**Ineos Haulier Safety Event      21 November 2019**

**The digital EFTCO Cleaning Document or eECD**

**and future ECLIC USE CASES**
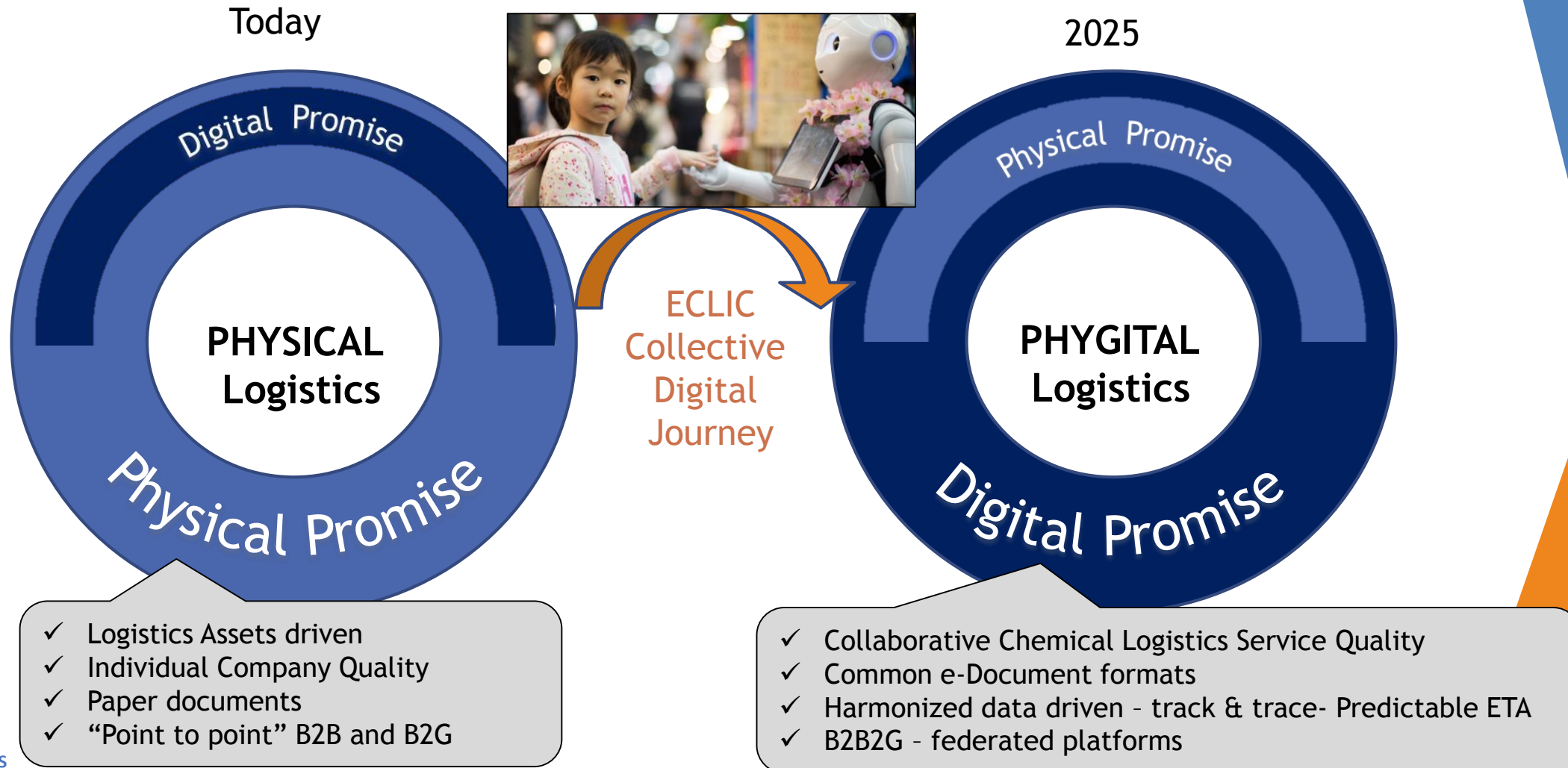
INEOS

Eclic
European Chemical Logistics
Information Council

19-2-2019

ECTA

essenscia

cefic

EFTCO

# Chemical logistics leaders in 2025:
## "Running our supply chain processes only on paper is like running blind"



The two biggest barriers to good decision making are your ego and your blind spots.

## The digital change happens today…!!

# "Chemical Supply Chains to become "**PHYGITAL**"
"**Phygital Chemical Logistics**" to meet new customer expectations



Today

### Digital Promise

**PHYSICAL Logistics**

### Physical Promise

ECLIC Collective Digital Journey

2025

### Physical Promise

**PHYGITAL Logistics**

### Digital Promise

- ✓ Logistics Assets driven
- ✓ Individual Company Quality
- ✓ Paper documents
- ✓ "Point to point" B2B and B2G

- ✓ Collaborative Chemical Logistics Service Quality
- ✓ Common e-Document formats
- ✓ Harmonized data driven – track & trace- Predictable ETA
- ✓ B2B2G – federated platforms

copyright

**Peter Devos Consult**

**Eclic**
European Chemical Logistics
Information Council

# What is an ECD?

ECD ="EFTCO Cleaning Document"
✓ is a support tank cleaning document on paper that contains data from different parties



**Cleaning**

unclean → Truck Arrives empty and uncleaned → Truck Cleaning with water, detergents, steam, etc. → Truck Exit cleaned → clean

