

# Playbook PTV Axylog

Your complete guide to real-time  
transport visibility solutions





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# Not in control of your delivery process

In transport, we know one thing for sure: the plan that we carefully crafted the day before is already outdated before the first shipment is delivered. Traffic, weather and operational changes regarding drivers, vehicles, customers or the orders themselves are factors beyond our control, but they are decisive for meeting planned deliveries and service times.

The only thing left for us to do is to closely monitor the progress of the transport operation so that we can intervene immediately if necessary. And so that we can inform all stakeholders in a timely manner about changes compared to the plan.



## How to get control?

What we need for that is a control tower: a tool that provides us with a consolidated view on the outside world. A tool that gives us real-time insight into all transport movements, so we know where our vehicles and our shipments are at any given moment. Moreover, a tool that digitally connects us with all stakeholders, so we can adjust transport movements or confirm their execution without losing time or causing interference.

## More than just a control tower

A control tower offers more than just real-time transport visibility. A control tower is a platform that streamlines and digitizes collaboration with transport partners, so we don't have to unnecessarily wait for the correct documents to confirm a delivery and send an invoice. A control tower is a tool that not only provides support for operational decisions but also offers the insight needed to evaluate and adjust tactical and strategic decisions.

This playbook clarifies how a control tower helps you regain control over your transport operation.



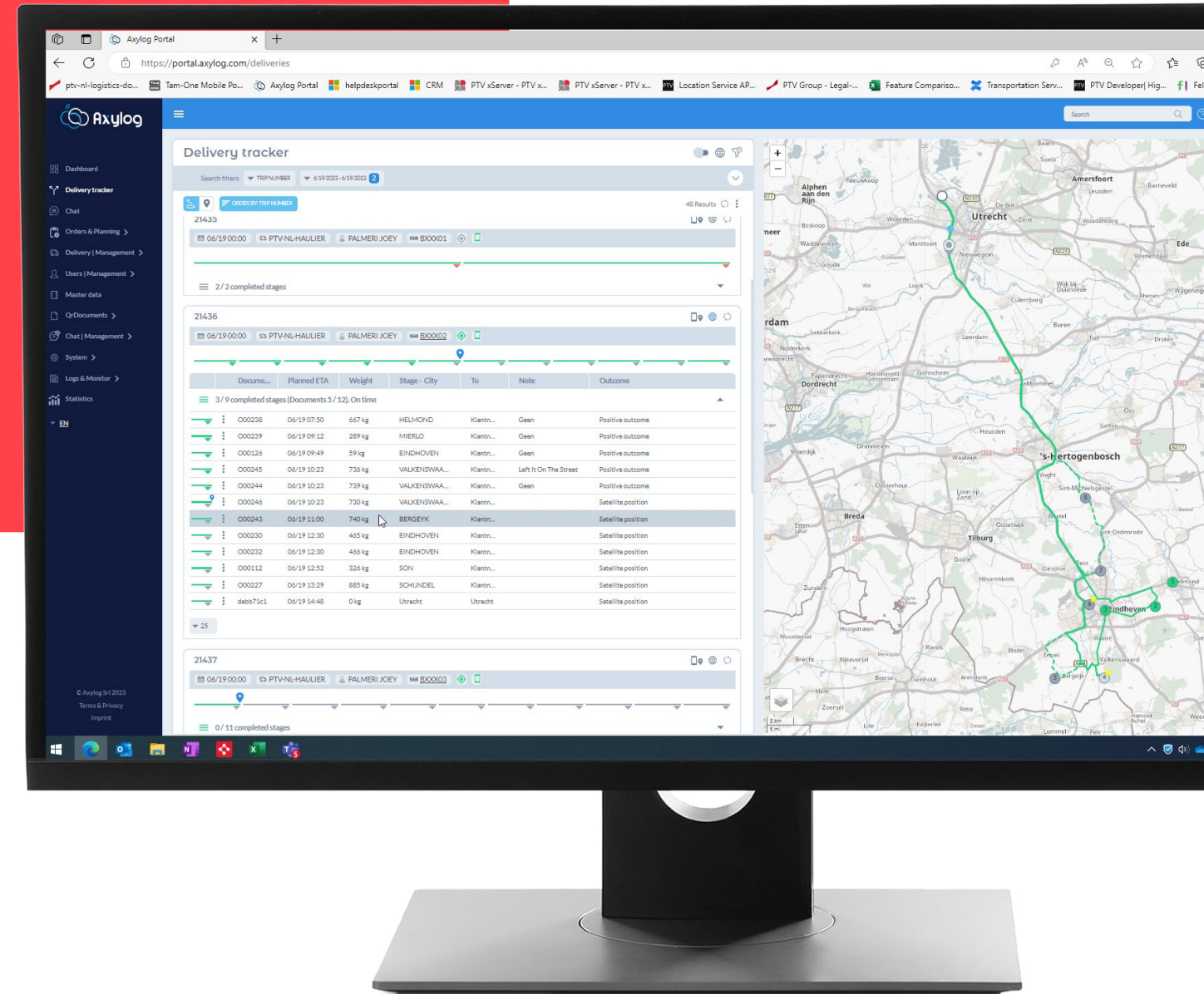
# Track and manage your transport orders in real-time

# What is a real-time transport visibility platform?

**Real-time transport visibility is the foundation of every control tower.**

A Real-Time Transport Visibility Platform, or RTTVP for short, is like a super-smart tool that keeps you in the know about where your shipments are, how they're doing, and when they'll arrive, all in real time!

If you're in the business of moving stuff – maybe you're a shipper, a logistics provider, or a carrier – this platform is your go-to buddy to help make your transport smoother and smarter. So, if you're looking to keep a closer eye on your goods while they're on the move and make better decisions, an RTTVP is just what you need!





The transport visibility platform puts you back in control of your transport operation. This starts with insight into the status of all orders, routes, and vehicles. The transport visibility platform receives the necessary data directly from various data sources:

- From the mobile app that is integrated with the control tower
- From the telematics systems of your own and other people's trucks
- From the transport management systems of freight forwarders and carriers
- From other business applications or real-time transport visibility platforms



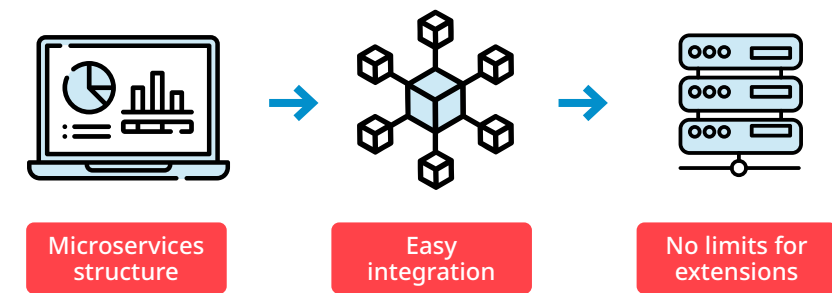
### WEB PORTAL

User interface accessible from desktop and mobile browsers



### MOBILE APP

Bidirectional informative link between drivers and the transport office

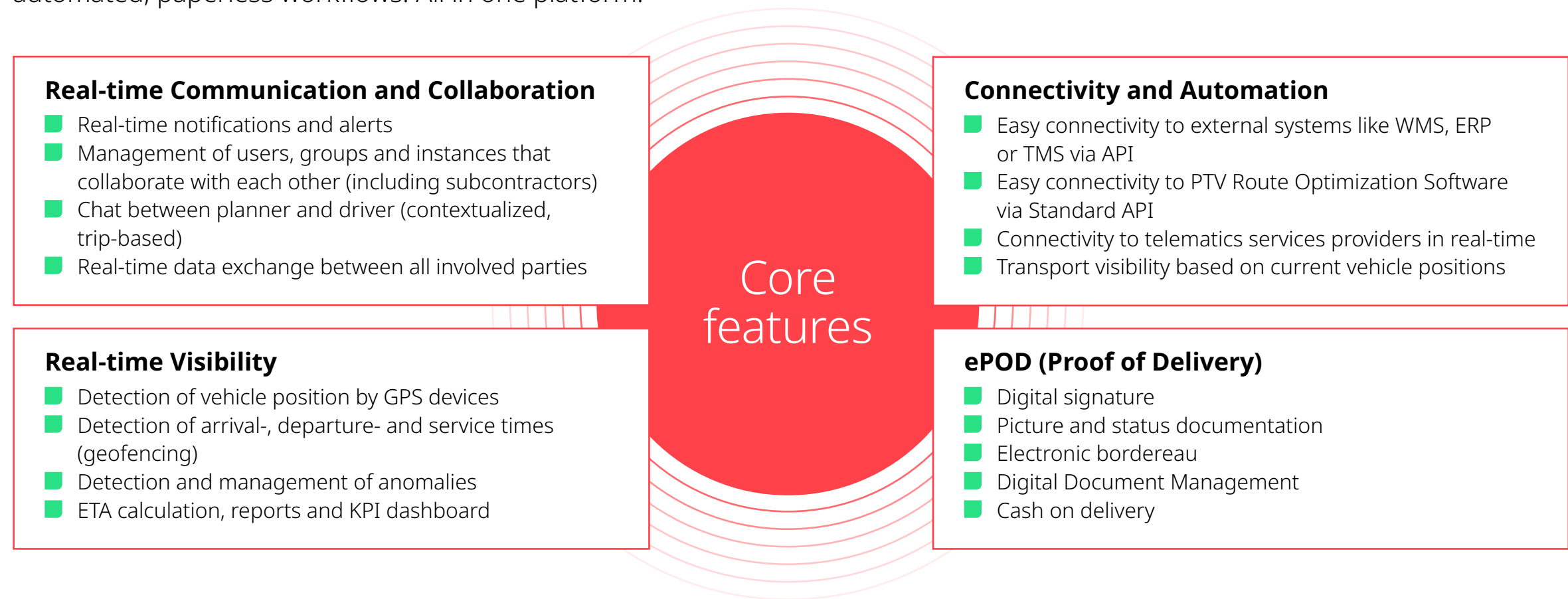


### BACKEND

Core of the system providing the web services and data access

# What is PTV Axylog?

PTV Axylog is a real-time transport visibility platform that gives you full control over your delivery process. With PTV Axylog you can track and manage transports and deliveries in real-time, collaborate with stakeholders and increase efficiency through automated, paperless workflows. All in one platform.



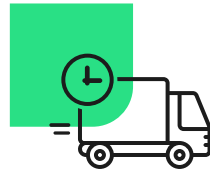


# Key benefits



## Real-time visibility

Maximize control of delivery process by tracking vehicle positions in real-time.



## Predictive ETA

Calculate real-time ETA under the consideration of disruptions along the route.



## ePoD

Provide electronic proof of delivery to drivers via the QrDelivery App.



