MCP SERVER | NO CODE | CLOUD HOSTED

IBGE Full Access — Dados Brasileiros MCP

Combine demographics, economy, and history into one report.

IBGE Full Access — Dados Brasileiros provides one unified connection to Brazil's official statistics. You can query census data, economic classifications (CNAE), name popularity trends since the 1930s, and deep demographics for any municipality or state. It pulls together information from multiple domains—from GDP figures to quality-of-life metrics—in a single API call.

A+ Quality Score 98.33/100

census-data | demographics | public-statistics | brazil-geography | data-intelligence | survey-indicators

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vinkius.com/mcp/ibge-full-access-dados-brasileiros

SCAN TO VIEW

The infrastructure that powers AI agents in the real world.

Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

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.

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.

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	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	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.

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.

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.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken 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.

Agent Activity

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

FinOps

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

Tool Health

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

Firewall & DLP

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

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.

IBGE Full Access — Dados Brasileiros MCP

15 tools available
Cloud-hosted on Vinkius

This MCP gives you direct access to Brazil's vast official data sets, meaning you don't have to stitch together five different sources just to paint a picture of a region. Instead of dealing with fragmented APIs for census counts, economic sectors, and local demographics, your agent can treat it like one single, massive database. You get everything from listing the 27 states and finding specific city details down to querying complex aggregate tables using SIDRA.

Want to know what people were named in a certain decade? Need to map out which economic activity classifications are most common in São Paulo's suburbs? Or maybe you just need to compare Brazil's GDP per capita with Australia's?

It handles it. You connect this MCP through Vinkius, and your preferred AI client routes the complex queries, giving you a complete intelligence layer for any Brazilian market research project. It lets you build reports that cross demographics, history, and modern economic indicators without breaking a sweat on API management.

Core Capabilities

01 — Generate full city profiles

Build detailed municipal profiles by combining population metrics, health data, education levels, and GDP figures.

02 — Analyze historical name trends

Track the most popular names in Brazil over decades to understand cultural or demographic shifts.

03 — Map economic activity sectors

List and query the 1,332 CNAE codes to categorize industries within specific states or municipalities.

04 — Compare global indicators

Retrieve socioeconomic metrics for Brazil and compare them directly against any other country using its M49 code.

05 — Deep dive into census data

Access SIDRA tables to pull aggregate data on population, employment, or inflation at multiple geographic levels (macro-region down to municipality).

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/ibge-full-access-dados-brasileiros** — connect your AI agent in three steps.

01 Specify the required Brazilian dataset, such as a target state, a specific economic activity code, or a desired time period.

02 Your agent executes multiple targeted calls across different data layers—for example, combining `list_estados` with `get_agregado_data` and then adding name trends using `get_ranking_nomes`.

03 The MCP returns a single, consolidated data payload that includes all the requested metrics and classifications, ready for analysis.

The bottom line is you send one natural language prompt and get complex, multi-source Brazilian statistics returned in one go.

Built For

Market analysts, urban planners, academic researchers, and geopolitical strategists. This tool is for anyone who needs deep, reliable statistical intelligence about Brazil that goes beyond basic census counts.

Urban Planner

Determining which services (like schools or hospitals) are needed in a growing neighborhood by cross-referencing municipality population data with local health survey indicators.

Market Researcher

Mapping out consumer spending potential across different Brazilian regions by correlating CNAE economic sections with demographic profiles and GDP per capita.

Academic Historian

Analyzing how population trends or name popularity have shifted over multiple decades to write a paper on social change in the country.

What Changes When You Connect

01 Avoids data silos. Instead of running separate queries for city geography (`get_municipio`) and economic activity (`list_secoes_cnae`), you get them merged instantly.

02 Global comparison built-in. Need to benchmark São Paulo? Use `get_pais_indicadores` to compare its GDP metrics against any country in the world, eliminating manual data entry.

03 Unmatched depth on names. Tracking name popularity over decades using `get_nome_frequencia` gives insight into cultural and social shifts that simple census numbers miss.

04 Cross-domain reporting. Combine population totals from a survey (`list_pesquisas`) with the economic structure of a region via CNAE to build deep market reports.

05 High granularity on data sets. You can pinpoint statistics at the municipality level using `get_agregado_data` or get specific localized results using `get_resultados_pesquisa` .

