

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

Equity Dilution Modeler for cap table math.

Project ownership changes across multiple funding rounds instantly.

Equity Dilution Modeler gives your AI client the math tools needed to handle complex venture capital scenarios. It calculates how new investment rounds change ownership, tracks pro-rata rights, and evaluates the impact of down rounds on your existing cap table.

equity

dilution

cap-table

venture-capital

valuation



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.

Equity Dilution Modeler MCP

4 tools available

Cloud-hosted on Vinkius

Managing a cap table shouldn't feel like a guessing game. This MCP gives your agent the specific logic required to model how venture capital rounds impact ownership. Instead of manually calculating dilution, you can ask your AI client to run a full waterfall simulation to see how a series of funding stages will change the equity split for founders and investors alike.

If you're dealing with a specific new round, you can check the immediate dilution effects or calculate exactly how much capital an investor needs to contribute to maintain their current stake. It also handles the messy parts of venture math, like checking if a new round triggers anti-dilution protections for existing shareholders. It's built to turn raw funding data into clear ownership projections without the manual spreadsheet errors.

Core Capabilities

01 — Multi-round projections

Your agent can simulate how ownership shifts through a series of consecutive funding stages.

02 — Pro-rata calculations

The AI calculates the exact investment needed to prevent dilution for specific shareholders.

03 — Down round detection

Your client can evaluate if a new valuation triggers anti-dilution clauses.

04 — Single round modeling

The agent calculates the immediate impact of one specific investment on the cap table.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/en/ai-agent-connect/equity-dilution-modeler — connect your AI agent in three steps.

- 01
- Subscribe to the Equity Dilution Modeler on Vinkius.
- 02
- Connect your preferred client like Claude or Cursor using the Vinkius connection settings.
- 03
- Provide your funding data or valuation details to your AI agent.
- 04
- The agent uses the MCP tools to run the specific math you requested.

Connect your AI client to Vinkius and start running equity math immediately.

Built For

This MCP is built for finance professionals and startup founders who need to run quick, accurate equity simulations.

Venture Capitalists

Use the agent to model how new deals will affect their existing portfolio stakes.

Founders

Hand off cap table math to the AI to understand how much equity they will retain after a fundraising.

Finance Analysts

Use the tools to run complex waterfall projections and anti-dilution checks.

What Changes When You Connect

- 01
- Eliminates manual errors in dilution math.
- 02
- Provides instant ownership projections for multiple funding stages.
- 03
- Automates the detection of down round triggers.

- 04** Calculates pro-rata requirements without manual spreadsheet modeling.
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Real-World Applications

Fundraising Preparation

Model how a new seed or Series A round will change the founder's equity stake.

Investor Dilution Tracking

Calculate the capital required for an investor to maintain their percentage in a new round.

Down Round Analysis

Check if a lower valuation triggers anti-dilution protections for existing shareholders.

Long-term Cap Table Modeling

Run a waterfall simulation to see the long-term ownership structure through several rounds.

4 Tools Available

#	TOOL	DESCRIPTION
01	calculate_pro_rata_participation	This tool calculates the specific amount of capital an existing investor must put into a new round to keep their current ownership percentage.
02	check_anti_dilution_trigger	Use this to see if a new funding round qualifies as a down round and how that affects protected investors.
03	get_round_impact	This tool determines the immediate dilution caused by a single investment round.
04	simulate_waterfall	This tool projects how ownership changes evolve across a sequence of multiple funding rounds.

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 impact of a \$5M seed round on a founder with 100% equity if the pre-money valuation is \$15M and the option pool is 10%?



After the \$5M seed round with a \$15M pre-money valuation and a 10% option pool, the post-money valuation is \$20M. The founder's equity will be 75%.

U How much should an investor with 10% ownership invest in a new \$10M round if the pre-money valuation is \$40M?



To maintain a 10% ownership stake in a \$50M post-money company, the investor must contribute \$5,000,000.

U If the previous round price per share was \$10.00 and the current round is \$8.00, is a down round triggered?



Yes, a down round is triggered because the current price per share is lower than the previous round price.

Frequently Asked Questions

01 What AI clients can use this MCP?

You can use this MCP with any compatible client, including Claude, Cursor, Windsurf, and VS Code.

02 How does it handle multiple funding rounds?

The `simulate_waterfall` tool allows your agent to project ownership changes across a sequence of multiple funding stages.

03 Can it help with pro-rata rights?

Yes, the `calculate_pro_rata_participation` tool determines the capital needed to maintain a specific ownership stake.

04 Does it detect down rounds?

Yes, the `check_anti_dilution_trigger` tool evaluates if a round qualifies as a down round and calculates the impact.

05 Do I need to host this myself?

No, Vinkius hosts and manages the MCP for you. You just connect your client and start working.

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>"equity-dilution-modeler": { "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

Equity Dilution Modeler 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

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Server ID	01a0a2a2-254e-7257-bacd-8747179159d1
Platform	Vinkius Cloud for AI Agents
Endpoint	<code>https://edge.vinkius.com/{token}/mcp</code>

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