**Unloading** Product

**3.000.000 ECD paper docs per year X 4-fold**

**Loading** Product

Chemical Customer ← unclean → Chemical Company

**Transport**

ECTA · essenscia · cefic · EFTCO
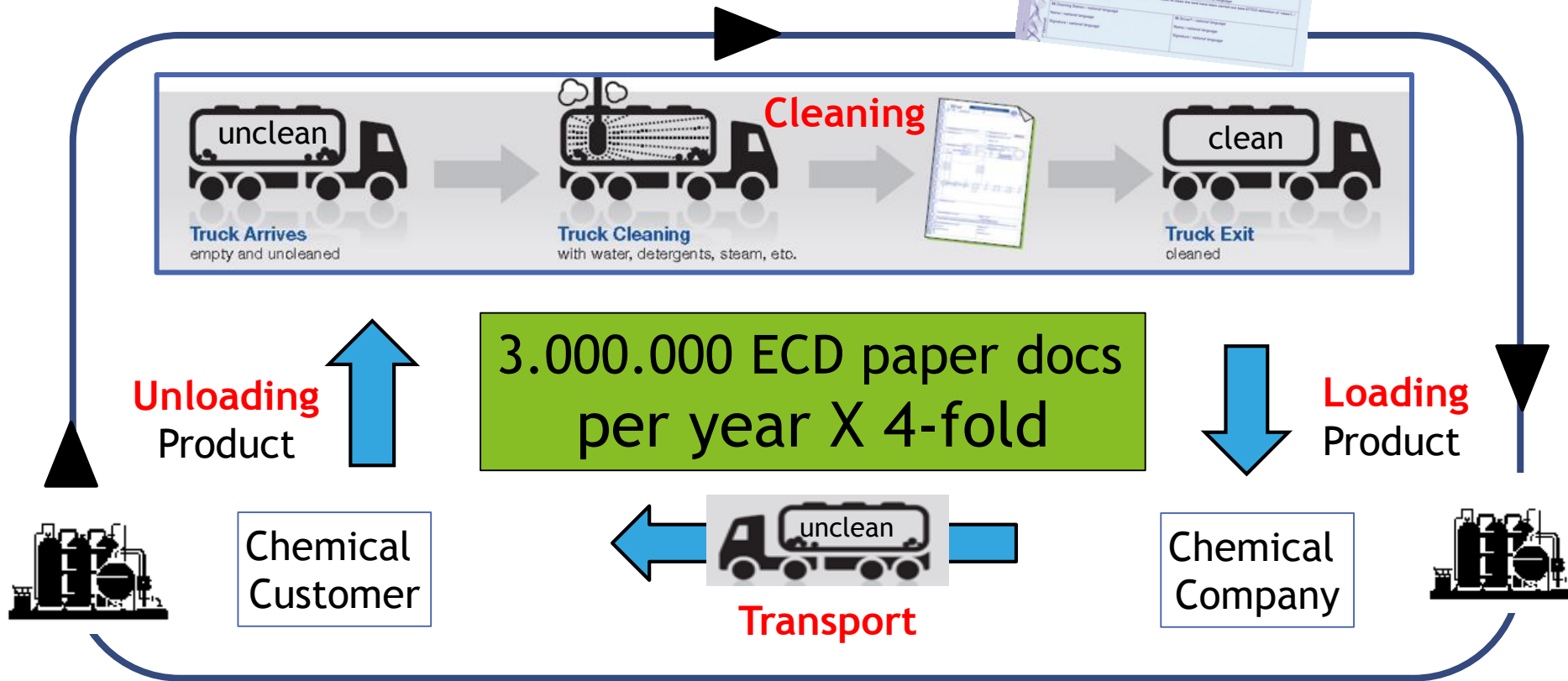
# Digitalization of EFTCO Cleaning Document (eECD)

**Eclic** — European Chemical Logistics Information Council

**Digital eECD** = [SPECIMEN document] + **Digital eECD Process** + **eECD Company Network**

*Collective Intelligence*
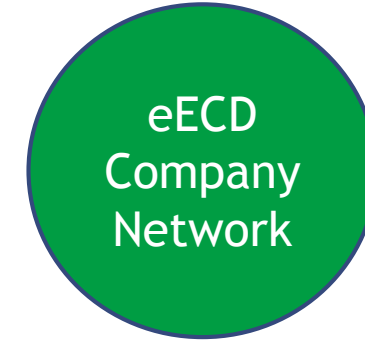
**eECD VALUE**

