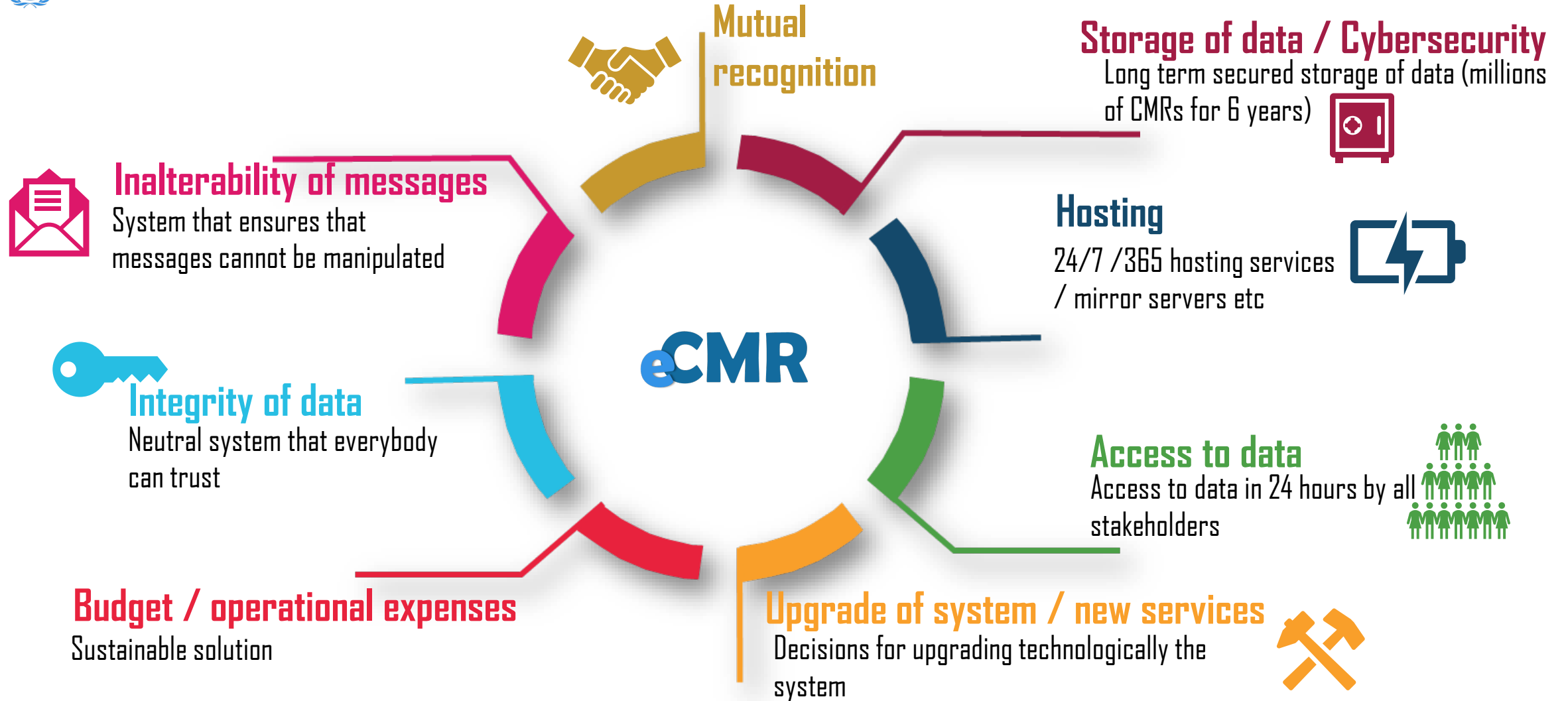
<i>Articles of the eCMR protocol</i>	<i>id</i>	<i>Operational procedure</i>
Article 6	18	The carrier shall hand over to the sender, at the latter's request, a receipt for the goods and all information necessary for identifying the shipment and for access to the electronic consignment note to which this Protocol refers
	19	The documents referred to in Article 6, paragraph 2 (g) and Article 11 of the Convention may be furnished by the sender to the carrier in the form of an electronic communication if the documents exist in this form and if the parties have agreed to procedures enabling a link to be established between these documents and the electronic consignment note to which this Protocol refers in a manner that assures their integrity



