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Bundesverband Güterkraftverkehr
Logistik und Entsorgung (BGL) e.V.

Frankfurt

eCMR pilot in Germany:

Additional possibilities
using electronic
consignment notes





July 2017

DB Schenker, MAN and the Highschool FRESINIUS are testing **Platooning** on the Autobahn A9

Federal Ministry Of Transport And Digital Infrastructure supports project with 2 millions Euro



May 2019

Trolley System

Trucks charge Batteries while Driving

Autobahn A5, between Frankfurt an Darmstadt

Length: 5 Kilometers , 229 Masts

Daily Average Traffic:

135.000 vehicles, from that **14.000 Trucks**

Federal Ministry Of Transport And Digital Infrastructure
supports project with 14.6 millions Euro



The future of transport logistics?



eCMR pilot in Germany



Adam-Transporte GmbH
Internationale Spedition –
Fahrzeugtransporte
Langemattstr. 41
77743 Neuried
[A]



August Wessels GmbH
Zum Kottland 8
46414 Rhede
[WE]



AUGUSTIN QUEHENBERGER GROUP
GMBH
Gewerbegebiet Nord 5
A 5204 Strasswalchen
[Q]



BLG AutoTransport GmbH & Co. KG
Grauwallring 2
27580 Bremerhaven
[BLG]



Kottmeyer GmbH & Co. KG
Internationale Spedition
Brückenstraße 9
32549 Bad Oeynhausen
[K]



L.I.T. Spedition GmbH
Otto-Hahn-Straße 18
26919 Brake
[L]



Leopold Michel GmbH
Spedition + Logistik
Mainfrankenpark 29
97337 Würzburg/Dettelbach
[M]



Logistik in XXL GmbH
Christian-Pommer-Straße 20
38112 Braunschweig
[XXL]



Nagel-Group
Corporate Headquarters
Friedrich-Menzefricke-Straße 6
33775 Versmold
[N]



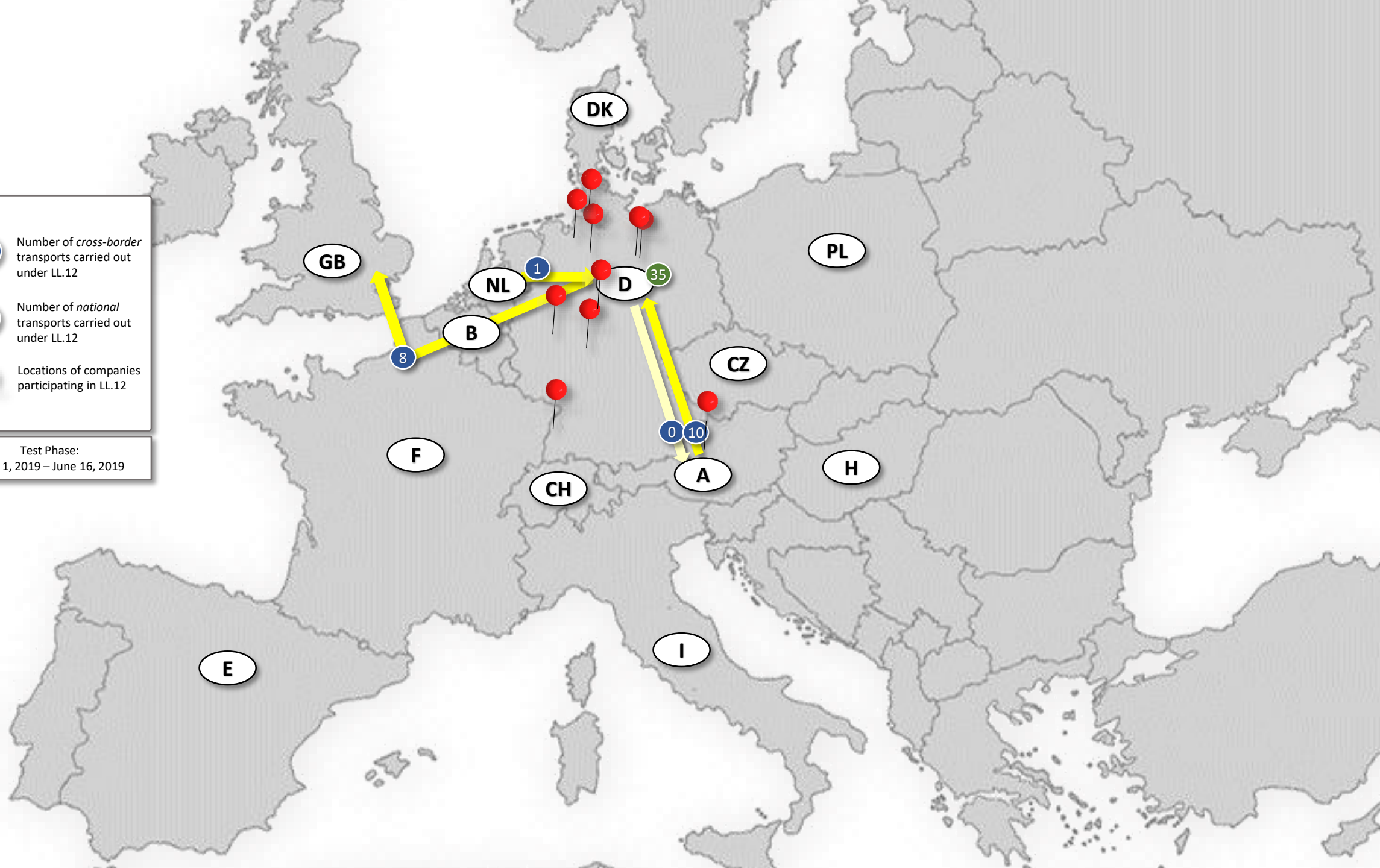
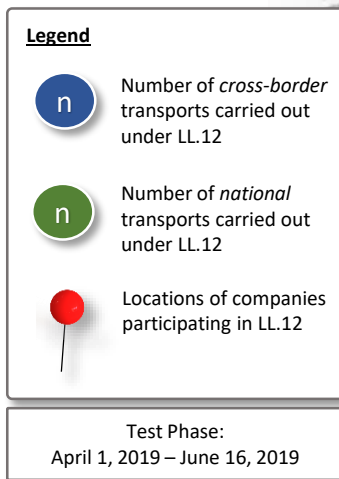
Schuldes Spedition GmbH
Sandwiesenstraße 22
64665 Alsbach-Hähnlein / Sandwiese
[S]

