



CESNI Workshop on the introduction of electronic documents in the field of inland navigation

E-CMR, a document dematerialization study from the road area

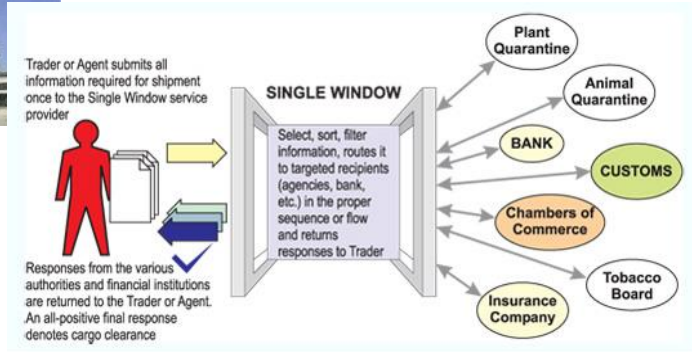
8 September 2022

Rudy.Hemeleers@51biz.lu



51Biz Luxembourg

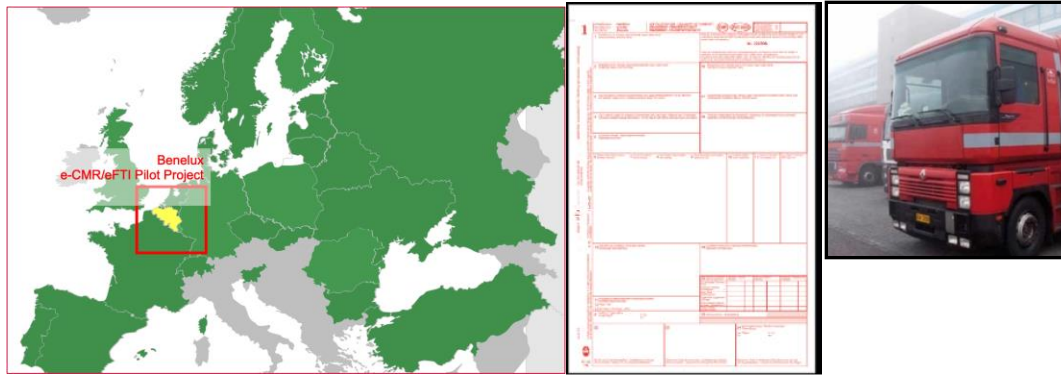
UN/CEFACT, WCO, DG Move DTLF



Fine Art and Luxembourg High Security Area



e-CMR, eFTI Luxembourg, UNECE



Belarus, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Iran, Latvia, Lithuania, Luxembourg, Moldavia, Poland, Portugal, Romania, Slovakia, Slovenia, Netherlands, Norway, Oman, Russia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Ukraine, UK and Uzbekistan

Digital Europe for Transport and Logistics



8 September 2022

1. The UNECE Geneva 2008 e-CMR Protocol Addition
2. E-CMR opportunities are confirmed
3. Logistics operators delay implementation

1

Exemplaire pour l'expéditeur • Exemplaar voor afzender • Exemplar für Absender

LETTRE DE VOITURE • VRACHTBRIEF • FRACHTBRIEF

CMR



0000000-2



Ce transport est soumis, nonobstant toute clause contraire, à la Convention CMR.
Dit vervoer is, ongeacht enig tegenstrijdig beding, onderworpen aan het CMR-Verdrag.
Trotz gegenteiliger Abmachung unterliegt diese Beförderung den Bestimmungen des CMR-Übereinkommens.

Pionira NV - www.pionira.be

1 Expéditeur ou commissionnaire (nom, adresse, Etat) • Afzender of commissionair (naam, adres, Staat) • Absender oder Spediteur (Name, Anschrift, Staat)

BVBA RECUPBAT
Nieuwe Westweg 10
BE-2040 Antwerpen

Consignor

2 Destinataire (nom, adresse, Etat) • Geadresseerde (naam, adres, Staat)
Empfänger (Name, Anschrift, Staat)

BVBA PIETER PORTERS COLLECTIE
Schranshoevebaan 15
BE-2160 Wommelgem

Consignee

3 Prise en charge de la marchandise (lieu, Etat, date, heure) • Inontvangstneming van de goederen (plaats, Staat, datum, uur) • Warenabnahme (Ort, Staat, Datum, Uhr)

