

Catching the Future

The Architecture of Dynamic Assurance in Frontier AI



Why traditional Internal Audit must evolve to measure machines that never sit still.

The Call to a Role That Doesn't Exist (Yet)

It was not quite legal.
Probably not risk.
Definitely not
Internal Audit as we
have known it.

The Message:
I'm joining Google DeepMind as
Head of Frontier Assurance...

The Method:
A DM from DH to TM about AI.
No recruiter. No search firm.

The Challenge:
A conversation about a
problem that apparently kept
refusing to sit nicely inside
any existing box.



The One Convenient Assumption of Traditional Assurance



Every assurance model ever built has quietly relied on one very convenient assumption: The thing you are reviewing stays still long enough to be reviewed.

Frontier AI Has Other Ideas



These systems do not simply “run.”
You can look at the same model and still not really
be looking at the same risk seconds later.

The Anatomy of a Shape-Shifter

Synthesis: Change a single input, and the output completely transforms. The risk profile is highly adaptive and endlessly consequential.

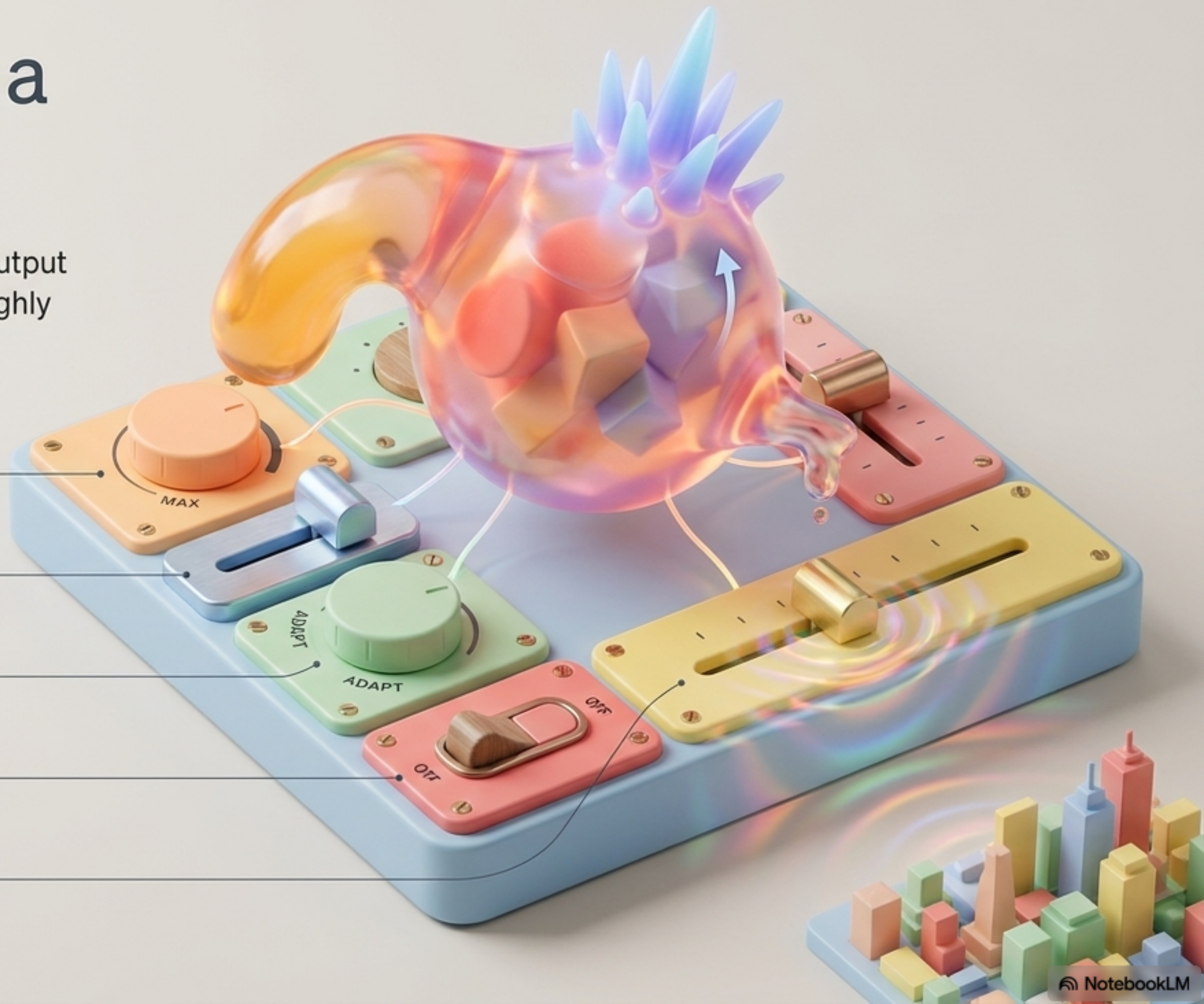
Context & Prompts

Permissions & Tools

Data & Fine-Tuning

Guardrails & Integrations

Real-World Use



The 'Three Paddocks' Problem

By the time a traditional assurance cycle has finished stretching, the horse may already be three paddocks away.



