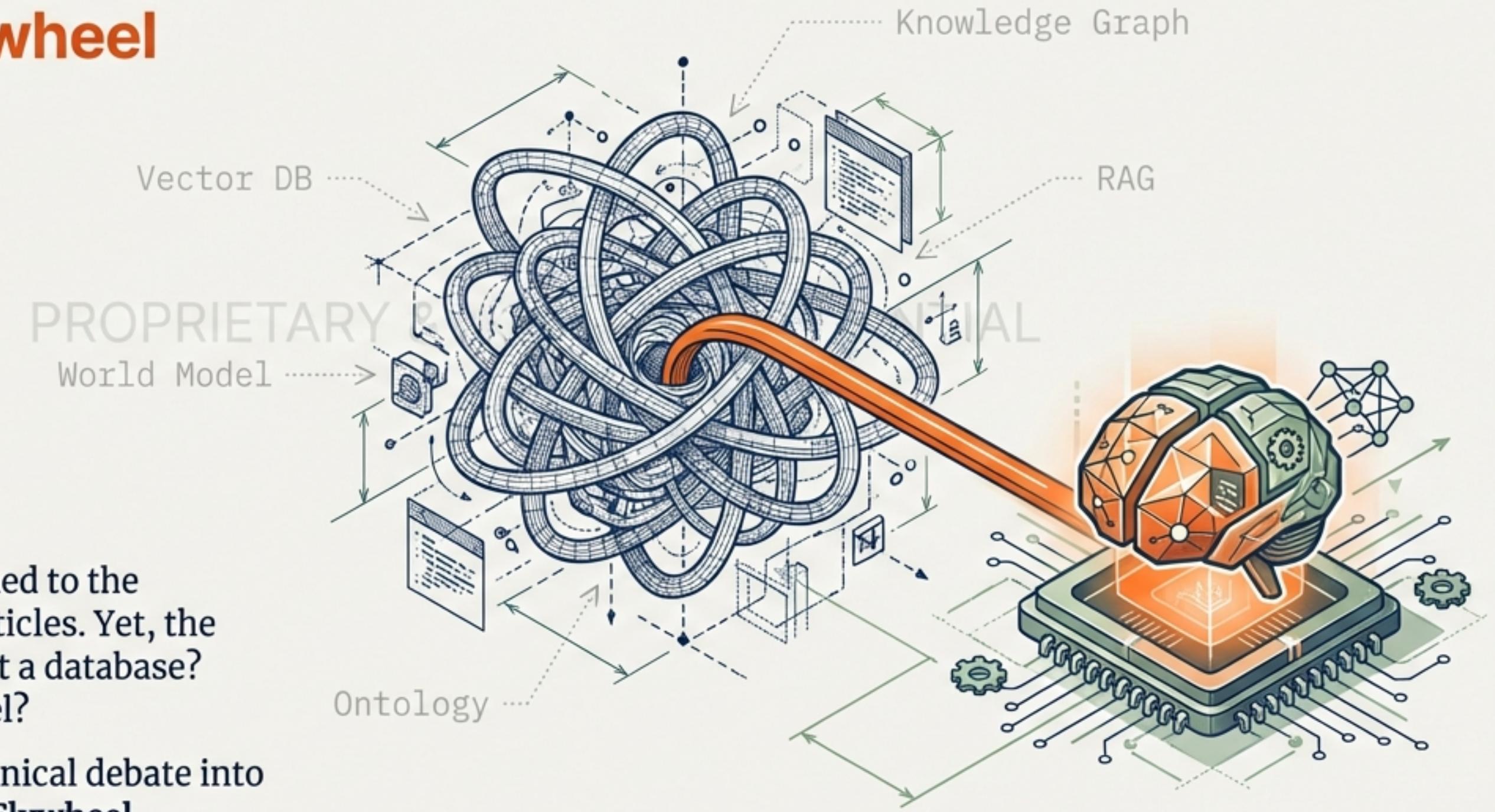


# WTF is a Context Graph?

## A Guide to the Trillion-Dollar Problem & The Context Flywheel

You've read the threads, listened to the podcasts, and skimmed the articles. Yet, the definition remains elusive. Is it a database? A methodology? A world model?

This deck synthesizes the technical debate into a unified model: **The Context Flywheel**.