BVBA RECUPBAT
Nieuwe Westweg 10
BE-2040 Antwerpen

Pickup

4 Livraison (lieu, Etat, date, heure) • Aflevering (plaats, Staat, datum, uur)
Lieferung (Ort, Staat, Datum, Uhr)

BVBA PIETER PORTERS COLLECTIONS
Schranshoevebaan 15
BE-2160 Wommelgem

Delivery

8 Frais afférents au transport • Transportgebonden kosten • Transportgebundene Kosten

5 Transporteur principal (nom, adresse, Etat, n° de licence, plaque(s) d'immatriculation)
Hoofdvervoerder (naam, adres, Staat, vergunningsnr., plaatnummer(s))
Hauptfrachtführer (Name, Anschrift, Staat, Genehmigungsnummer, amtliche Kennzeichen)

NV Valkeniersnatie
Luithagen-Haven 9
BE-2030 Antwerpen
40448

Carrier

Vrachtwagen: 1-WDL-234

Trailer: 1-QDL-234

6 Transporteur sous-traitant (nom, adresse, Etat, n° de licence, plaque(s) d'immatriculation)
Ondervervoerder (naam, adres, Staat, vergunningsnr., plaatnummer(s))
Unterfrachtführer (Name, Anschrift, Staat, Genehmigungsnummer, amtliche Kennzeichen)

7 Transporteur successif (nom, adresse, Etat, n° de licence, plaque(s) d'immatriculation)
Opvolgende vervoerder (naam, adres, Staat, vergunningsnr., plaatnummer(s))
Nachfolgender Frachtführer (Name, Anschrift, Staat, Genehmigungsnummer, amtliche Kennzeichen)

9 Réserves du transporteur lors de la prise en charge de la marchandise • Voorbehoud van de vervoerder bij de inontvangstneming van de goederen • Vorbehalte des Frachtführers bei der

Warenabnahme Afslevering Livraison Lieferung			
<p>10 Marchandises transportées (nature, nombre, poids brut ou net, emballage, marques et n°s, ...) • Vervoerde goederen (aard, aantal, bruto- of nettogewicht, verpakking, merken en nrs, ...) Beförderte Güter (Art, Anzahl, Brutto- oder Nettogewicht, Verpackung, Kennzeichnen und Nrs, ...)</p> <p>Empty Container: AVAU7777775 - MSC Avantida Reuse: https://platform.avantida.com#/community/reuse?id=cf2cfa22-e531-450e-ba47-354adfc0e736</p> <div data-bbox="792 455 1274 571" style="border: 1px solid black; background-color: #c00000; color: white; text-align: center; padding: 10px; margin: 20px auto; width: 180px;">Goods</div>			
<p>11 Documents annexes transmis par l'expéditeur • Door de afzender bezorgde aanvullende documenten • vom Absender zusätzlich übermittelte Dokumente</p>		<p>13 Instructions de l'expéditeur • Instructies van de afzender • Anweisungen des Absenders</p>	
<p>12 Lieu et date d'établissement • Plaats en datum van afgifte • Ausstellungsort und Datum</p> <p>Antwaaarpe 26/06/2020</p>			
<p>14</p>		<p>15 NV Valkeniersnatie</p>	<p>16</p>

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14 BE  Signature et cachet de l'expéditeur ou du commissionnaire Handtekening en stempel van de afzender of commissionair Unterschrift und Stempel des Absenders oder Spediteurs	15 NV Valkeniersnatie Luithagen-Haven 9 20 BE  Signature et cachet du transporteur effectif Handtekening en stempel van de werkelijke vervoerder Unterschrift und Stempel des tatsächlichen Frachtführers	16  Signature, date et cachet du destinataire Handtekening, datum en stempel van de geadresseerde Unterschrift, Datum und Stempel des Empfängers