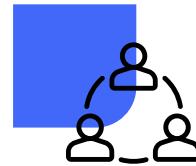
## Notifications and alerts

Define workflows to send personalized notifications & alerts in real-time and detect anomalies in the order fulfilment process.



## Automation of the transport document workflow

Digitize and automate the complete transport document workflow of the fulfilment process.



## Collaboration

Collaborate and share information with customers, consignees, carriers & subcontractors within one platform.

## Users of PTV Axylog



## Your benefits?

- Get full visibility over your transport operations and share with the stakeholders along the transport chain or network
- Save process costs with increased efficiency
- Keep your customers happy with a smoother delivery process
- Benefit from tailored solutions to meet your exact needs
- Connect route optimization software and get real-time visibility of the planned routes



PTV Logistics collaboration with DHL goes back to 2018. Since then, we have been progressively expanding the tracking coverage of DHL Express Italy linehaul network and have reached 100% coverage. We are engaged with them daily to improve the tracking of vehicles, which has become of strategic importance for DHL business in recent years. The excellent results obtained over the years guarantee high reliability and are our 'eyes on the road'. I can only be very satisfied with the work of PTV Logistics and the results achieved thanks to the passion, expertise and extreme helpfulness put in place from the very beginning.



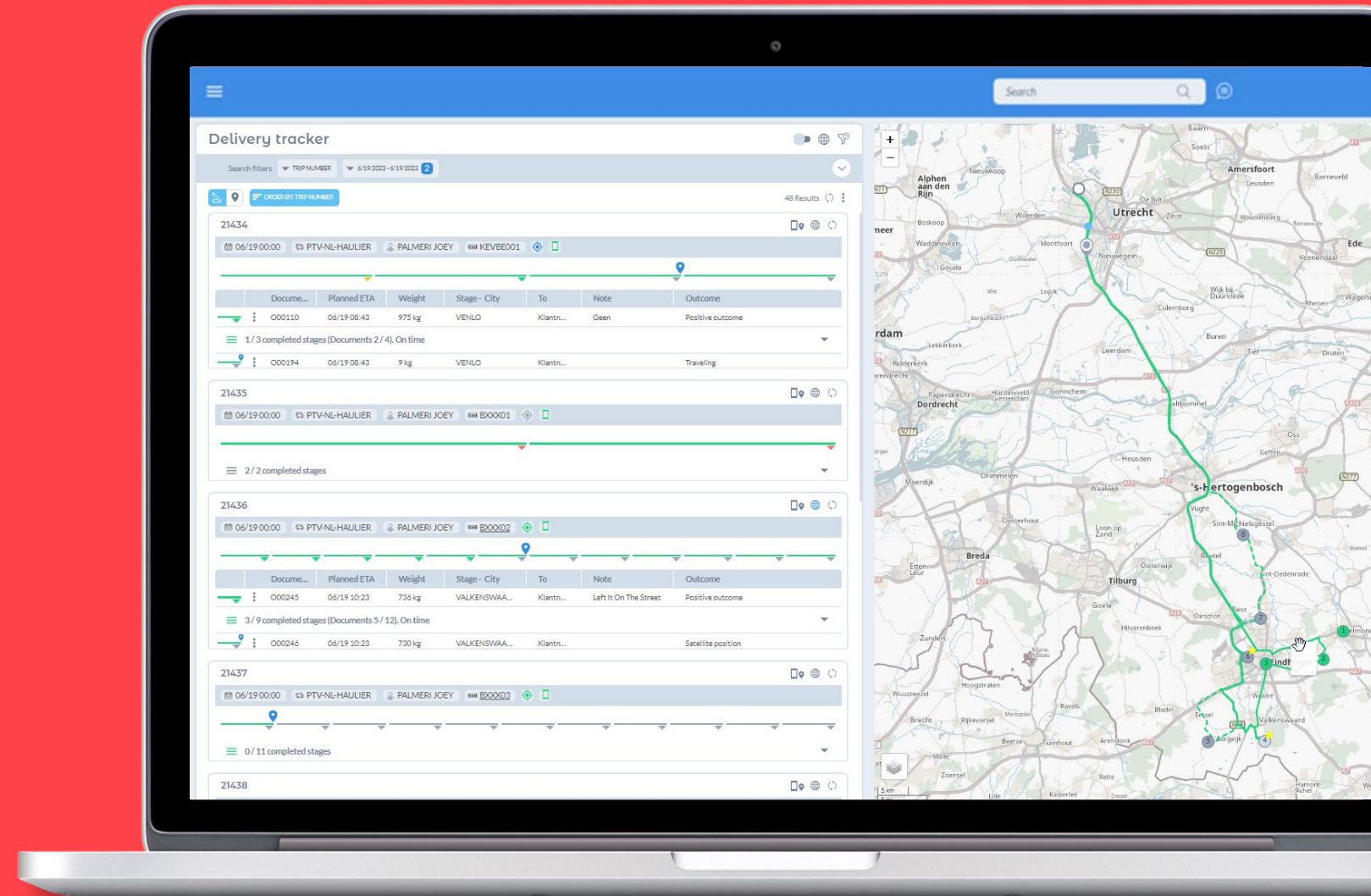
**Luco Schioli, DHL Express Italy**



Get real-time insight into  
your delivery process

Finally gain the  
overview you so  
desperately need

As soon as a truck or van departs, your shipments  
literally disappear. What can you still do to ensure  
that shipments arrive on time, everyone receives  
the correct information, and transport costs  
remain within limits?

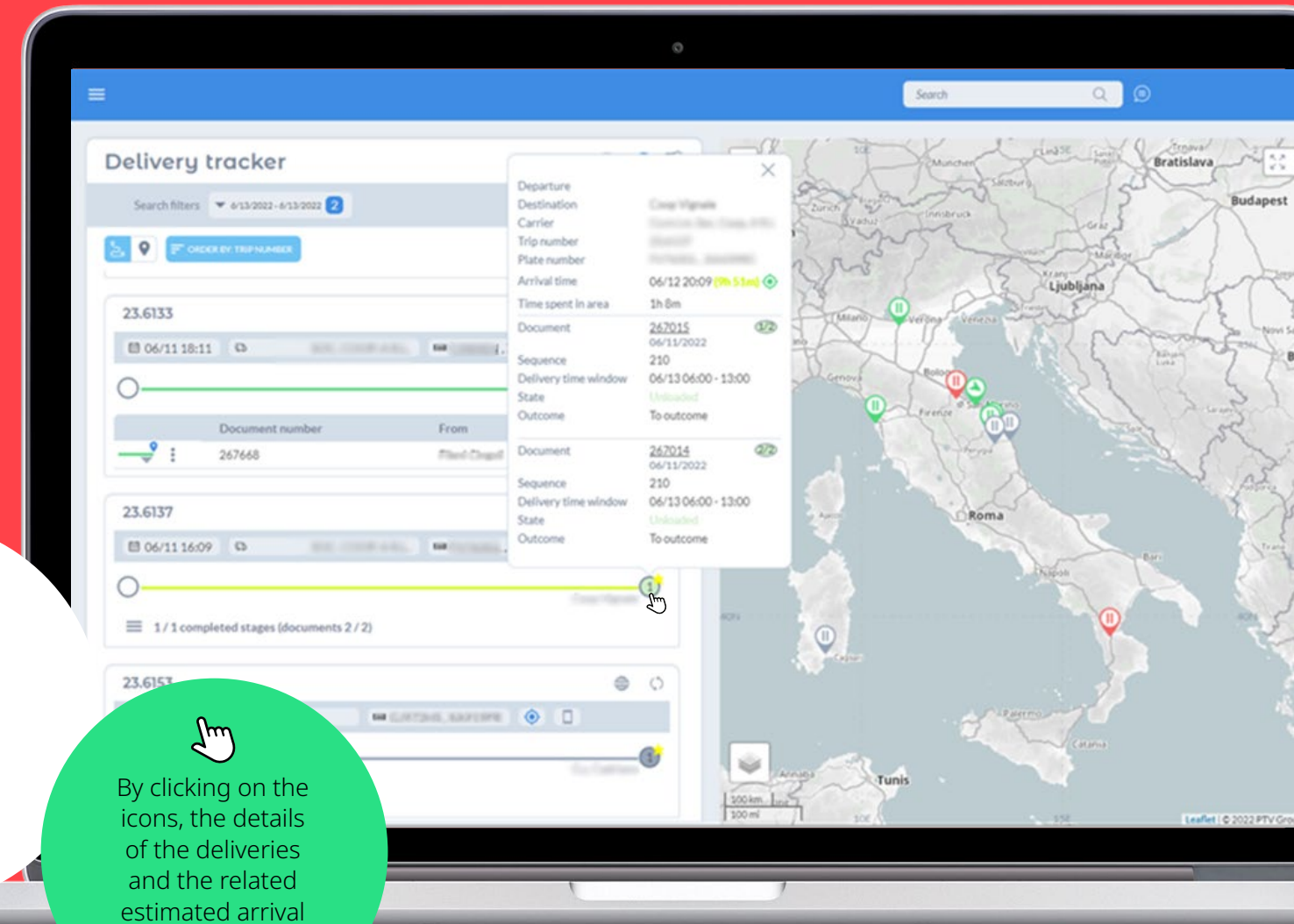


A control tower gives you a complete overview of your transport operation:

- Continuously receive the GPS coordinates of all vehicles
- Look at the geographic map for an overview of all vehicle positions
- See which vehicles are stationary or experiencing delays
- Click to see which vehicle is linked to which ride and shipments
- Receive an alert when a vehicle reaches its destination (geofencing)
- Receive a warning if the expected delivery time deviates from the planned delivery time

Vehicles traveling on time or late?

By clicking on the icons, the details of the deliveries and the related estimated arrival times are shown.

