Kardinal

PARCEL DELIVERY

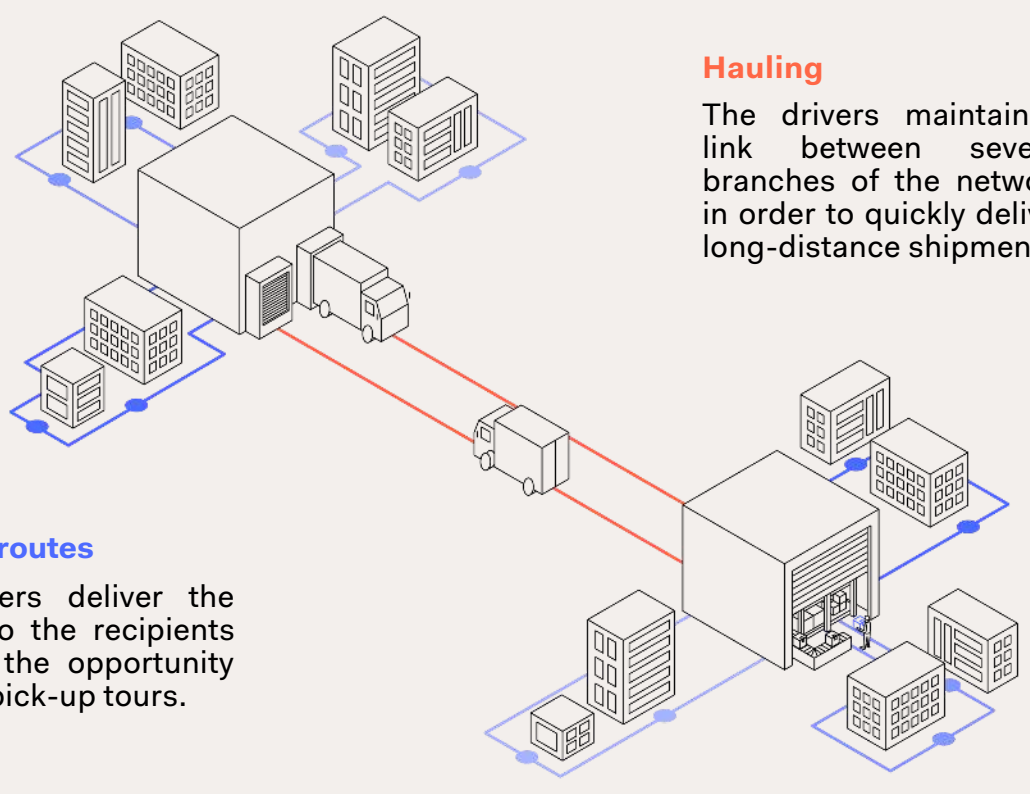
Description and optimization of the last mile

Parcel delivery is a transport service that moves parcels or goods from the sender to the recipient within a short period of time. It requires the carrier to make at least one stop at a platform for the goods to be sorted before being delivered.

Comparison of the different types of parcel delivery

	Parcel weight	Delivery time
Conventional parcel delivery	Between 30kg and 3t	24 to 48 hours
Single-parcel parcel delivery	Under 30kg	24 to 48 hours
Fast parcel delivery	Under 30kg	Max. 24 hours
Express parcel delivery	Under 30kg	Under 24 hours

