

LONDON 2026

# Build Bigdata Agent

SUBJECT A finance harness for agents

SPEAKER Marko Kangrga

THREE MOVEMENTS

ACT I How we built our finance harness

ACT II Reliability, and a bridge

ACT III Workflows: control for one agent, then many

PREMISE

# Finance is a **hostile** environment for agents

> in finance, plausible is dangerous.

01 STAKES

// real numbers, real claims

A wrong figure changes a decision. The cost is not embarrassment, it is misallocation.

02 AMBIGUITY

// entity, period, scope

Which AAPL? Q3 of which fiscal year? "Latest" by whose calendar? Every question hides several wrong answers.

03 PROOF

// citations, always

Nothing is real until it is sourced. The output is a chain of evidence, not text.

WHAT A FINANCE AGENT NEEDS TO ACTUALLY WORK

# Four non-negotiable pillars

## 01 Data

Access to all financial sources - structured and unstructured, internal and external.

## 02 Context

Bring the right context to the agent, automatically.

## 03 Verification

Verifiable end-to-end.

## 04 Scalability

Beyond a demo.

THE TOOLSET

# A toolset shaped for finance

structured output · small & high-leverage · sprawl-resistant

## search

// public web · private files · premium

## transcripts

// earnings calls · presentations

## filings

// SEC · RNS · pre-filtered

## earnings\_calendar

// dates · EPS · related docs

## tearsheet

// structured KPIs and financials

## resolve\_entity

// knowledge-graph resolution

## fetch\_url

// drill into a specific document

## code\_execution

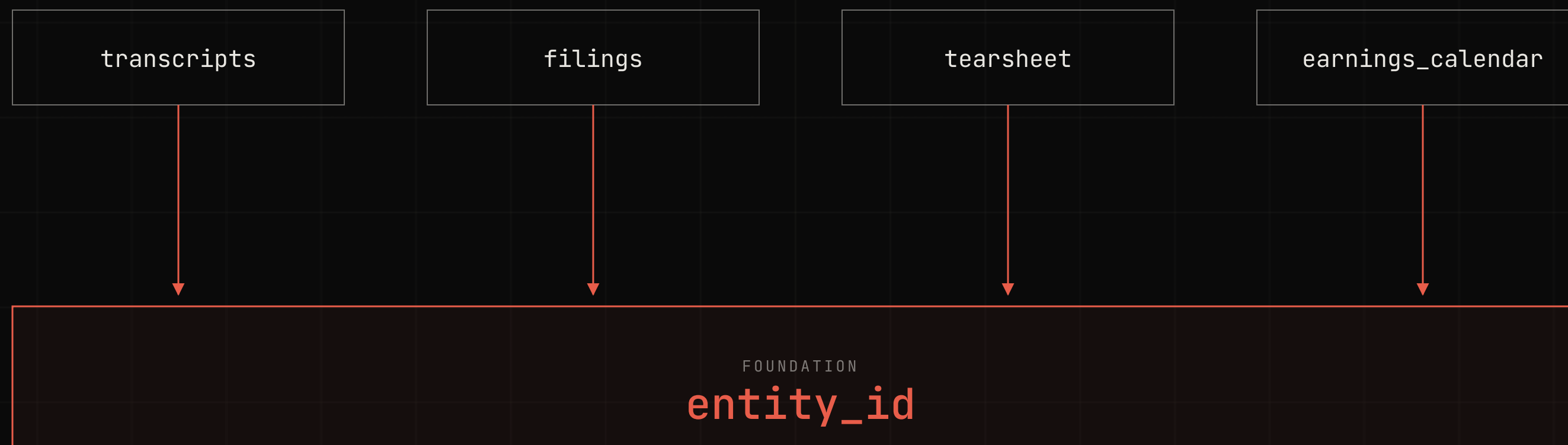
// secure sandbox execution

NEW

SHARED ENTITY\_ID

# One shared id. Higher precision, everywhere

Most agent failures in finance are entity confusion. A stable `entity_id` is the smallest piece of infrastructure that prevents the most mistakes.



WHERE GENERIC AGENTS FAIL

# Two confident, plausible, wrong answers

FAILURE 01 · WRONG PERIOD

IN Latest NVIDIA earnings

01 → search "Q1 26 NVIDIA earnings"

02 → read "Q1 26 transcript"

OUT Answer

× WRONG  
calendar quarter, not fiscal.