Requirements that the electronic environment imposes on future **eCMR** system

3

Requirements that the electronic environment imposes on future eCMR system



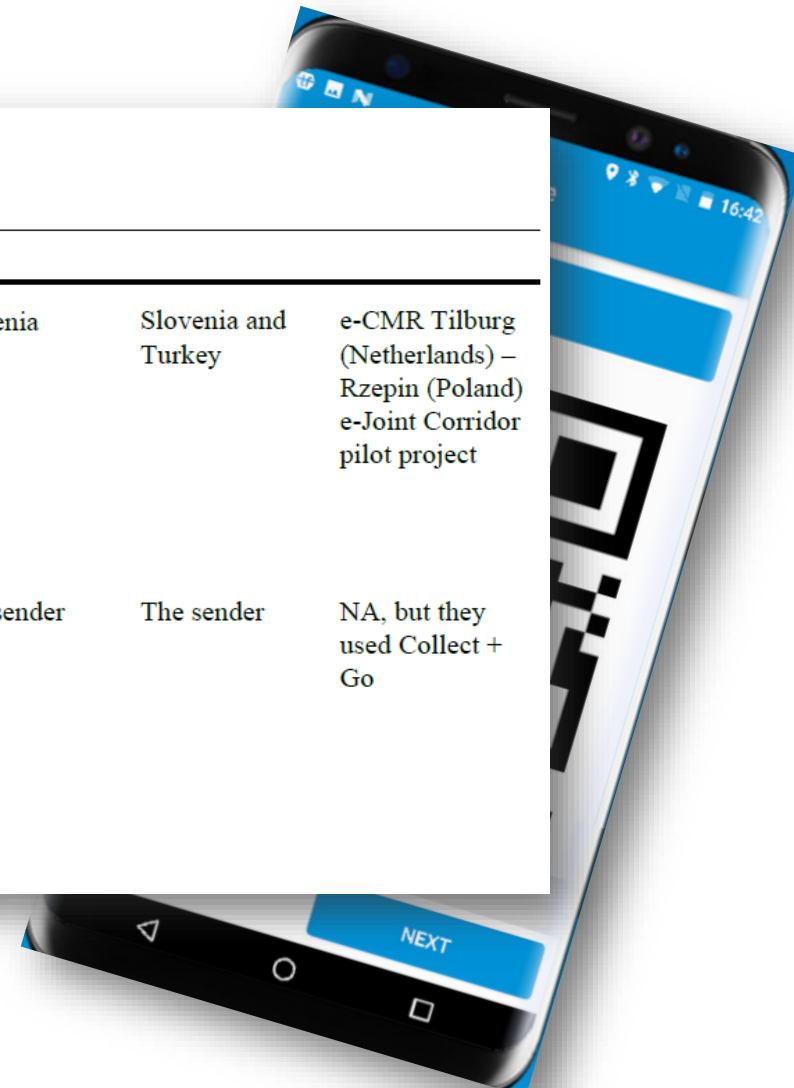
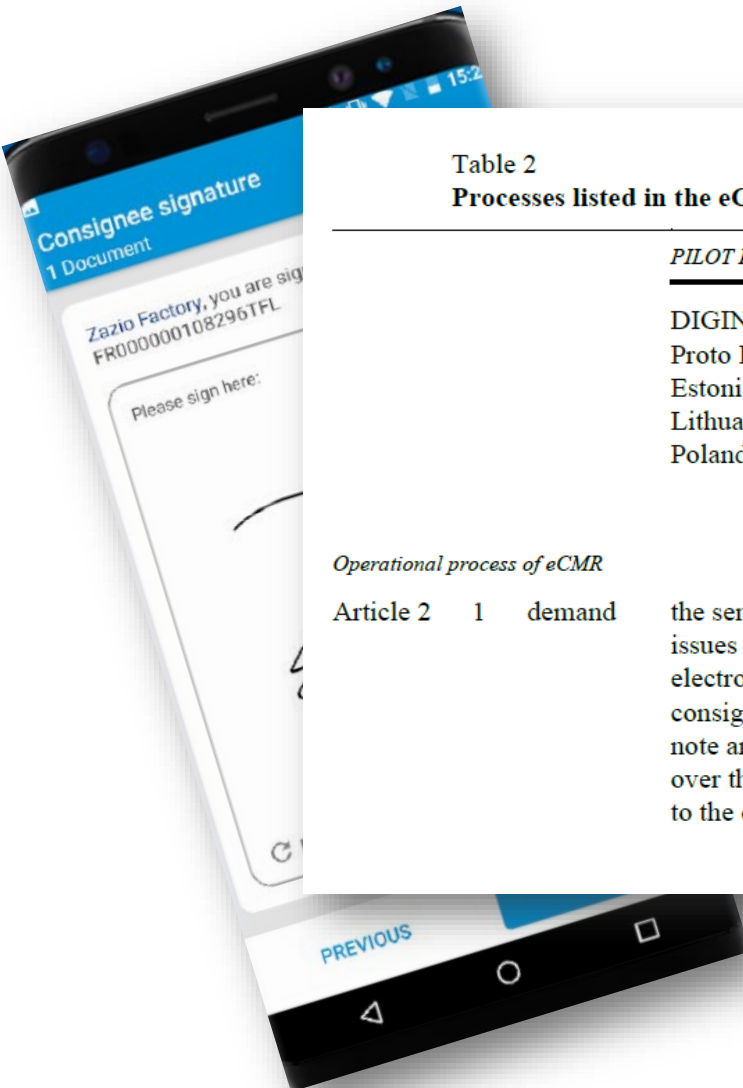