The e-CMR protocol of 20 February 2008

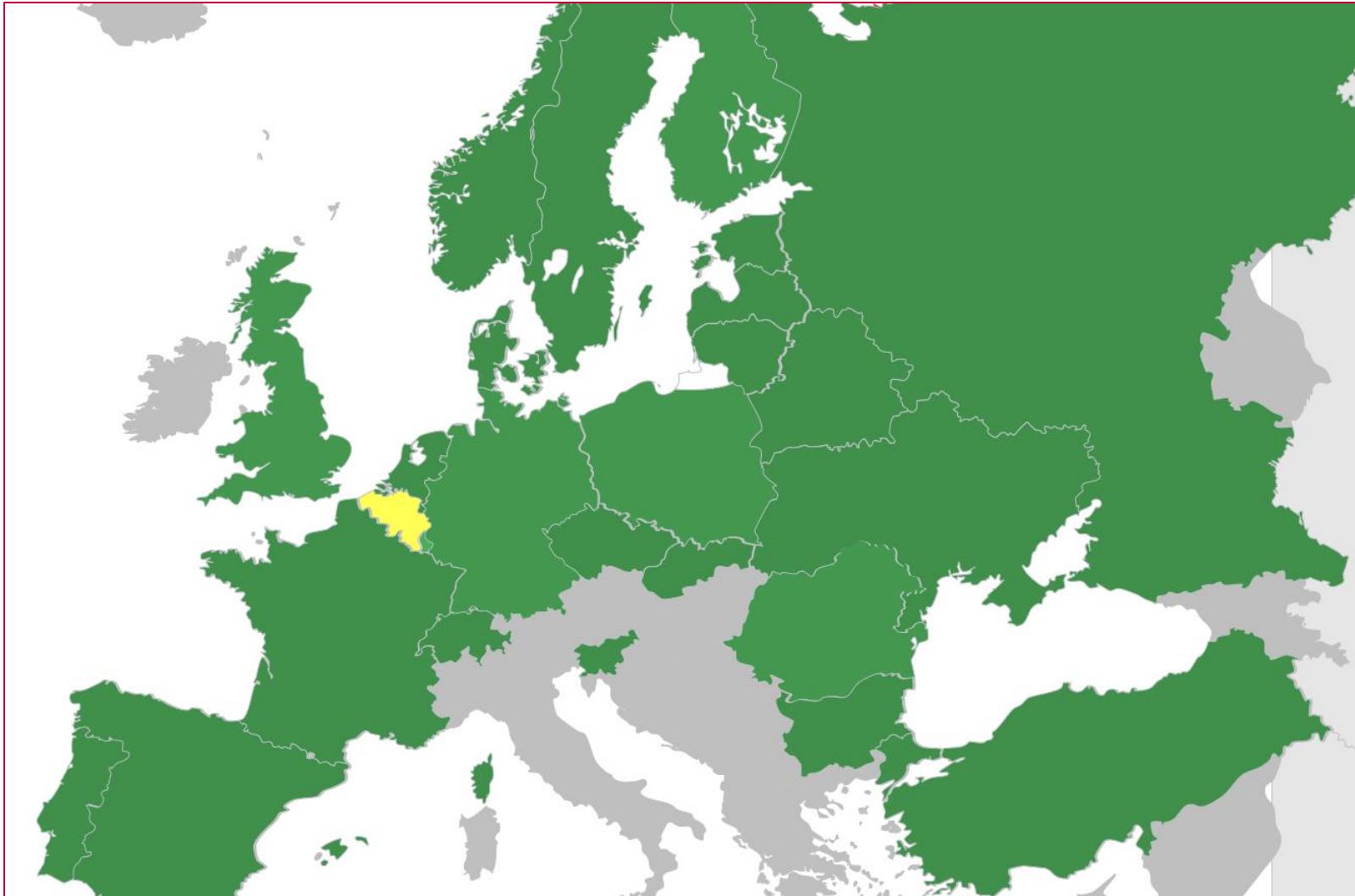
The image shows a sample CMR transport document form. It is a multi-part form with various fields for sender and recipient information, vehicle details, and a section for electronic consignment notes. The form is numbered 1 and 2, and includes a reference to the CMR Convention (1956) and the e-CMR Protocol (2008). The form is filled out with sample data, including a sender 'Expéditeur (nom, adresse, pays)' and a recipient 'Destinataire (nom, adresse, pays)'. The form also includes a section for 'Documents annexes' and a section for 'Conventions particulières'. The form is signed by the sender and the carrier, and includes a date and time stamp.

The CMR Convention (1956) also makes it mandatory to use a paper consignment note, unless countries have joined the convention's e-protocol (2008).

The e-protocol stipulates that it is possible to use an electronic consignment note for international road haulage.

If two bordering countries have ratified the e-protocol, road haulage is possible between them by carrying an accompanying electronic consignment note. **As soon as the electronic consignment note meets the requirements of the e-protocol, it is regarded as equivalent to the paper version and has the same evidentiary value and the same effects.**

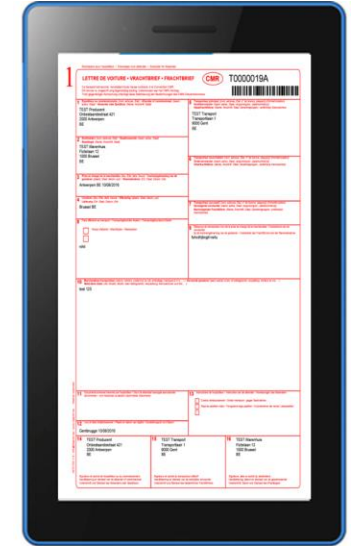
UNECE Geneva 2008 e-CMR Protocol



30 countries are adopting the e-CMR Protocol
Belarus, Bulgaria, Czech Republic, Denmark, Estonia, Finland, France, Germany, Iran, Latvia, Lithuania, Luxembourg, Moldavia, Poland, Portugal, Romania, Slovakia, Slovenia, Netherlands, Norway, Oman, Russia, Spain, Sweden, Switzerland, Tajikistan, Turkey, Ukraine UK and Uzbekistan