Real-World Applications

Assessing investment potential in a new state.

An analyst wants to know if Paraná is ready for a tech hub. They prompt the agent: 'Give me the economic profile and demographic trends.' The MCP uses `get_municipios_por_uf` to list all towns, then runs `list_secoes_cnae` on them, finally cross-referencing with population data from SIDRA aggregate tables (`get_agregado_data`) for a holistic view.

Writing a report on social change in the Northeast.

A researcher needs to show how education levels have changed. They ask for survey results using `list_pesquisas` and then combine that with regional data by listing macro-regions (`list_regioes`) and fetching specific demographic indicators via SIDRA aggregates.

Comparing Brazilian quality of life to global standards.

A policy advisor needs a quick comparison. They use `get_pais_indicadores` with Brazil's M49 code, allowing them to instantly compare its literacy rate and average income against multiple other nations in one query.

Building a business plan around naming trends.

A consultant needs market data for a naming agency. They use `get_ranking_nomes` to find the top 5 names for a given decade, and then cross-reference that with CNAE codes (`list_secoes_cnae`) to suggest related business services.

Patterns to Avoid

Treating demographics and economics separately

✗ AVOID

Running two separate queries: one for population density using `get_municipio` and a second, unrelated query just to get CNAE codes. This forces the user to manually compare disparate results.

✓ INSTEAD

Combine them into a single prompt. Ask your agent: 'What is the primary economic sector (CNAE) of this municipality, and what was its population 10 years ago?' The MCP handles both data calls in one sequence.

Ignoring geographic scope

✗ AVOID

Only looking at national averages when analyzing a state. Missing crucial local nuances because the agent couldn't drill down to the correct level.

✓ INSTEAD

Use `get_agregado_data` and specify the desired level (N3=UF or N6=Município) in your prompt so you get granular data, not just national averages.

Forgetting historical context

✗ AVOID

Using only current census data without understanding how name popularity has changed since the 1930s. Missing key insights into cultural continuity.

✓ INSTEAD

Explicitly ask for historical trends using `get_nome_frequencia` to see shifts in naming patterns over specific decades.

The Right Fit

Use this MCP if your project requires deep, multi-layered statistical intelligence about Brazil. Specifically, you need to correlate economic activity (CNAE) with demographics, history (name trends), and geography (municipalities/states). Don't use it if you only need simple, single-point data—for instance, if you just want a list of all 27 states; the `list_estados` tool does that efficiently. You also

don't need this MCP if your focus is purely on global macroeconomics and never touches Brazilian specifics; in that case, a generalized world data API would suffice. However, because it consolidates so many specialized domains (SIDRA aggregates, CNAE, names, surveys) into one place, it becomes the definitive choice for any comprehensive study of the country.

The headache of piecing together Brazilian statistics.

Today, if you need to know a city's profile—say, Florianópolis—you open one tab for population data (SIDRA), another tab to check its economic classifications (CNAE), and yet a third place just to see the latest health survey results. You spend hours jumping between disparate government websites, manually downloading spreadsheets, and then spending even more time trying to merge all that data in Excel.

With this MCP, you simply ask your agent for a 'complete profile' of that city. It automatically runs the necessary checks: getting municipality details (`get_municipio`), pulling relevant economic sectors using `list_secoes_cnae` , and fetching survey indicators from multiple sources. You get the final, clean report in one go.

Accessing comprehensive Brazilian intelligence with IBGE Full Access — Dados Brasileiros.

Manual data retrieval means losing context and making assumptions about which data layers belong together. You risk using outdated statistics or forgetting to cross-reference the economic classification (CNAE) against the current population census count.

This MCP fixes that by providing a single, unified interface for all these sources. Your agent handles the complexity of combining `get_agregado_data` with `list_estados` , giving you accurate and contextually rich reports every time.

IBGE Full Access — Dados Brasileiros: 15 Tools

Use these fifteen specialized tools to retrieve, cross-reference, and analyze any piece of official statistical data related to Brazilian geography, population, or economy.