- Compliance Quality
- Safety Sustainability
- Efficiency Cost

✓ No loss of documents

✓ Reduced waiting times

✓ Paper flow automation

✓ Sustainable way of working

✓ Uniform Workflows

✓ Supply Chain Visibility

✓ Accurate data sharing

✓ Pro-active planning

✓ Seamless collaboration

✓ Enhanced compliance

✓ Trusted Governance

✓ Save Time & Money

ECTA · essenscia · cefic · EFTCO

# Due to lack of a better alternative, paper makes us blind...

▶ Paper does not anticipate

▶ Paper creates waiting times

▶ Paper prevents automation

▶ Paper is slow

▶ Paper is fraude sensitive

▶ Paper asks for more Paper

▶ Paper prevents future digital supply chain collaboration

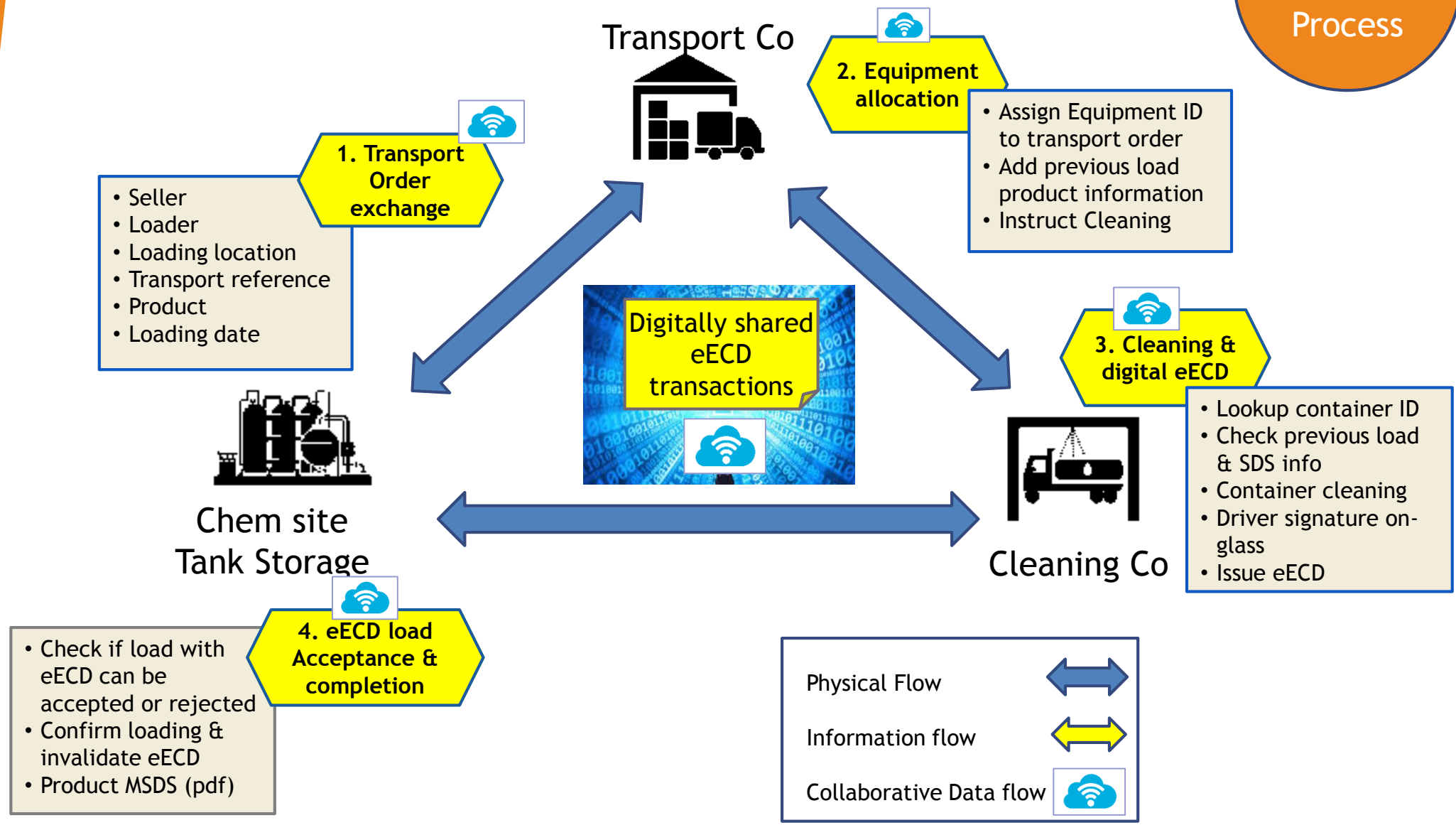...and keeps us blind, due to todays fragmented digital solutions...

# How does the eECD process work?

**Digital eECD Process**

Eclic — European Chemical Logistics Information Council

**Transport Co**

**1. Transport Order exchange**
- Seller
- Loader
- Loading location
- Transport reference
- Product
- Loading date

**2. Equipment allocation**
- Assign Equipment ID to transport order
- Add previous load product information
- Instruct Cleaning

**Digitally shared eECD transactions**

**3. Cleaning & digital eECD**
- Lookup container ID
- Check previous load & SDS info
- Container cleaning
- Driver signature on-glass
- Issue eECD

**Chem site Tank Storage**

**Cleaning Co**

**4. eECD load Acceptance & completion**
- Check if load with eECD can be accepted or rejected
- Confirm loading & invalidate eECD
- Product MSDS (pdf)

