LOGISTICS & CURBSIDE SOLUTION
Better deliveries for smarter cities

In 2024, one-third of cities' carbon emissions will come from last-mile deliveries and these deliveries are projected to increase by 80% over the next six years. Heavy-duty trucks and delivery vehicles are major contributors to air pollution and traffic congestion, as delivery drivers spend an average of 70 minutes a day searching for parking. In an increasingly complex logistics landscape, cities and fleet operators need better data and tools to ensure safer streets, cleaner air, and more efficient operations. This is where our tools come in.

Understand Stop Activity
Build the digital infrastructure to manage the access to a city's curbs and communicate the policies to its users.
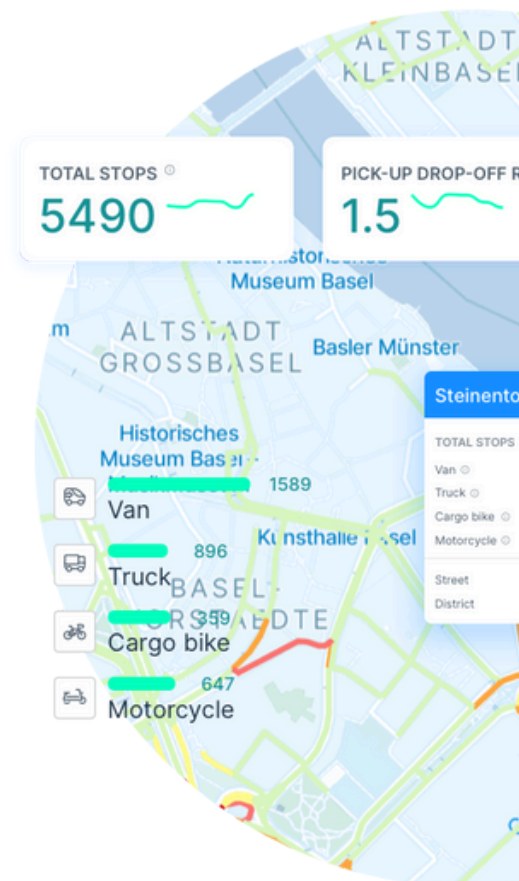
Optimize Logistics Flows
Use connected vehicle data to understand where deliveries are coming from- and going to, to reduce traffic and improve air quality
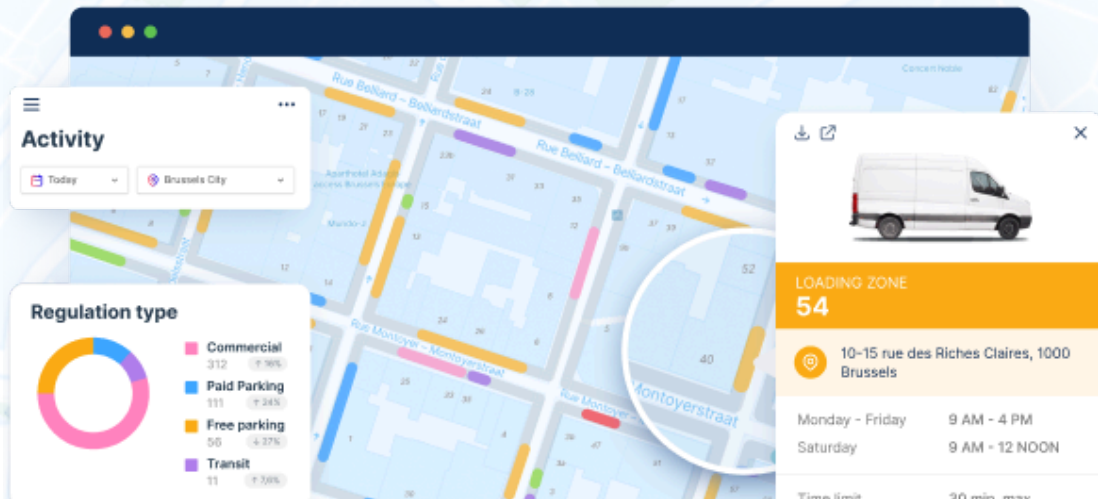
Use AI to Tame the Chaos at the Curb
Set parameters to aggregate data, build predictive models and identify the best locations for new loading zones to meet modern needs, while improving efficiency

Join cities such as Paris, Montreal and Stockholm, who all trust our Curb & Logistics Management solution.