Gap Analysis between pilots performed on **eCMR** so far and requirements

4

Table 2
Processes listed in the eCMR protocol and processes followed by pilot projects initiated by the Countries

<i>PILOT PROJECTS</i>										
			DIGINNO-Proto Project – Estonia, Latvia, Lithuania, and Poland	AEOLIX Living Lab 12 project – Czech Republic, Germany, Greece, Romania, and Serbia	Benelux e-CMR project – Belgium, Luxembourg, and the Netherlands	France and Spain	France, the Netherlands, and the United Kingdom of Great Britain and Northern Ireland	Slovenia	Slovenia and Turkey	e-CMR Tilburg (Netherlands) – Rzepin (Poland) e-Joint Corridor pilot project
<i>Operational process of eCMR</i>										
Article 2	1	demand	the sender issues the electronic consignment note and hands over the goods to the carrier	NA, there is no confirmation on which party created the electronic consignment notes	Currently, the process of the electronic transport document starts by having an authorized party within the Benelux create	NA, but they used TransFollow	NA, but they used TransFollow	The sender	The sender	NA, but they used Collect + Go





- There are no operations of eCMR so far agreed by CPs;
- No harmonized approach for eCMR implementation / High level architecture;
- All existing pilots do not serve / cover needs, requirements of all actors involved / interested to CMR;
- Integrity of data that would create international TRUST to the eCMR operations is required;
- Procedures for supplementing or amending the electronic CMR, procedures for the possible replacement of the electronic consignment , confirmation is given that delivery to the consignee, authentication of the signatures etc have not been discussed, harmonized and agreed.

- Decision has to be taken towards which direction the future eCMR system will be developed in order to :
 - To be considered an international sustainable approach;
 - To ensure mutual recognition / integrity of data / inalterability of messages
 - To follow the provisions of the CMR Convention and its protocol



Decision of SC.1

SC.1 decided to establish a formal group of experts on the operationalization of the eCMR procedure for 2 years (2022 and 2023) to discuss and if possible agree on the requirements of article 5 of the Additional Protocol to CMR including the objective/scope, the high level architecture, and the conceptual specifications for a future environment that would support the conclusion and exchange of electronic consignment notes in accordance with the provisions of CMR and its Additional Protocol. Such work should also include an impact assessment of possible implementation scenarios of a future eCMR environment.

The Group of Experts should define/describe in particular (non exhaustive list):

- Scope / Objectives of a future eCMR environment;
- Stakeholders of the eCMR environment;
- High level architecture of the eCMR environment;
- The method for the issuance and the delivery of the electronic consignment note to the entitled party;
- An assurance that the electronic consignment note retains its integrity;
- The manner in which the party entitled to the rights arising out of the electronic consignment note is able to demonstrate that entitlement;
- The way in which confirmation is given that delivery to the consignee has been effected;
- The procedures for supplementing or amending the electronic consignment note;
- The procedures for the possible replacement of the electronic consignment note by a consignment note issued by different means.
- Conceptual specifications;
- Impact assessment.

eCMR



Thank you