MCP SERVER | NO CODE | CLOUD HOSTED

ECB Full — Complete Eurozone Financial Intelligence MCP for AI Agents

Analyzing key monetary policy rates and Eurozone financial data

The ECB Full MCP gives AI agents immediate, deep access to every major European Central Bank data stream. It connects 14 tools covering everything from daily EUR exchange rates against dozens of currencies and the full spectrum of key interest rates (MRO, DFR, MLFR) to detailed monetary aggregates (M1/M2/M3) and government bond yield curves. Stop switching between financial APIs; get all Eurozone macro data in one place.

A+ Quality Score 98.33/100

monetary-policy | economic-indicators | interest-rates | financial-statistics | eurozone-economy | data-api

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vinkius.com/mcp/ecb-full-complete-eurozone-financial-intelligence

SCAN TO VIEW

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.

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.

ECB Full — Complete Eurozone Financial Intelligence MCP

14 tools available
Cloud-hosted on Vinkius

This MCP connects your AI client directly to the European Central Bank's entire statistical database. You don't have to worry about figuring out which API endpoint handles a specific rate or aggregate anymore. It gives you immediate access to reference exchange rates, key monetary policy metrics, and deep economic indicators like money supply components and government bond yield curves.

Instead of spending hours piecing together data from multiple sources—one for currency pairs, another for interest rates, and yet a third for M3 figures—your agent runs a single query. It pulls everything you need into one coherent output. This centralized access is available via Vinkius, making it simple to connect your preferred AI client and start building complex financial models without writing boilerplate API calls.

Core Capabilities

01 — Query all ECB statistical data

Find any specific Eurozone dataset by querying the universal SDMX dataflow catalog using `query_ecb_data`.

02 — Retrieve current exchange rates

Get the latest EUR reference rates for single or multiple currencies, whether you need daily, monthly, or annual data.

03 — Monitor key monetary policy rates

Access all three core interest rates—the Main Refinancing Operations (MRO), Deposit Facility Rate (DFR), and Marginal Lending Rate (MLFR)—via `get_all_key_rates`.

04 — Analyze money supply components

Calculate M1, M2, and M3 monetary aggregates to track the total size and growth of the Eurozone's money market using `get_monetary_aggregate`.

05 — Map bond yield curve movements

Determine the shape of government debt expectations by getting a full, current snapshot of the eurozone yield curve or specific maturity levels via `get_yield_curve`.

06 — Track banknote circulation statistics

Get data on how many euro banknotes are currently in circulation across different denominations using `get_banknotes`.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/ecb-full-complete-eurozone-financial-intelligence** — connect your AI agent in three steps.

01 Define the required economic metric, such as 'USD/EUR exchange rate' or 'M3 monetary aggregate'.

02 Direct your AI agent to use the relevant tool and provide necessary parameters (e.g., target currency code, maturity date, or dataflow key).

03 The MCP executes the query against the ECB database and returns a structured JSON object containing the requested financial data points.

The bottom line is that you tell your agent what economic question you have, and it handles all the complex data fetching from the ECB sources.

Built For

This MCP is essential for macroeconomists, quantitative analysts, and financial risk managers who rely on consistent, comprehensive European market data. If your job involves modeling Eurozone economic health or tracking monetary policy transmission, this tool eliminates massive amounts of manual API setup.

Quantitative Analyst

Runs models comparing the spread between MFI rates and key interest rates; needs to quickly pull multiple data points like `get_mfi_rates` alongside yield curve data.

Macroeconomist

Builds reports on Eurozone liquidity. Needs to monitor the full rate corridor by calling `get_all_key_rates` and tracking M3 growth using `get_monetary_aggregate`.

Financial Risk Manager

Assesses currency exposure across multiple jurisdictions. Uses `get_multiple_rates` to compare EUR strength against a portfolio of major currencies simultaneously.

What Changes When You Connect

01 Stop manual data consolidation. Instead of running separate calls to get exchange rates, M3 aggregates, and interest rate spreads, you use `get_all_key_rates` and other tools simultaneously for a complete picture.

02 Understand policy transmission immediately. By comparing the main refinancing rate (`get_key_rates`) against bank lending rates (`get_mfi_rates`), your agent shows exactly how central bank actions affect commercial banks.