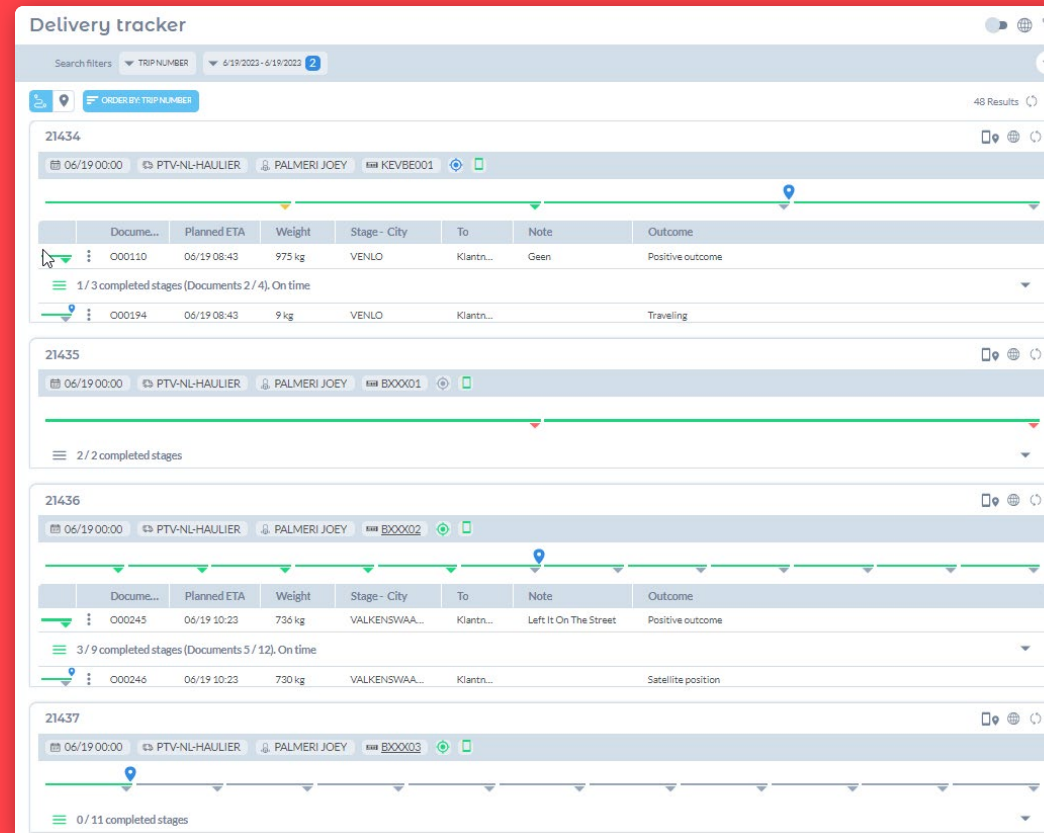




# Trips visualization is designed to provide an immediate understanding of the progress of deliveries.

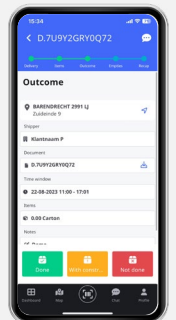
Each row includes carrier, vehicles and drivers' data and a series of graphic elements each one representing a delivery/pickup belonging to the specific trip.

Deliveries/pickups are highlighted according to their status, i.e. delivered without any problems, on time or in delay.




**The control tower is accessible via the web portal from any desktop, laptop, tablet, or phone with an internet connection.**

A mobile app enables planners and drivers to communicate directly with each other. Integration with the route planning system offers the possibility to check whether the transport operation is on schedule.



Interfaces with all common telematics, TMS, and ERP systems ensure that all necessary data are available and accessible.



**In the land of the  
blind, the one-eyed  
man is king.**

**A control tower  
offers you all the  
eyes you need.**





## Collaborate & communicate with all parties

# Always in touch with your drivers, carriers, customers and recipients

A control tower enables you to rapidly respond to delays and disruptions, but only if you are in direct contact with your drivers and carriers.

- Modify a current route by adding or removing stops
- Send and receive real-time notifications and alerts
- Chat directly with drivers about routes or shipments
- Create groups consisting of planners, drivers, carriers, and subcontractors who collaborate with each other

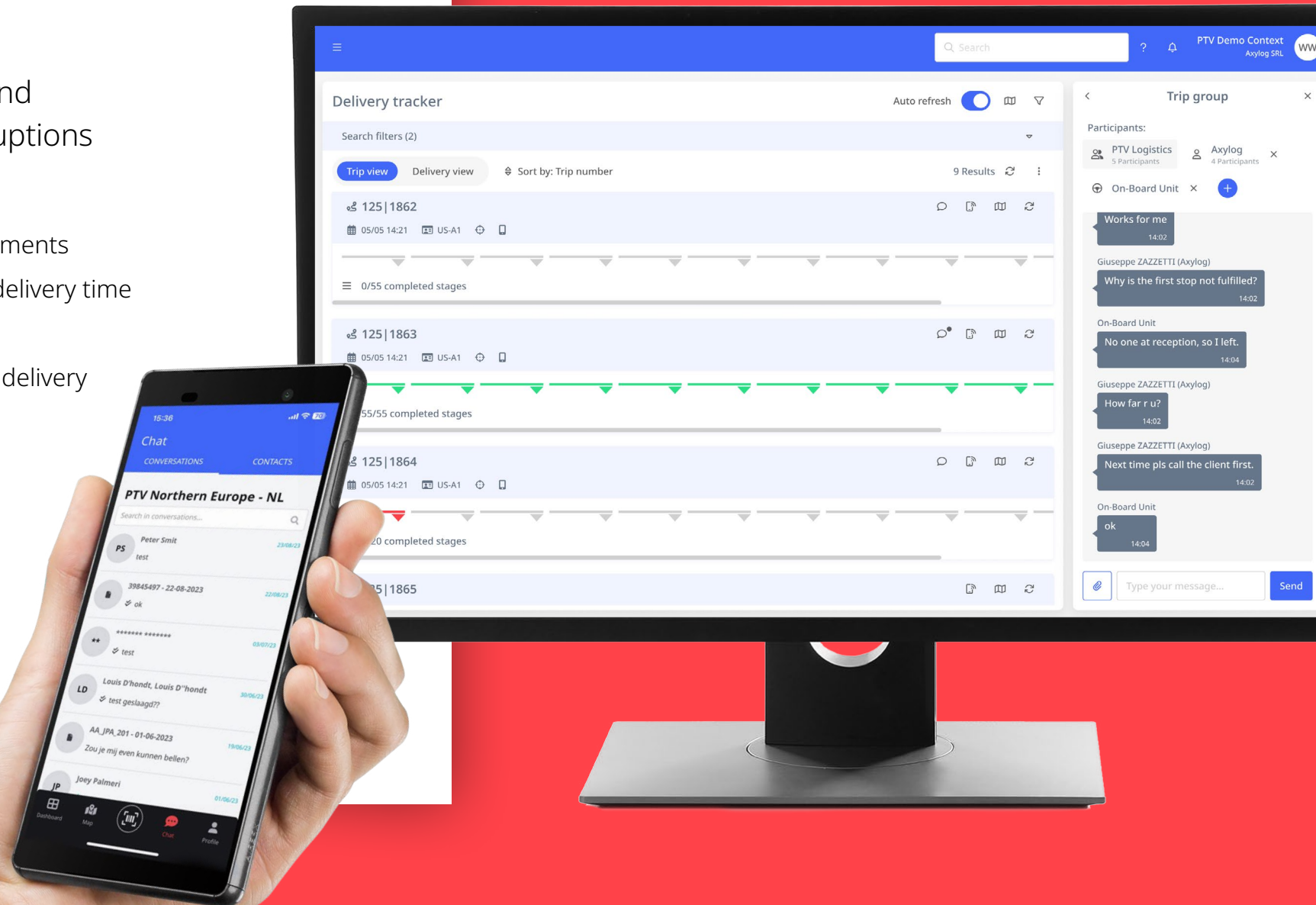


Prevent unpleasant surprises and keep senders and recipients fully automatically informed about disruptions or changes to the transport plan.

- Provide customers with access to all data about their shipments
- Send all involved parties a notification with the expected delivery time
- Alert recipients if their shipment is arriving late
- Send senders a digital proof of delivery immediately after delivery

Notifications to recipients via E- Mail and SMS.

In addition to being informed in real-time on the arrival time of the vehicles, the recipients can receive a link on their smartphones that allows them to see the vehicle intended for them directly on the map.



## Automation of the transport document workflow

# Let data flow through the supply chain without delays

An agile and flexible transport operation requires uninterrupted digital exchange of data so that everyone in the chain has access to the same real-time information.

To this day, the transport operation includes various manual administrative tasks that cause delays in data communication. Just think of all the consignment notes that need to be printed, signed, and processed again.

A control tower makes it possible to digitize the entire administrative process and the exchange of paper documents.



# Access to **real-time** information

- Enable 'sign on glass' with the mobile app for drivers
- Share this electronic proof-of-delivery (ePOD) directly with all involved parties
- Upload photos of the delivered shipments and other documents
- Benefit from the chain-wide advantages of digital consignment notes (eCMRs)
- Enable recipients to pay upon delivery (cash on delivery shipments)
- Register all delivered and taken-in packaging such as pallets and roll containers



