



Digitalization of truck processes at site Ludwigshafen

Stefan Bartens, BASF SE

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With investments in its infrastructure BASF has laid the foundation for faster truck processing

Investments in infrastructure



Faster, digital processing

Fully digital truck processing enables a reduction in turn around times for ...

Truck arrival
(Notification, checks, resource planning,...)

Truck handling
(Identification, routing, documents, control,...)

Loading stations
(Prioritization, avoidance of queues and traffic jams,...)

Plant exit
(Checks, time stamp, departure,...)

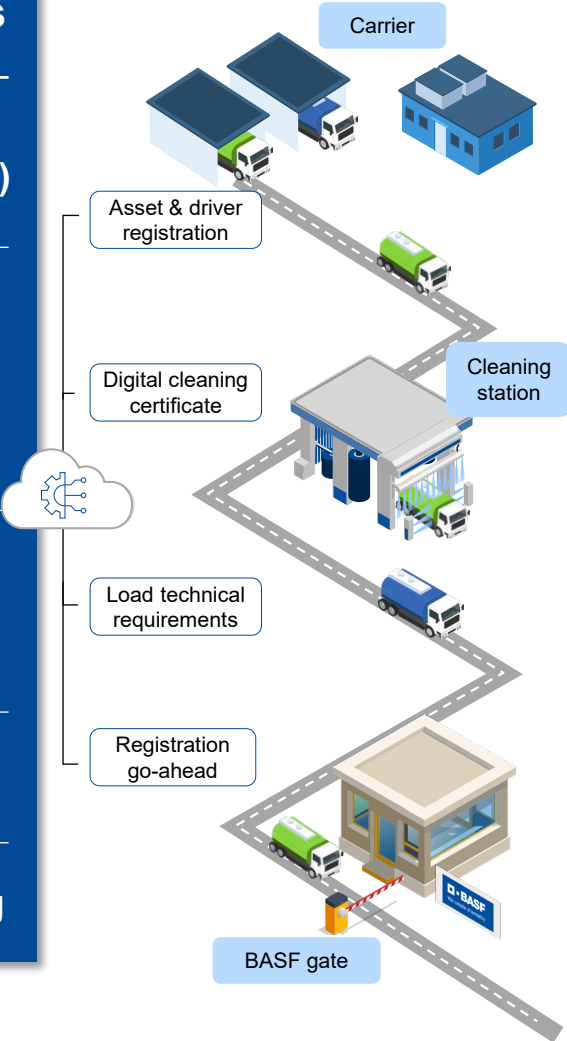
BASF is transforming its digital strategy to improve end-to-end truck processes

- At peak times **2,000 trucks** are processed in Ludwigshafen per day driving significant complexity
- **Truck rejections** and **truck turn around delays** impact **BASF**, **our carriers**, and our **customers**
- Delivering a **step change** in our truck processes will **accelerate the gate-to-gate process**, **reduce plan deviations**, and **assure on-time deliveries**
- **Harmonized digital tools & processes** for site Ludwigshafen using available industry solutions



New digital processes will become a site wide standard and provide benefits for carriers and BASF

- Digital process**
- 1 Trusted Carrier (CTC)
 - 2 ECLIC
 - 3 Loady
 - 4 Pre-check
 - 5 Smart Filling