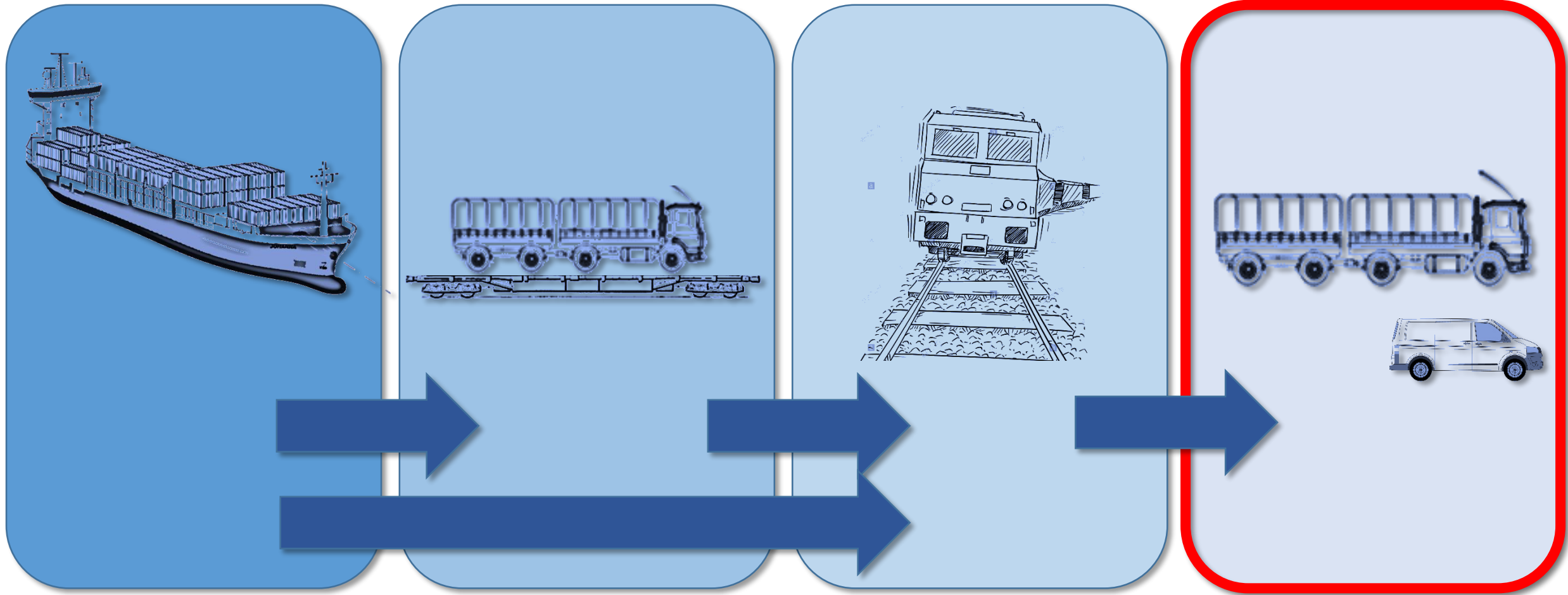


Wandt Spedition Transportberatung
GmbH
Hansestraße 47a/c
38112 Braunschweig
[WA]

The following items were transported

- Various **building materials** by means of special trucks including the use of tower cranes for the direct supply of large building sites (M) and also on pallets to the customer (WA)
- **Textiles and clothing** packed in pallets AT → DE (Q)
- **Hazardous goods** packed in pallets AT → DE (Q)
- **Food, alcohol and tobacco** packed in pallets; transport over the weekend, AT → DE (Q, national XXL)
- **Household appliances (White goods)**. Five day transport DE → NL → BE → FR → GB. Standard controls of the CMR at the EUROTUNNEL, no acceptance of the electronic version (K)
- **Household appliances** on pallets in cardboard packaging (WA)
- Packaged **animal feed** (XXL)
- **Rubber and plastic goods** NL → DE in tanker vehicle (XXL)
- **Paper and cardboard** on pallets (LIT)
- **Vehicles** (ADAM/BLG)
- **Trailers** (WA)
- **Radios and televisions (brown goods)** on pallets and in cardboard packaging (WA)
- **Vehicle parts** packaged in a special wooden crate (WA)
- **Axles and engines** on pallets (WA)





Consideration of all modes of transport necessary

A few critical comments

Since 2010

Germany has experiences with Digital verification of Transport of Dangerous Waste in Germany.