FINANCIAL CONTEXT ENGINEERING

# The system injects context. The model follows

The fix is not a smarter prompt. It is a smarter context.

```
IN "Latest NVIDIA earnings"
```

CODE EXECUTION

# Power, without the security nightmare

Code is the highest-leverage capability and the most dangerous one.

× Local agents that can do anything

*// your docs end up on the internet.*

GROUNDING · CONTRACT

# Every claim, traceable to a **source**



> no source → no claim. evidence is a first-class output.

GROUNDING · IN THE CLIENT


# One click from claim to source

Click a citation, land on the transcript line, the filing paragraph, the headline.


CONTRACT SCOPE

no source → no claim  
every tool · every agent

## On Financial Performance and Outlook

NVIDIA reported another strong quarter, with revenues of \$57 billion, a 62% increase year-over-year. Data Center revenue was a record \$51 billion, up 66% from the previous year. Looking ahead, the company expects total revenue for the next quarter to be around \$65 billion. In terms of profitability, NVIDIA anticipates GAAP and non-GAAP gross margins to be 74.8% and 75%, respectively. While input costs are expected to rise in fiscal year 2027, the company is working to maintain gross margins in the mid-70s. 

## On M

 Quartr Transcripts · Nov 19, 2025 · English

### NVIDIA Corporation: Q3 2026 Earnings Call on Nov 19, 2025 - Transcript

## NVID

from

comp

trillio

contir


our G

We delivered another outstanding quarter with revenue of \$57 billion, up 62% year over year, and a record sequential revenue growth of \$10 billion, or 22%. Ou...

< 1 of 3 >

[Read more](#)

## On Product Innovation and Performance

with visibility into \$500 billion in revenue through the end of calendar year 2026. The structure build-out could become a \$3 decade. Demand for AI infrastructure is fully utilized. "The clouds are sold out, and executive noted. 

RELIABILITY PRIMITIVES

# Long-running agents need real engineering

Reliability is a feature, not a bolt-on. None of the rest of the talk works without this.

