MCP SERVER | NO CODE | CLOUD HOSTED

Dilution Calculator MCP for AI Agents

Modeling Cap Table Evolution and Equity Dilution in Startups

The Dilution Calculator simulates how new money impacts ownership structure. It lets founders and investors accurately model cap table changes, predicting dilution from funding rounds or ESOP growth. You can evaluate anti-dilution adjustments across various investment scenarios, giving you a crystal clear view of who owns what after major capital events.

A+ Quality Score 100/100

cap-table | dilution | valuation | investment | esop | equity-modeling

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vinkius.com/mcp/dilution-calculator

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.

Dilution Calculator MCP

4 tools available
Cloud-hosted on Vinkius

This MCP is built for people who need to know the hard numbers behind company ownership. It simulates complex financial changes that happen during fundraising and organizational growth. For instance, if your startup closes a new round of funding, this tool predicts exactly how much existing shares will be diluted. You can also model what happens when you expand your employee stock option pool (ESOP) or if the market forces an anti-dilution adjustment. It provides a clear view of your cap table evolution.

Running these complex calculations used to mean spending hours wrestling with giant spreadsheets that always contained errors. Now, your AI client can handle it instantly. This MCP lets you run multiple scenarios—from standard funding rounds to down rounds—in minutes. You access the full power of this engine through Vinkius, making advanced equity modeling available to anyone who needs accurate financial foresight.

Core Capabilities

01 — Get Current Ownership Structure

Retrieve a current, definitive snapshot of all outstanding shares and shareholder ownership percentages.

02 — Predict Funding Round Dilution

Simulate how issuing new capital will dilute existing shareholders based on pre-money valuations and investment amounts.

03 — Model Option Pool Changes

Calculate the effective dilution impact that results from resizing or expanding the ESOP.

04 — Evaluate Anti-Dilution Impact

Determine the complex effect of weighted average anti-dilution clauses during a down round investment.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/dilution-calculator** — connect your AI agent in three steps.

01 You feed your AI client key financial inputs, such as current capitalization data, proposed funding amounts, and valuation metrics.

02 The MCP processes these variables through specialized formulas to model the resulting changes in equity ownership and share counts.

03 Your agent returns a clear, calculated report showing the updated cap table, detailing the new ownership percentages and dilution factors.

The bottom line is that it turns complex financial theory into actionable numbers you can trust.

Built For

This MCP targets founders, CFOs, and early-stage investors. If your job involves planning for the next fundraising round or managing employee equity, this tool saves you from spreadsheet nightmares and provides absolute clarity on dilution.

Startup Founder

Uses it to model how much ownership they retain after raising a seed round, ensuring the board understands the true cost of new capital.

CFO / Finance Director

Calculates the precise impact of anti-dilution clauses or ESOP expansions before presenting financial plans to investors.

Venture Capital Analyst

Runs comparative simulations on potential targets, determining how different funding structures affect existing shareholder ownership.

What Changes When You Connect

01 Know exactly what happens when you raise money. Use calculate_round_dilution to predict the exact dilution factor, preventing surprises during board meetings.

02 Manage employee equity accurately. Simulate option pool expansion helps you size your ESOP correctly without accidentally giving away too much ownership.

03 Defend against down rounds. Calculate anti-dilution impact shows precisely how complex protective provisions affect founder and investor shares.

04 Get a current financial picture instantly. The get_cap_table_snapshot tool provides an undeniable, up-to-the-minute view of all shareholder ownership.

05 Run comparative scenarios quickly. You can test multiple funding assumptions in sequence to see the full range of dilution outcomes.

Real-World Applications

Figuring out post-seed round ownership

A founder asks: 'If we raise $5M on a $20M pre-money valuation, how much do I own afterward?' The agent runs calculate_round_dilution and returns the new percentage split for all founders.

Adjusting the employee option pool

A CFO asks: 'If we want to grow our team by 15 people, what is the resulting dilution?' The agent uses simulate_option_pool_expansion and gives a precise ownership cost.

Analyzing poor funding market conditions

A VC analyst asks: 'What's the impact on our founders if we have to accept a down round with these terms?' The agent runs calculate_anti_dilution_impact, showing the exact adjustment ratio.

Preparing for board meetings

A startup executive asks: 'What is our current ownership structure as of today?' The agent executes get_cap_table_snapshot and provides a clean, verifiable list of all owners and their stakes.

Patterns to Avoid

Assuming dilution doesn’t matter

✗ AVOID

Relying on gut feeling or old models to estimate ownership after funding. This often misses key clauses like anti-dilution, leading to misaligned expectations.

✓ INSTEAD

Always run get_cap_table_snapshot first for the baseline, then use calculate_round_dilution and simulate_option_pool_expansion together to model every variable.