[Latest update on UNECE Website](#)

Availability information



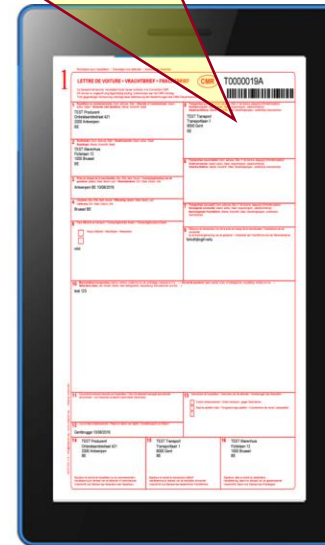
- Automated file
- Access by search criteria
- 7 years of history

- Physical file
- Manual search

Xynaps

Transparency, attachments, follow-up

- Real-time information
- All kinds of attachments
- Doc. Coordination of activities
- Automatic notifications



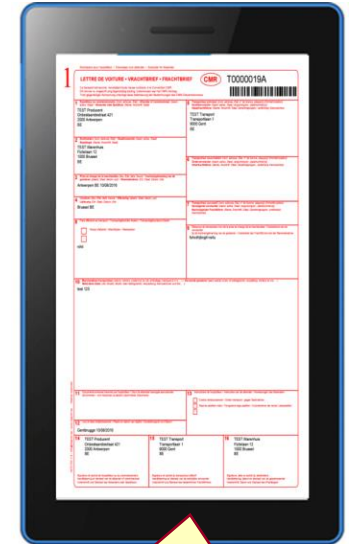
- Access to historical information?
- Add documents?



Transparency, Statuses, follow-up



Date	State
10/12/2018 2:04:41 PM	Unloaded
10/12/2018 2:04:41 PM	Delivered
10/12/2018 2:04:41 PM	Signed for delivery
10/12/2018 2:04:41 PM	Completed
10/12/2018 1:54:54 PM	Loaded
10/12/2018 1:54:54 PM	Signed for pickup
10/12/2018 1:54:05 PM	Issued
10/12/2018 1:54:05 PM	Planned



- STATUSES IN MAP
- (Arrival times, signatures, departure times, ...) linked to google maps

In practice

1 Expéditeur GHA1.AMS Ground Handling Agent Schiphol Schiphol Cargo Airport, NL-12345 Schiphol, NL		CMR LETTRE DE VOIURE INTERNATIONALE INTERNATIONAL CONSIGNMENT NOTE N° 47273 N° suivi BC3844-1C25FA																						
2 Destinataire GHA1.AMS Ground Handling Agent Schiphol Schiphol Cargo Airport, NL-12345 Schiphol, NL		16 Transporteur truck1.lu Trucking Company Parc industriel 1, L-1234 Luxembourg, LU 003661 707101 transporteur@1.lu																						
3 Destinataire pour la livraison de la marchandise (à compléter) GHA1.AMS Ground Handling Agent Schiphol Schiphol Cargo Airport, NL-12345 Schiphol, NL		17 Destinataire pour la livraison de la marchandise (à compléter) Jean Dubois Villeneuve 12345 12345 Remorqueur (DECHET)																						
4 Destinataire pour la prise en charge de la marchandise (à compléter) GHA1.LUX Ground Handling Agent Luxembourg Aéroport de Luxembourg, L-1511 Luxembourg, Luxembourg		18 Signet et observations du transporteur Citer un numéro de suivi et observations Citer package damaged																						
5 Destinataire pour la livraison de la marchandise (à compléter) Remarque à l'attention																								
<table border="1"> <thead> <tr> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> </tr> <tr> <th>Quantité</th> <th>Conditionnement</th> <th>Nature de la marchandise</th> <th>Poids</th> <th>Volume</th> <th colspan="2">Informations complémentaires</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>Colis</td> <td>Flowers</td> <td>257 kg</td> <td></td> <td colspan="2"></td> </tr> </tbody> </table>				6	7	8	9	10	11	12	Quantité	Conditionnement	Nature de la marchandise	Poids	Volume	Informations complémentaires		25	Colis	Flowers	257 kg			
6	7	8	9	10	11	12																		
Quantité	Conditionnement	Nature de la marchandise	Poids	Volume	Informations complémentaires																			
25	Colis	Flowers	257 kg																					
13 Instructions de l'expéditeur Chargement / Loading Date et heure d'arrivée: 12 mars 2018 14:39 Date et heure de départ: 12 mars 2018 14:40 Prestations services (statut des services)																								
14 Description de la marchandise Description de la marchandise France / Carriage paid Non France / Carriage forward																								
19 Convention particulière Avoir et agencement																								
20 Avoir par Description de la marchandise Description de la marchandise Description de la marchandise Description de la marchandise Description de la marchandise Description de la marchandise Description de la marchandise Description de la marchandise																								
21 Destinataire Destinataire 12 mars 2018 14:39																								
22 Signature et date de l'expéditeur Expéditeur: Patrick Lue																								
23 Signature et date du destinataire Destinataire: Jean Dubois																								
24 Signature et date du destinataire Destinataire: Jean Dubois																								