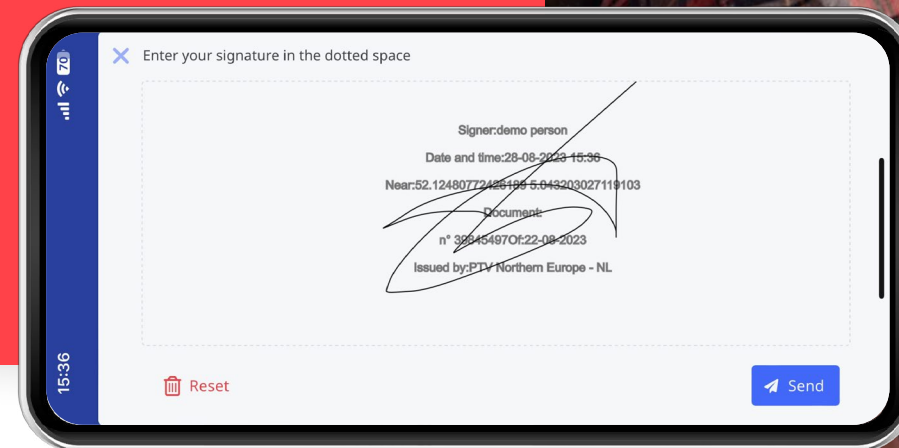


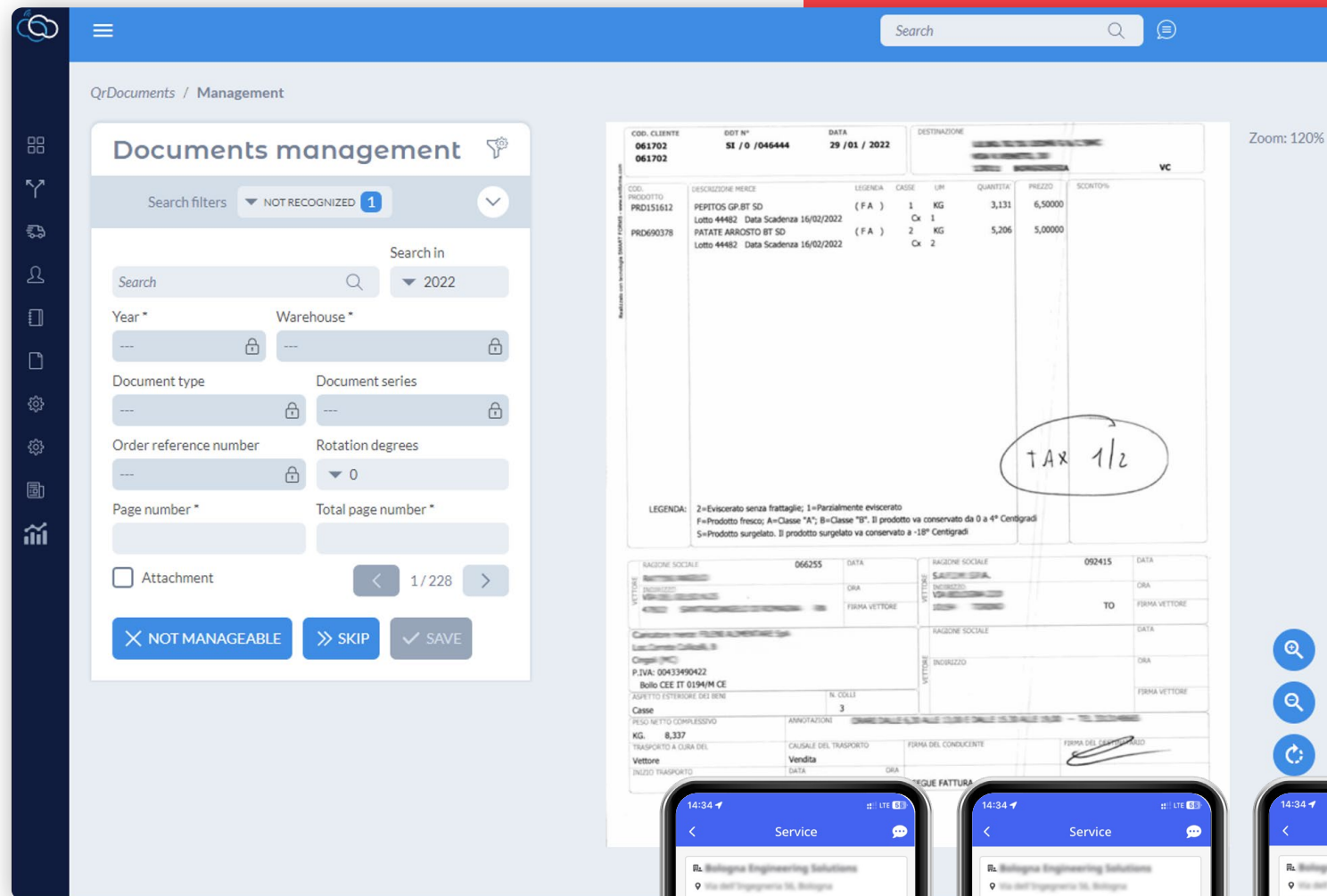
Note: 'sign on glass' is more than just a simple scribble on the screen of a tablet or smartphone.

The mobile app not only captures the digital signature but also the exact location and the exact time at which it was placed. The same applies to the photos taken of the delivered shipment and subsequently uploaded.

The registration of time and location provides additional guarantees that the shipment has indeed been delivered to the correct address. This prevents subsequent disputes and confirms your role as a reliable partner.

Extra assurance with electronic proof-of-delivery (ePOD)





## Optical recognition of documents by means of OCR

with control and reordering of pages.  
Ability to create an account for each of your stakeholders for the digital return of transport documents.

## Manual acquisition

Ability to upload documents from the web interface.

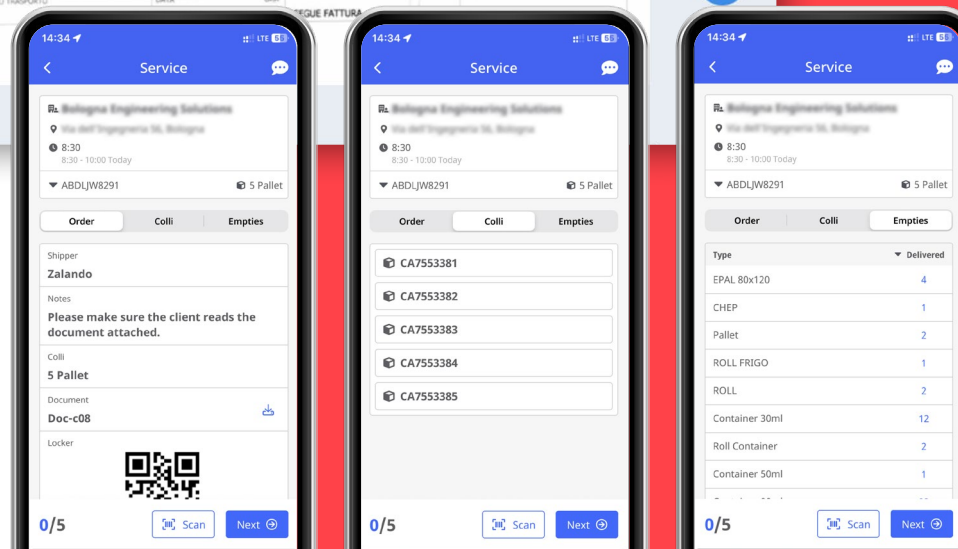
## Management of different types of documents

Ability to archive and manage the original PDF, the signed document and any attachments.

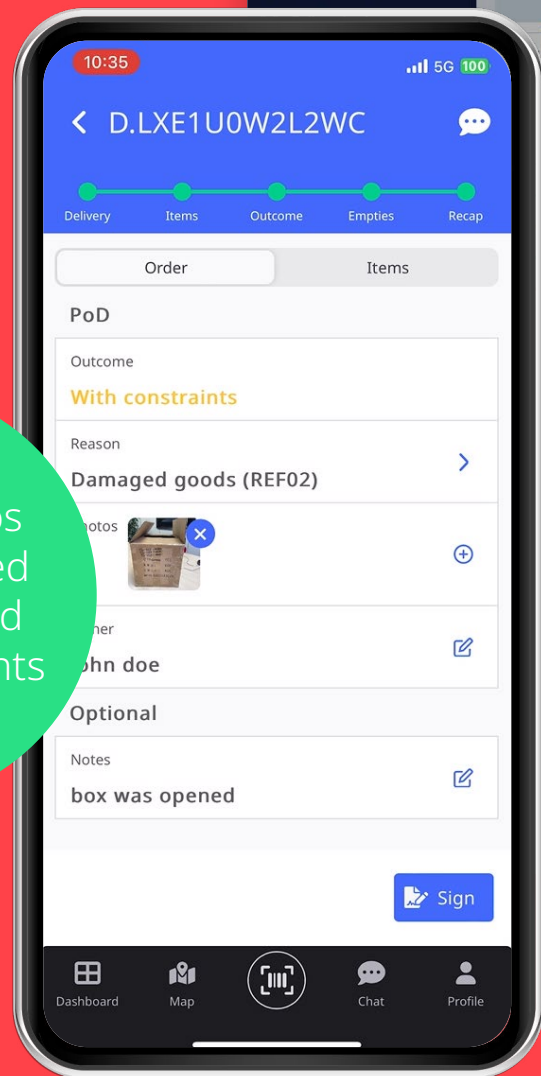
## Substitute Archiving

Possibility of powering systems already present in the company.

Track all your orders, delivered colli and register all delivered and taken-in packaging



Upload photos  
of the delivered  
shipments and  
other documents



Pictures made  
with the mobile  
app, will be visible  
within seconds in  
the control tower





PTV's technology is a winner for all the key players: drivers, partners, and also those who manage back office and customer service issues.



**Giuseppe Mariella, Logistics Director at Codé Crai Ovest**



## Reports & dashboards

Learn from the present and past to continually improve

A control tower is the tool to maintain control over the day-to-day transport operation, but also to learn from it. All real-time data are stored in a database, making it possible to analyze the routes, performance, and costs afterward.

Real-time insights into your deliveries. Get your control back!





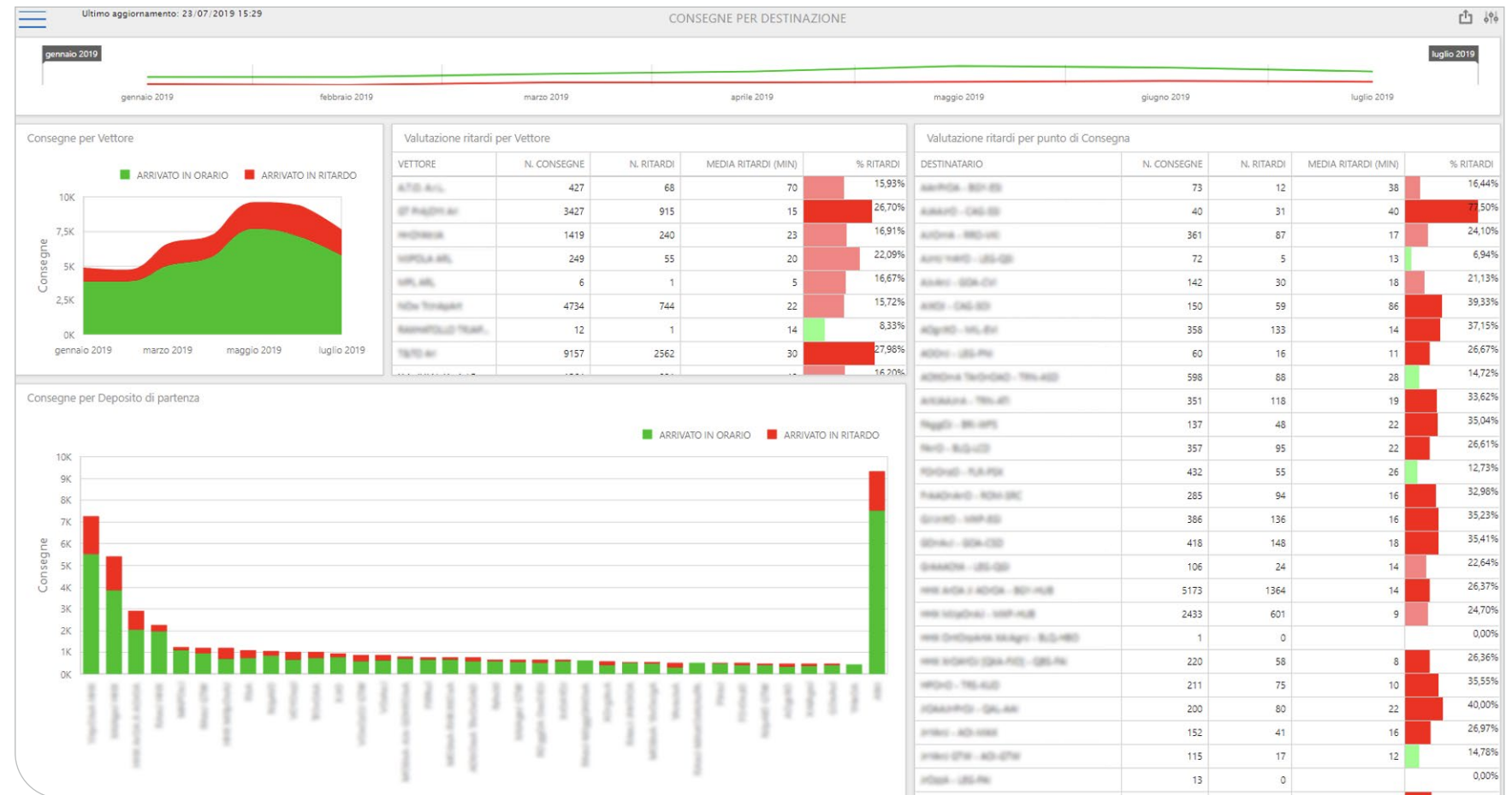
With the help of specific dashboards and reports, you keep a continuous eye on the key performance indicators (KPIs). This provides you with all the insights needed to make strategic choices or tactical adjustments.