01

## rate limits

→ backoff + retry

02

## tool errors

→ error-as-data

03

## timeouts

→ retries + budgets

04

## long runs

→ checkpoints

05

## parallel

→ concurrency limits, tiered

06

## observability

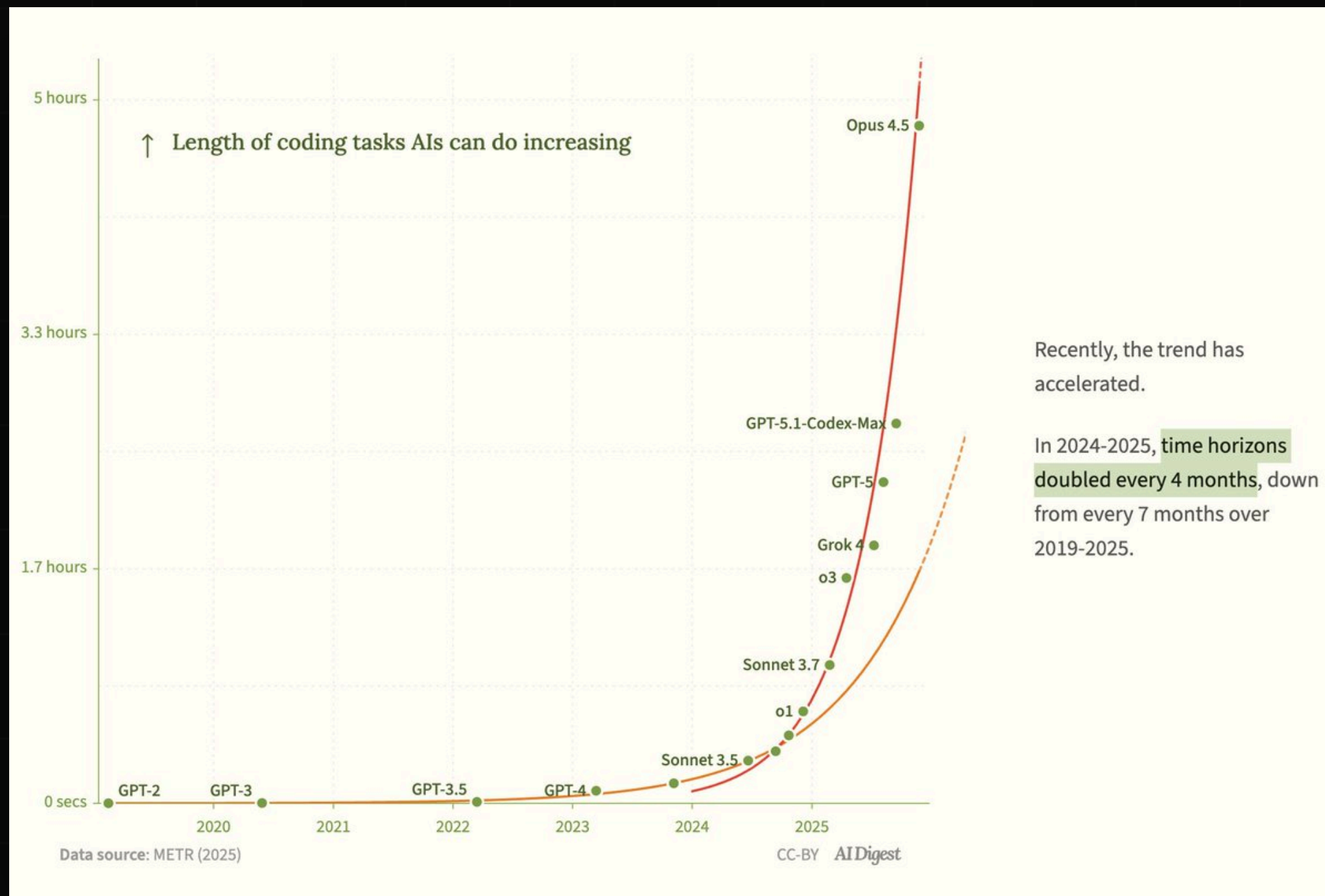
→ event streams

THE BITTER LESSON

# Models keep getting better

We don't fight them. We give them **control surfaces** and let their growing capability flow through.

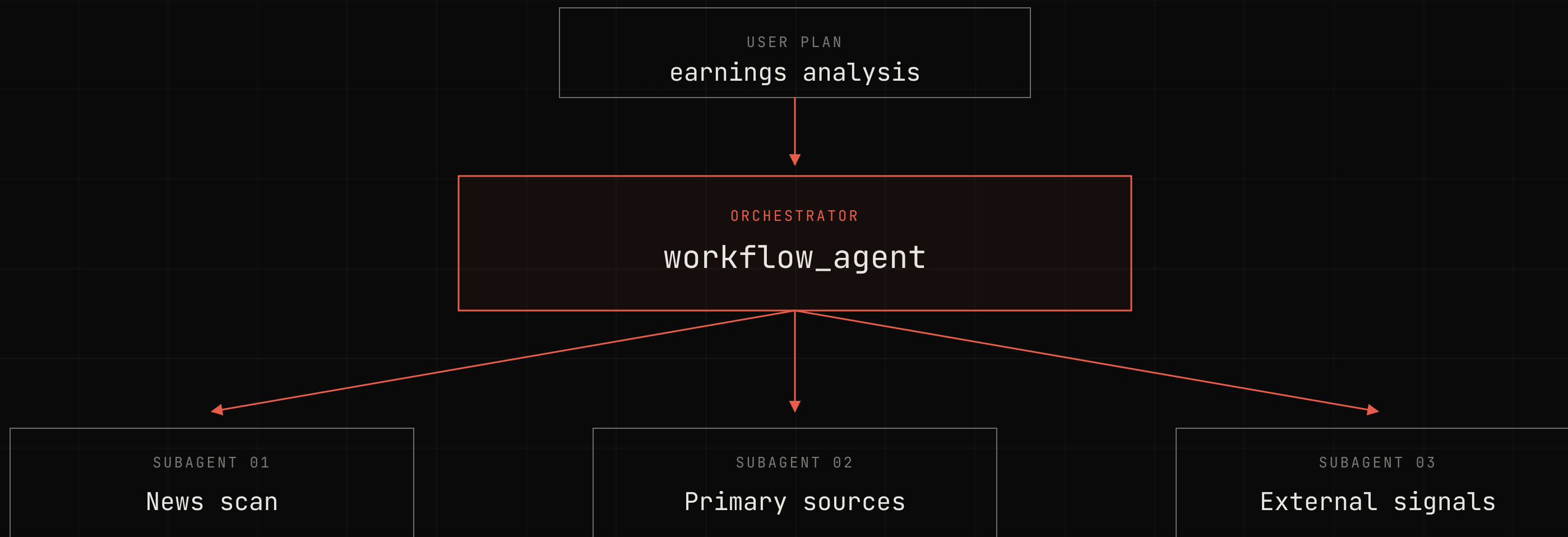
- > clever scaffolding becomes legacy debt
- > control surfaces compound with the model