Benefits



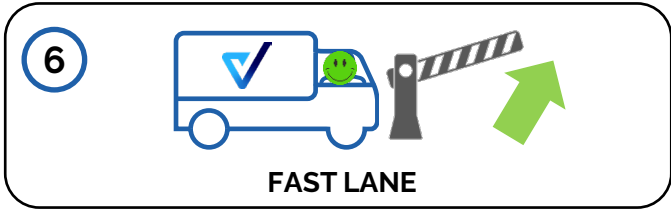
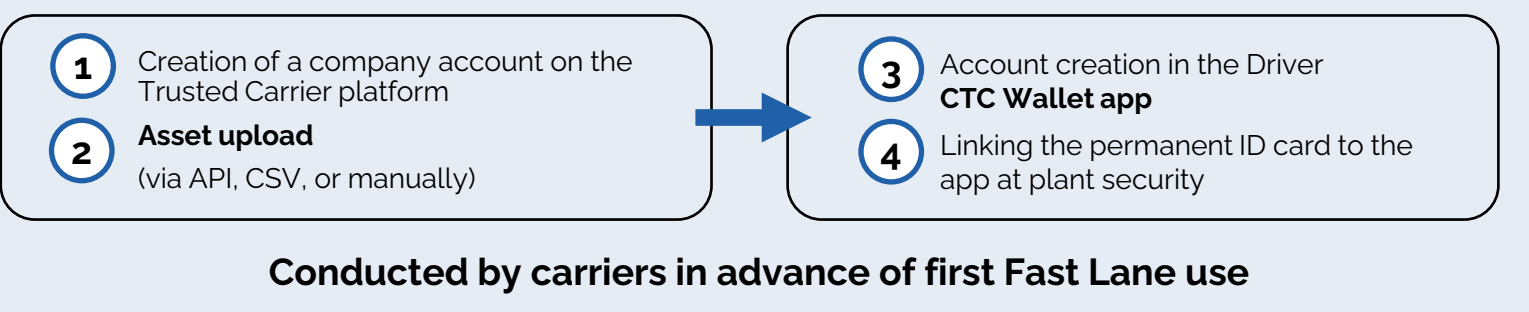
- Automated gate processing with reduced turnaround times
- Prevention of truck rejection due to prohibited assets and/or driver
- Prevention of truck rejection due wrong/missing cleaning certificate
- Faster equipment checks with digital proof of cleaning standard
- Reduce excessive generalized transport requirements
- Structured and up-to-date master data e.g. pre-load restrictions
- Early rejections to reduce time loss due to idle times on site
- Digital process for payload optimization and document handling

Expectations towards carrier



- **Register your vehicle, equipment, and drivers** through the **CTC** portal
- Link BASF badge with CTC wallet app
- Provision of **ECLIC eECD & ePPL** documents
- **Request digital certificates from cleaning stations**, support further roll-out of ECLIC
- Utilization of **pre-loading restrictions checks**
- Utilization of tendering platform
- On-time arrival & utilization of pre-check facilities
- E-Certificates through ECLIC for seamless process integration

Fast Lane: Automated site access to BASF in Ludwigshafen with Trusted Carrier's Wallet and Asset services



ECLIC electronic cleaning certificates to be rolled out as an integral part of future digital gate-to-gate process

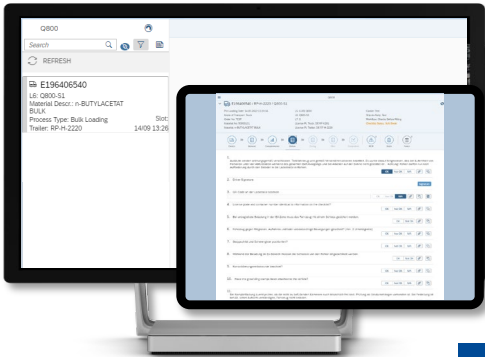
Digital data sharing solution for cleaning certificates

- Industry associations (essenscia, Cefic, EFTCO, ECTA) driven initiative striving for standardization and trustful digital collaboration in chemical logistics
- Chemical industry standard for digital cleaning certificates (eECD)
- Increased Responsible Care / safety / quality



Digital integration in End-to-End process

- ePLR (Electronic previous load restrictions) solution with Loady to allow for automated rejections & proof previous load checks
- Interface into SmartFilling → Review digital documents at the loading station on a tablet



Loady will provide the logistics masterdata backbone as a fully integrated platform with interfaces to all stakeholders and systems

Digital master data (Loading, Unloading requirements)