- To what extent are we succeeding in delivering shipments on time? Should we widen time windows? Or can we make them shorter?
- Which destinations pose the greatest challenges? Is it worthwhile to engage a specialized carrier for these?
- To what extent does the execution deviate from the planning? What can we do to improve transport planning and thereby make it more realistic and reliable?
- Are we meeting the goals for CO<sub>2</sub> reduction? What investments are needed to operate not only more efficiently but also more sustainably?

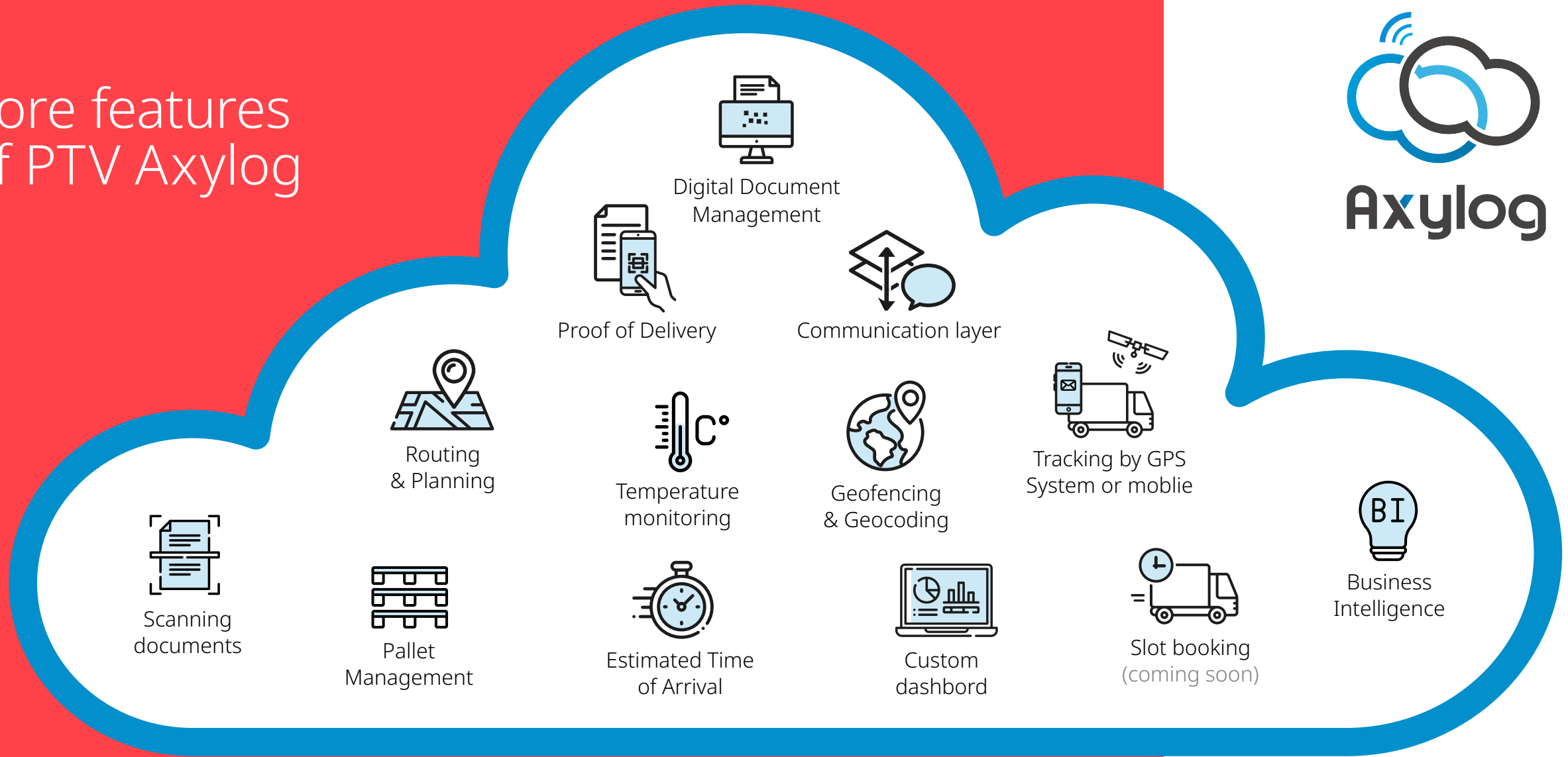
# Deliveries by destination

The screenshot represents a detailed analysis of the deliveries made at each point of destination.

The existence of inefficiencies of the logistics can be easily identified and quantified by looking to performance data on punctuality, delays, depot performance and carriers.



# Core features of PTV Axylog





# Transport Control Tower

With a control tower that offers real-time transport visibility, you are provided with new possibilities to streamline the daily transport operation. Consider the following:

- Early detection of disruptions and delays in the execution of rides
- Tracking the progress of the transport plan, detecting deviations, and adjusting as necessary
- Recalculating expected times of arrival (ETA)
- Automatically sending notifications to recipients, senders, and other stakeholders
- Creating, processing, and forwarding digital delivery proofs (electronic proof-of-delivery, ePOD)
- Making transport operation paperless by digitizing and digitally signing consignment notes (eCMR)



A control tower not only offers you a view of the present but also of the past. Various dashboards and reports answer all your questions:

What percentage of shipments have been delivered on time?

Which carriers perform the best?

Which rides or delivery addresses cause the most delays?

Which stops take more or less time than planned?

In other words: a control tower enables you to make the right tactical and strategic decisions and thereby structurally improve your transport operation.



The management of deliveries involves the tour sequence, the distance calculation and the related estimated time of arrival (ETA).

If you do not have the data necessary to manage the trips, there are tools that allow the drivers to do this directly. Drivers can indeed create their own tour and indicate the sequence of the various stops.

The representation of the data is assisted though numerical icons that indicate exactly the status of each individual delivery.

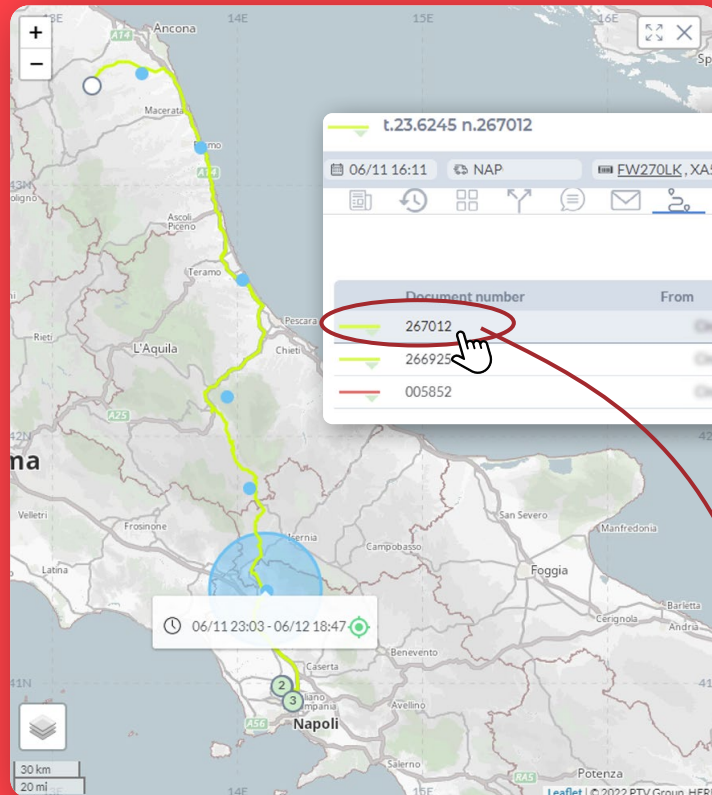
Search filters 10/12/2023 - 10/12/2023 2 OUTCOME PUNCTUALITY								
PRINT		165 Results						
	Trip nu...	Document nu...	Delivery planned ETA	Delivery arrival date	Delivery calculated ETA	Delivery city	Weight [kg]	Delivery state
	25863	3b10858c	10/12 15:38		10/12 15:03	Utrecht		Satellite position
	25863	JPA-O00110	10/12 09:05		10/12 12:07	Venlo	975	Satellite position
	25863	JPA-O00113	10/12 07:50		10/12 11:01	Reek	961	Satellite position
	25863	JPA-O00194	10/12 09:05		10/12 12:07	Venlo	9	Satellite position
	25863	JPA-O00357	10/12 14:09		10/12 13:13	Weert	950	Satellite position
	25863	JPA-O00358	10/12 13:57		10/12 13:03	Weert	880	Satellite position
	25863	JPA-O00359	10/12 13:45		10/12 12:51	Nederweert	332	Satellite position
	25864	ad69a6dc	10/12 15:11		10/12 19:34	Utrecht		Satellite position
	25864	JPA-O00077	10/12 13:04		10/12 17:08	Lichtenvoorde	63	Satellite position
	25864	JPA-O00104	10/12 10:18		10/12 13:53	Almelo	589	Satellite position
	25864	JPA-O00106	10/12 09:24	10/12 10:53		Hoogeveen	955	Positive outcome
	25864	JPA-O00118	10/12 10:50		10/12 14:23	Oldenzaal	407	Satellite position
	25864	JPA-O00122	10/12 07:50	10/12 10:33		Hardenberg	555	Positive outcome
	25864	JPA-O00124	10/12 08:51	10/12 10:36		Assen	4	Positive outcome
	25864	JPA-O00138	10/12 09:24		10/12 12:55	Hoogeveen	955	Satellite position
	25864	JPA-O00284	10/12 09:59		10/12 13:40	Vriezenveen	153	Satellite position
	25864	JPA-O00285	10/12 10:18		10/12 13:53	Almelo	589	Satellite position



