


e-TTN

PILOT PROJECT

 **МІНІСТЕРСТВО
ІНФРАСТРУКТУРИ УКРАЇНИ**



**Міністерство
цифрової трансформації
України**



**Institute
of Analysis
and Advocacy**



**Інститут
аналітики
та адвокації**

≡ **CONTENT**



e-TTN PROJECT



e-TTN SYSTEM



PRACTICAL USE



e-TTN PROJECT



e-TTN Pilot Project

The process of developing and implementing e-TTN with subsequent free transfer to the state of the functioning information system for registration and accounting of e-TTN by road transport in Ukraine

Potential effect



SAVING

740.9 MLN
UAH

annual savings
for business

costs for printing and
sending paper form of
consignment notes (TTN)



SPEED

UP TO **90%**

of time
reduction
for document
delivery



ECOLOGY

5,745

trees
preserved
every year

Project Stakeholders



POWER

The Ministry of Infrastructure of Ukraine

the initiator of the e-TTN reform in Ukraine and further Recipient of the system

The Ministry of Digital Transformation of Ukraine

technical and regulatory support in the implementation of the e-TTN experimental project

State-owned Enterprise "Industrial Center of Digitalization and Cybersecurity"

technical administrator of the e-TTN system (after implementation of the pilot project)

The State Service of Ukraine for Transport Safety (Ukrtransbezpeka, SSTs)

verification of documents for cargo transportation



creation of equal conditions on the market for the e-TTN operation



BUSINESS

EDMS providers

which provide users with registration and use of services of the electronic document management system

Participating Companies in freight transportation

end users of e-TTN: Consignors, Carriers, Consignees

Business associations and others



joining to the document management reform and its development



NGO

Non-governmental organization "Institute of Analysis and Advocacy"

creation, testing and administration with the involvement of specialists of the central database (CDB) of the e-TTN system for the period of the experimental project with further transfer to the state



creation and administration of the e-TTN implementation process



DONOR

USAID/UK aid project

"Transparency and Accountability in Public Administration and Services/TAPAS"



funding

Regulatory framework



Order of the Ministry of Infrastructure of Ukraine dated 3 June, 2019 No. 413 "On the approval of Amendments to the Rules of the cargo transportation by road transport in Ukraine»

- Introduction of e-TTN concept
- Definition of registration rules and usage of e-TTN



Decree of the President of Ukraine dated November 8, 2019 №837/2019 "On urgent measures of implement reforms and strengthen the state"

- e-TTN implementation is classified to urgent measures
- adoption of the necessary regulatory framework for the start of the e-TTN experimental project



Order of the Cabinet of Ministers of Ukraine dated December 27, 2019 №1392-r "On realization of experimental project on implementation of electronic workflow of e-TTN»

- launch of an experimental project on the implementation of e-TTN in Ukraine
- implementation in experimental mode e-TTN
- appointment of the NGO "Institute of Analytics and Advocacy" as the administrator of the electronic system for the period of the experimental project



Order of the Ministry of Infrastructure of Ukraine dated May 7, 2020. No. 301 "On the approval of the Procedure for the realization of the experimental project on the implementation of electronic workflow of the e-TTN»





- establishment of the implementation procedure and conditions for the functioning of the electronic workflow and registration of e-TTN in the e-TTN electronic workflow system and regulation of relations arising during the implementation of the experimental project



The Law of Ukraine "On Amendments to Certain Laws of Ukraine Regarding Certain Issues of Implementation of Dimension and Weight Control" dated June 3, 2021

- the concept of the TTN registry was introduced
- the list of mandatory TTN details was supplemented

