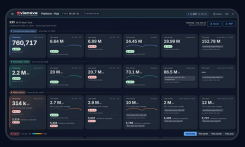
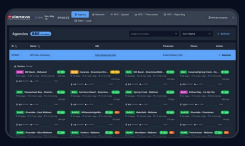
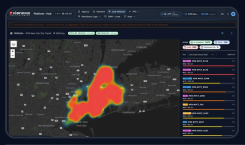
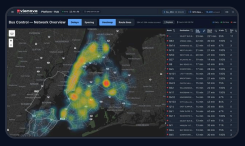
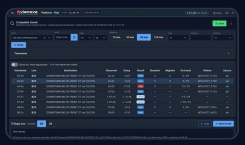
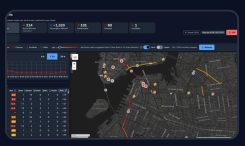
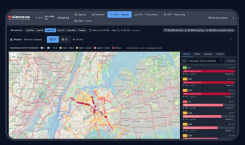
PLATFORM HUB · WHAT IT IS · WHAT EVERY VIEW ANSWERS

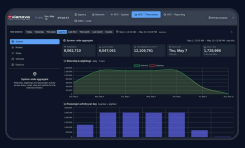
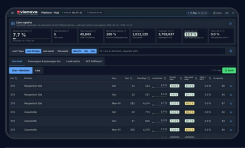
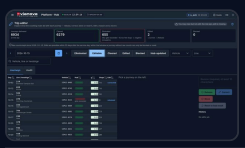
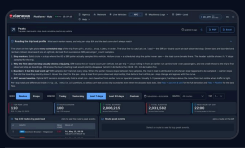
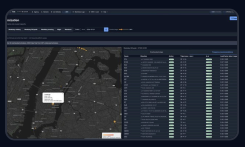
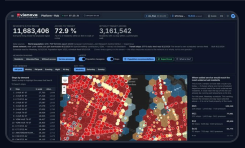
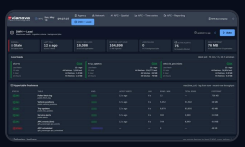
The Platform Hub at a glance.

The Vianova Platform Hub is a browser-based operations and analytics platform for public transport. It takes the data streams an operator already has - GTFS and VDV 452 timetables, GTFS-Realtime or SIRI vehicle positions, automatic passenger counts via SIRI or VDV 457, HERE road traffic and population rasters - and turns them into one coherent, live picture of the network. Every bus appears on the map within seconds, coloured by crowding and graded against the timetable; every boarding and alighting is counted, assigned to a stop and aggregated to 10-minute, hourly and daily resolution. On top of that counted history the Hub plans ahead: it forecasts demand up to 14 days out, finds overbooked stops, recommends where to add or reduce trips and shows how well the network serves the people who actually live along it. For German operators the complete VDV 457 counting chain is built in - balancing, data quality, trip editor and audit-ready line reports. Every view answers a concrete question an operator asks every day, from the morning KPI page to the complaint check at a single stop. The Hub is multi-tenant, runs in the browser without installation, speaks English and German, and exports every number to PDF, Excel and an open API.

The views - and the question each one answers

VIEW	NAME	ANSWERS THE QUESTION · WHAT YOU SEE
	**KPI** OVERVIEW	**How did yesterday go, and how is the month running?** Passengers carried, kilometres driven and vehicles in operation for yesterday, week, month and year - finalised counts, change against the previous period, Top-5 routes.
	**Agency** OVERVIEW	**Which routes of this agency are busiest right now?** Live route list of the selected operator with riders on board, vehicles in service and the latest count - the morning status round on one screen.
	**Network** OVERVIEW	**Where does this route go, and how are its stops doing right now?** Interactive 2D / 3D network map: pick a route, see its stops and live occupancy, ride along a bus in the photorealistic 3D view.
	**Live Vehicles** LIVE VIEW	**Where is every bus right now, is it crowded, is it on time?** Every vehicle in 2D or 3D, refreshed every 15-60 s, coloured by occupancy, with delay and trip; a crowding heatmap when you zoom out.
	**Bus Control** LIVE VIEW	**Which routes are late or bunching right now - and where on the line?** Delay and spacing lenses per route and per bus, delay heatmaps, focus on a single line; the colour bands are yours to tune.
	**Complaint check** LIVE VIEW	**Did bus X come at stop Y at time Z - how late, how full?** Reconstructs a single stop event from archived arrivals and counts, with an editable reply text and Excel export for the customer-service desk.
	**Traffic Status** LIVE VIEW	**Is road traffic hitting my routes right now, and which buses are caught in it?** HERE jams, incidents, closures and roadworks matched to your routes; stuck buses with the riders on board, per network and per route.
	**Spatial** APC	**Where did passengers get on and off in a chosen time window?** Boardings, alightings and load per stop, route or district on the map - live snapshot or replay in 10-minute steps, up to 30 days back.

The views, continued

VIEW	NAME	ANSWERS THE QUESTION · WHAT YOU SEE
	**Time Series** APC	**How did passenger flows change over time, and when does the peak start?** Trends per route, stop, vehicle or whole system at 10-minute, hourly or daily resolution; weekday × hour heatmaps; live tail of today.
	**Data quality** APC	**Which buses deliver counts, which do not - and was it the counter or the feed?** Per-vehicle delivery lanes, feed gaps and counter outages per day, so missing data is explained before anyone has to ask.
	**Line reports** APC	**How full are the buses of a line, and did every planned trip get counted?** Load, passenger-km, load matrix and counting fulfilment per line, each trip against its vehicle's real capacity; network and district matrices.
	**Trip editor** APC	**What did the counting chain do with this journey, and how do I correct it?** Release, correct, block or reset counted journeys with a stop ladder and an audit record - the VDV 457 correction protocol.
	**Forecast** APC	**What will ridership be over the next 1-14 days?** Daily retrained demand forecast per agency, district and route with a P10-P90 band and model quality.
	**Reporting** APC	**I need a defensible numbers table for this window, sliced my way.** Boardings, alightings and load aggregated by route, stop, district, hour or day - exported to PDF and Excel without touching the database.
	**Peaks** APC	**What was the most crowded moment on each route and stop, and what produced it?** Daily maximum load per route and stop with the trip and the time of day that caused it.
	**Service Optimization** APC	**Where is the network overbooked, and which routes need more or fewer buses?** Overbooked stops, load profiles and frequency recommendations per time window, sized to the P90 load against your comfort target.
	**Demand Atlas** APC	**Where do people live relative to my stops, and how much service do they get?** Population hexagons against walking access and service pressure, plus timetable recommendations per route derived from where people live.
	**DWH – Load** DATA	**Is the data pipeline healthy right now - are the feeds arriving, are the tables fresh?** Freshness of every feed, loader and table on one status board, with the last successful run and any gaps.

TALK TO US

Ready when you are.

Book a walkthrough on a running instance: every view in this sheet, live, in one hour. The Hub is deployed per operator and available in English and German.

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