

M C P S E R V E R

N O C O D E

C L O U D H O S T E D

Paris Cycling MCP for real-time data.

Get live bike availability and infrastructure stats directly in your AI client.

Paris Cycling MCP provides direct access to the City of Paris open data for cyclists and urban planners. Your agent can check live Vélib' station availability, browse the protected bike lane network, and pull hourly traffic counts from fixed sensors across the city.

A+ Quality Score 96.67/100

paris

france

velib

bike-lanes

bicycle-counters

multimodal-counts



The connectivity layer between AI and the world's software.



Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.

— Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT`https://edge.vinkius.com/{token}/mcp`

Claude



Cursor



VS Code



Windsurf



Grok



Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1)
Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

Get started at cloud.vinkius.com — connect your AI agent in under 60 seconds.

Paris Cycling: Vélib' & Bike Infrastructure MCP

8 tools available

Cloud-hosted on Vinkius

You can pull live cycling data from the City of Paris directly into your AI client. This MCP connects to official open data sources to give your agent a real-time view of the city's two-wheel infrastructure. You can check if a Vélib' station has enough e-bikes for your commute or map out the exact location and type of protected bike lanes in a specific arrondissement. If you are analyzing traffic patterns, you can pull hourly counts from fixed bicycle counters or multimodal sites that track pedestrians and buses. It's a practical way to turn raw municipal data into actionable insights for route planning or urban studies without manually scraping websites.

Core Capabilities

01 — Live Bike-Share Tracking

Your agent checks real-time Vélib' station capacity and bike counts.

03 — Traffic Volume Analysis

Your agent pulls hourly data from fixed bicycle and multimodal counters.

02 — Infrastructure Mapping

The AI identifies specific bike lane types and their locations across Paris.

04 — Network Growth Tracking

The tool calculates cumulative kilometers of bike lanes by year.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/paris-cycling-velib-bike-infrastructure — connect your AI agent in three steps.

- 01 Connect the Paris Cycling MCP via the Vinkius dashboard.
- 02 Open your preferred AI client like Claude or Cursor.
- 03 Ask your agent a question about bike lanes, Vélib', or traffic counts.
- 04 The agent calls the necessary tools to fetch live data from Paris Open Data.
- 05 Your agent presents the specific counts, locations, or availability you requested.

Connect the MCP to your AI client to start querying Paris cycling data immediately.

Built For

This MCP is built for anyone needing precise, real-time cycling and traffic data from the City of Paris.

Urban Planners

Use the tool to analyze traffic counts and network growth for city studies.

Route Planners

Check lane types and Vélib' availability to design efficient cycling paths.

Data Analysts

Pull hourly sensor readings to build traffic models or reports.

What Changes When You Connect

- 01 Direct access to official Paris Open Data without manual searching.
- 02 Real-time Vélib' availability for immediate trip planning.

- 03

Granular hourly traffic data for precise volume analysis.
- 04

Detailed infrastructure breakdowns by lane type and arrondissement.

Real-World Applications

Commute Planning

Check if a specific Vélib' station has enough e-bikes before you leave your house.

Traffic Monitoring

Compare pedestrian and cyclist volumes at specific multimodal sites.

Urban Research

Calculate how many kilometers of bike lanes were added to the city in a specific year.

Safety Audits

Identify the exact types of protected lanes available on a specific street.

Patterns to Avoid

Guessing sensor locations

❌ AVOID

You try to pull hourly traffic data for a specific intersection without knowing its unique ID.

✓ INSTEAD

Use `'list_bike_counters'` or `'multimodal_counter_sites'` first to find the exact location and ID before requesting counts.

Vague infrastructure queries

❌ AVOID

You ask your agent for a general overview of all bike lanes in Paris without any specific filters.

✓ INSTEAD

Use `'list_bike_lanes'` to filter by arrondissement, lane type, or speed limit for much more precise results.

Missing real-time station updates

❌ AVOID

You rely on outdated maps to find a bike, only to find the station is empty when you arrive.

✓ INSTEAD

Check `'list_velib_stations'` to get live dock capacity and current e-bike counts before you head out.

The Right Fit

Urban planners and mobility analysts should connect this MCP to automate data pulls from the Paris Open Data portal. General commuters or casual tourists won't find much value here. The decision depends on whether you need granular, hourly traffic data or real-time fleet availability for professional modeling and auditing.

8 Tools for Paris Cycling and Infrastructure Data

This MCP provides direct access to official Paris Open Data, covering everything from real-time bike availability to historical traffic sensor readings.