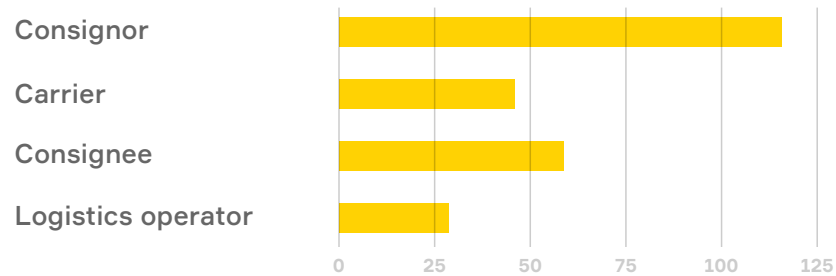
Project Stages

Stage I	Stage II	Stage III	Stage IV
 OCTOBER - DECEMBER 2019	 JANUARY - DECEMBER 2020	 OCTOBER 2020 - 3rd qr of 2021	 August 2021-end of 2022
<p>project team was formed</p> <p>↓</p> <p>prototype of the e-TTN document was developed based on the TTN form for the movement of alcoholic beverages and alcohol</p> <p>↓</p> <p>the possibility of adding related documents in PDF format was implemented</p> <p>↓</p> <p>the MVP version of the State Service of Ukraine for Transport Safety (Ukrtransbezpeka) inspector's account was developed</p>	<p>the procedure for the implementation of the e-TTN experimental project has been approved</p> <p>↓</p> <p>possibility to add additional information to e-TTN form at various stages of transportation was implemented</p> <p>↓</p> <p>possibility to add corrective documents (acts) to e-TTN in PDF format was provided</p> <p>↓</p> <p>interoperability between providers and CDB was implemented</p> <p>↓</p> <p>new configuration of vehicles was realized</p> <p>↓</p> <p>e-TTN testing: CDB - Providers - Business</p>	<p>expansion of user roles and system functionality</p> <p>↓</p> <p>adding corrective documents (acts) to e-TTN in XML format</p> <p>↓</p> <p>extension of e-TTN statuses for more flexible use by transport process participants</p> <p>↓</p> <p>providing access to e-TTN to third parties to perform their functions - port operators, customs services, etc.</p> <p>↓</p> <p>formation of requirements for finalization the inspector's account</p> <p>↓</p> <p>analytical work on specialized forms of TTN</p> <p>↓</p> <p>preparation of recommendations on amendments to the regulatory acts related to e-TTN</p>	<p>formalization of technical requirements for the development of the "Electronic workflow of e-TTN" system</p> <p>↓</p> <p>writing and approval of terms of reference (ToR) for development</p> <p>↓</p> <p>development of the central component of the e-TTN System and API</p> <p>↓</p> <p>formation of the XML/XSD specifications for documents in the e-TTN system according to the UN/CEFACT standard</p> <p>↓</p> <p>development of the component of the inspector's account</p> <p>↓</p> <p>development of automatic testing system</p> <p>↓</p> <p>EDMS providers accreditation</p> <p>↓</p> <p>start of test mode of the e-TTN System</p>

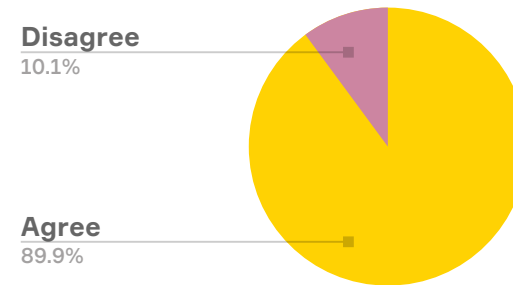
Project Status

In June 2022, the Ministry of Infrastructure of Ukraine conducted a survey of companies in which 160 companies participated. They answered the most important questions related to the readiness of the business to test the e-TTN system

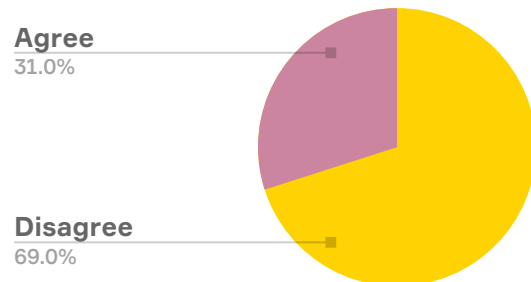
Segmentation of participants among respondents