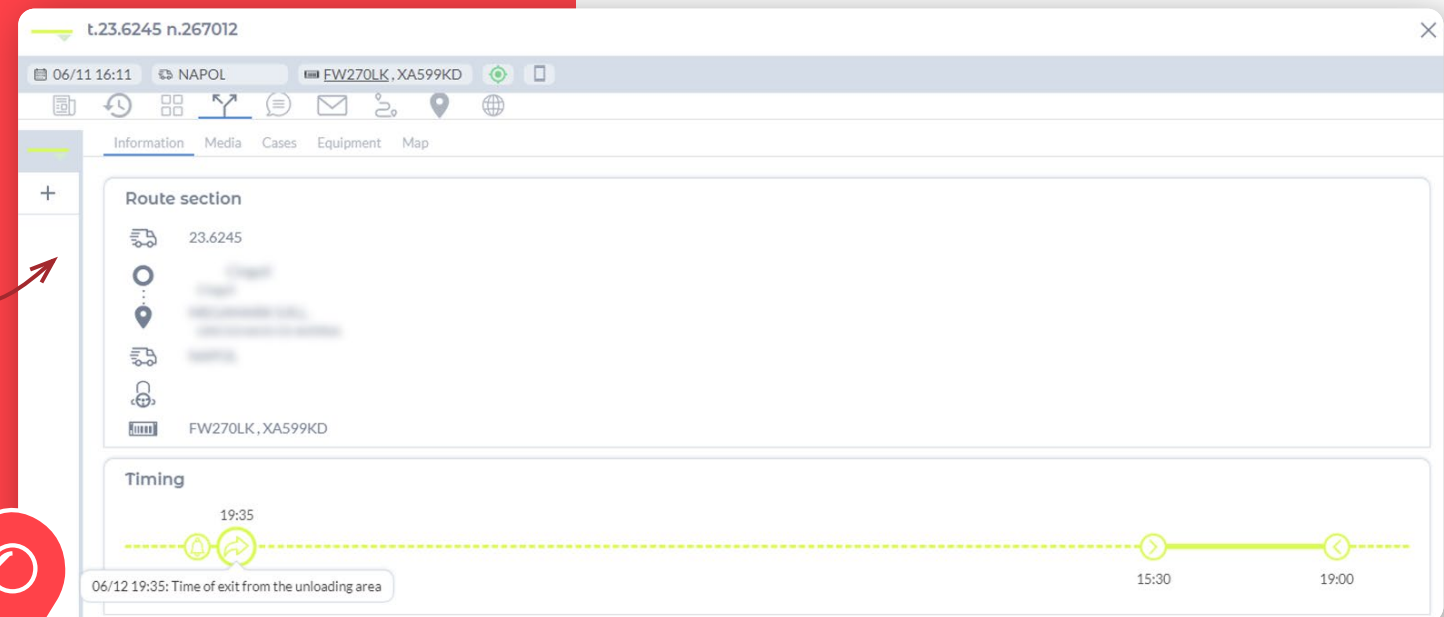
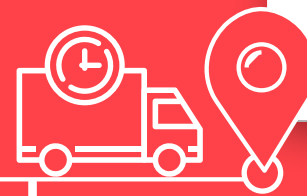




Each event is recorded, the change of a recipient, the delivery date, the arrival at the point of destination until the end of the unloading operations. All information is reported clearly and legibly. The data of the interchanged equipment are also associated with the delivery.

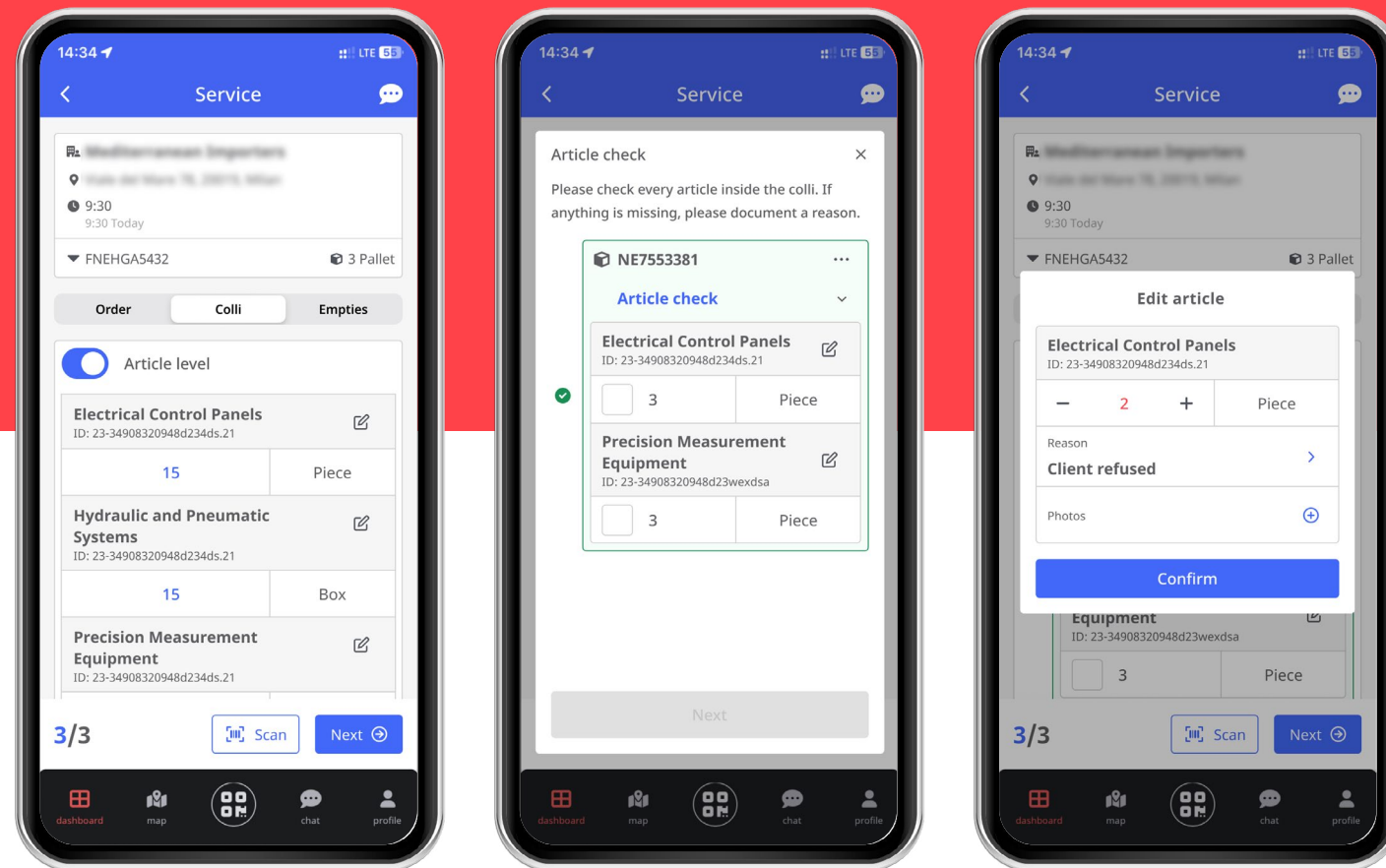


The information of the entire route and the related stages are shown both in text and graphical mode. For each stage, the route and the estimated ETA are shown.