#	TOOL	DESCRIPTION
01	bike_counter_daily_counts	Get hourly cyclist counts for a specific counter over a lookback window of up to 90 days. You can sum these hourly rows to calculate daily or total traffic figures.
02	bike_lanes_summary	Summarize the Paris bike lane network by type and export year. Use this to get high-level stats or to find specific lane types for more detailed queries.
03	bike_network_length	Report the cumulative kilometers of bike infrastructure in Paris. You can filter by a specific year to see how the network has grown.
04	list_bike_counters	Find the location and installation year of fixed bicycle traffic counters. Use this to identify a specific counter before requesting its hourly data.
05	list_bike_lanes	List specific segments of the Paris bike lane network. You can filter by arrondissement, lane type, or speed limit.
06	list_velib_stations	Check live availability for Vélib' bike-share stations. You can filter by arrondissement or the number of available conventional and e-bikes.
07	multimodal_counter_sites	Locate multimodal counting sites that track cyclists, pedestrians, and buses. Use this to find a site ID before requesting specific mode counts.
08	multimodal_counts	Retrieve hourly counts for different modes like pedestrians or buses at a specific site. You can look back up to 30 days to see traffic splits.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

Which Vélib' stations in the 6th have at least 3 free e-bikes?



The `list_velib_stations` tool with `commune` set to "6" and `min_ebikes` set to "3" returns the stations in the 6th arrondissement with at least 3 e-bikes available right now.

How many cyclists pass the Pont de Sèvres on a typical day?



First, use `list_bike_counters` to find the specific counter at Pont de Sèvres. Then, use `bike_counter_daily_counts` with that counter ID to get the hourly readings for the last 14 days.

Which streets count pedestrians as well as cyclists, and how?



Use `multimodal_counter_sites` to find locations that track both modes, then use `multimodal_counts` with the site ID to get the hourly split between cyclists and pedestrians.

Frequently Asked Questions

01 How fresh is the Vélib' station data?

The data is a live snapshot of current availability. Because station status changes constantly, treat it as a real-time update rather than a guarantee.

02 Can I get daily traffic totals?

Yes. You can use `bike_counter_daily_counts` to get hourly readings and then sum those rows to get a daily or total figure.

03 Does this MCP cover areas outside of Paris?

The data is specific to the City of Paris and its immediate surrounding communes like Boulogne-Billancourt or Clichy as provided by the official open data source.

04 How do I find a specific bike counter?

Use the `list_bike_counters` tool to find a counter by its name or installation year before requesting its specific traffic data.

05 What kind of lane types can I filter for?

You can filter for specific types like `piste cyclable`, `voie verte`, or `vélorue` using the `list_bike_lanes` tool.

06 Do I need an API key?

No. `opendata.paris.fr` serves all city datasets anonymously over its Opendatasoft REST API. This MCP defines no credentials and needs nothing configured.

07 Is the Vélib' data real-time?

`list_velib_stations` reads the live availability dataset (stations currently renting, bikes and e-bikes available now). It refreshes on the platform's schedule — treat the result as a current snapshot, not a guarantee of stock when you arrive.

08 How do I size a counter for a study?

`list_bike_counters` shows the installed counters (by year or name); `bike_counter_daily_counts` then returns one counter's hourly readings over up to 90 days. For pedestrians, buses and e-scooters use `multimodal_counter_sites` + `multimodal_counts` (up to 30 days), which split counts by mode.

09 Can I see how the bike network is growing?

`bike_network_length` reports the cumulative km of two-wheel infrastructure per year (filter with `annee`), and `bike_lanes_summary` breaks the exported segments down by type and export year — put the two together to track growth.

Go Live in 60 Seconds

Get your connection token from cloud.vinkius.com, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

https://edge.vinkius.com/[TOKEN]/mcp

CLIENT	WHERE TO CONFIGURE
 Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
 Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
 VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add <code>"paris-cycling-velib-bike-infrastructure": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → Add endpoint URL
 ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
 Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

Ask ChatGPT

Ask Claude

Ask Perplexity

Ask Gemini

Ask Grok

READY TO CONNECT

Paris Cycling: Vélib' & Bike Infrastructure is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and
start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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DOCUMENT INFORMATION

Generated	September 2026
MCP Server	Paris Cycling: Vélib' & Bike Infrastructure MCP
Server ID	01a0dfd0-323f-7026-9a59-4a955fe533f5
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

LICENSE & USAGE

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