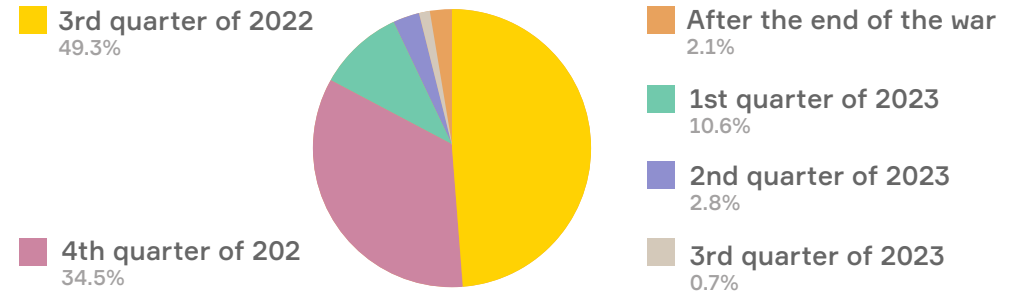
Willingness of the business to join the testing of the e-TTN system



Determination of the EDI Provider to use the e-TTN system



The period when participants of transportation are ready to participate in the testing of the e-TTN System





EDMS providers

who joined the project:

COMARCH

inn.logist

BPM QUANTUM

zozengo

DOCUMENT ONLINE

DOC.Smart-Era
ЕЛЕКТРОННИЙ ДОКУМЕНТОБІГ

Вчасно

eUgoda

ПТАХ

SOVTES

>deals

EDIN

Signy

Арт-3bit
e-TTH

PPL
e-TTH

AGRICHAIN
НОВЕ ПОКОЛІННЯ ІТ-РІШЕНЬ
ДЛЯ АГРОБІЗНЕСУ



Future plans

1

Gradual transition to e-TTN with rejection of paper forms

2

Transition to an electronic form of specialized TTN forms

3

Solving the issue of groupage transportation as a part of the e-TTN system

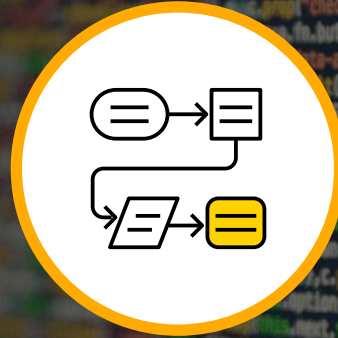
4

Joining the project on the implementation of e-CMR within the Eastern Partnership countries