VIANOVA
The good data to make cities greener

Vianova is the data analytics solution to operate the mobility world. Our platform harnesses the power of connected vehicles and IoT data, to provide actionable insights to plan for safer, greener and more efficient transportation infrastructures.

LOGISTICS DATA PRODUCTS BY VIANOVA

1 Curb Events by Vianova

Tracks real-time or historical stop events of commercial vehicles in any city, observed as individual events

Available Data Fields: (aligned with the Open Mobility Foundation's Curb Data Specification for Events): Event ID, Event Type, Data Source Type, Vehicle ID, Vehicle Type, Propulsion Type, Event Purpose.

Aggregation: By Event

Answer Questions such as: What is happening on my curb? Which curb is available or occupied in real time? Which vehicles are compliant with curb regulations?

2 Curb Metrics by Vianova

Track curb usage by aggregating stop events of commercial vehicles in any city, by any geography (road segment, study area, district, etc.)

Available Data Fields: (aligned with the Open Mobility Foundation's Curb Data Specification for Metrics): Curb ID, Total Sessions, Turnover, Average Dwell Time, Occupancy Percent

Aggregation: Hourly or other Frequency (daily, weekly, monthly) by Curb Segment or Custom Geography

Answers questions such as: What streets/curbs see the most stops? What time of day is the most congested for curbs? Where are the best locations for co-delivery hubs? How effective are existing loading zones? How can I improve turnover at loading zones?

LOGISTICS DATA PRODUCTS BY VIANOVA

3 Logistics Flows by Vianova
Follow the origin and destinations of vehicles, see frequently used travel corridors

Available Data Fields: Total Trip Start, Total Trip End, Avg Trip Distance, Avg Trip Duration

Aggregation: Hourly or other Frequency, Monthly, Weekly, Daily, and by Hexagrid, road segment or any Custom Geography

Answers questions such as: What share of deliveries originate outside my city? How many stops does the average commercial vehicle make? What share of commercial vehicle traffic is pass-thru? What are the most heavily used corridors? What trips can I convert to cargo bikes? How many road deliveries can be diverted to waterways?
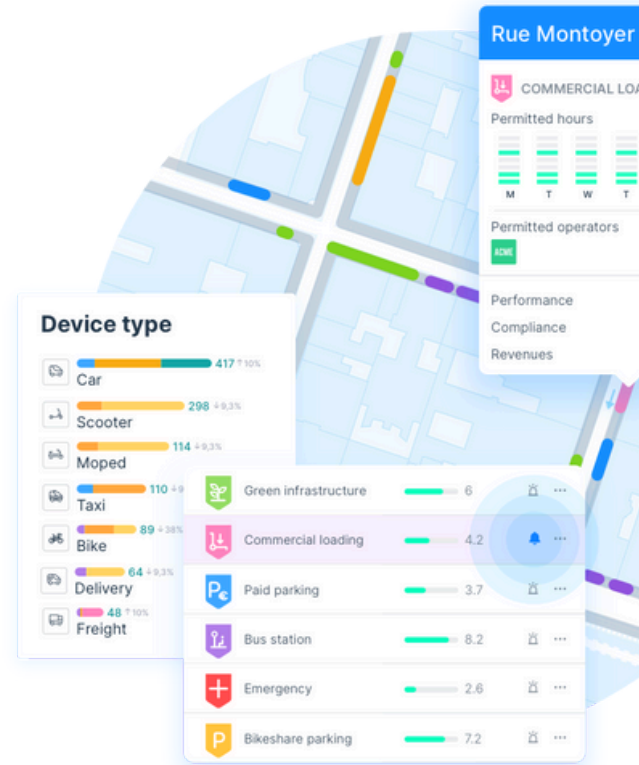
4 Curb Regulations by Vianova
Communicate curbside policies and regulations to curb users and monitor compliance, and notify commercial vehicles of disruptions and detours.