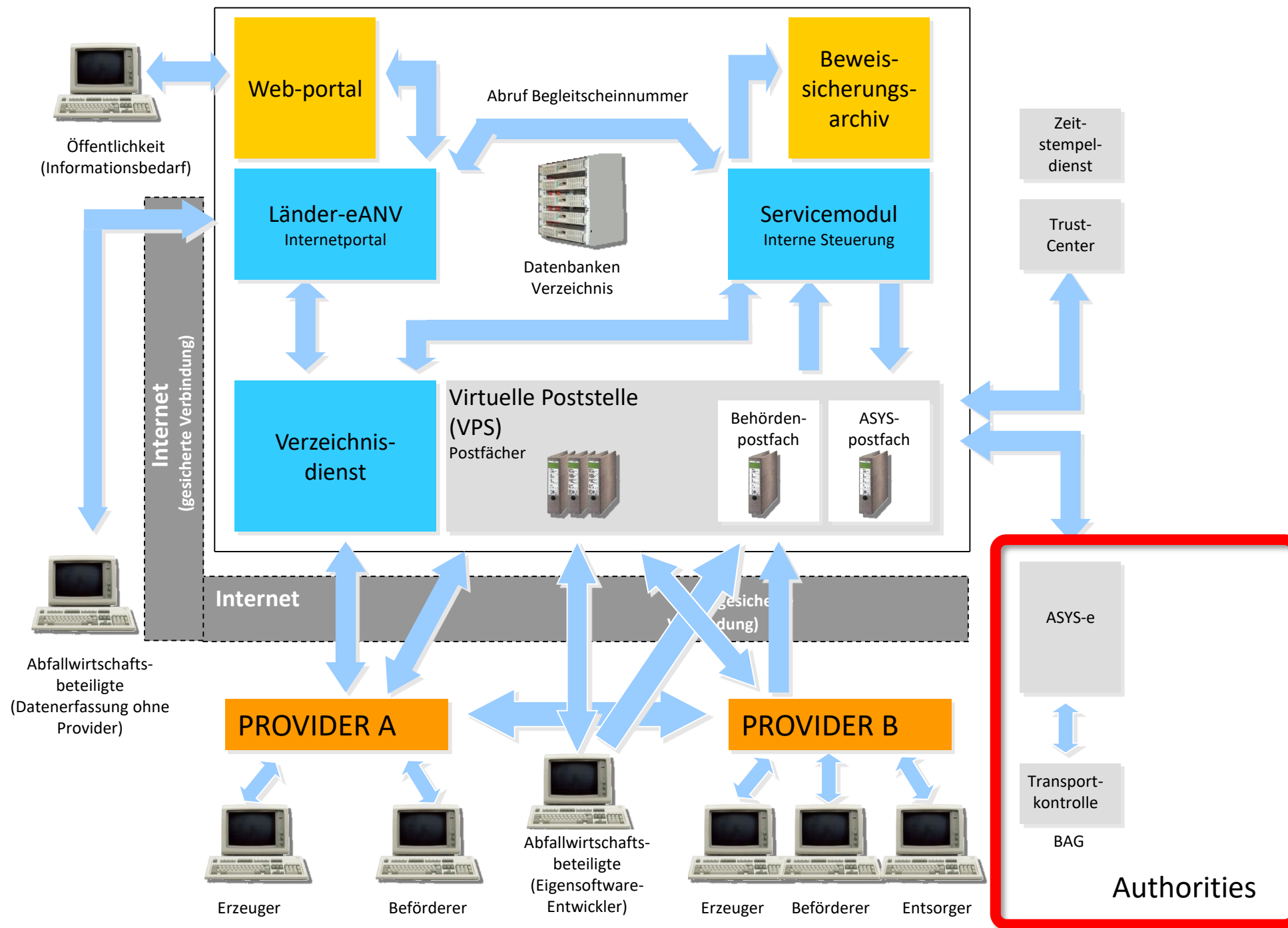
Use of reliable applications

A few critical comments



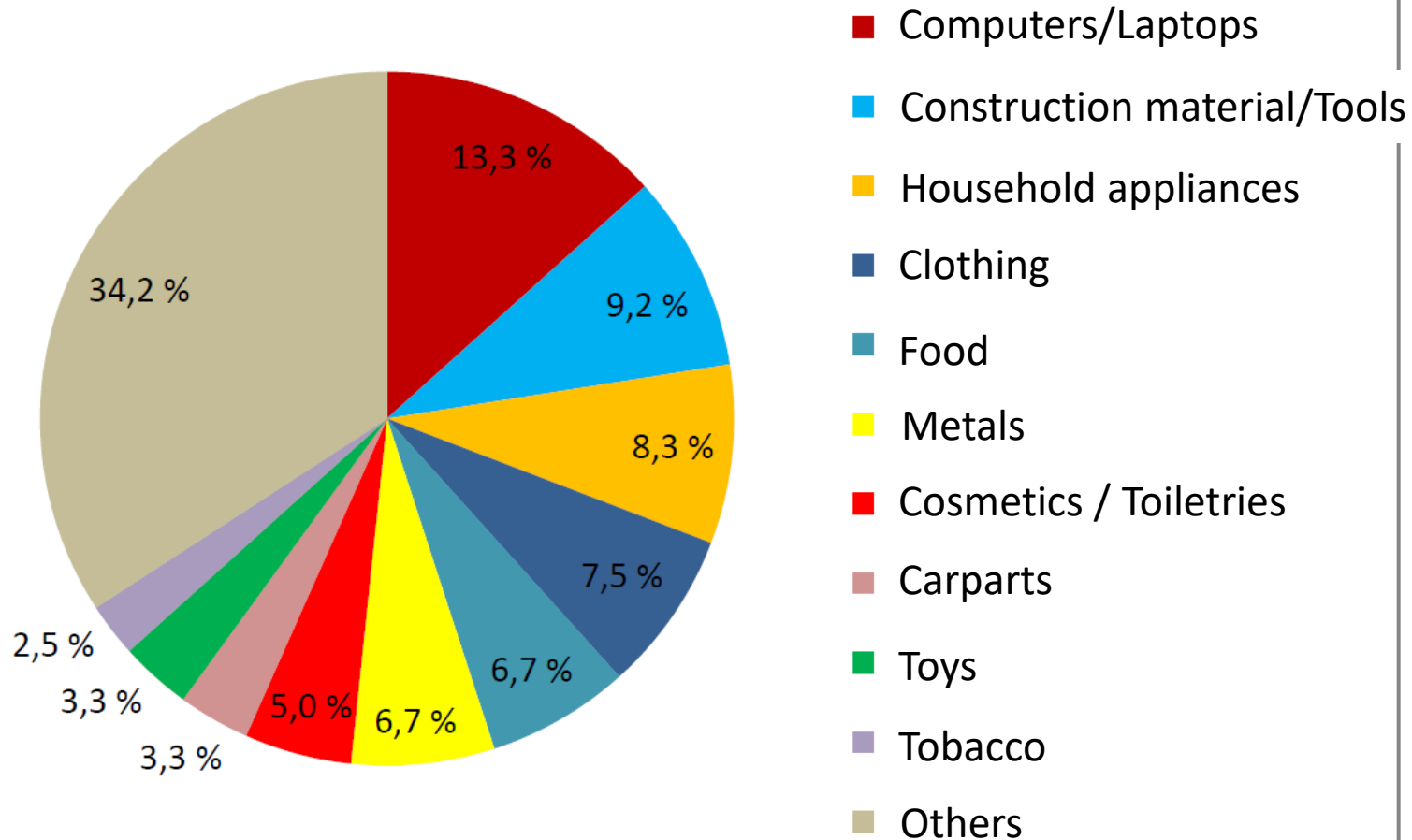
Use of
qualified electronic signature
required

highest signature standard ever
proven since 2010



The
German
model of
waste
monitoring

A few critical comments



Quelle: TAPA 2015 IIS Annual Report. Eigene Darstellung.

Severe fraud, theft and embezzlement offences repeatedly arise both in the area of cross-border and also the national transportation of goods.

The total loss caused by theft and the embezzlement of loads and load carriers amounted to approx.





1.5 billion € and

8.2 billion €

[2004]