5

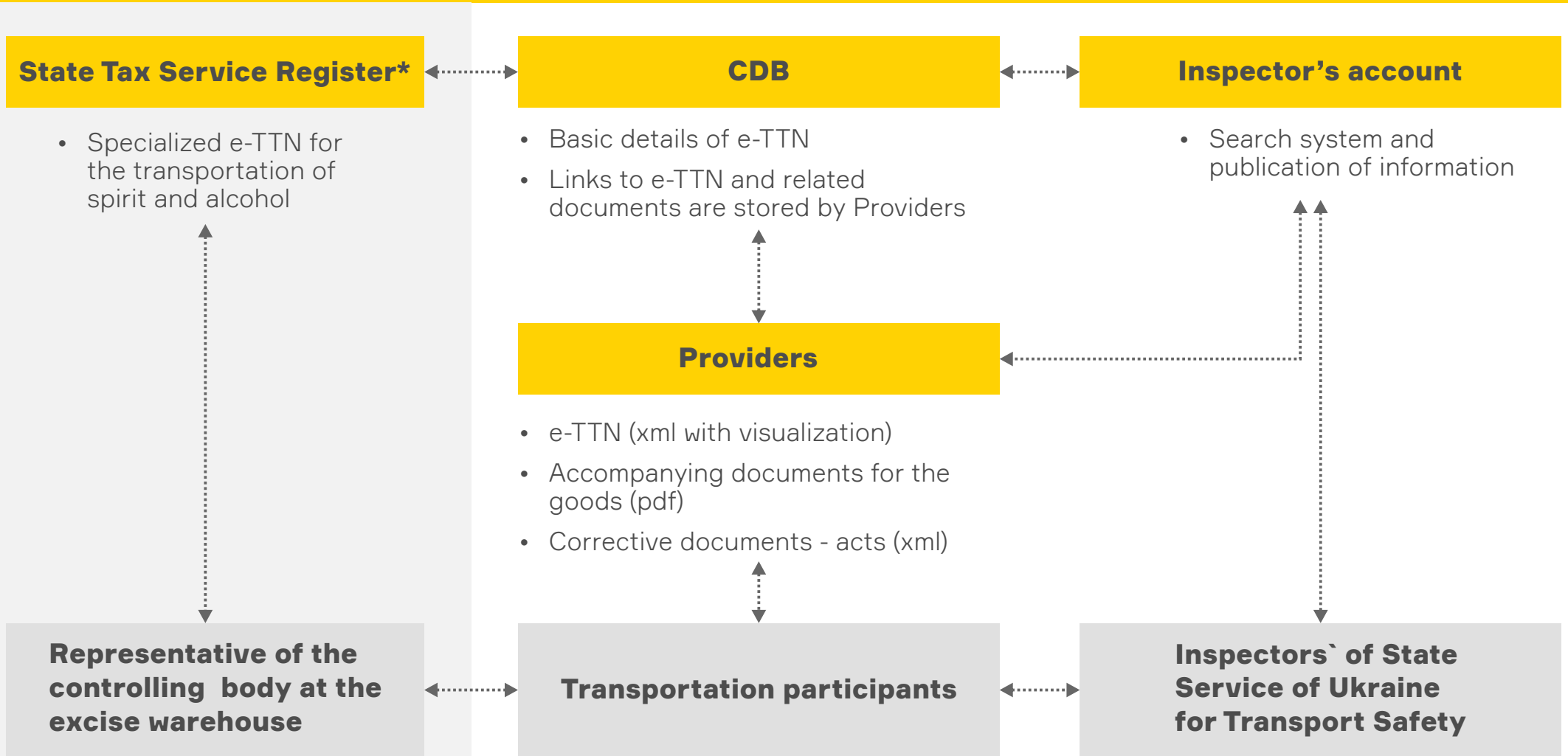
Multimodal transportation (e-TTN as a basis for digitalization of domestic multimodal transportation)