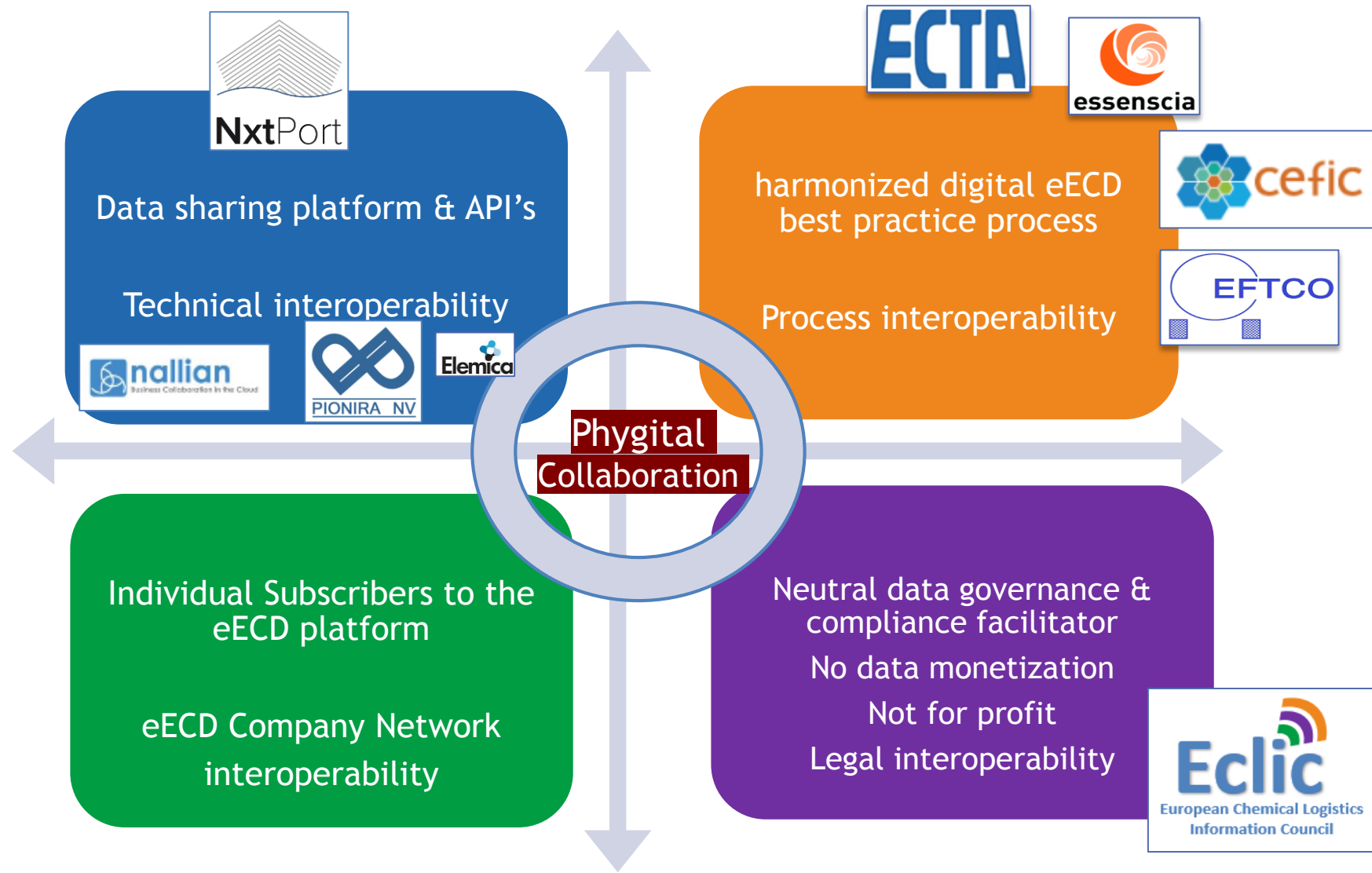| Legend | |
|---|---|
| Physical Flow | ⬌ |
| Information flow | ⬌ |
| Collaborative Data flow | ☁ |

# The digital eECD: BENEFITS

▶ Reduced waiting times – Automated administration

▶ Enhanced compliance thru correct "previous load" info

▶ Improved customer quality - reduce cross-contaminations

▶ Safety data accuracy - Direct access on SDS info from the source

▶ "Real time" tank cleaning status before GATE entry

▶ Harmonized data chain - Automated "polymer cleaning guideline"

**eECD ensures tankcontainers remain the safest and most cost effective way of transport**

Eclic
European Chemical Logistics
Information Council

# Logistics Data Sharing: eECD Ecosystem

**Phygital Collaboration**

**NxtPort**
Data sharing platform & API's

Technical interoperability

nallian — Business Collaboration in the Cloud
PIONIRA_NV
Elemica

**ECTA · essenscia · cefic · EFTCO**
harmonized digital eECD best practice process

Process interoperability

Individual Subscribers to the eECD platform

eECD Company Network interoperability

Neutral data governance & compliance facilitator
No data monetization
Not for profit
Legal interoperability

Eclic — European Chemical Logistics Information Council

# Key Pillars of Trust – Data Sharing = Data security

**NxtPort: Data custodian & platform**

Unlock your data - remain in control

Data security & ISO certifications

Ethical hacking

NxtPort PROTECTED

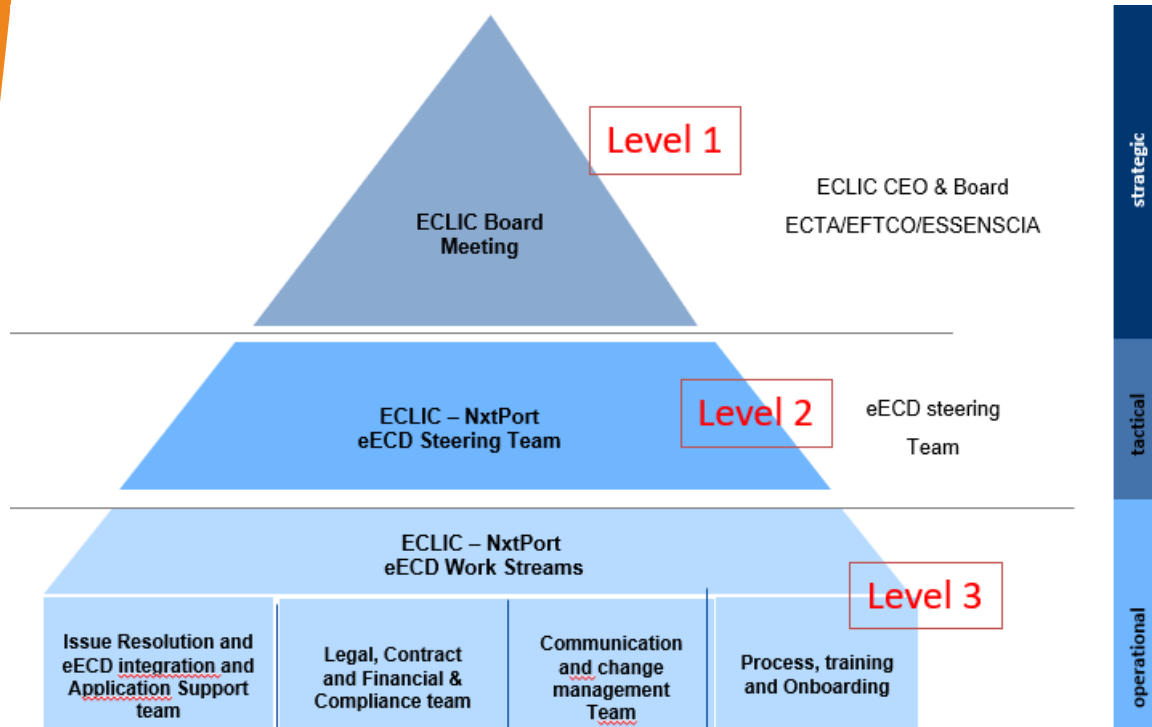leveraged CyberSecurity Network of experts