03 Model yield curve expectations rapidly. Get instant insight into economic forecasts by using `get_yield_curve_snapshot` , determining if bond yields are inverted or normal for immediate risk assessment.

04 Track money supply history easily. Use `get_monetary_aggregate` to track the growth of M1, M2, and M3 components over time, providing a longitudinal view of Eurozone liquidity.

05 Compare currency strength instantly. Need to know how USD, GBP, and JPY are performing? `get_multiple_rates` handles this comparative analysis in one command instead of three separate calls.

06 Access all core data sources from one place. The universal query tool (`query_ecb_data`) lets you access any dataset without having to find a specific tool for it.

Real-World Applications

Assessing the impact of monetary tightening on bond markets

A portfolio manager asks: 'What is the market's expectation about inflation given the current rate environment?' The agent responds by calling `get_all_key_rates` for context, then using `get_yield_curve_snapshot` to immediately show if the yield curve has flattened or inverted in response.

Building a comprehensive Eurozone liquidity report

A research team needs to track how quickly money is circulating. They use the agent to combine `get_monetary_aggregate` for M3 totals with `get_banknotes` data to give a holistic picture of available cash and broad money supply.

Comparing currency risk across multiple markets

A cross-border trade finance expert needs to calculate the cost difference between transacting in three currencies. They use `get_multiple_rates` to pull EUR/USD, EUR/GBP, and EUR/JPY rates simultaneously, saving hours of manual data gathering.

Evaluating central bank policy effectiveness

A banking analyst needs to confirm if the ECB's efforts are reaching commercial banks. They use `get_key_rates` combined with `get_mfi_rates` to check for alignment between the official corridor rates and actual interbank lending costs.

Patterns to Avoid

Treating data sources separately

✗ AVOID

Asking your agent: 'First, give me the MRO rate. Next, get the latest currency rates. Finally, show the yield curve.' This forces multiple tool calls and loses context.

✓ INSTEAD

Ask for a comprehensive analysis in one prompt. For example: 'Give me a full economic briefing showing current EUR/USD rates, the three key interest rates, and the 10-year bond yield snapshot.' The agent handles the sequence using `get_all_key_rates`, `get_latest_rates`, and `get_yield_curve_snapshot`.

Ignoring data frequency differences

✗ AVOID

Asking for a 'monthly' rate when the most relevant data point is actually published only 'quarterly', leading to inaccurate models.

✓ INSTEAD

Always specify timeframes in your request. If you need historical data, guide the agent toward using `query_ecb_data` with precise date parameters and the correct SDMX key.

Focusing only on aggregate numbers

✗ AVOID

Only asking for the M3 figure without context. This number is meaningless without knowing if it's growing faster or slower than core interest rates.

✓ INSTEAD

Always pair monetary data with policy indicators. For instance, 'Compare the rate of change in M2 against the current deposit facility rate.' Use `get_monetary_aggregate` and `get_deposit_rate` together.

The Right Fit

Use this MCP if your primary need is macro-level financial analysis within the Eurozone. You need to compare multiple, distinct data types—like interest rates *and* exchange rates *and* money supply metrics—in one single flow. For example, determining if monetary expansion (M3 growth) is correlated with rising bond yields requires this full dataset. Don't use it if you only need a simple stock quote or basic company financial reports; those require different data sources. If your task is limited to just fetching the most recent USD/EUR rate without needing historical context, one of the dedicated exchange tools works fine, but this MCP gives you the complete picture.

Analyzing Eurozone Interest Rates with ECB Full: Mastering Monetary Policy Data

Manually tracking European central bank policy is a nightmare. You spend time cross-referencing reports to find three different rates—the main refinancing rate, the deposit floor, and the marginal lending ceiling. Then you have to check if those official rates actually match what commercial banks are charging clients.

With this MCP, your agent pulls all three core interest rates in one go using `get_all_key_rates`. You instantly see the complete policy corridor status without opening a single spreadsheet or visiting multiple regulatory sites. It gives you the full picture.

ECB Full and Eurozone Financial Intelligence: Modeling Bond Yield Curve Dynamics

Determining what bond yields suggest about future economic health is complex. You can't just look at one maturity date; the shape of the entire curve—from 3 months out to 30 years—is crucial for accurate forecasting.