A few critical comments

signature options	annotation	
No signing	No proof of delivery	
Sign-On-Glass (SOG)	No proof of authenticity of the signer. Everyone can sign.	
QR-Code	Proof by means of a QR code. Classified as "advanced electronic signature"	

Qualified electronic
signature

Currently the highest standard



interested parties

Which stakeholders
might be interested
in eCMR?

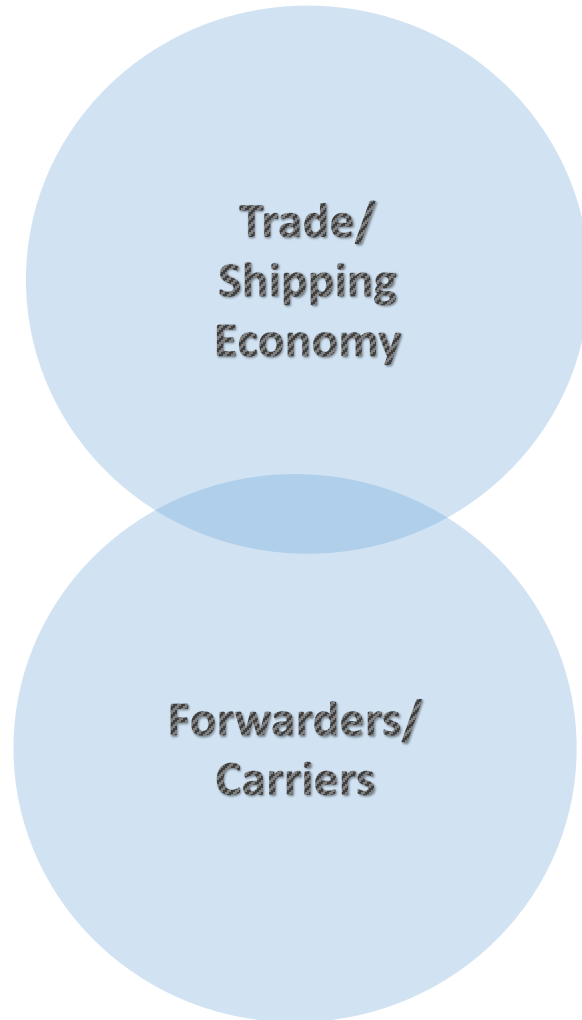
interested parties

Trade/
Shipping
Economy

Trade / Shipping Economy

- Gain in security through clear identification of the participants
- Simplification in the document run
- Highest evidence in court when using qeS