OCT 26, 2024

REV. 1.0

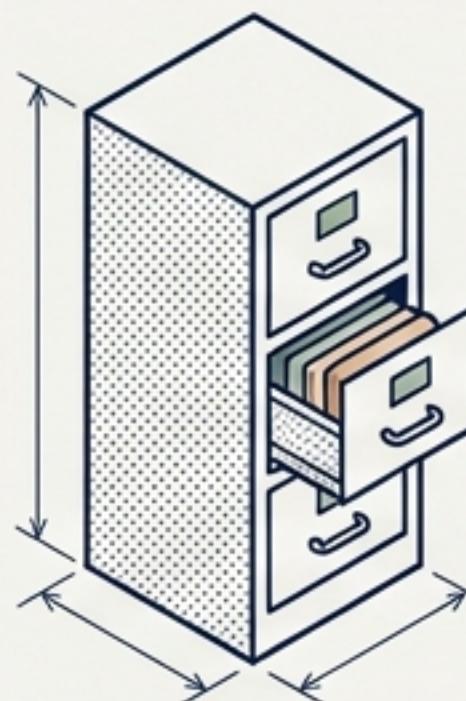
NotebookLM

# The Shift: From Systems of Record to Systems of Reasoning

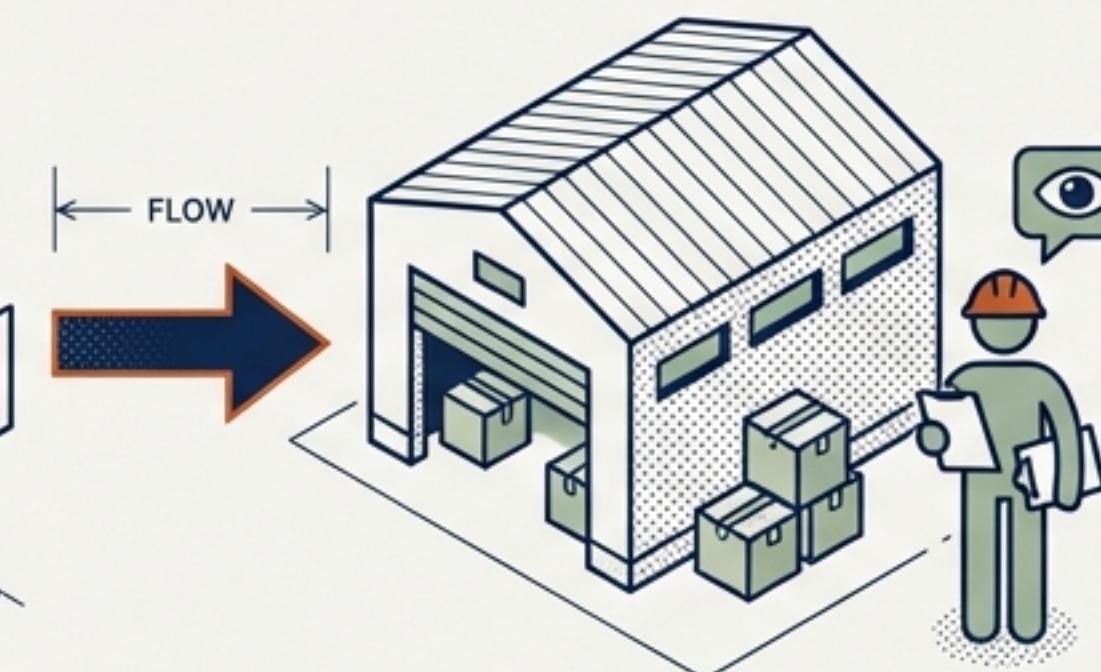


## THE HUMAN ERA

### ERP / CRM



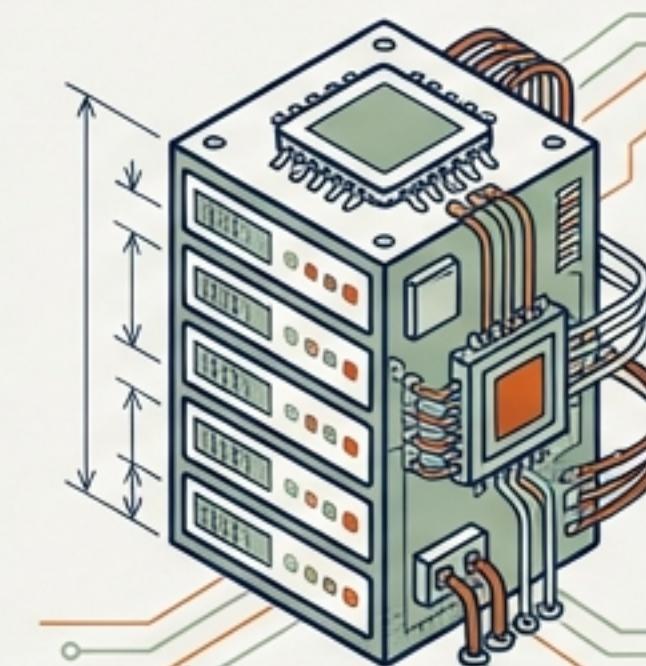
### Read Layer



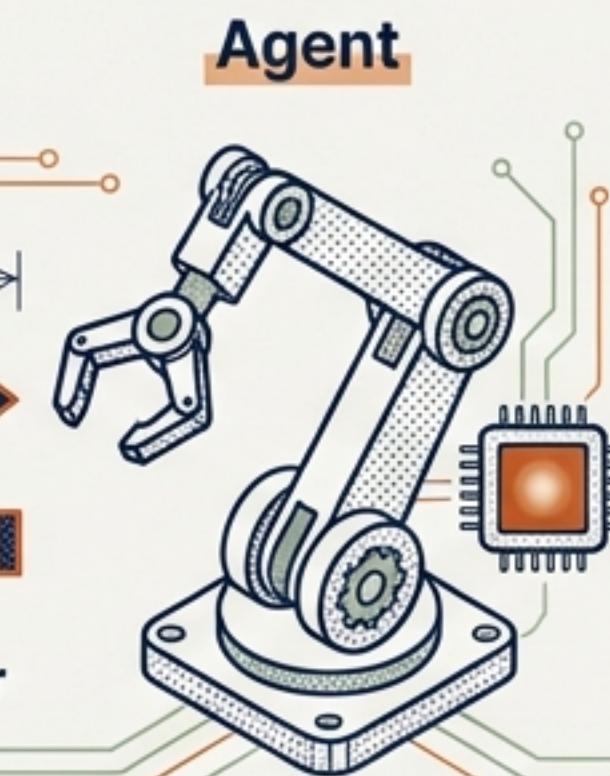