Data & IT cybersecurity audits

# Key Pillars of Trust – Governance & legal framework



## ECLIC Governance model – defines which data can be shared for each Use Case



Level 1 — ECLIC CEO & Board — ECTA/EFTCO/ESSENSCIA

ECLIC Board Meeting — strategic

Level 2 — eECD steering Team

ECLIC – NxtPort eECD Steering Team — tactical

Level 3

ECLIC – NxtPort eECD Work Streams — operational

- Issue Resolution and eECD integration and Application Support team
- Legal, Contract and Financial & Compliance team
- Communication and change management Team
- Process, training and Onboarding

## ECLIC Legal Framework – Harmonized legal framework for all companies

▶ eECD Subscriber Licence Agreement with NxtPort

▶ NxtPort General Terms & Conditions for ECLIC

▶ eECD API Specific User Terms – data sharing rules

▶ Support Service Level Agreement

| ECLIC-NxtPort Agreement | NxtPort-Subscriber Agreement and terms | Open book financials |

ECTA   essenscia   cefic   EFTCO

# How to connect with eECD application?

**Eclic**
European Chemical Logistics
Information Council

## Option 1
### Web application



Standalone GUI
eECD application

Double screen next to own
IT system requiring double
input

▶ Part of eECD licence

▶ Allows quick Start up

▶ API documentation

## Option 2
### outsourced



3rd party software suppliers

▶ Check with your IT cleaning vendor

▶ LynX-Lucrasoft + 2 German cleaning software vendors

▶ Costs with 3rd party vendor

## Option 3
### API Integration



API connection to the eECD *platform*

B2B Direct connection with your IT system to the eECD platform and/or integration within your own IT system.

▶ Own IT integration & costs

▶ Central IT Support package available (800€/mday)

Each company decides how to integrate at their own level, speed, cost & interests

# How to subscribe and get eECD connected?

**Eclic**
European Chemical Logistics Information Council
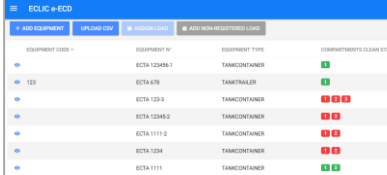
Gather info incl
eECD subscription form
*www.eclic.eu*

Create your
eECD admin account

**Login for eECD**
Welcome back. Login to your account below.

Email address

Password

Forgot your password?

Configure & prepare
your organization

3-6 weeks

Submit your eECD
registration form
*email: info@eclic.eu*
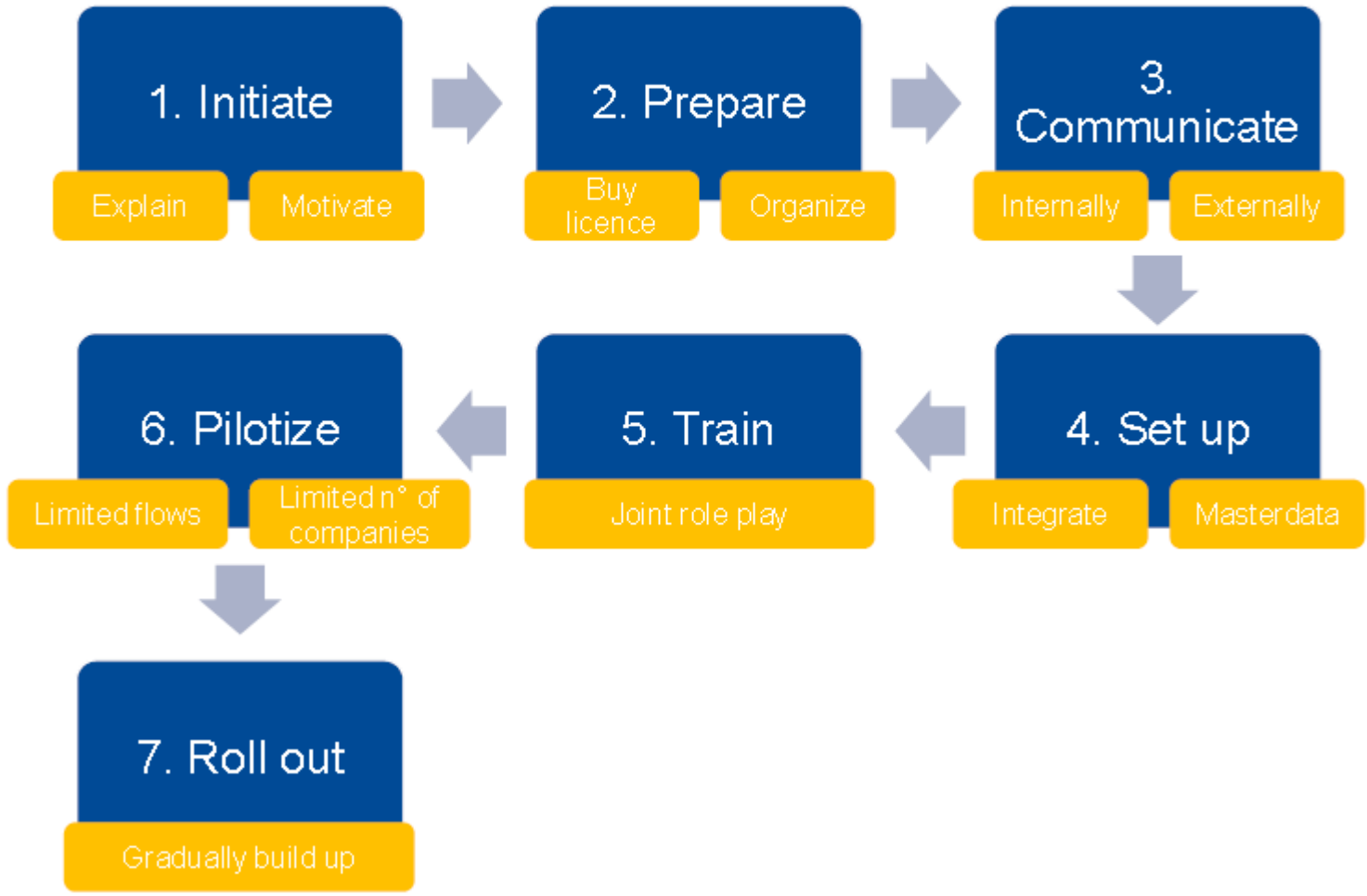
REGISTRATION