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Business Opportunity

Belgian e-CMR
Survey (2019)

[link to analysis of survey](#)



€ 13,11



Paper CMR

€ 22,83



€ 8,95



€ 11,56



€ 2,32



e-CMR

€ 9,72



€ 2,51



€ 6,04



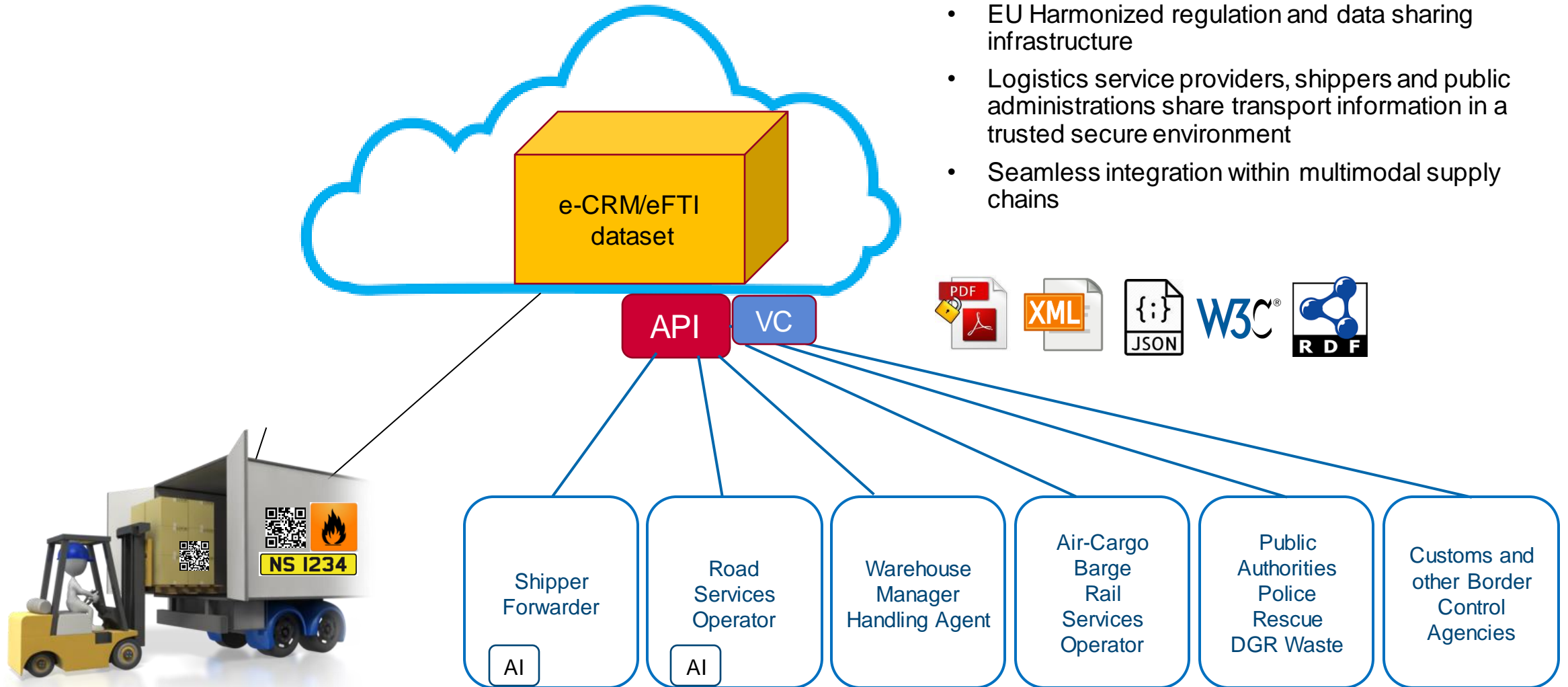
€ 1,16

e-CMR Opportunities are confirmed



1. Potential savings are confirmed by logistics operators
 - 4,5 .. 13,11 € per e-CMR
 - Real-time access to accurate data
 - End-to-end integration of IT systems of shipper – carrier – handling agent
2. Potential savings are confirmed by public authorities