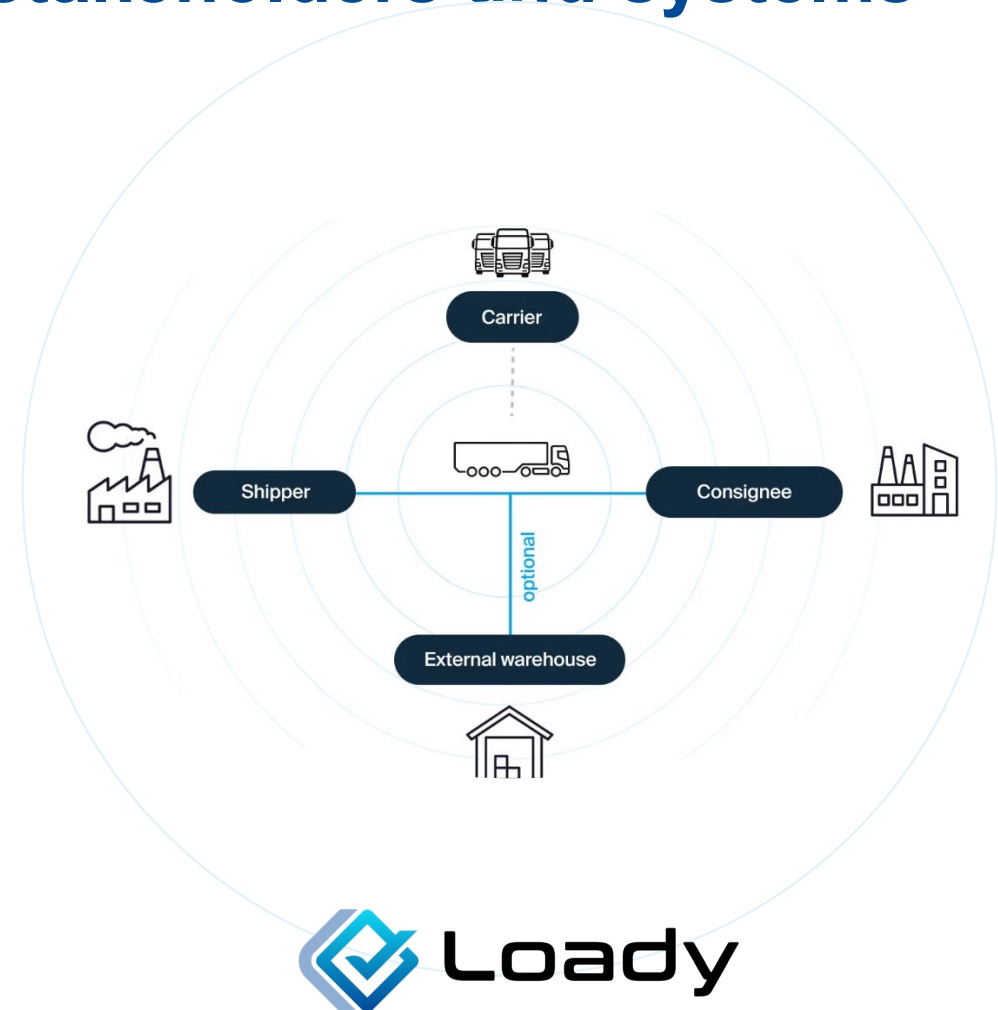
- Standardized & harmonized setup of master data
- Fully integrated with digital gate processes
- Reduction of rejections & troubleshooting
- Reduction of lost loading and unloading slots