PAID

Pay your invoice
to activate licence

Work & Clean
smart together

ECTA

essenscia

cefic

EFTCO

# 1. Project onboarding
## Steps to onboard

| 1. Initiate | → | 2. Prepare | → | 3. Communicate |
|---|---|---|---|---|
| Explain | Motivate | Buy licence | Organize | Internally | Externally |

| 6. Pilotize | ← | 5. Train | ← | 4. Set up |
|---|---|---|---|---|
| Limited flows | Limited n° of companies | Joint role play | | Integrate | Masterdata |

| 7. Roll out |
|---|
| Gradually build up |

INEOS

| Transport Company Name |
|---|
| ADPO |
| Bertschi |
| De Decker Van Riet |
| GCA |
| Haesaerts |
| Hammer & Co |
| Hoyer |
| Kube&Kubenz |
| Rinnen |
| Schmidt |
| Transport Nagels |
| Vervaeke |
| VTG |
| Huktra (not Essers) |
| Van Opdorp & Zonen |

Todays list of eECD subscribed transport Co's

# Just a few examples of future eECD use case value!



Eclic
European Chemical Logistics
Information Council

Digital ECD

Automated Validation of ECD

Automated checks on pre loads

Automated check on cleaning matrices

Automated retrieval of equipment masterdata for payload calculation

Electronic pre announcement of driver and equipment

Pre arrival notification

Pre validation of Equipment MD

Pre validation of equipment certifications

Transparency on availability of equipment

transparency on site

Automated processing of VGM data

Digital booklet for customs related documents

Digital booklet for transport accompanying documents

Digital CMR

# ECLIC 2020 Use Case Roadmap

**Eclic**
European Chemical Logistics Information Council
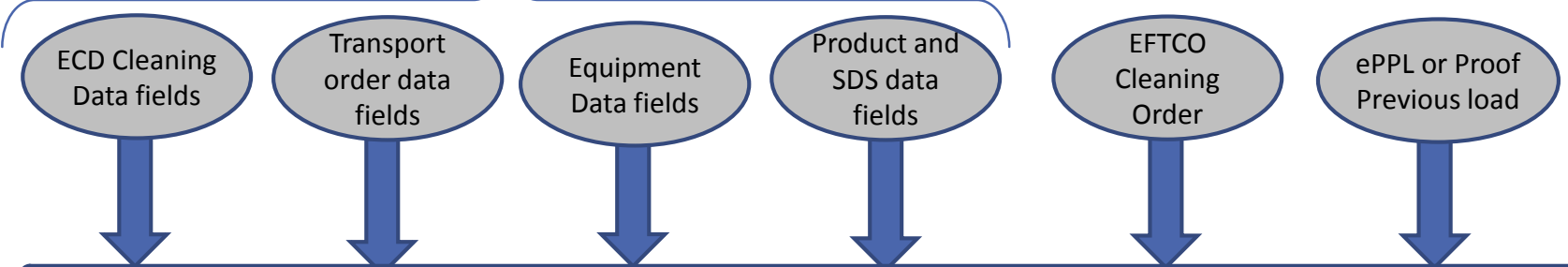
**ECLIC 2020 - Proof of Concepts**
*ETA visibility - eCMR- Equipment pre-notifications*