 - Single direct access to all authorized e-CMR service providers
 - By vehicle registration ID, while vehicle is moving
 - Integration dangerous transport, e-Call
 - ... when mandatory (dangerous goods, week-end restrictions, cabotage control)

From document to e-CMR dataset



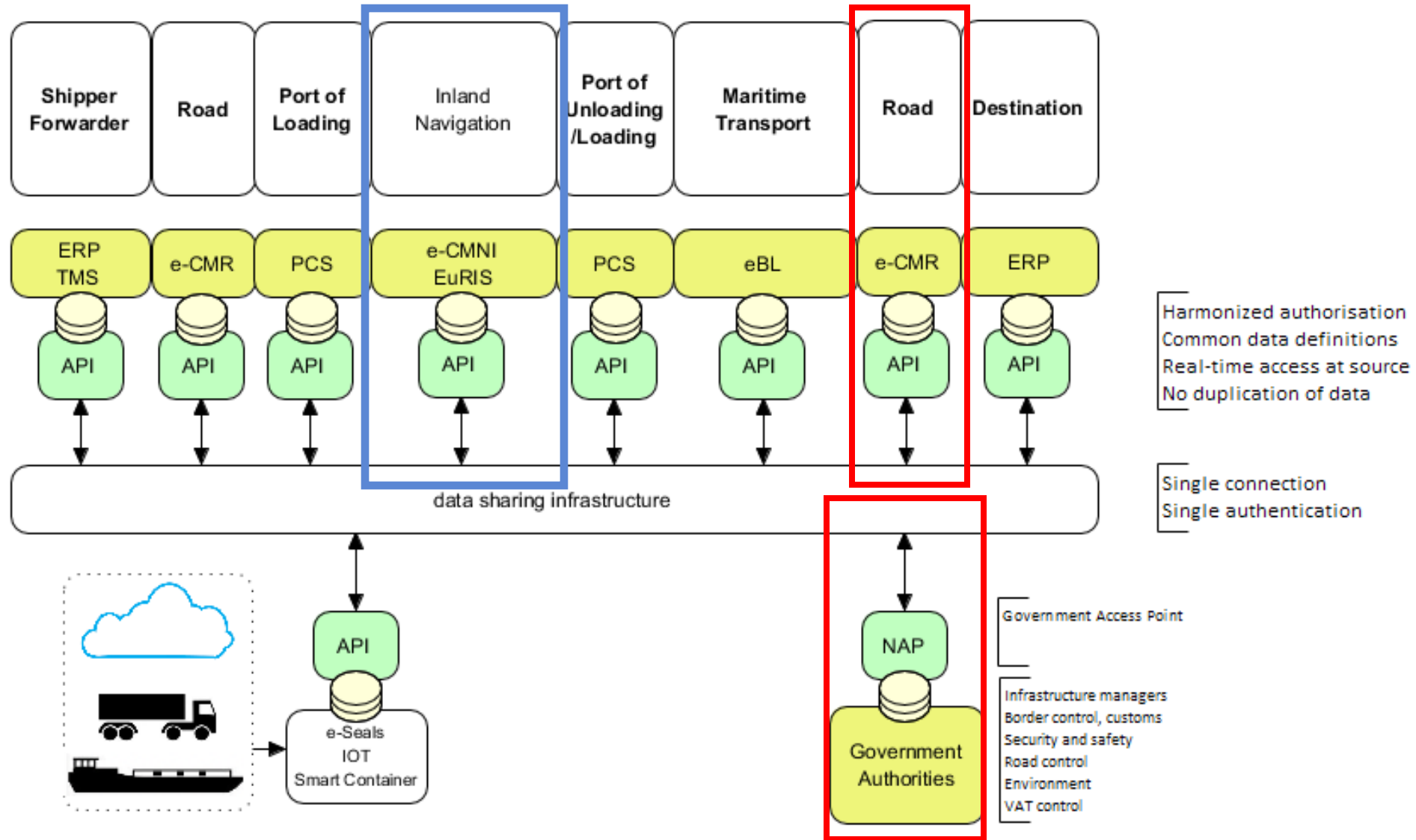
- EU Harmonized regulation and data sharing infrastructure
- Logistics service providers, shippers and public administrations share transport information in a trusted secure environment
- Seamless integration within multimodal supply chains