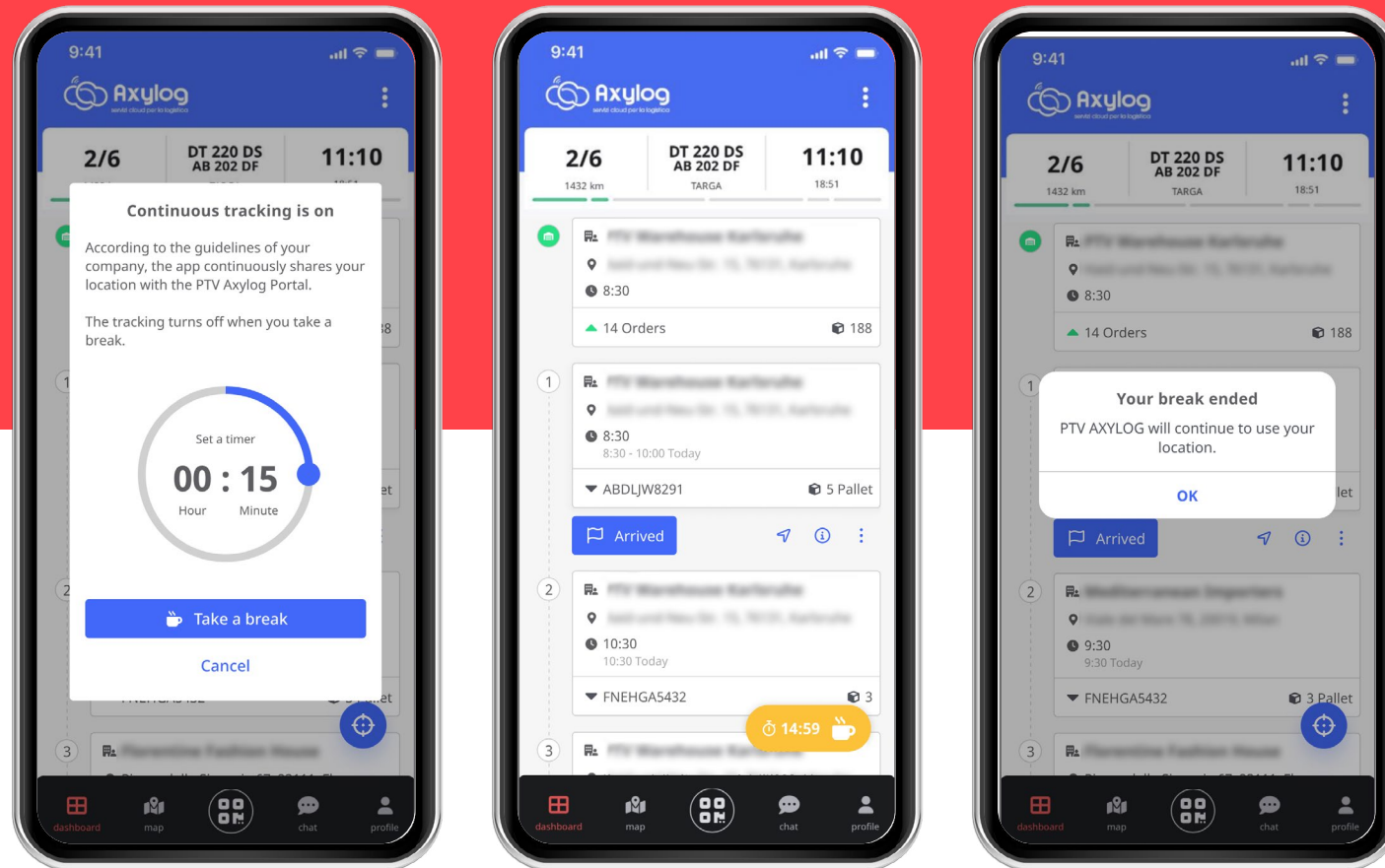
# PTV Axylog App & Proof of Delivery

## Proof of Delivery on article level



# PTV Axylog App & Proof of Delivery

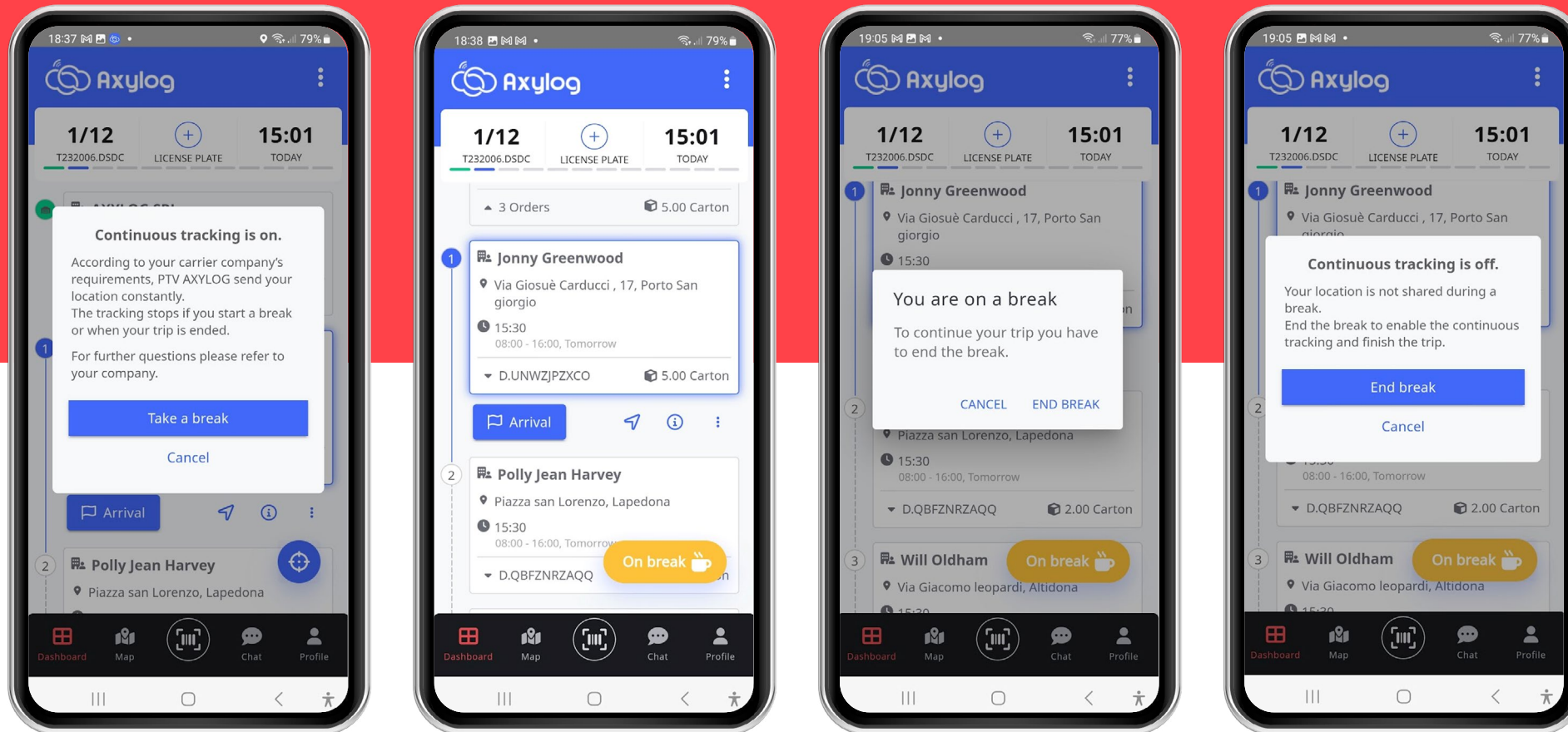
## Plan a break with the PTV Axylog App





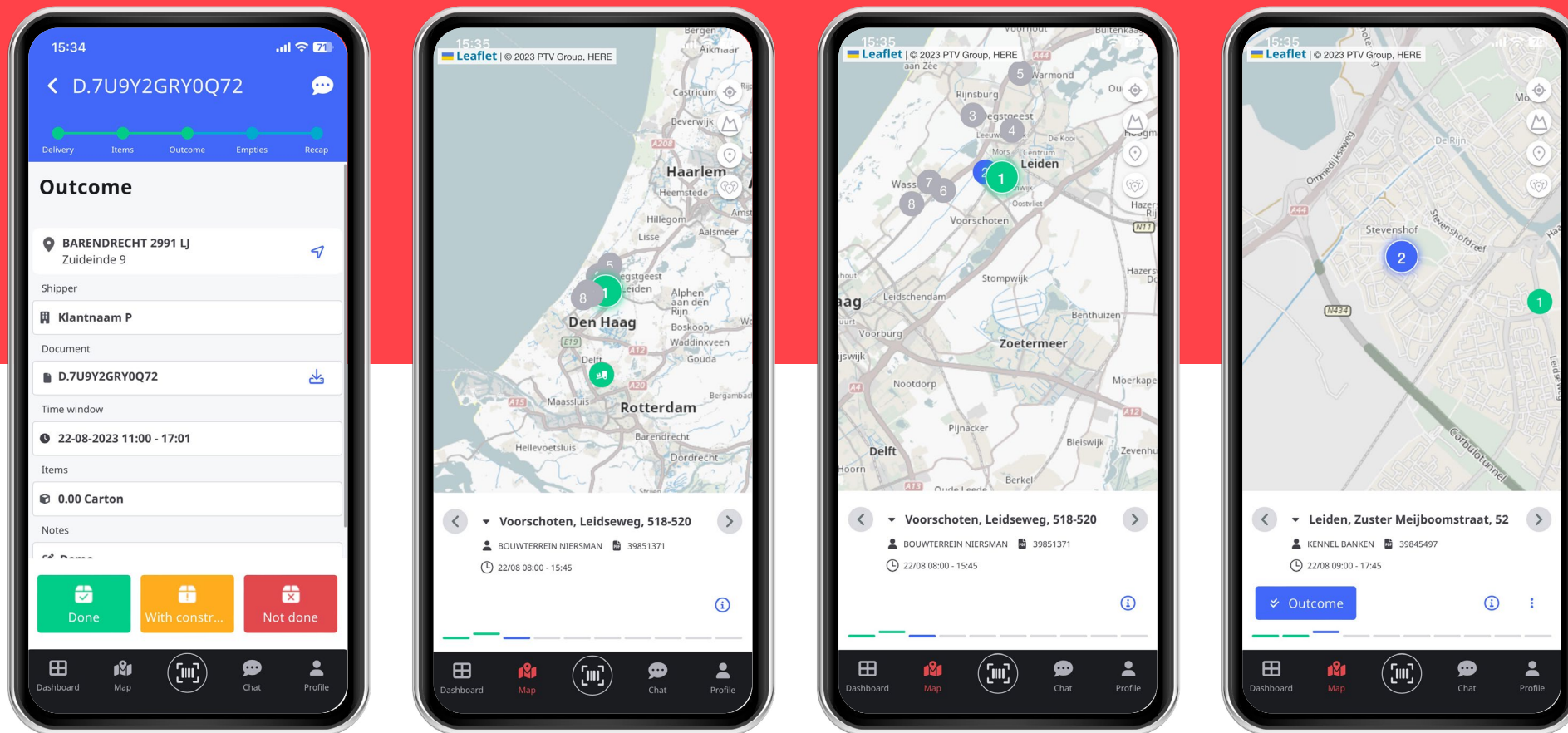
# PTV Axylog App & Proof of Delivery

**Continuous tracking will be disabled during your break**



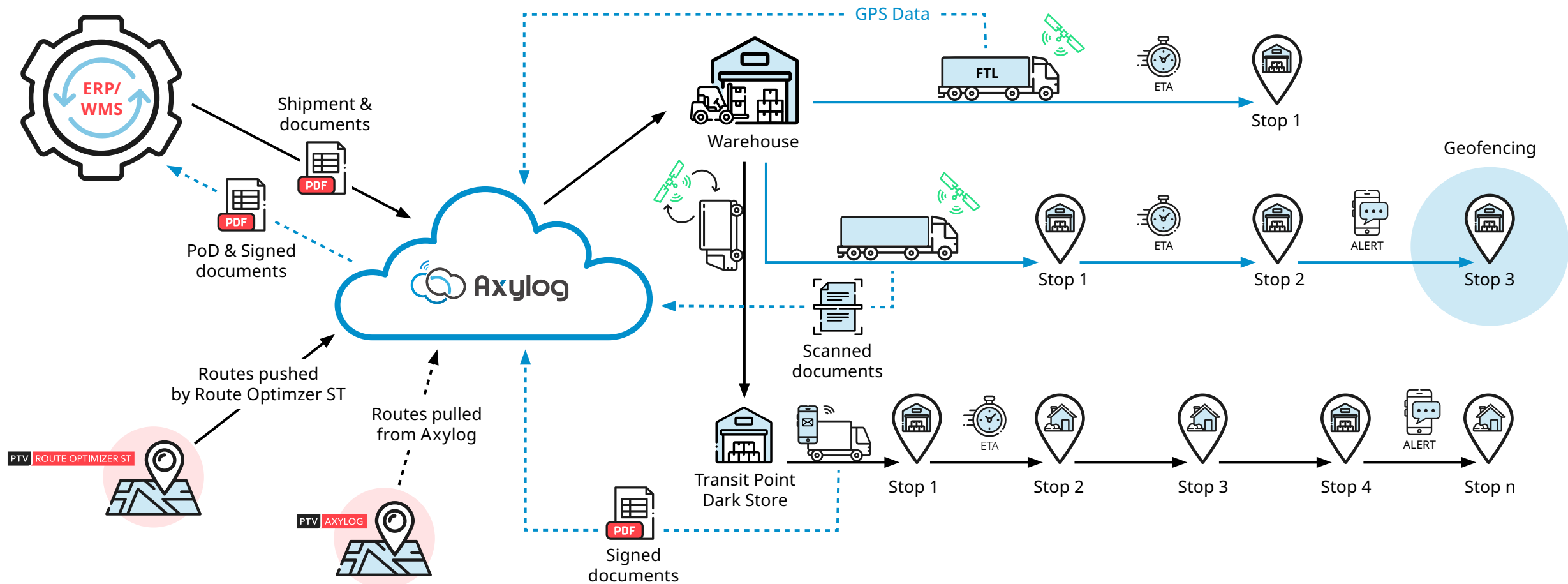
# PTV Axylog App & Proof of Delivery

Track your vehicles in the PTV Axylog app



# What can you do with PTV Axylog?

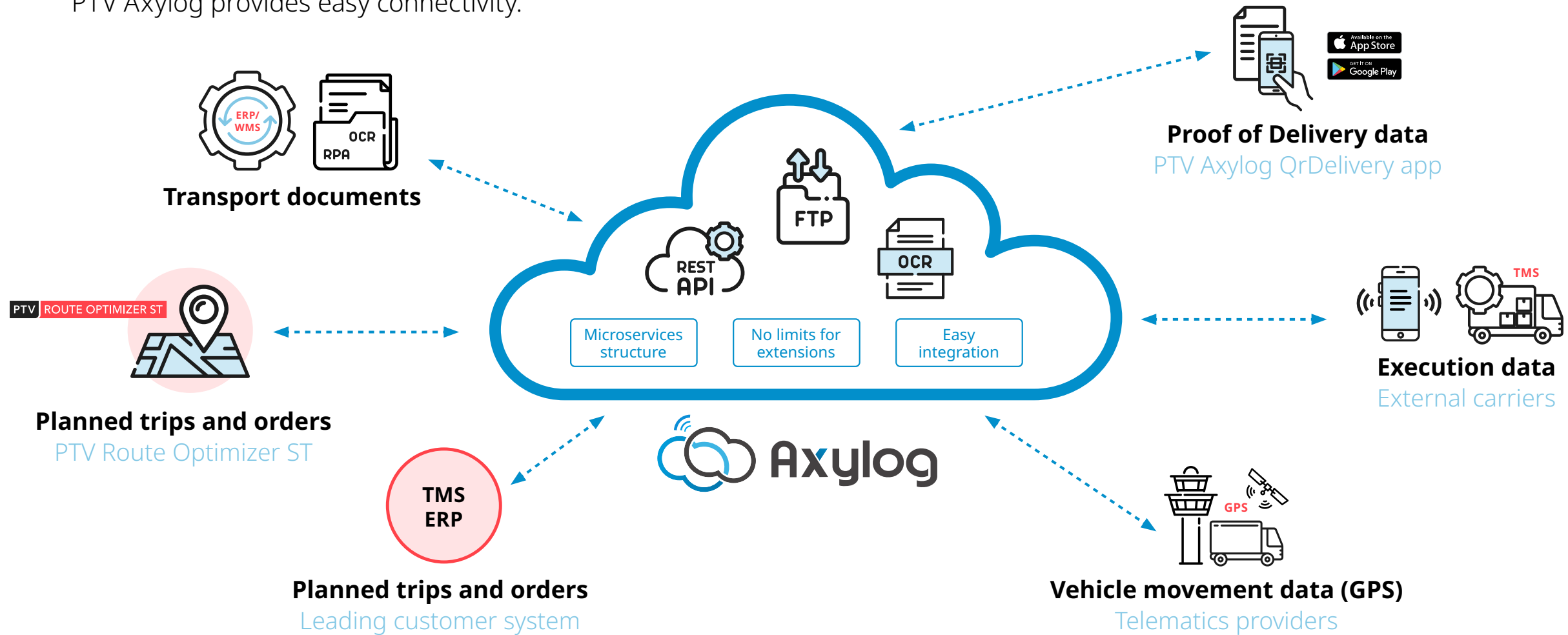
PTV Axylog provides the unique and central SaaS platform of system connectivity and information exchange along the entire transport network and its different stakeholders.





# How does it work?

PTV Axylog provides easy connectivity.

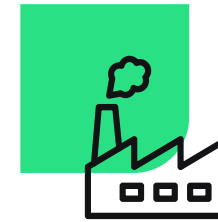


# Who should use PTV Axylog?

PTV Axylog is also flexible, supporting all types of deliveries, from first to last mile (FTL, LTL, CEP), and any type of goods. It also works with third party apps (including ePOD) and external databases, allowing you to integrate it seamlessly into your current systems.



Retailers



Manufacturers



Logistics operators



**FTL**



**LTL**



**Parcel**



**Last mile**



# PTV Axylog offer

Get full control of your delivery process.



## Product Package 1 Proof of Delivery (PoD)

- Sign on glass, photo and status documentation (incl. reporting of damaged goods)
- Barcode scanning at pickup and delivery location (in full delivery)
- Empties management (pallets, containers)
- Chat between planner and driver (order related)



## Product Package 2 Control Tower

- Transport visibility for internal fleet and external carriers (single place of truth)
- Tracking trips and orders in execution (ETA)
- Tracking and tracing vehicle positions
- Detecting arrival and departure without interaction of drivers (geofencing)
- Detecting and managing anomalies



## Add on Document Management

- Including external documents in the PoD workflow (Axylog portal, mobile App)
- Managing external documents in the Control Tower (Axylog portal)





## The conclusion?

# PTV Axylog: The transport visibility platform that empowers your company

The knowledge and experience of your transport operations team are invaluable. Their insights and interventions are crucial for the quality of the transport operation and the satisfaction of customers and recipients.

So why let them spend a significant part of their day manually gathering and analyzing data, making phone calls and sending emails to drivers and other stakeholders, and making estimations based on gut feeling rather than actual facts and figures?





PTV Axylog is the control tower that puts your planners in the driver's seat. They can closely monitor the progress of the transport operation and intervene immediately when necessary. They no longer waste time on various administrative tasks but can focus their attention on continuously improving the transport operation and customer satisfaction.

PTV Axylog is a cloud solution that is easy to link with any TMS, WMS, or ERP system, so your planners have access to all relevant data. PTV Axylog has real-time connections with more than 45 telematics systems, giving you a view of the current locations of all your vehicles.