**eECD Use Case 2020 (phase 2)**
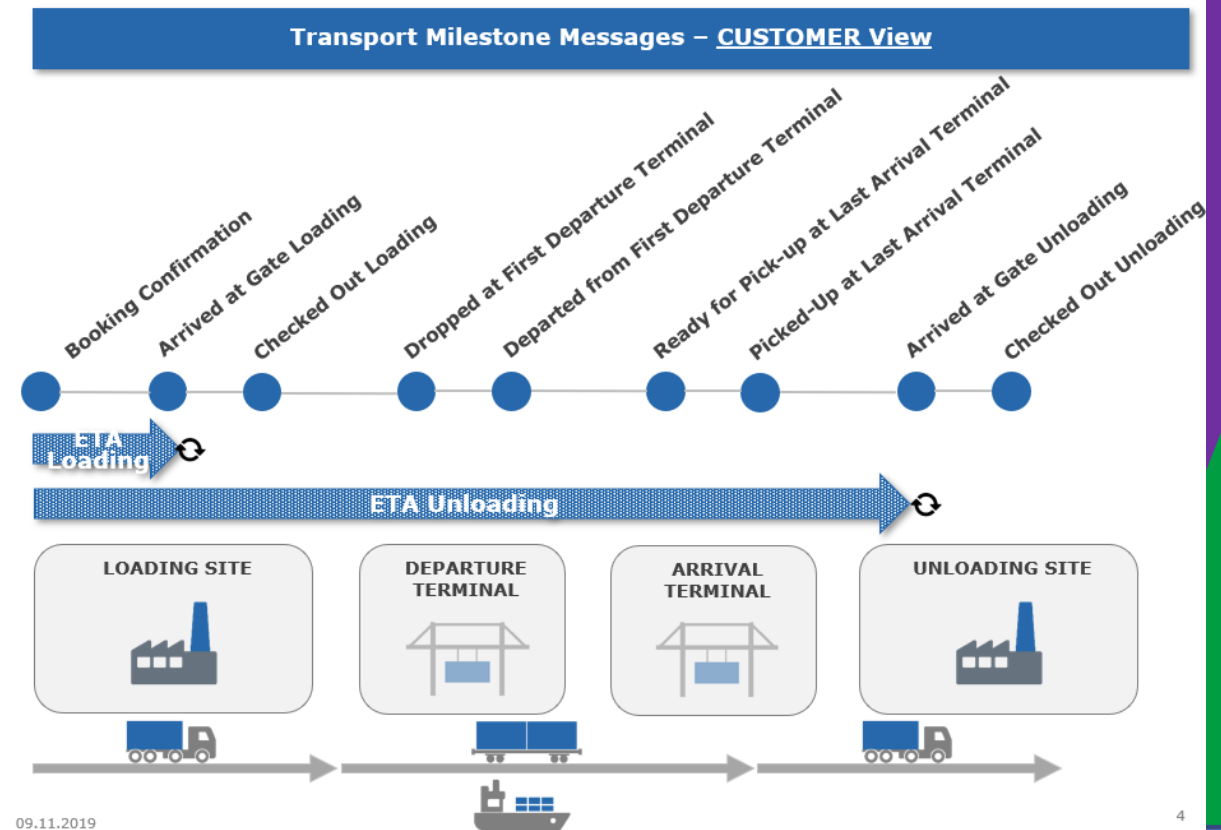
**eECD Use Case (today in operation)**

- ECD Cleaning Data fields
- Transport order data fields
- Equipment Data fields
- Product and SDS data fields
- EFTCO Cleaning Order
- ePPL or Proof Previous load

agree to share a few more data fields through ECLIC to work smarter together

## ECLIC – Uniform Chemical Logistics data highway

ECTA    essenscia    cefic    EFTCO

Peter Devos Consult

*Draft – company confidential*

# ECTA SC Visibility Workgroup

- Lead : Joep Aerts – Den Hartogh
  - Michelle Slobbe – Den Hartogh
  - Thies Grage – HOYER
  - Walti Cedric - Bertschi
  - Peter Viebig – Talke
  - Jochen Fink/Michael Mehlhorn – Rinnen
  - CAPEL Michel – GCA

- ECTA: Peter Devos

- Project Charter completed



**End-to-End Supply Chain Visibility**

Transport Milestone Messages – **CUSTOMER View**

Booking Confirmation · Arrived at Gate Loading · Checked Out Loading · Dropped at First Departure Terminal · Departed from First Departure Terminal · Ready for Pick-up at Last Arrival Terminal · Picked-Up at Last Arrival Terminal · Arrived at Gate Unloading · Checked Out Unloading

ETA Loading

ETA Unloading

LOADING SITE · DEPARTURE TERMINAL · ARRIVAL TERMINAL · UNLOADING SITE

09.11.2019

4
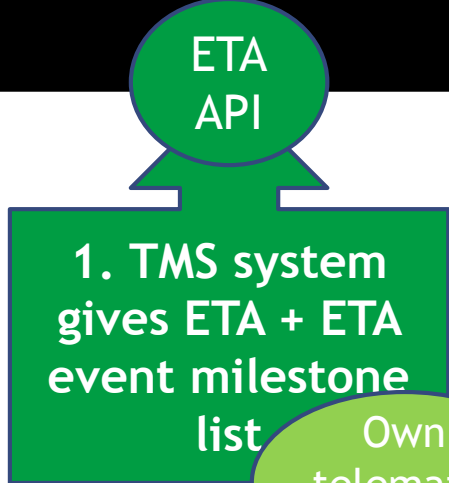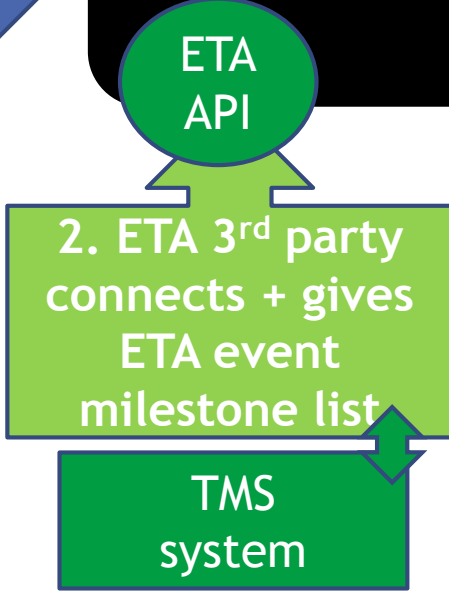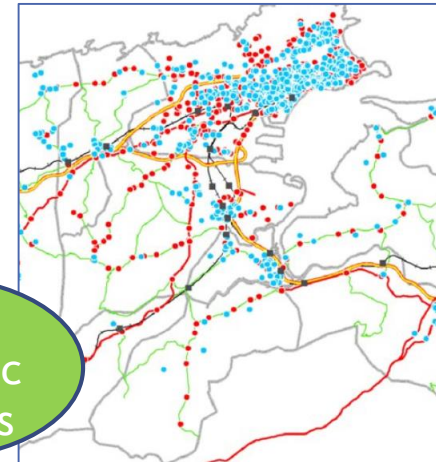
# Work smarter, safer, more transparent and paperless together