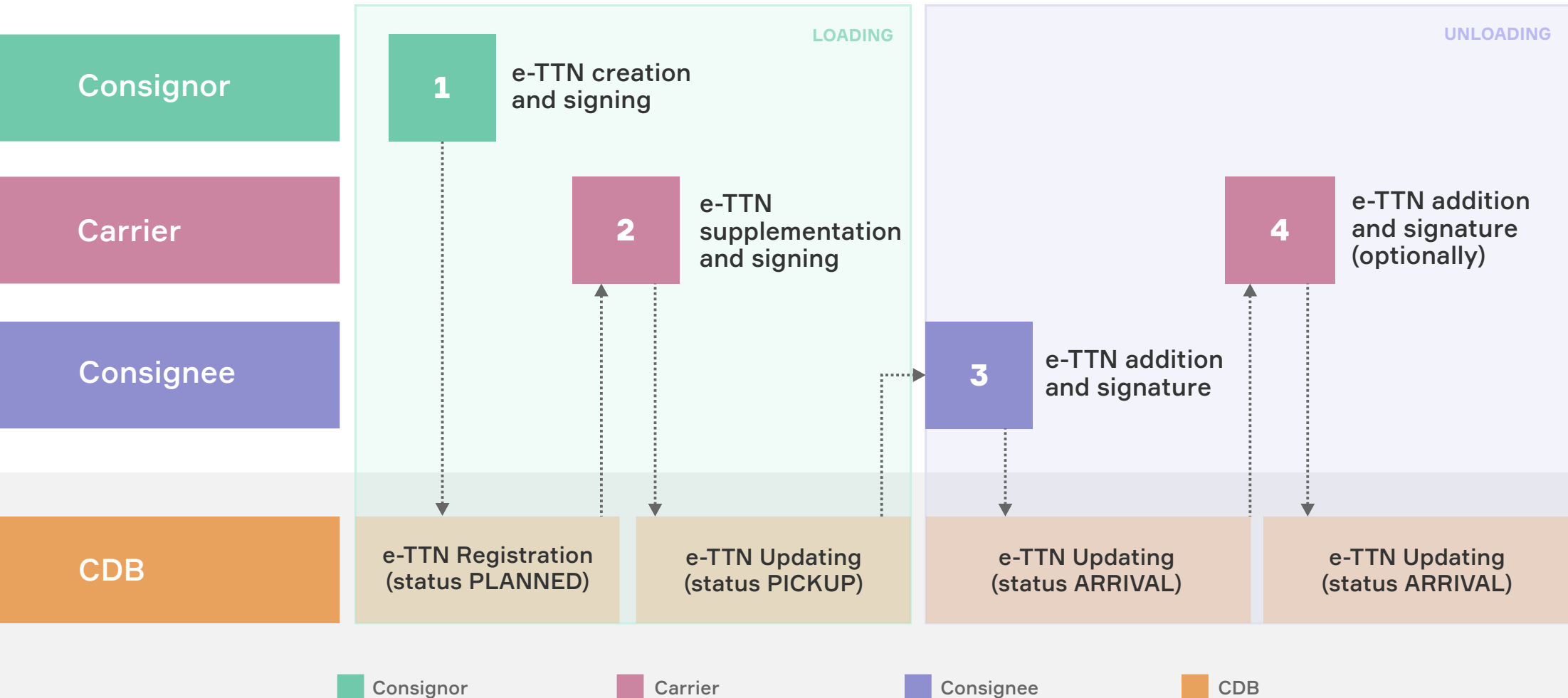
e-TTN SYSTEM

Components of the e-TTN system

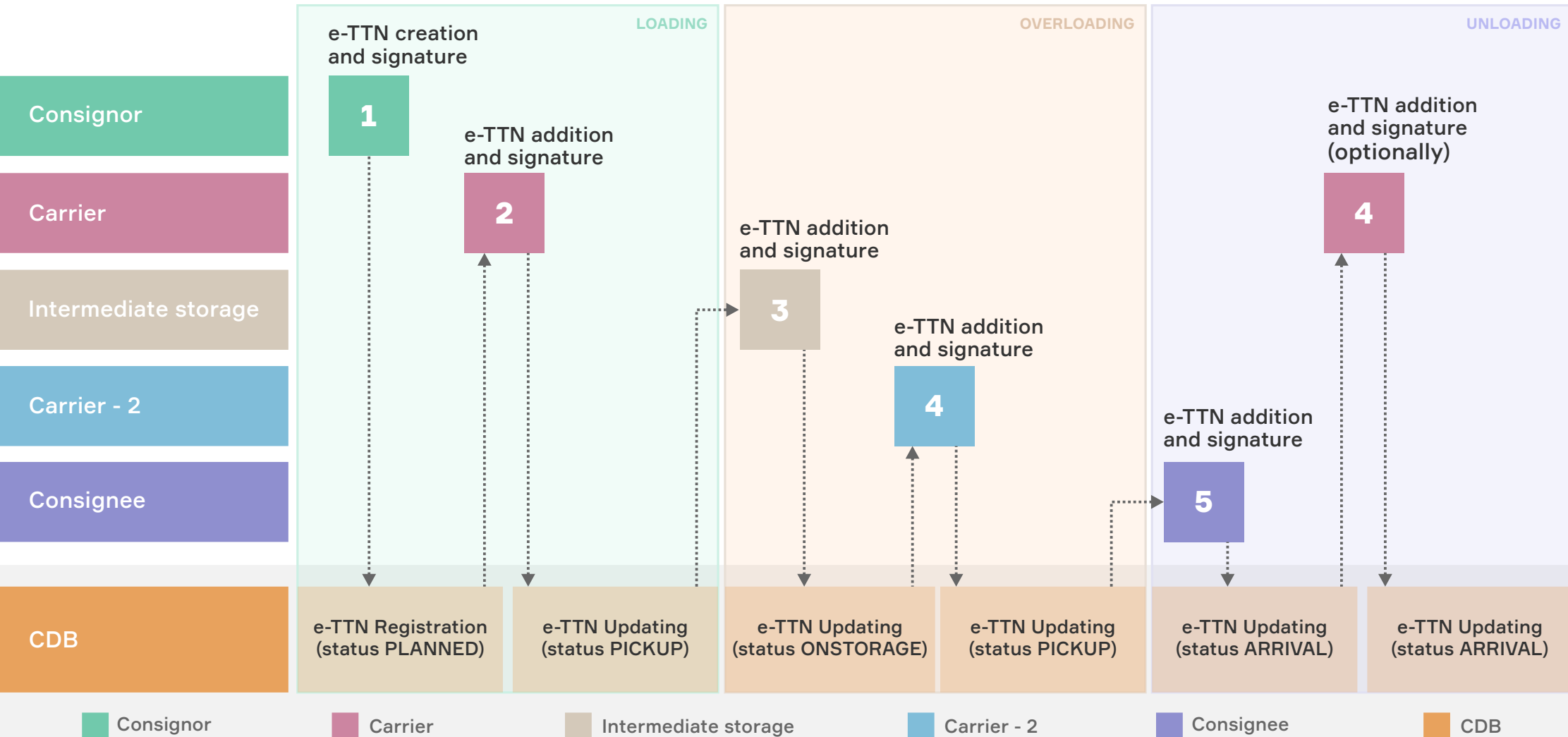


*The single registry of TTN for the transportation of alcoholic beverages

e-TTN lifecycle



e-TTN Lifecycle with intermediate storage





Roles of e-TTN participants

✓ MAIN

- Customer
 - Consignor
 - Carrier
 - Consignee
-

Constant participation in transportation with the right to sign documents

+ ADDITIONAL

- Freight forwarder
 - Intermediate storage
-

Ability to participate in transportation with the right to sign documents

⋮ OTHERS

- Third parties
-

Ability to participate in transportation with the right to view documents

Acts to e-TTN



The introduction of electronic TTN, on the one hand, simplifies the process of document workflow, on the other - imposes restrictions on making changes to the signed document

For this purpose it is proposed to use adjustment acts amending e-TTN

Act on refusal to load

Adjustment Act

Reload Act

Resealing Act

Storage Delivery Act and Storage PickUp Act

Consignee Change Act

Cargo Disagreement Act

eTT forced completion/Stop Act