Available Data Fields: (Aligned with the Open Mobility Foundation's Curb Data Specification for Curbs): Curb Zone, Available Spaces, Availability Time, Street Side, Priority, Rules, Time Span

Answers questions such as: What rules apply to commercial vehicles in this location? What temporary restrictions are present on our curbs? How many vehicles are parked illegally? What is the average duration of an illegal event? What fine should I charge to a non-compliant company Which regulations are active on any defined curb?
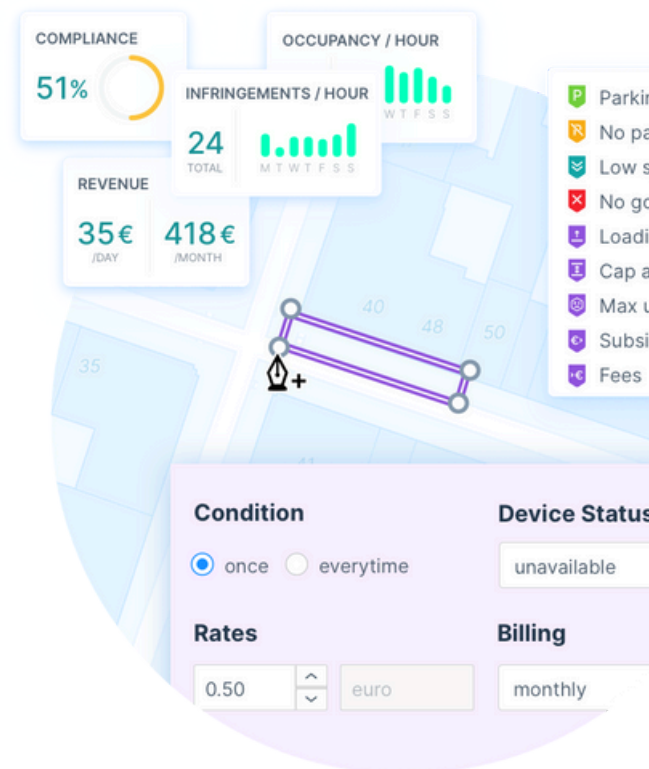
VIANOVA
The good data
to make cities greener

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OUR DATA SOURCES & PARTNERS

Vianova's data products are built using data from millions of connected vehicles and cell phones from some of the leading providers in the industry.

Mobility operators & micro-mobility
Google Maps, TIER, SPIN, BIRD, STRAVA, voi., Lime, SHARENOW

Telco & GPS data (pedestrian flows)
orange™, Singlespot, vodafone, ONEMATA

Telematic & Commercial vehicles (Probe data)
BRIDGESTONE Mobility Solutions, masternaut, Allstate, Continental, GEOTAB

OEMs
Renault Group, TOYOTA, BMW, VW, STELLANTIS, Mercedes-Benz

IoT data (air quality, charging stations, ...)
dpd, eco-mo>ement

Your Own Data
TRANSPORT FOR LONDON EVERY JOURNEY MATTERS, PARIS AÉROPORT

Geographies
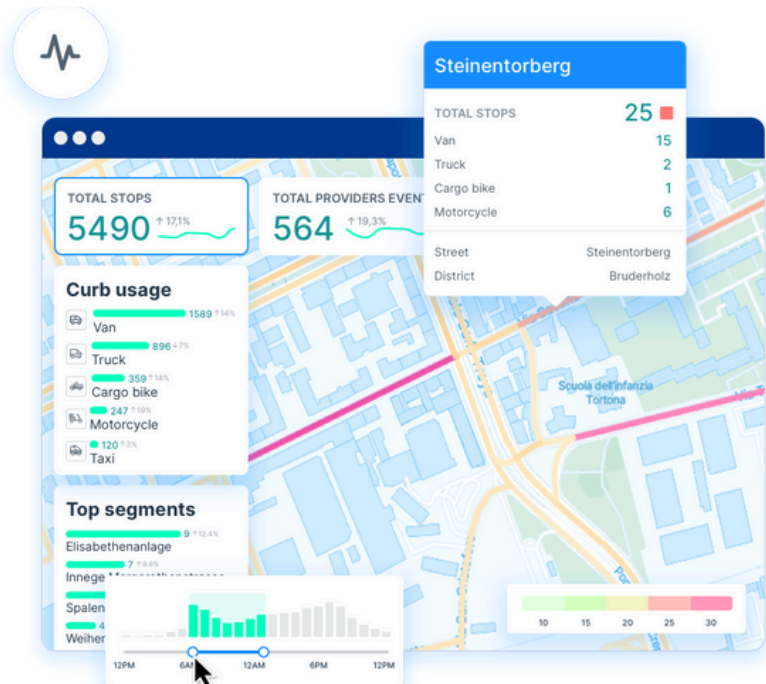EUROPE, US & CANADA, MIDDLE EAST