**CHOOSE YOUR RIGHT OPTION**

# Backup

# The eECD project, an industry association initiative, backed by its members



**eECD is a first multi-company, cross-functional, transactional supply chain collaboration platform**

# What Does it costs? eECD tariff table: ECLIC board July 2, 2018

| eECD Tariff Table<br><br>Company types & sizes | ECD pack size | START-UP FEE (ECD licence + ECD pack 0,20) | Annual licence fee | price per ECD pack as of year 2,3,...n | connection cost |
|---|---|---|---|---|---|
| Company size defined based upon annual # of paper ECD's per Year | sold per pack | YEAR1 | YEAR 2,3,...n | 20 cents per eECD | |
| **Transport Co - EquipmentOperator** | | | | | |
| SMALL <=2500 | 1500 | 1200 | 900 | 300 | web included |
| MEDIUM >2500 and <=15000 | 7500 | 3900 | 2400 | 1500 | own cost |
| LARGE >15000 <30000 | 18000 | 7200 | 3600 | 3600 | own cost |
| XL >30000 | 35000 | 11800 | 4800 | 7000 | own cost |
| **Cleaning Co-Cleaner** | | | | | |
| SMALL <=2500 | 1500 | 600 | 300 | 300 | web included |
| MEDIUM >2500 and <=15000 | 7500 | 1950 | 450 | 1500 | own cost |
| LARGE >15000 <30000 | 18000 | 4500 | 900 | 3600 | own cost |
| XL >30000 | 35000 | 8200 | 1200 | 7000 | own cost |
| **Chemical Co - Seller-Loader** | | | | | |
| SMALL <=2500 | 1500 | 3300 | 3000 | 300 | web included |
| MEDIUM >2500 and <=15000 | 7500 | 8100 | 6600 | 1500 | own cost |
| LARGE >15000 <30000 | 18000 | 11600 | 8000 | 3600 | own cost |
| XL >30000 | 35000 | 16800 | 9800 | 7000 | own cost |
| **Tank Storage Operator Co's** | | | | | |
| SMALL <=2500 | 1500 | 1200 | 900 | 300 | web included |
| MEDIUM >2500 and <=15000 | 7500 | 3900 | 2400 | 1500 | own cost |
| LARGE >15000 <30000 | 18000 | 7200 | 3600 | 3600 | own cost |
| XL >30000 | 35000 | 11800 | 4800 | 7000 | own cost |

# eECD Company subscriptions
## *Connect to your partners in the growing eECD network….*

**https://www.eclic.eu/usecase.php#uc7**

**Eclic**
European Chemical Logistics
Information Council

Individual Subscribers to the eECD platform

eECD Company Network interoperability



## eECD company network

Find below the list of companies who already subscribed to the digital eECD process and are preparing their teams, per specific loading or cleaning location, to use the digital eECD within the next 2 months. This list is updated on a regular basis and the purpose is to let the eECD network grow so that companies can find & contact each other within this network and build up the digital eECD experience together. Do you have any further eECD company network question? Please contact info@eclic.eu.

**eECD Use Case**

- What is an ECD?
- Project Objective
- eECD benefits
- Our supporting companies
- The project timeline
- Who can use eECD?
- eECD intro and on boarding movies
- eECD company network

Search Company Name…

Search Licence Type…

| Company Name | Licence Type | Country | Location | Licence Holder | Admin User |
|---|---|---|---|---|---|
| Covestro NV | Seller-Loader | Belgium | Scheldelaan 420 – Haven 507 - 2040 Antwerp | Lieven De Jonge | Peggy Janssens |
| Cotac Europe GmbH | Cleaner | Belgium | Transcontinentaalweg 10-12 - Haven 200 - 2030 Antwerp | Erwig Seliaerts | Erwig Seliaerts |
| Cotac Nederland BV | Cleaner | Netherlands | Oude Maasweg 44-50 NL-3197 KJ Botlek (Rotterdam) | Erwig Seliaerts | Tako Runia, Perry Klopstra |
| Haesaerts Intermodal NV | Equipment Operator | Belgium | Keetberglaan - Haven 1054 - 2070 Zwijndrecht | Luc Haesaerts | Rudy Aerts |
| Evonik NV | Seller-Loader, Equipment Operator | Belgium/Germany | Tijsmanstunnel West 2040 Antwerp | Bart Witdouck | Tim Mertens |

**ECTA**    **essenscia**    **cefic**    **EFTCO**