Parcel delivery routes



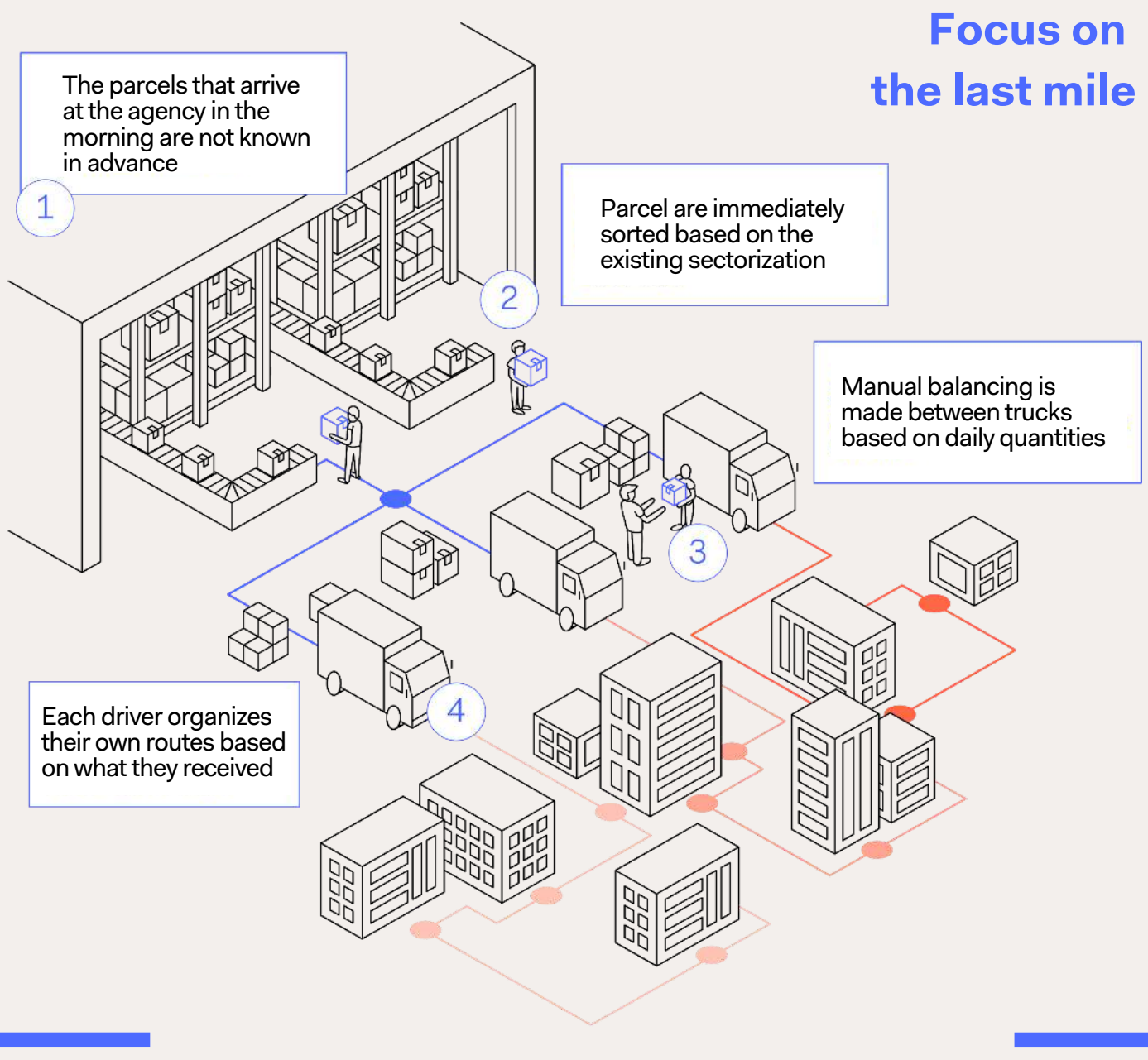
Hauling

The drivers maintain a link between several branches of the network in order to quickly deliver long-distance shipments.

Delivery routes

The drivers deliver the parcels to the recipients and use the opportunity to make pick-up tours.

Focus on the last mile



- Just-in-time processes: unloading, scanning and sorting of the parcels are all carried out simultaneously and the entire process can take up to two hours.
- The transport partners are entrusted with a territory that they manage autonomously, without any hierarchical relationship between the delivery drivers and the parcel delivery company.

Up to

24 %

of the parcels are moved from their initial tour to a new tour each morning depending on the day's activity.

A route optimization in two steps

Route optimization consists in defining :

WHO DELIVERS WHAT AND IN WHAT ORDER

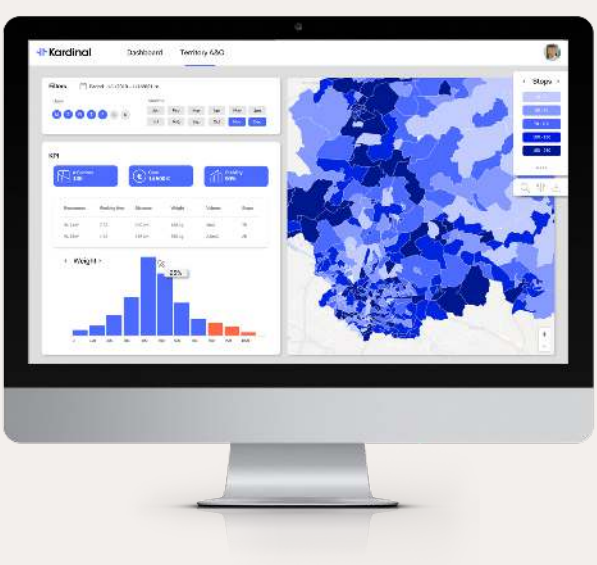
Dispatch — Scheduling

Traditionally, optimization software solves both parts of the mathematical problem simultaneously. But not in parcel delivery. In parcel delivery:

1. The dispatch is carried out by the sectorization of the territory. It is static (not recalculated every day) and optimized by the branch managers through successive adjustments.
2. Scheduling is managed by the drivers, thanks to their knowledge of the field or with the help of a scheduling tool for the day's tour.

The TAO solution to meet the challenges of parcel delivery

Kardinal has developed TAO (Territory Analytics & Optimization), its new strategic sectorization solution for the parcel delivery industry.



- Optimal sectorization of the agency's territory
- Real-time visualization and management
- Monitoring and reporting
- Simulations and predictions

LEARN MORE ABOUT TAO

ARE YOU INTERESTED IN THE SUBJECT OF PARCEL DELIVERY?

READ OUR ARTICLES ON THIS TOPIC

Are you looking to improve the management and optimization of your business?

Contact us to discuss it!

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