Using `get_yield_curve_snapshot`, your agent gives you a single, current view of the entire yield curve's shape. It tells you immediately if expectations are normal (upward slope), flatlining, or inverted, allowing immediate risk assessment.

ECB Full: 14 Tools for Comprehensive Eurozone Financial Data

Use these tools to query every major data point published by the ECB, from current exchange rates to historical money supply aggregates.

#	TOOL	DESCRIPTION
01	`list_dataflows`	Lists the codes for every available statistical dataset published by the ECB.
02	`query_ecb_data`	Queries any specific Eurozone dataset using a dataflow code and an SDMX series key, allowing universal access to ECB statistics.
03	`get_exchange_rate`	Retrieves the exchange rate for the euro against one specified currency (e.g., USD/EUR) at daily, monthly, or annual intervals.
04	`get_multiple_rates`	Gets the euro exchange rates simultaneously against a list of multiple currencies, ideal for comparative analysis.
05	`get_latest_rates`	Pulls the most recently published ECB reference exchange rates for all major global currencies.
06	`get_key_rates`	Retrieves the main refinancing rate (MRO), which is a primary indicator of Eurozone monetary policy activity.
07	`get_deposit_rate`	Gets the deposit facility rate, monitoring the floor of the interest rate corridor and central bank liquidity conditions.
08	`get_marginal_lending_rate`	Retrieves the marginal lending facility rate, which acts as the ceiling for short-term interbank funding rates.
09	`get_all_key_rates`	Returns all three core ECB key interest rates—MRO, deposit, and marginal lending—in a single call to show the full rate corridor status.
10	`get_mfi_rates`	Provides bank lending and deposit rates in the eurozone (MFI), showing how policy changes affect commercial banking costs.
11	`get_monetary_aggregate`	Calculates the money supply levels for M1, M2, and M3 across the Eurozone using current data.
12	`get_yield_curve`	Gets the government bond yield curve for a single specified maturity (from 3 months to 30 years).
13	`get_yield_curve_snapshot`	Provides an immediate view of all maturities on the Eurozone yield curve, showing its current shape (normal, flat, or inverted).

#	TOOL	DESCRIPTION
14	`get_banknotes`	Retrieves statistics detailing the amount and circulation status of various euro banknotes.

See It in Action

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

U Give me the full picture: latest EUR/USD rate, all key rates, and the 10-year bond yield.

Here is your consolidated Eurozone briefing:

💱 **EUR Exchange Rate:** 1.0842 (vs USD)

🏦 **Key Interest Rates:**
- Deposit Facility Rate: 2.50%
- Main Refinancing Operations (MRO): 2.65%
- Marginal Lending Rate: 2.90%

📈 **Yield Curve Snapshot:** The 10-Year yield is currently at 2.49%. This indicates a generally normal, slightly upward sloping curve as of today.

Frequently Asked Questions

01 **How can the ECB Full MCP help me track Eurozone monetary policy rates?**

It gives you instant access to all three core interest rates—the deposit facility, main refinancing operations, and marginal lending rate. Instead of checking separate pages for each rate, your agent pulls them into one structured output so you can analyze the full rate corridor instantly.

02 **What kind of economic indicators can I pull using ECB Full? Does it cover money supply?**

Yes, it handles major monetary aggregates like M1, M2, and M3. You can track the total size and growth rate of the Eurozone's money supply, giving you a comprehensive view of liquidity beyond just interest rates.

03 **Does this MCP help me compare multiple currency exchange rates?**

Absolutely. The tool lets you pull exchange rates for many currencies against the euro in one call. This is perfect for comparing the relative strength of several global economies at once, which saves significant time.

04 **I need to analyze bond market expectations; can ECB Full help with that?**

It provides tools specifically for yield curve analysis. You can get a full snapshot of all maturities or focus on one maturity (like the 10-year bond) to quickly determine if the market expects recessionary trends.

05 **What is the best way to use ECB Full to build a comprehensive economic report?**

Start with a single prompt asking for all necessary data points: current rates, exchange rates, and bond yields. The MCP handles running multiple tools sequentially, compiling everything into one readable output for your final report.

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 `"ecb-full-complete-eurozone-financial-intelligence": { "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

ECB Full — Complete Eurozone Financial Intelligence 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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