Logistics operators delay implementation

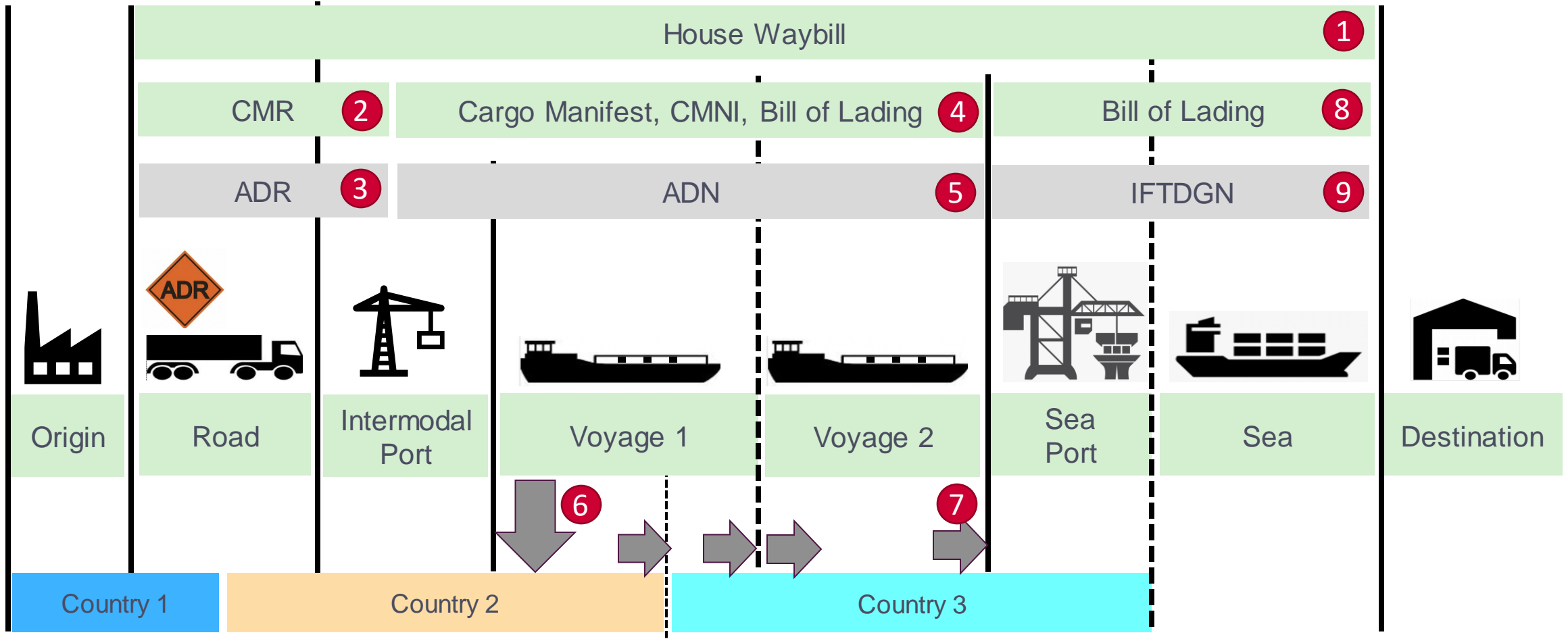


1. Need for harmonized digital hands-over of goods
2. Need for harmonized EU-Regulation
3. Need for harmonized data integration of internal systems
4. Larger operators want to use their internal ERP and TMS systems
5. Use same data for transport and customs/border control
6. SME operators need solution as easy as Dropbox