# What our customers say:



*"We needed a stable solution, easy to implement and widely adopted or adoptable not only within the food world."*

**Roberto D'Angelo**

Head of IT @ Fileni



*"We highly appreciate PTV Axylog in terms of product traceability and transport tracking. We can unreservedly recommend PTV Axylog and their service."*

**Salvatore Di Matteo**

Customer Logistics Team Manager @ Findus S.P.A.



*"At all times, we know whether an order is being prepared, planned for shipment, or being delivered. This makes us faster, more efficient, and more productive."*

**Luca Mancusi**

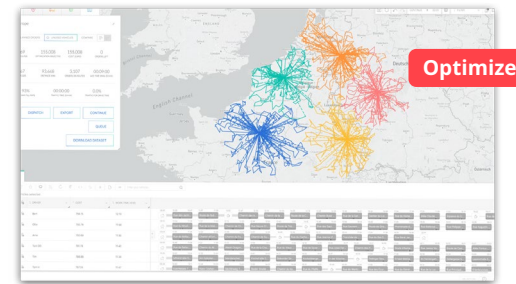
Continuous Improvement Manager  
@ Linea Catering (Gerli Group)



# Our related products

Customers in more than 120 countries boost the efficiency and transparency of their logistics, along with employee and customer satisfaction by using our software solutions. Discover our portfolio and find the solution that will enable you to optimize your transport processes.

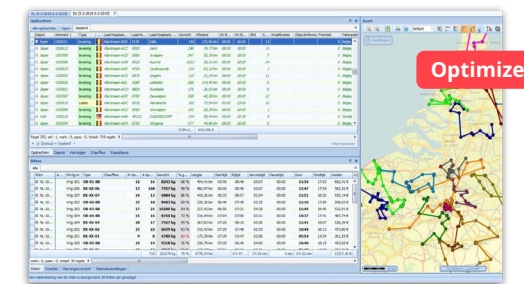
**Plan. Optimize. Execute.**



## AUTOMATED SAAS ROUTE OPTIMIZATION

### OptiFlow

Your comprehensive solution to help you streamline logistics operations and drive sustainable growth.



## BOOST FLEET UTILISATION

### PTV Route Optimizer

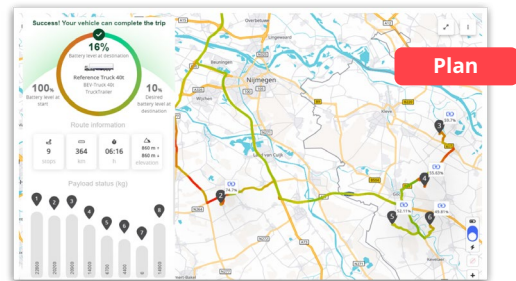
Route Optimization & delivery routing that unlocks the full potential of vehicle fleets.



## RELIABLE TRUCK NAVIGATION

### PTV Navigator

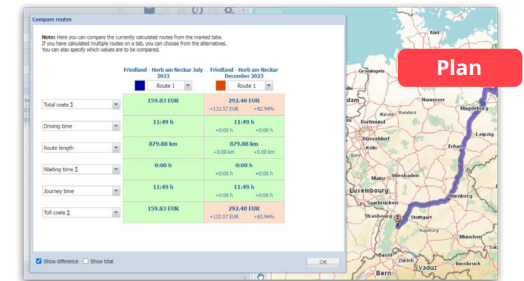
Truck navigation with up-to-date maps and traffic data.



## EV TRUCK ROUTING SOFTWARE

### EV Truck Route Planner

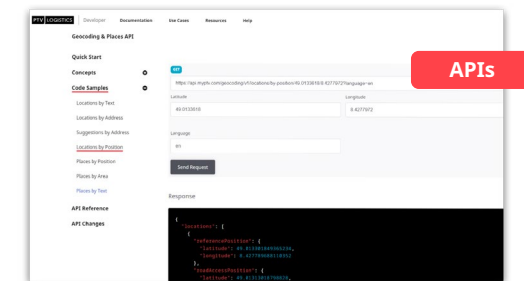
Scan our database to find suitable commercial eTrucks & eVans for your company. Compare their performance and range, and plan their routes.



## TRUCK ROUTE PLANNING SOFTWARE

### PTV Map&Guide

Efficient truck route planning and transport cost calculation.



## LOCATION SERVICE APIS

### PTV Developer

PTV Developer offers high-performance APIs that enrich your software solution with logistical and geographical functions.

## Why PTV Logistics?

# Plan. Optimize. Execute.

Unlock your savings potential and make your transport and delivery operations more efficient with our cutting-edge software.

Our commitment lies in empowering all types of businesses, ranging from startups to enterprises. Whether your operations encompass manufacturing, retail, home delivery, or any transport-reliant industry, we enhance your endeavors.

With the software of PTV Logistics every route is optimized, every decision is based on data, and all shipments remain monitored, transitioning seamlessly from the planning phase to flawless execution.



**300+**  
employees  
global



**20+**  
locations all  
over the world



**40+**  
years of experience in  
transport & logistics



**15%**  
average savings  
on transport costs

## Our customers



We exist to empower businesses, reduce costs,  
and minimise environmental impact.

**Plan. Optimize. Execute.**

# Routing, optimization & real-time visibility technology

With the software of PTV Logistics every route is optimized, every decision is based on data, and all shipments remain monitored, transitioning seamlessly from the planning phase to flawless execution.

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**PTV** | **LOGISTICS**