PRACTICAL APPLICATION

1. Simple scenario



The vehicle carries out transportation from point A to point B, one cargo - one e-TTN



- The Consignor creates and signs e-TTN
- The Carrier (driver) signs the e-TTN at the loading point
- The Consignee enters information into e-TTN at the unloading point and signs the document
- The Carrier (driver) can optionally put his signature

2. Replacement of Carrier (car, driver)

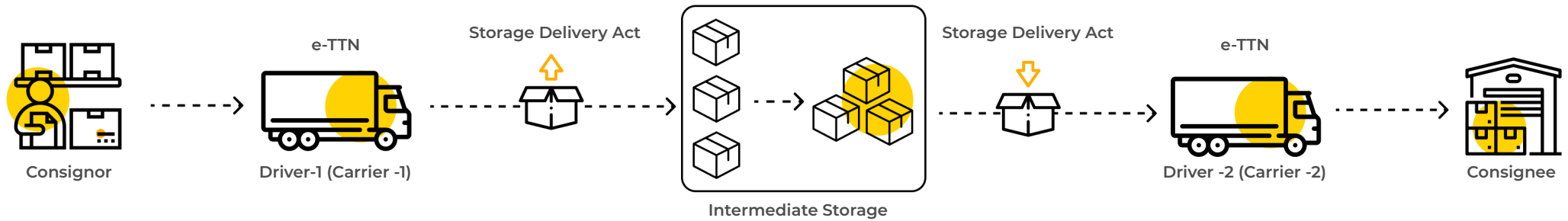


The Carrier, delivering the cargo on the route, carries out a complete overloading of the cargo to another vehicle



- Between the Carrier-1 and the Carrier-2, **Reload Act** is concluded, which is signed by both parties
- According to the Act, changes are made to e-TTN regarding the new Carrier (car and driver)
- At the unloading point, the e-TTN is signed by the Consignee and, optionally, by driver-2

3. Overloading at an intermediate storage with car replacement



The driver carries out transportation from point A to point B, but on the way unloads at the Intermediate Storage . Driver-2 picks up the cargo from the warehouse and delivers it to point B