Ignoring anti-dilution clauses

✗ AVOID

Calculating ownership changes only based on the cash raise amount, forgetting that poor market conditions trigger complex protective rights.

✓ INSTEAD

If there's any chance of a down round or variable pricing, you must run calculate_anti_dilution_impact to get the legally accurate ownership picture.

Using outdated cap table data

✗ AVOID

Starting calculations with an ownership structure that hasn't accounted for recent option grants or previous small investments.

✓ INSTEAD

Start by running a fresh get_cap_table_snapshot to ensure your calculation is based on the absolute most current, verifiable ownership percentages.

The Right Fit

Use this MCP if you need certainty about equity. You must run it anytime a major capital event happens or when employee compensation plans change significantly. If you are only checking simple arithmetic (like calculating total shares), use basic tools instead. However, if the calculation involves funding rounds, ESOP resizing, or anti-dilution clauses, this MCP is mandatory because these variables interact in ways standard spreadsheets can't track. Don't just look at the cash; calculate the ownership change using calculate_round_dilution and simulate_option_pool_expansion to know your true runway.

Dilution Calculator: Modeling Founder Equity During Fundraising

Right now, modeling equity changes feels like a nightmare. You open a massive spreadsheet filled with tabs for current ownership, potential ESOP grants, and the proposed investment round. Then you spend hours manually adjusting formulas every time an assumption changes—a new grant here, a different valuation there. It's tedious, prone to human error, and takes focus away from strategy.

With this MCP, your agent handles it in seconds. You feed it the core variables, and it simulates how ownership shifts across all scenarios. The result is an immediate understanding of dilution, letting you stop worrying about formulas and start focusing on growth.

Dilution Calculator: Understanding ESOP Impact and Anti-Dilution Rules

Manually tracking the impact of an expanded option pool is brutal. You have to calculate how many new shares are reserved for employees and then model that against existing shareholder ownership, making sure you don't double count anything across multiple rounds.

This MCP solves that complexity. It doesn't just estimate; it calculates the effective dilution from ESOP resizing, giving founders a clear, accurate cost of employee growth.

4 Tools in Dilution Calculator for Equity Modeling

Use these tools to get a complete picture of your company's ownership structure, simulating funding rounds, ESOP growth, and protective adjustments.

#	TOOL	DESCRIPTION
01	`calculate_round_dilution`	Simulates the immediate dilution effect when a new investment round occurs.
02	`calculate_anti_dilution_impact`	Evaluates ownership changes using the Broad-Based Weighted Average anti-dilution method.
03	`get_cap_table_snapshot`	Provides an instant overview of every current shareholder's equity stake in the company.
04	`simulate_option_pool_expansion`	Calculates how much existing ownership is diluted when the Employee Stock Option Pool (ESOP) grows.

See It in Action

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

U What is our current ownership structure?

Current Cap Table Snapshot

SHAREHOLDER	OWNERSHIP (%)
Founders (A, B)	70%
Employees/ESOP	20%
Seed Investors	10%

Total Shares Outstanding: 10,000,000

This view is based on the most recent grant date.

U If we raise $4M at a $25M pre-money valuation?

Funding Round Simulation Results

Post-Money Valuation: *$29,000,000*
New Investor Stake: *13.8%*
Existing Shareholder Dilution Factor: *0.864*

The dilution is manageable for the existing team, but we need to account for anti-dilution protection.

U Calculate the effect of a down round adjustment?

Anti-Dilution Impact Analysis (Broad-Based Weighted Average)

Previous Conversion Price: *$1.50*
New Conversion Price: *$1.20*
Calculated Adjusted Price: *$1.38*
Adjustment Ratio: *0.95*

This means the previous investors are protected, resulting in a weighted average price adjustment.

Frequently Asked Questions

01 **How does the Dilution Calculator handle ESOP changes?**

It calculates exactly how much ownership is diluted when you expand your employee option pool. This prevents you from over-reserving shares and ensures founder equity remains protected during growth stages.

02 **Can I predict ownership after a down round?**

Yes, the calculator runs complex anti-dilution simulations. It provides an accurate figure of your adjusted ownership stake even when market conditions force unfavorable terms.

03 **What is the best way to see my current equity split?**

You use the get_cap_table_snapshot function within the Dilution Calculator. It gives a single, clear view of every shareholder's stake and total shares outstanding right now.

04 **What if we raise money at a new valuation?**

You run a round dilution simulation using calculate_round_dilution. This shows you the immediate ownership shift, telling you exactly what percentage of the company new investors will take and how much existing equity is diluted.

05 **Does this tool account for anti-dilution protection?**

Absolutely. The Dilution Calculator uses specialized formulas to calculate the Broad-Based Weighted Average impact, giving you a legally sound estimate of your ownership adjustments.

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 `"dilution-calculator": { "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

Dilution Calculator 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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