

MCP SERVER

NO CODE

CLOUD HOSTED

ONS Economy MCP

Measure UK GDP, Inflation, and Spending Trends

The UK ONS Economy MCP gives your agent direct access to official British economic statistics from the Office for National Statistics. Pull quarterly and annual regional GDP data, track headline CPIH inflation rates (including housing costs), measure consumer spending volumes via retail sales indices, or analyze near real-time debit/credit card transaction patterns.

A+ Quality Score 100/100

gdp

inflation

economic-indicators

retail-sales

consumer-spending

macroeconomics



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.

UK ONS Economy — GDP, Inflation & Consumer Spending MCP

6 tools available

Cloud-hosted on Vinkius

When you need to answer complex questions about the UK economy, this MCP cuts out the manual research. Instead of stitching together reports from multiple government sites, your agent pulls data points directly from ONS datasets. You can compare regional economic health—for instance, checking how London's GDP growth stacks up against Wales's—and immediately see the impact on household finances using tax and benefits statistics. Furthermore, you track inflation (CPIH) alongside actual consumer behavior, like retail sales or real-time card spending indicators. Because this data is sourced directly from the ONS, it provides a single source of truth for macro analysis. Connecting to Vinkius makes sure that all these diverse datasets are available through one connection point for your AI client.

Core Capabilities

01 — Compare regional economic performance

You compare GDP growth rates and spending patterns across multiple UK regions (like England, Wales, and Scotland) in a single analysis.

03 — Analyze income redistribution effects

You model how direct taxes and benefits affect the average household income across different demographics.

02 — Track inflation against consumer spending

You measure the impact of CPIH changes on actual household purchasing power using retail sales data.

04 — Get near real-time spending insights

You monitor weekly debit and credit card transaction data to gauge immediate changes in consumer confidence.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/uk-ons-economy-gdp-inflation-consumer-spending — connect your AI agent in three steps.

- 01** First, you tell your agent exactly what economic metric you need—for example, 'I need the quarterly GDP for the North West.'
- 02** The MCP executes the necessary query against the ONS data source, filtering by region and time period.
- 03** Your agent receives structured data containing the specific metrics (e.g., percentage change or total value) that you can then use to generate reports.

The bottom line is your AI client gets clean, official numbers without needing API keys or manual data extraction.

Built For

This MCP is for professional analysts and researchers who spend their days cross-referencing financial reports. If you're tired of jumping between multiple government websites to compile a single economic picture, this tool saves hours.

Economic Consultant

They use the MCP to build quarterly market forecasts by comparing regional GDP growth with inflation rates and consumer spending volumes.

Financial Analyst

They track weekly debit and credit card spending indicators alongside household income statistics to advise clients on risk exposure.

Policy Researcher

They model the full effect of tax changes by cross-referencing benefit redistribution data with general CPIH inflation figures.

What Changes When You Connect

- 01** Instantly compare regional growth. Use the `get_gdp` tool to see how London's quarterly growth stacks up against rural areas, providing a geographic view of economic health.

-
- 02** Monitor inflation in real time. The `get_cpih` tool provides the official headline measure, letting you know if rising housing costs are outpacing wage increases.
-
- 03** Gauge immediate consumer sentiment. Instead of relying on lagged reports, use `get_spending_cards` for weekly data that shows current spending habits using debit and credit cards.
-
- 04** Understand purchasing power shifts. By combining the `get_retail_sales` index with inflation data, you can tell if consumers are buying less or simply spending less money.
-
- 05** Model financial impact. The `get_tax_benefits` tool allows you to trace how tax policy changes directly affect household income distributions.
-

Real-World Applications

Assessing post-pandemic economic recovery

A consultant needs a full picture of the UK's rebound. They ask their agent to compare recent quarterly GDP figures from `get_gdp` against the current retail sales index using `get_retail_sales`. The agent synthesizes this into one report showing if spending volumes match regional output.

Tracking immediate shifts in consumer demand

A financial analyst suspects a major shift in spending habits. They use `get_spending_cards` to get the weekly trend data, then ask their agent to run this against historical CPIH rates using `get_economy_dataset` for context.

Analyzing inflation impact on budgeting

A policy researcher needs to know if high CPIH is hurting average families. They use `get_cpih` data and cross-reference it with the tax benefits statistics from `get_tax_benefits` to see which income groups are most vulnerable.

Developing regional investment strategies

A business developer needs to target growth areas. They use `get_gdp` (by region) and combine it with the retail sales data from `get_retail_sales` to identify specific geographic markets poised for expansion.

Patterns to Avoid

Treating all economic data as static points

✗ AVOID

Asking only for a single year's GDP figures or inflation rate without context. This gives an incomplete picture and ignores trends.

✓ INSTEAD

Always specify the time frame you need. Use ``get_gdp`` with the full time series filter, or use ``get_cpih`` to compare multiple quarters to show a clear trend line.