OUR PLATFORM

Vianova's analytics platform is designed to help you exploit our data products to the utmost, generating actionable insights to reduce the chaos at the curb, and execute your curb policies.

Spatial Analysis

Build easy-to-read maps identifying hotspots for curb activity or the most common pairs of origins and destinations
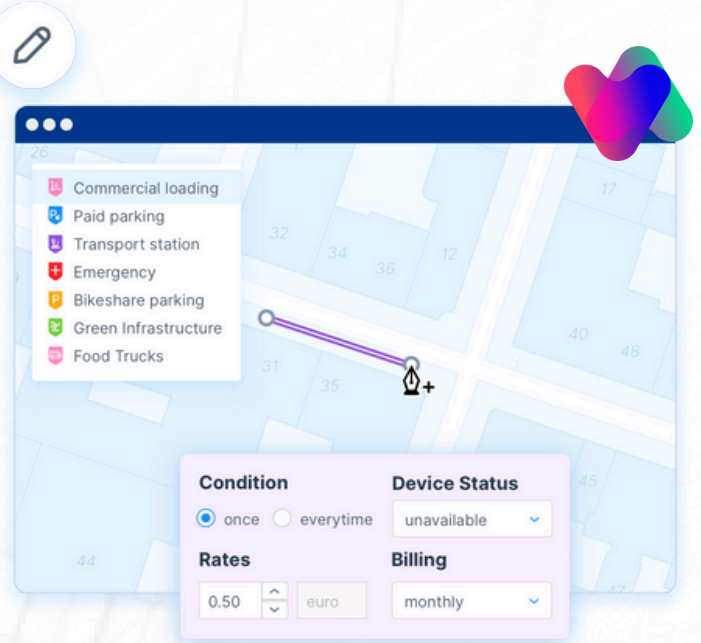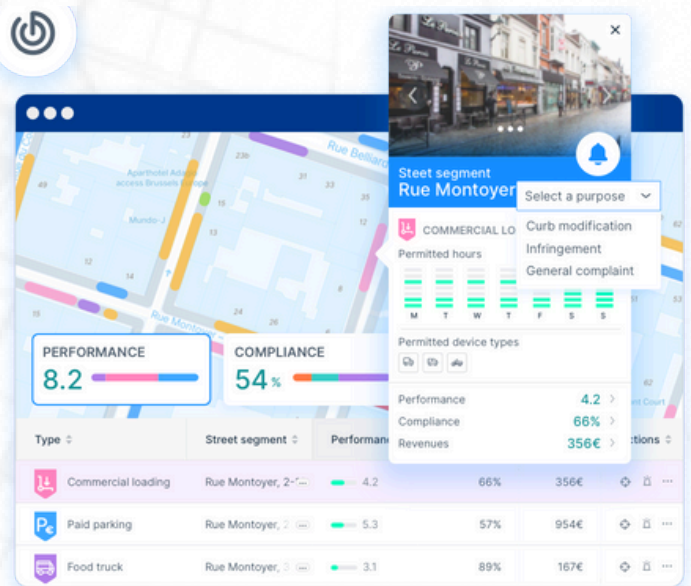Sort and filter data quickly, and save results for easy communication with others.