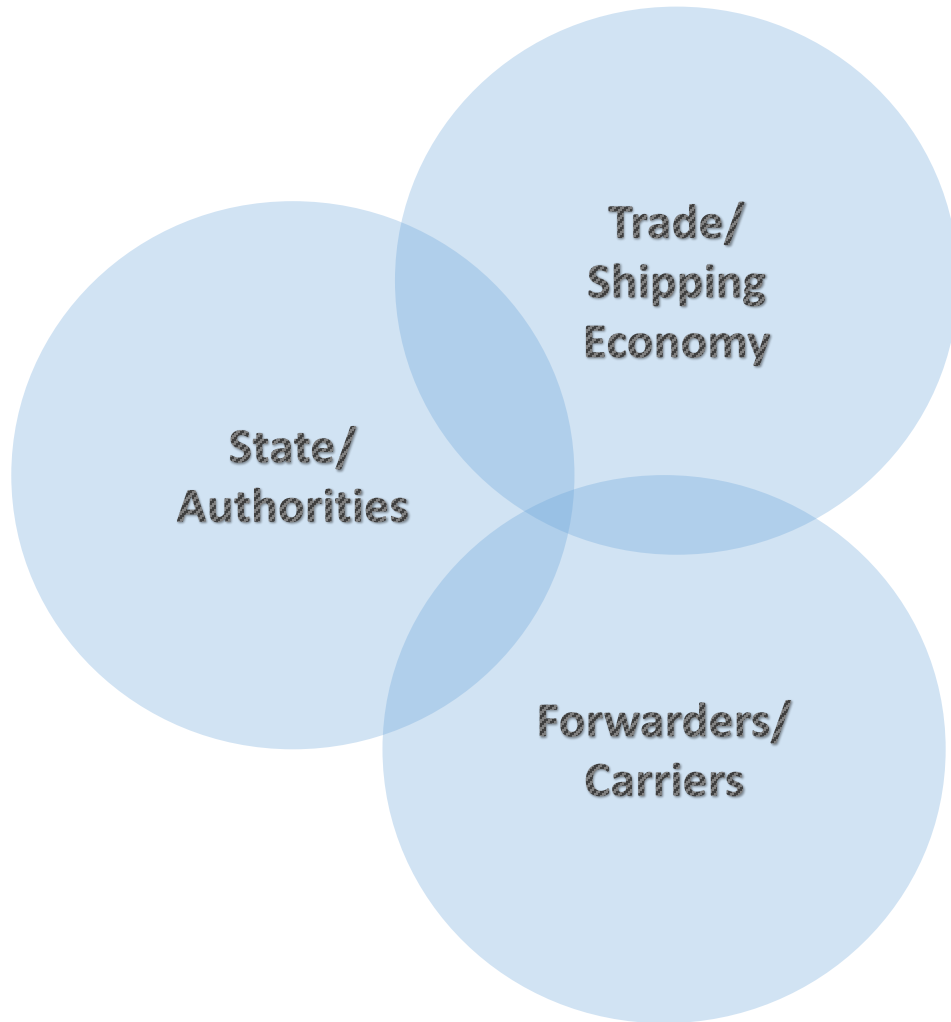
interested parties



Forwarders/Carriers

- Gain in security through clear identification of the participants
- Safety gain through clear identification of all carriers (sub-contractors)
- Fast documentation and preservation of evidence in case of damage to the cargo
- Simplification in the document run