- During the unloading of the cargo at the Intermediate storage, **Storage Delivery Act** is created, which is signed by the driver-1 and the responsible person of the warehouse that accepts the cargo for temporary storage
- During the loading of cargo on car-2, **Storage Pickup Act** is drawn up, which is signed by the responsible person of the storage and the driver-2
- Corresponding changes are made to the e-TTN after the successful signing of each Act

4. Replacement of the Consignee

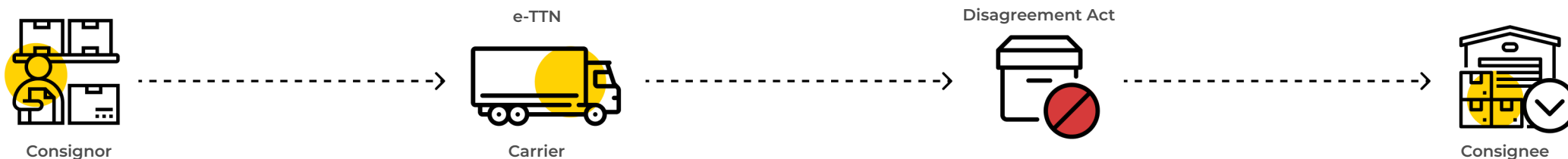


The consignee cannot or refuses to accept the cargo



- The **Consignee Change Act** is drawn up by the Consignee who refuses to accept the cargo. In case of unwillingness to draw up the Act by the Consignee, the Act can be drawn up by any other e-TTN participant (Carrier, Consignor or Customer) who initiates forwarding of cargo
- The Act is considered successfully signed when it has the signatures of the Carrier and the Customer. Changes regarding the new Consignee are made to e-TTN
- The driver changes the route and delivers the cargo to a new unloading point - to Consignee-2

5. Inconsistencies during cargo acceptance

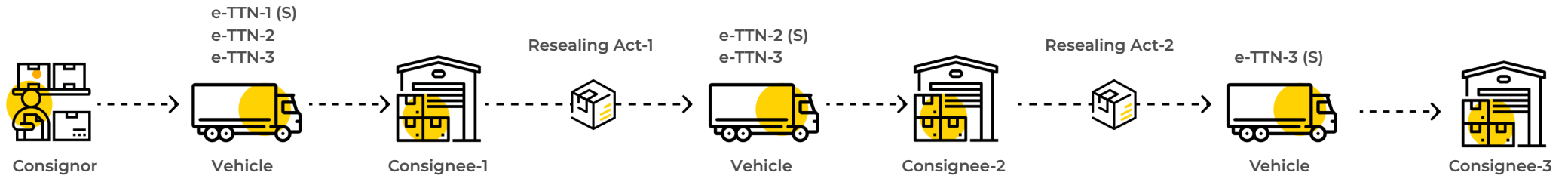


Inconsistencies were detected by the consignee when accepting the cargo (lack, deficiency, etc.)



- **Disagreement Act** is concluded and signed between the Consignee and Carrier, where all identified inconsistencies are noted. The Consignee enters information about the existing document into the e-TTN and puts his signature
- Alternative option. The consignee refuses to accept the cargo (rejects the signing of the e-TTN), then **Consignee Change Act** is created and the Carrier returns the cargo to the Consignor or delivers it to the new address specified in the act

6. Resealing



Supplier, retail network, that consists of 3 stores (Store-1, Store-2, Store-3), forms a TTN for each store and indicates as an unloading point the specific store.

All TTNs are transported by one car. The Consignor seals the car and indicates the seals in the TTN only for Store 1. Store 1 accepts the goods, chooses the next TTN for Store 2 and seals the car, specifying the data in the TTN for Store 2



- After unloading in Store-1 and removing the seal from the cargo according to e-TTN-1, **Resealing Act** to e-TTN-2 is created, in which the new seal is indicated
- Similar actions are performed after unloading in Store-2 - **Resealing Act** to e-TTN-3 is drawn up, in which the new seal is indicated

Thank You!



Website



Telegram