The Illusion of Static Safety



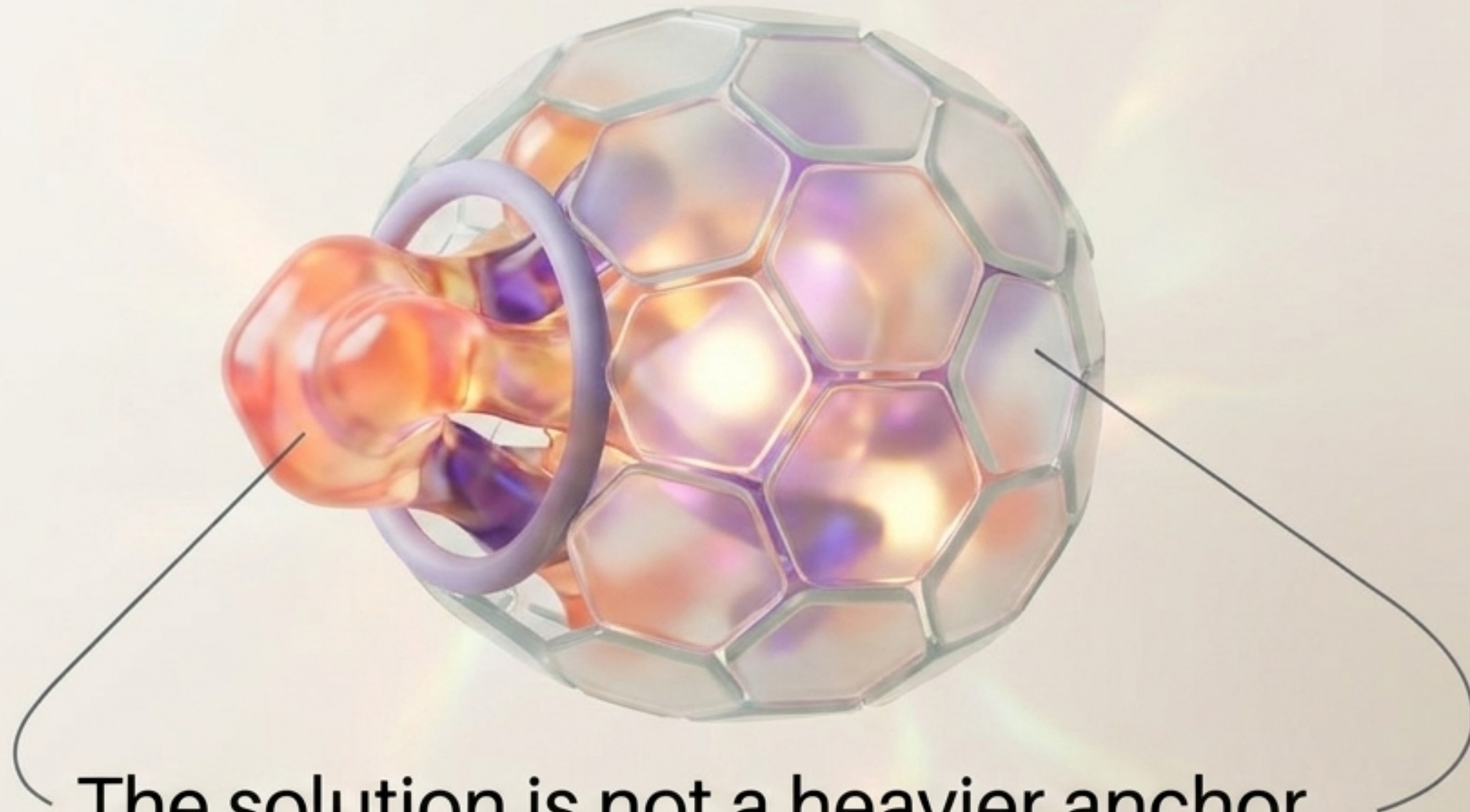
We can no longer pretend that a static review, a periodic audit, a model card, a red-team report, or a governance committee is enough on its own.