Loady for Tender – Tender & requirements management

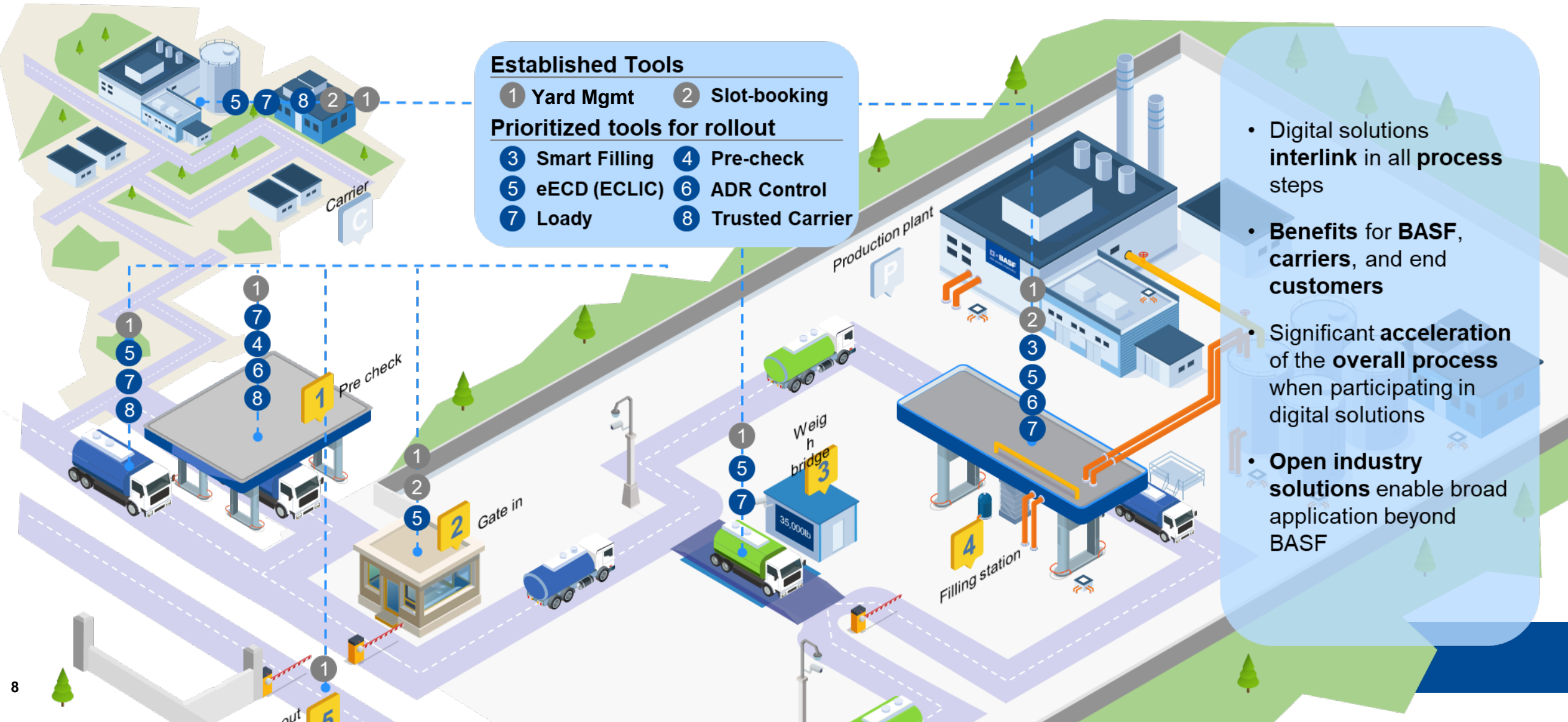
- Reduction of tender preparation times as all data is maintained & updated in Loady

Automatic checking of preloading restrictions

- Structured data & centralized database to store and manage all preloading restrictions, including previous load restrictions and cleaning requirements
- Integration with eECD (cleaning certificates) & ePPL (proof prev. load) to allow for automatic rejections

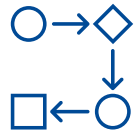


A digital, integrated and fully interconnected end-to-end process for truck handling based on open industry platform solutions



Your benefits: With the new structure, the process will be easier, more transparent and streamlined for our logistic partners

What's in for you:



**Automated gate processing
and less manual effort**



Less last-minute rejections



**Standardized setup
for digital cleaning certificates**



**Reduced excessive generalised
transport requirements**



**Simplified routines for preloading
restrictions + automated checks**



**Target value for
turnaround time: 2 hours**

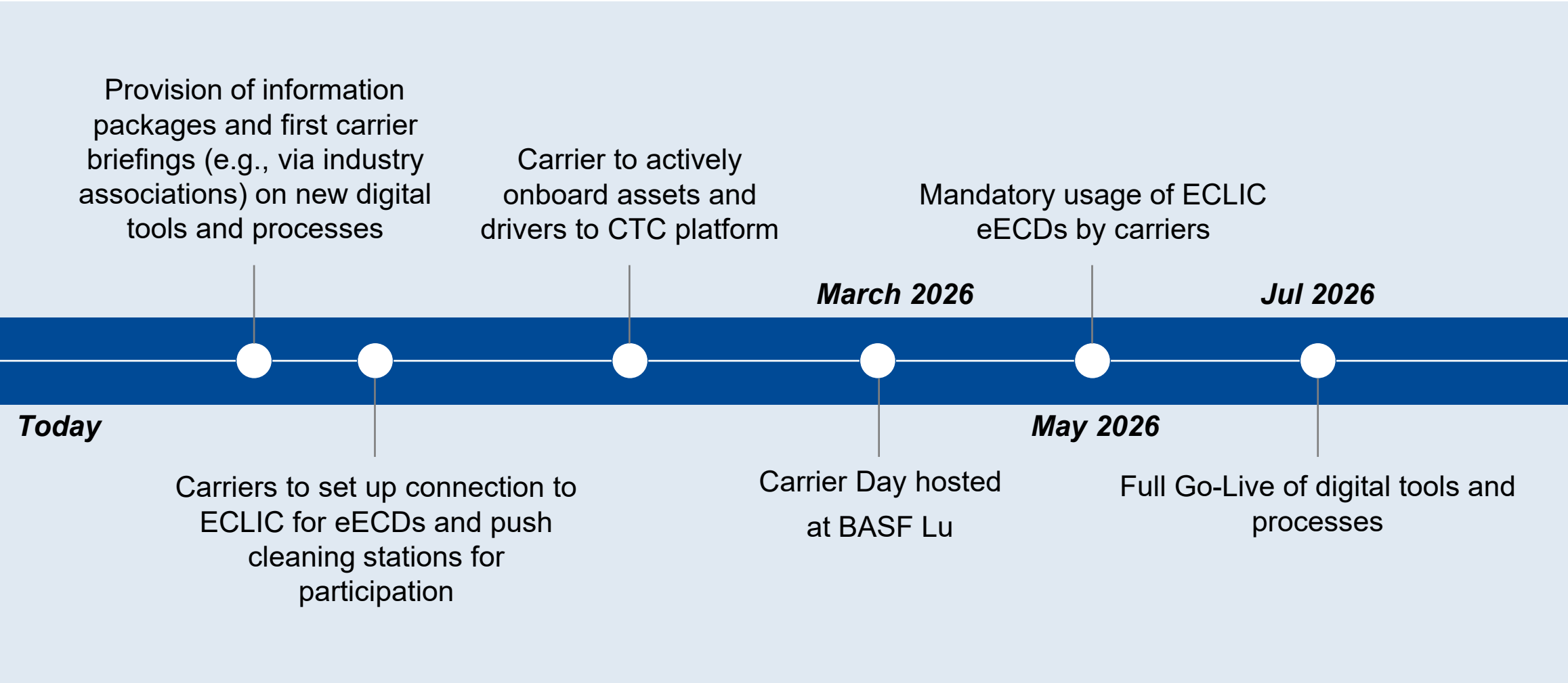


**Early detection of unsuitable
truck/ driver combinations**



**Packed goods:
Self-check-out terminals**

Timeline and next steps | The new digital process will be fully implemented by Q3 2026



To start the usage and have questions please get in contact with...



www.trusted-carrier.com

c/o Bundesverband
Güterkraftverkehr Logistik und
Entsorgung (BGL) e.V.
Breitenbachstraße 1
60487 Frankfurt Main, Germany



www.loady.com

MAFINEX Technologiezentrum,
Julius-Hatry-Str. 1,
68163 Mannheim, Germany



www.ecllic.eu

Bluepoint Business Centre
Boulevard Auguste Reyers, 80 -
1030 Brussels, Belgium

Mr. Philipp Rennert

Sales & Business Development

Mobile: +49 171 865 4350

Email: philipp.rennert@trusted-carrier.com

Ms. Elzbieta Wiankowska

COO & Co-Founder

Mobile: +49 173 3796911

Email: elzbieta.wiankowska@loady.com

Mr. Peter Devos

Managing Director ECLIC VZW

Mobile: +32(0)476 430079

E-mail: peter.devos@ecta.com