#	TOOL	DESCRIPTION
01	`list_estados`	Retrieves a complete list of all 27 Brazilian states by their names and codes.
02	`get_nome_frequencia`	Calculates the frequency of a specific name for any given decade in Brazil's history.
03	`get_ranking_nomes`	Provides rankings of the most popular Brazilian names, allowing filtering by sex or decade.
04	`list_secoes_cnae`	Lists all 21 high-level economic sections (CNAE) used to classify business activities in Brazil.
05	`get_subclasse_cnae`	Retrieves detailed information for specific, lower-level CNAE subclasses.
06	`get_noticias_ibge`	Pulls the latest press releases and news updates directly from the official IBGE news agency.
07	`get_pais_indicadores`	Retrieves comparative socioeconomic indicators for any country using its standardized M49 code.
08	`get_municipios_por_uf`	Lists all municipalities located within a specified Brazilian state (UF).
09	`get_municipio`	Fetches comprehensive details about a specific municipality using its official IBGE code.
10	`list_regioes`	Provides the names and definitions of Brazil's five macro-regions.
11	`list_agregados`	Lists all available aggregate tables within the SIDRA statistical system.
12	`get_agregado_data`	Extracts raw data points from a specific SIDRA aggregate table, allowing filtering by geographic level (N1=Brazil, N3=State, N6=Municipality).
13	`get_agregado_metadados`	Retrieves the descriptive metadata for any given SIDRA aggregate table.
14	`list_pesquisas`	Lists all available major survey types conducted by IBGE (e.g., health, education).
15	`get_resultados_pesquisa`	Gets specific results from an IBGE survey for a given municipality.

See It in Action

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

U Complete profile of the city of Florianópolis — geography, economy, and demographics

🏝️ **Florianópolis — Full Profile**

📍 IBGE: 4205407 | UF: SC | Region: Sul
👥 Population: 537,213 (2022)
💰 GDP: R$ 24.8B | Per capita: R$ 46,200
📚 Literacy: 98.4% | Schooling: 11.2 yrs
🤰 Life expectancy: 78.4 years
🏘️ Metropolitan region: 22 municipalities

Florianópolis is consistently ranked among Brazil's top 5 cities in quality of life.

U What is the most popular baby name in Brazil right now and what is its CNAE equivalent for a naming consultancy?

👶 **Most Popular Name (2010s)**

Miguel (M) and Helena (F) lead the 2010s decade.

💼 **Naming Consultancy CNAE**
- 7020-4/00 — Management consulting
- 9329-8/99 — Other recreational activities

Cross-domain query executed: Names API + CNAE API in one shot!

U Latest IBGE news and how Brazil compares to Argentina in population

Latest IBGE News

1. 'Censo 2022 revela envelhecimento acelerado da população'
2. 'PIB cresce 2.9% em 2024, supera expectativas'
3. 'IPCA de março: 0.43%, acumulado 4.62%'

Brazil vs Argentina — Population

- Brazil: 214.3M | Argentina: 46.2M
- Brazil is 4.6× larger in population
- Brazil density: 25/km² | Argentina: 17/km²

Frequently Asked Questions

01 **How do I get economic data using IBGE Full Access — Dados Brasileiros?**

You use the CNAE tools. First, run `list_secoes_cnae` to see all major categories, then use `get_subclasse_cnae` for specific details on the industry you're interested in.

02 **Can I compare Brazil's demographics with other countries using this MCP?**

Yes. Use the `get_pais_indicadores` tool and provide the M49 country code for any nation to run a direct socioeconomic comparison against Brazil.

03 **What data sources are available for city demographics in IBGE Full Access — Dados Brasileiros?**

You can access various sources. Use `get_municipio` for core details, and then use the survey tools like `list_pesquisas` and `get_resultados_pesquisa` to get specialized data.

04 **How do I find out about name popularity in Brazil?**

Use `get_ranking_nomes`. You can filter the results by decade or sex to see how popular a name was during specific time periods, giving you historical insight into demographics.

05 **Which tool should I use for aggregate census data across states?**

You need `get_agregado_data`. This tool allows you to query complex SIDRA tables and specify the exact geographic level, like a state (N3=UF), ensuring your metrics are correctly scoped.

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 `"ibge-full-access-dados-brasileiros": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → 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

IBGE Full Access — Dados Brasileiros 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

INDEPENDENT PLATFORM DISCLAIMER

DOCUMENT INFORMATION

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Server ID	`019d75b6-b563-7061-8149-54df46661a8b`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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