Mixing data types without care

✗ AVOID

Trying to lump together raw card spending numbers and high-level tax benefit statistics in one query. The results will be meaningless.

✓ INSTEAD

Isolate the metrics first. Use ``get_spending_cards`` for immediate consumer behavior, then run ``get_tax_benefits`` separately to understand the underlying financial mechanisms.

Overlooking dataset flexibility

✗ AVOID

Assuming that all data points can be retrieved by just naming them. The ONS requires specific IDs and filters.

✓ INSTEAD

Use the ``get_economy_dataset`` tool first to discover available filters, ensuring your query targets the correct regional or sector breakdown.

The Right Fit

You should use this MCP if your primary need is quantitative analysis of macro-level UK economic metrics. Specifically, if you are comparing time series data (e.g., quarterly GDP growth vs. annual inflation) or assessing the relationship between policy changes and consumer spending patterns. Don't use it if you just want general news summaries—you need a research tool, not an article generator. If your goal is simply to check a single number without context, using `get_economy_dataset` with specific IDs gives you more control than relying on pre-packaged tools. However, never rely solely on spending card data; always cross-reference it with official metrics like `get_retail_sales` and the CPIH for validation.

The headache of assembling a full economic picture today

Right now, if you want to know why consumer spending might be slowing down, you have to open three different browser tabs. One for the latest CPIH figures, one for regional GDP updates by sector, and a third for the retail sales index's volume data. You spend 20 minutes copying numbers from disparate PDF reports into a single spreadsheet just to start your analysis.

With this MCP connection through Vinkius, you ask your agent a single question—like 'How does regional growth compare to inflation?' and it pulls all the necessary metrics (GDP, CPIH, Retail Sales) together. You get immediate, structured data ready for graphing or writing.

Getting accurate spending patterns with `get_spending_cards`

Manually tracking consumer sentiment often means relying on monthly surveys that are already delayed. You're always looking in the rearview mirror, making decisions based on old data.

Now you can use `get_spending_cards`. This tool provides weekly debit and credit card spending indicators that give you a near real-time pulse on how people are actually transacting money. It changes your analysis from historical reporting to actionable monitoring.

UK ONS Economy — 6 Tools

Use these tools to monitor UK inflation, track quarterly GDP figures, analyze retail sales volume, or check real-time card spending trends.

#	TOOL	DESCRIPTION
01	<code>get_gdp</code>	Retrieves UK GDP data, covering both quarterly and annual metrics for various regions and sectors across England, Wales, and other defined areas.
02	<code>get_cpih</code>	Provides the official CPIH measure, which is the headline inflation index used by the ONS that includes housing costs.
03	<code>get_retail_sales</code>	Gets monthly data on both the value and volume of retail sales across Great Britain, using 2019 as its base year.
04	<code>get_spending_cards</code>	Delivers weekly data offering a near real-time look at consumer spending patterns via debit and credit cards.
05	<code>get_tax_benefits</code>	Calculates the redistribution effects of direct and indirect taxation and benefits, showing how they impact household income.
06	<code>get_economy_dataset</code>	Allows querying any specific ONS economy dataset by its internal ID using flexible filters to target precise data points.

See It in Action

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

U What is the current UK inflation rate?



UK Inflation (CPIH)

Latest: 3.2% (February 2026)
Previous: 3.4% (January 2026)

CPIH (Consumer Prices Index including owner occupiers' housing costs) is the ONS's headline inflation measure.

Key components:

- Food & non-alcoholic beverages: 4.1%
- Housing & household services: 5.8%
- Transport: 1.2%

Source: ONS, dataset cpih01

U Show me UK GDP by region



GB UK Regional GDP (Q3 2025)

REGION	GROWTH (QOQ)
London	+0.4%
South East	+0.3%
North West	+0.2%
Scotland	+0.1%
Wales	-0.1%

UK Total: +0.3% quarterly growth

Frequently Asked Questions

01 How do I find out the inflation rate using `get_cpih`?

You query `get_cpih` and specify the aggregate (all items) and the UK geography. This tool provides the official headline CPIH measure, which includes housing costs for a comprehensive view.

02 Can I compare regional GDP growth with spending data using `get_gdp`?

Yes, you can use `get_gdp` to pull quarterly or annual figures by specific regions. You then combine those results with the retail sales index from `get_retail_sales` for a full comparison.

03 What is the difference between `get_spending_cards` and `get_retail_sales`?

`get_spending_cards` gives you near real-time, weekly data on actual card transactions. `get_retail_sales`, however, provides monthly data points showing both the value and volume of sales reported by retailers.

04 Does this MCP cover tax changes?







Yes, the `get_tax_benefits` tool specifically shows the effects of direct and indirect taxation and benefits on UK household income, helping you model redistribution impacts.

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](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>"uk-ons-economy-gdp-inflation-consumer-spending": { "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

UK ONS Economy — GDP, Inflation & Consumer Spending 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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