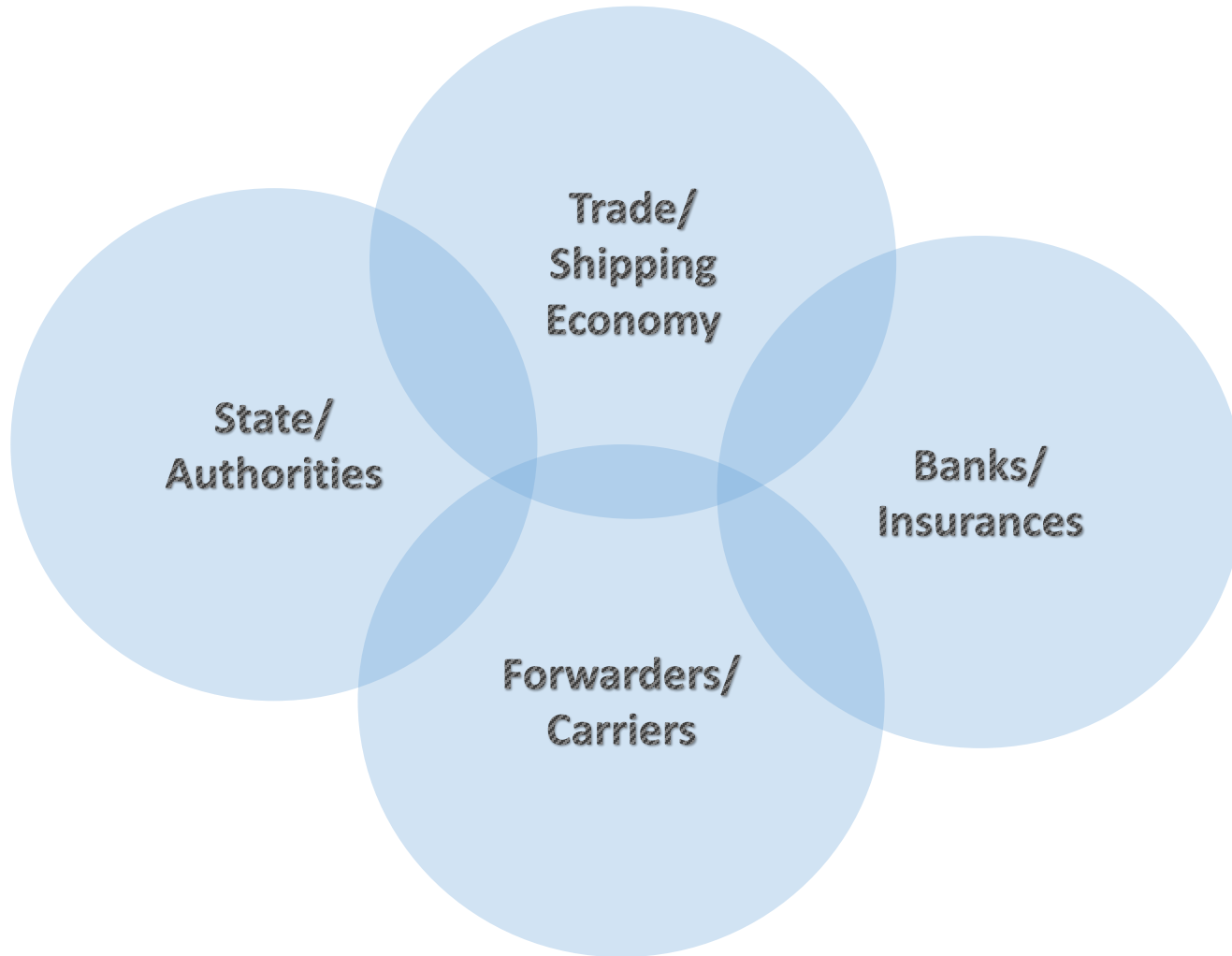
interested parties



State/Authorities

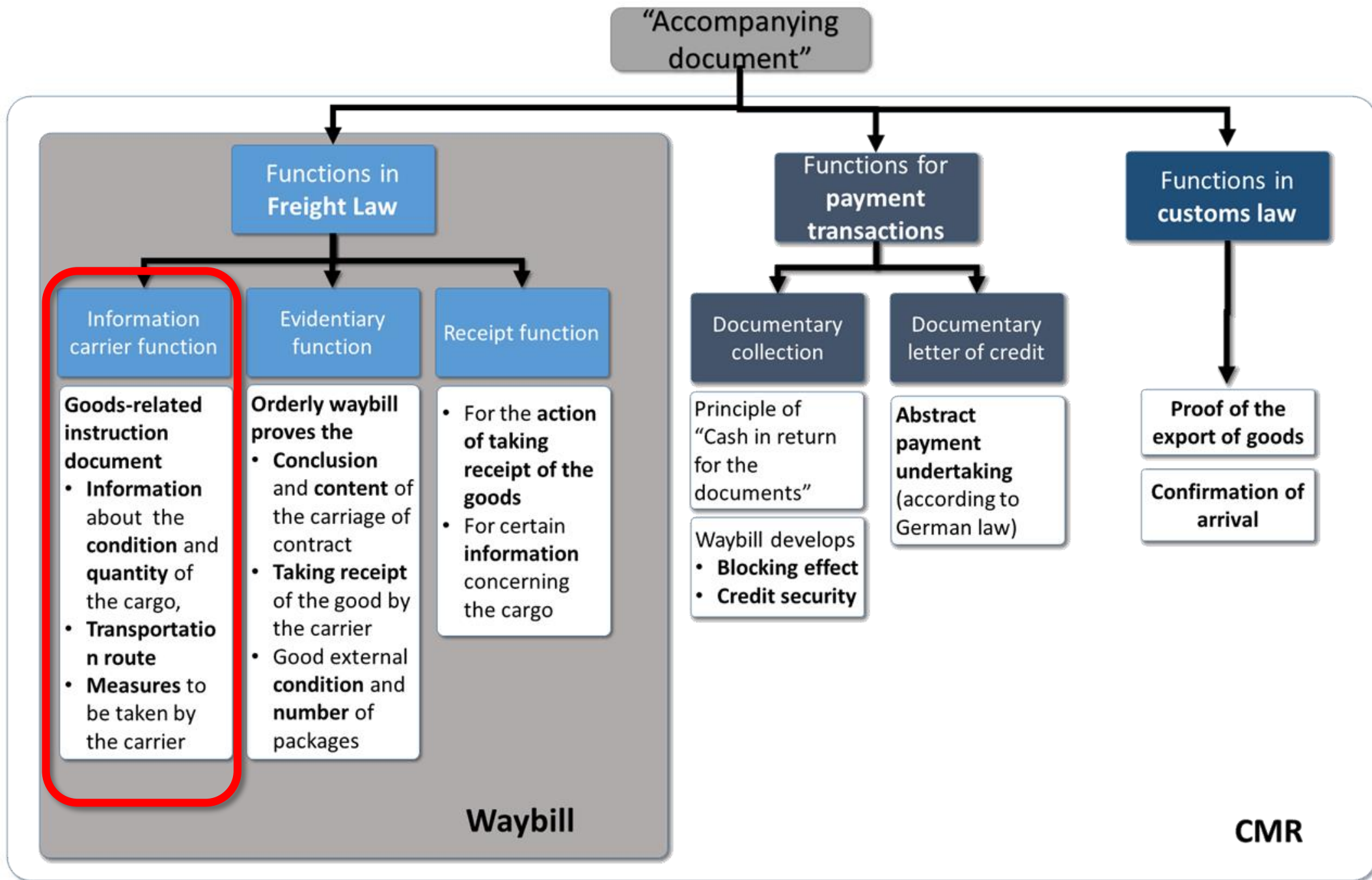
- CMR is a customs document: proof of actual export and domestic delivery ("Customs Entry Certificate")
- Halting the practice of illegal VAT refunds