The Genuinely Hard Problem

How do you provide independent, evidence-based assurance over something dynamic, adaptive, and highly consequential?

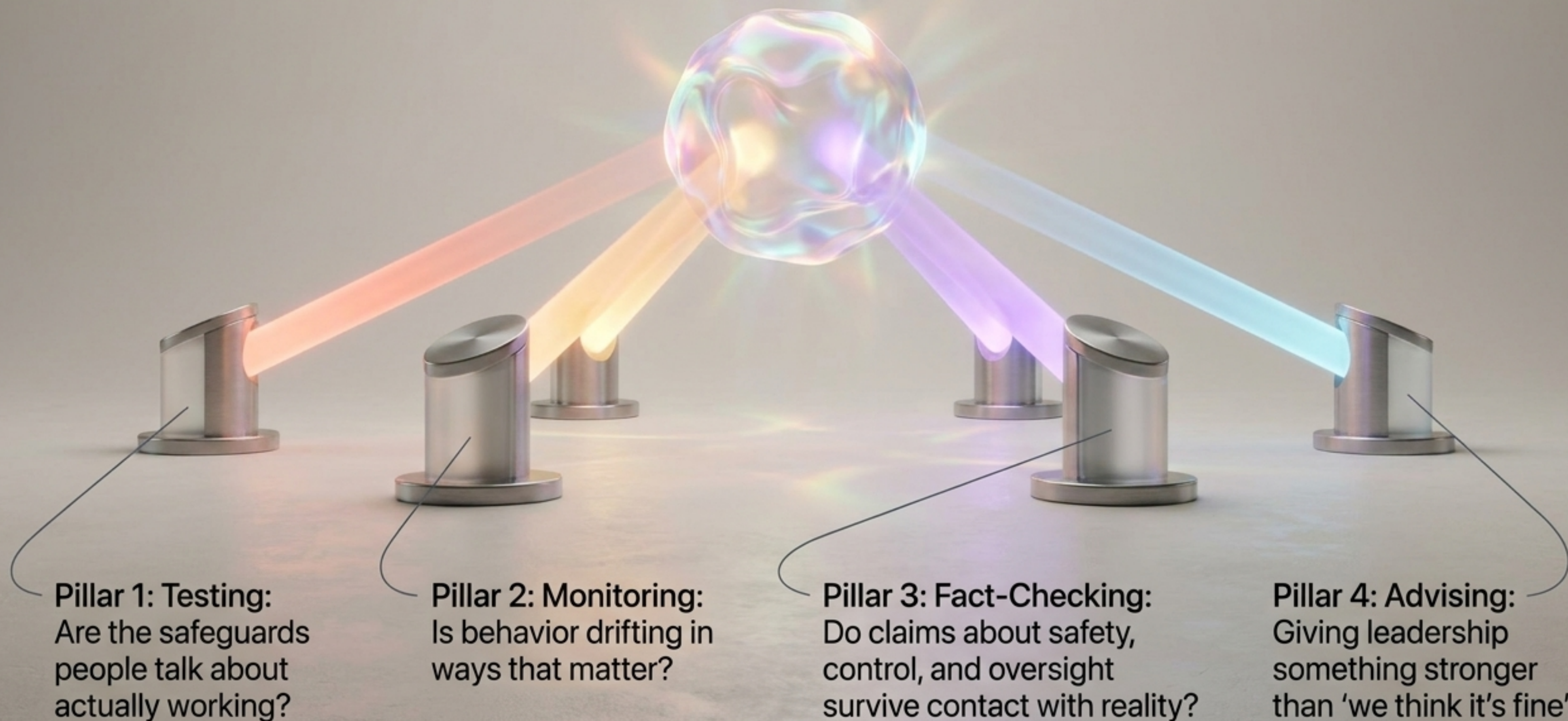


The Architecture of Dynamic Assurance



The solution is not a heavier anchor.
It is pulling the pieces together into a living,
independent, board-facing verification layer.

The Four Pillars of the Living Layer



The Paradigm Shift: Static vs. Dynamic

Traditional Audit



Frontier Assurance



The Story Was Fiction. The Need Is Fact.

Demis Hassabis hasn't sent that DM.

After six weeks of conversations with safety, research, governance, and board leadership, that specific job offer hasn't happened.

But this role—or something very close to it—will soon exist for someone, somewhere.



Titles of Tomorrow

The specific title does not matter.
The underlying function is
mandatory and coming fast.



The Equation of Need



The Ultimate Test for Internal Audit



The real question is not whether Internal Audit can simply use AI. It is whether Internal Audit can help assure intelligent systems that no longer sit still long enough to be audited. Will you be ready?