WORKFLOWS

# Agent as execution unit

Steer the work through a plan, not a prompt. Orchestrator delegates, subagents execute.



> user → focused plan · workflow\_agent → orchestrate · subagents → execute · synthesis → result

PLANNER · STEER IN PLAIN ENGLISH

# Talk to your plan Accept the diff

User asks for a change. Planner proposes a precise edit to the existing plan. User accepts.

- > existing plan in scope
- > speak to it like an analyst
- > system suggests, you decide

Earnings Analysis Plan

● UNSAVED CHANGES

YOU

*"Also compare against industry peers, same-sector competitors that reported recently. I want to know if margin trends are company-specific or sector-wide."*

↓ PLANNER · PROPOSED EDIT

+ 1 step · 3 and 4 renumbered

1. Find the most recent earnings call transcript and SEC filings.
2. Extract key financial metrics: revenue, EPS, guidance, segment performance.
- + 3. Identify same-sector peers that reported in the last 60 days; pull their headline metrics and margin trends for side-by-side comparison.**
4. Compare against analyst expectations and prior-quarter results.
5. Identify management sentiment and forward guidance changes.

DISCARD

✓ ACCEPT

COMPOSABLE AGENTS

# A team of specialised agents

One substrate. Five configured agents on top. A sixth is a config, not a redesign.

ROLE · WORKER	ROLE · WORKER	ROLE · WORKER	ROLE · ORCHESTRATOR	ROLE · DESIGNER
<h2>LITE</h2> <p>Quick lookups. Fast and cheap.</p>	<h2>DEEP</h2> <p>Multi-source research with planning.</p>	<h2>CODE</h2> <p>Quantitative analysis in sandbox.</p>	<h2>MAX</h2> <p>Delegates and plans. No research itself.</p>	<h2>PLAN</h2> <p>Designs workflow templates.</p>

> substrate: `prompt + tools + tool_choice + spawn_scope`

GROUNDING · BETWEEN AGENTS

# Citations don't get lost at the boundary

Agents talk to each other through evidence. Both directions. Nothing opaque.

ORCHESTRATOR → SENDS

"Verify the claims in this article."

📄 article.pdf

+ inherited citations

↓ INHERITED · "here's what I already cited"

REPLIES ← SUBAGENT

"3 of 4 claims verified. One contradicted by SEC filing."

- ↳ ✓ 10-K p.42 · revenue recognition
- ↳ ✓ Q3 transcript · guidance
- ↳ × 8-K filing · contradiction

↑ PROPAGATED · "here's what I found, with citations"

REACH BEYOND BIGDATA

# Standards, not silos

Your agents reach our data. Then your tools, your files, the MCP ecosystem.



INCOMING

## MCP

A curated set of high-value integrations, with generic MCP support to follow.



INCOMING

## FILES

File attachments to provide local context to the agent.



INCOMING

## SKILLS

Standard skill support, on the way to enhance research.

VISION · 24/7 FINANCE AGENT TEAM

# Your finance agent team Working around the clock

● DASHBOARD · LIVE Tue 14:38 GMT

---

ACTIVE

- ▶ earnings tracker · NVDA · AAPL · MSFT running · 2m 14s
- ▶ macro signals weekly digest running · 0m 45s
- || credit-watch screen paused

SCHEDULED

- ⊖ Q4 earnings preview tomorrow · 06:00
- ⊖ portfolio rebalance check Mon · 09:00

RECENT

- ✓ NVDA Q3 review yesterday · 42 citations
- ✓ banking sector update yesterday · 118 citations
- ✓ EU autos screen 2d ago · 14 citations

> you set the strategy · the team executes · you verify the work

# Q&A

---

BUILD BIGDATA AGENT · A FINANCE HARNESS FOR AGENTS

Marko Kangrga