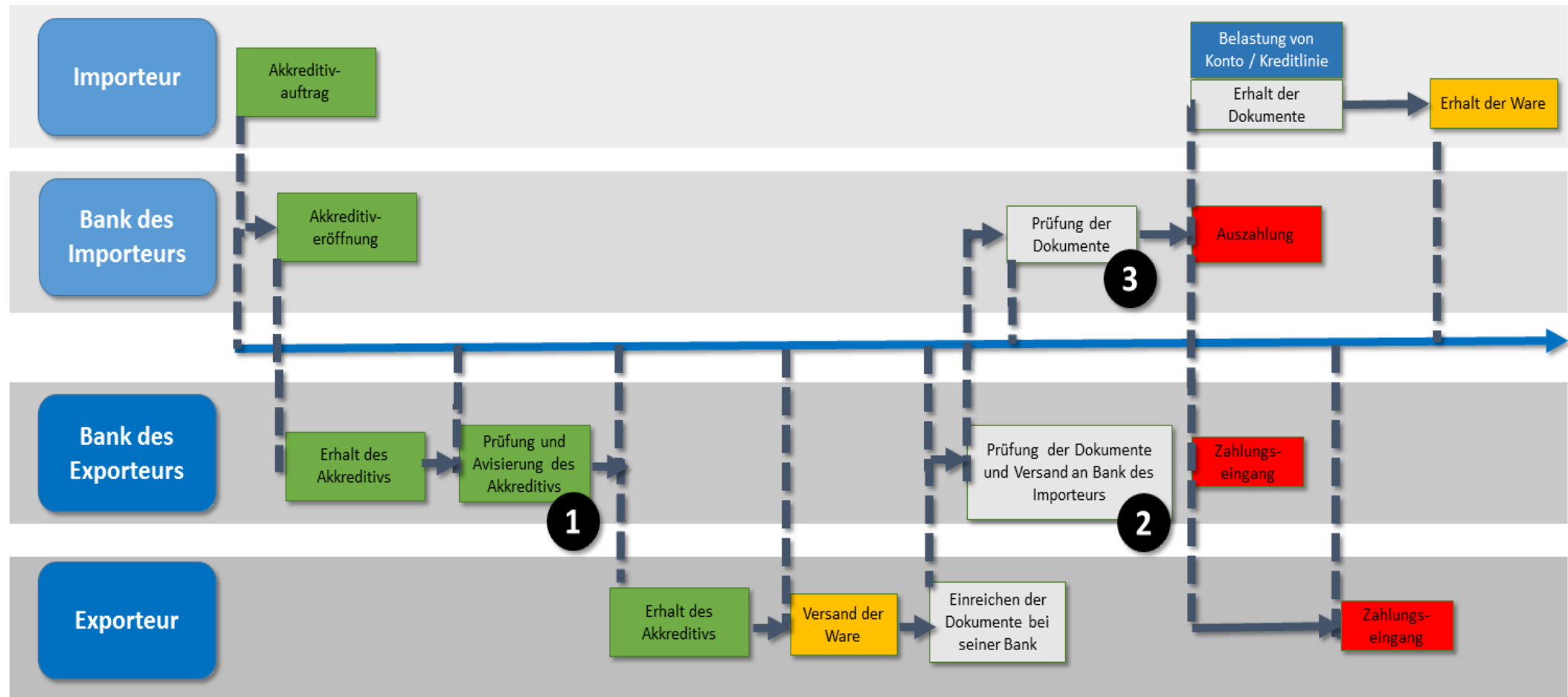
interested parties



Banks/Insurances

- Use as a documentary letter of credit
- Effective protection against fake documentary credits
- Gain in security through clear identification of the participants
- Simplification in the document run
- Highest evidence in court when using qeS





Questions (still) to be answered....

....interoperability of all modes of transport ?

....stability of system ?

....which quality of signature ?

....how to motivate consignee ?

....how to motivate and to train drivers ?

....how to integrate into
Transport Management Software ?

....who has access to the data ?

Additional Applications

YouTube ^{DE} Suchen



Klaus Ehrmann
Deutscher Feuerwehrverband

3:58 / 8:23

AEOLIX und die automatisierte Notfallmeldung bei
Gefahrguttransporten deutsche Fassung

Bundesverband Güterkraftverkehr Logistik und Ents...

BGL Abonnieren 136

The image shows a YouTube video player interface. At the top is the YouTube logo with a 'DE' superscript and a search bar containing the word 'Suchen'. The video frame shows a man in a dark blue uniform with a yellow shirt and tie, identified as Klaus Ehrmann from the Deutscher Feuerwehrverband. He is standing in front of a red fire truck with 'FEUERWEHR BICKERSHEIM' and the number '112' visible. A large pause button is overlaid on the video. Below the video frame, the title 'AEOLIX und die automatisierte Notfallmeldung bei Gefahrguttransporten deutsche Fassung' is displayed, followed by the channel name 'Bundesverband Güterkraftverkehr Logistik und Ents...' and the BGL logo. At the bottom right, there is a red 'Abonnieren' button and a subscriber count of '136'.