Infrastructure Planning

Connect to your existing asset management system, or use our tools to design your changes to loading zones, logistics hubs, and freight corridors
Quickly enact temporary or permanent changes and push them directly to your curb users


Real-Time Monitoring:

Track the performance of your curbs and roadways, set alerts and receive push notifications about abnormal behaviour and respond in real-time to specific situations


Reporting and Trend Analysis

Build easy-to-read maps, identify hotspots for curb activity or the most common pairs of origins and destinations and sort and filter data quickly. Last save results for easy communication with stakeholders.
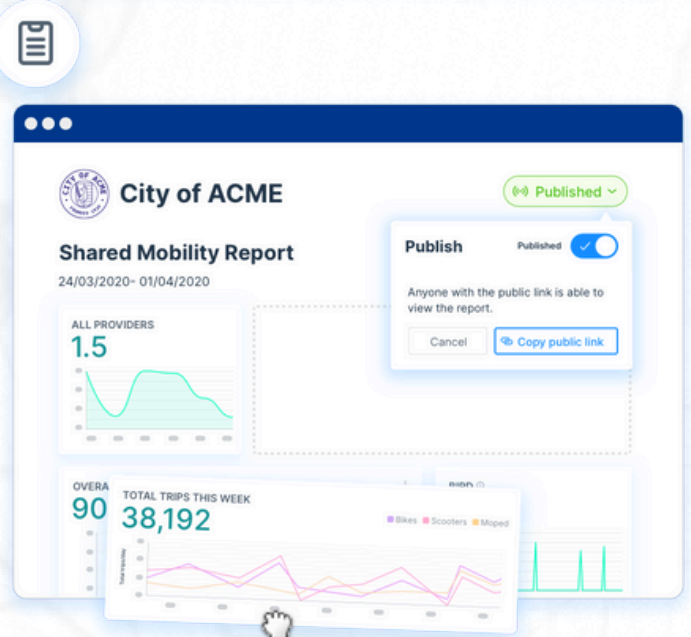
SUCCESS STORY: CITY OF PARIS

The City of Paris is on a quest to dramatically reduce curbside parking and facilitate more delivery by more sustainable modes. Learn how the city has used Curb Events by Vianova and our analytical platform to solve some of their biggest challenges around loading zone management.
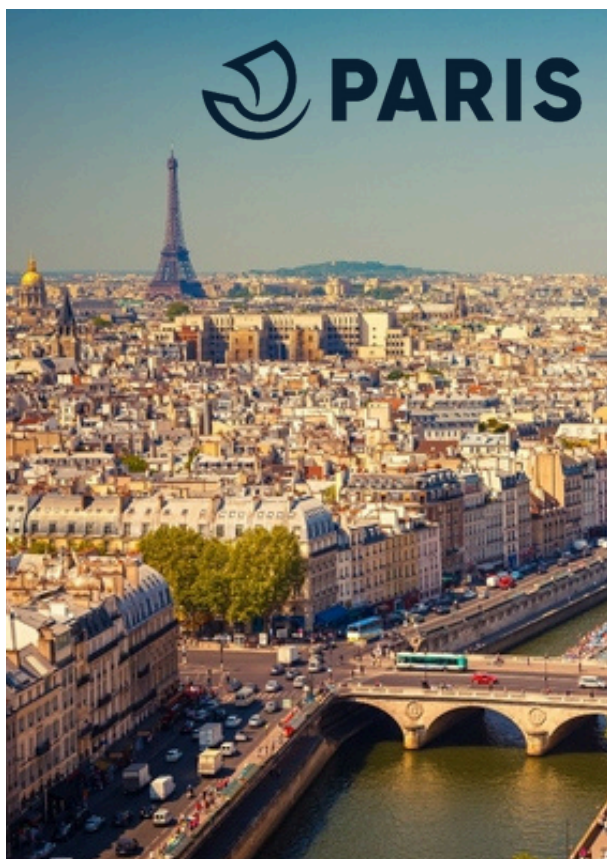
How are our existing loading zones used?

By mapping stop events against the existing curbside loading zones, the city discovered that only approximately 30% of commercial vehicle stops were occurring at the dedicated infrastructure - creating significant double-parking problems and traffic congestion.

How can we support transition to sustainable modes?

The city was able to identify more than 25,000 locations where stops by battery electric vehicles were long enough to use a curbside charger. This insight is supporting better station planning and driving the shift to decarbonized logistics.

Where should we build new loading zones?

Using our machine learning algorithms, Vianova identified 500 new potential loading zone locations to serve demand from retailers while minimizing impact on traffic and avoiding conflicts with pedestrians and cyclists.