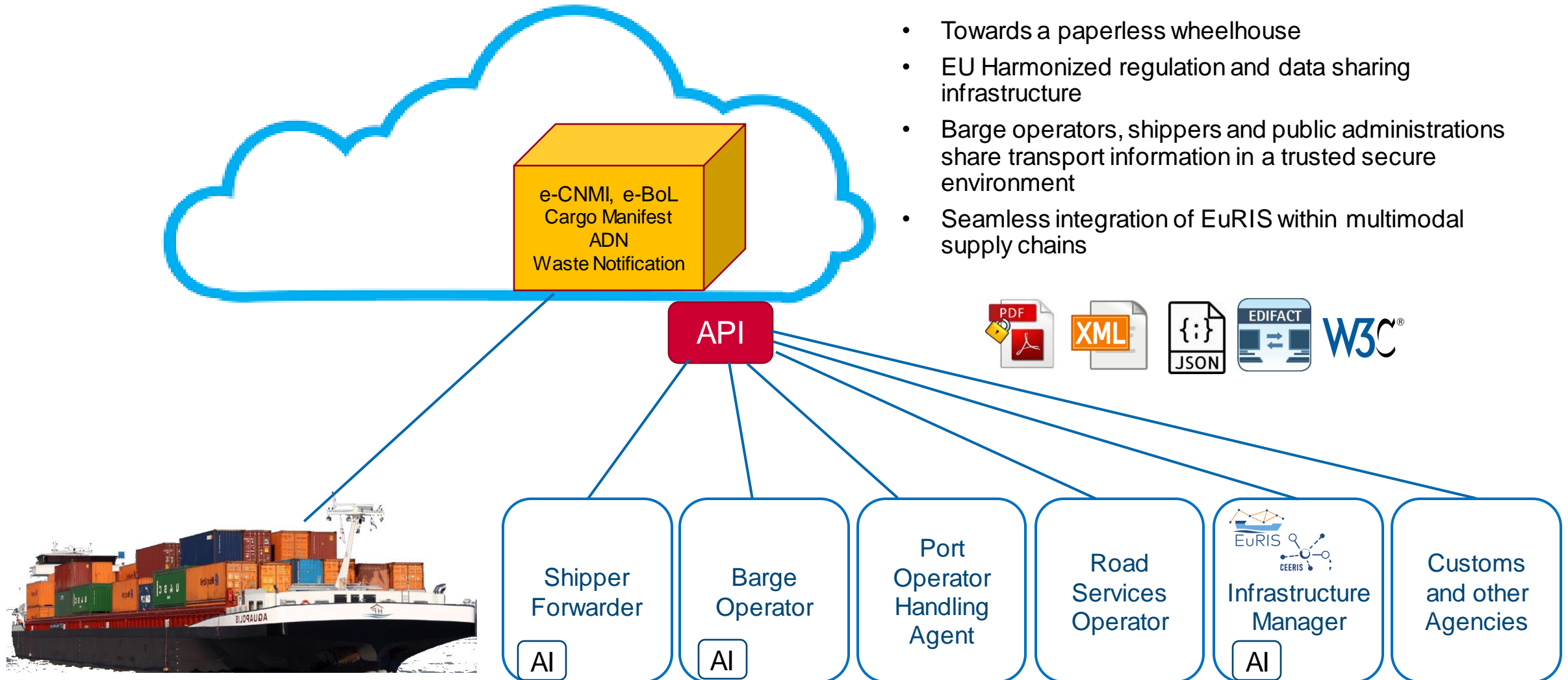
Global interoperability as a first priority



Interoperability is a first priority



Towards a paperless wheelhouse



<https://onerecord.eu-gate.eu/1T/LaBlanca/>



Digital Transport

La Blanca	24/7/2018	11:17			
Itineary	RTM-DUIS-MRT-THI				
LEG 1	RTM	DUI	ATD	12/7/2018	08:30
				14/7/2018	14:20
LEG 2	DUI	MRT	ATD	15/7/2018	10:00
				16/7/2018	16:00
LEG 3	MRT	THI	ETD	18/7/2018	07:00
				18/7/2018	16:00
MAN 1	RTM	MRT	LOAD	11/7/2018	21:00
			ATD	12/7/2018	08:30
			ETA	16/7/2018	16:00
LBL123 ORD18-321 MEC-CONT - 10 CNT					

<https://onerecord.eu-gate.eu/1L/ord18-321/>



Digital Shipment

ORD18-321 MEC-CONT - 10 CNT						
HWB	MEC-1234	MEC	CNT	ATD	12/7/2018	14:00
CMR	BE-1234-PIO	BRU	ANR	ATA	12/7/2018	18:00
ANR	PA-180721-4			UNL	12/7/2018	21:30
CNMI	LBL123	ANR	MRT	ATD	13/7/2018	06:30
	DeBrugge	ANR	RTM	ATA	13/7/2018	21:30
	LaBlance	RTM	MRT	ETA	16/7/2018	16:00
MRT	PA-180799-4			UNL	16/7/2018	17:30
CMR	LU-1234-TFL	MRT	CNT	ETD	18/7/2018	19:30
				ETA	18/7/2018	22:00

Backup slides

1. UN/CEFACT specifications
2. CMNI Budapest 2002 Convention

eFTI – 5 Principles