Additional Applications



Accident with
Dangerous Goods Loading

Additional Applications



Lack of
Information



Accident with
Dangerous Goods Loading



**Information of the
control center**
No or little
information



***Deduction of
eligible and
required
measures of
rescue teams***



1 Squad Volunteer Fire Department



Leitstelle
Coordination
centre

Information of the
control center
No or little
information

... Is qualified personnel with
specialized equipment and
protective equipment needed?



*Deduction of
eligible and
required
measures of
rescue teams*



1 Squad Volunteer Fire Department



**Information of the
control center**
No or little
information

... Is qualified personnel with
**specialized equipment and
protective equipment** needed?
... are **Rescue Services** needed?



*Deduction of
eligible and
required
measures of
rescue teams*



1 Squad Volunteer Fire Department



**Information of the
control center**
No or little
information

... Is qualified personnel with
specialized equipment and
protective equipment needed?

... are **Rescue Services** needed?

...danger to the **general
public** and **technical
assistance** is needed?



*Deduction of
eligible and
required
measures of
rescue teams*



1 Squad Volunteer Fire Department



Disponent
Transportfirma
Dispatcher transport
company







Accident with Dangerous Goods

Freight

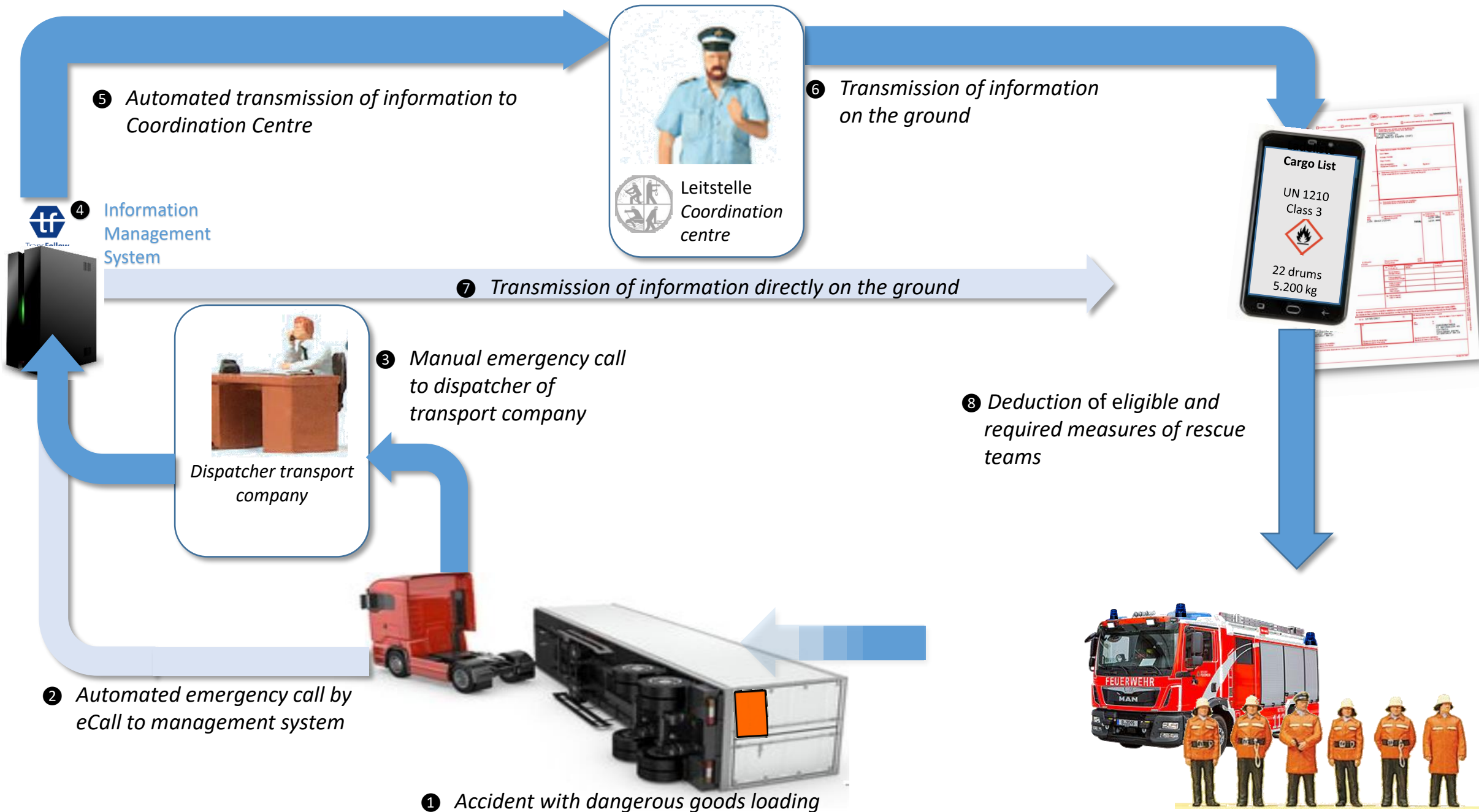
Tyres

Paints and varnishes



SULFURIC ACID
with more than
51% acid





Feuerwehrfilm	https://www.youtube.com/watch?v=7PRi7uX1dgA
Feuerwehrfilm (en)	https://www.youtube.com/watch?v=tgVit1QCYMs
LL12 Abschlussfilm	https://www.youtube.com/watch?v=ZOi0C7ADiyw&list=PL4LSYXNwsQOlz2mM2ZrkIFbp550Ywxwaz&index=5

Thank you for your attention!