**Systems of Record:**  
Storage designed for humans.  
Static snapshots.

## THE AGENT ERA

### Context Graph



### Write Layer



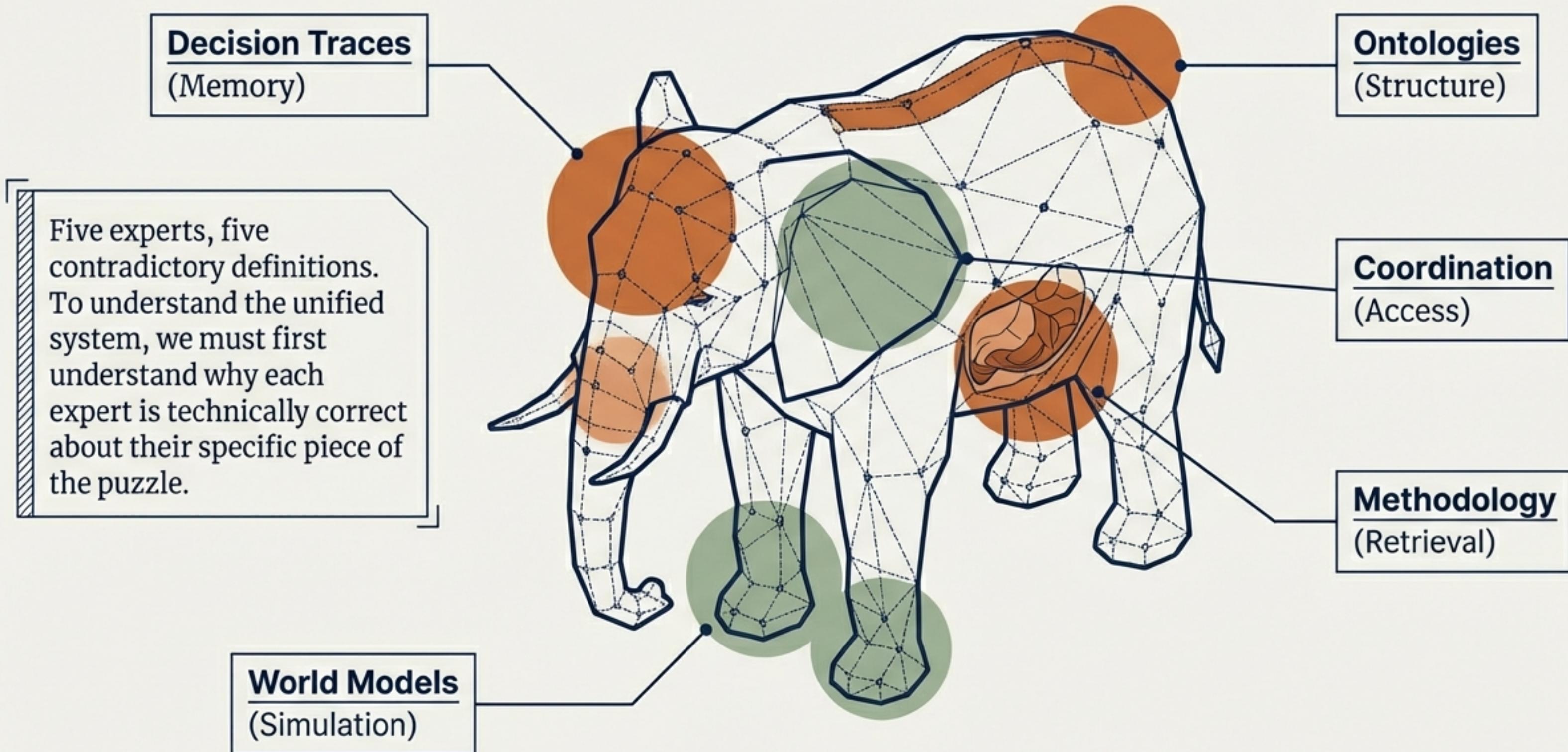
**Systems of Reasoning:**  
State machines for Agents.  
Dynamic inputs & outputs.

SCALE 1:1



We are moving from humans managing data to humans orchestrating agents.

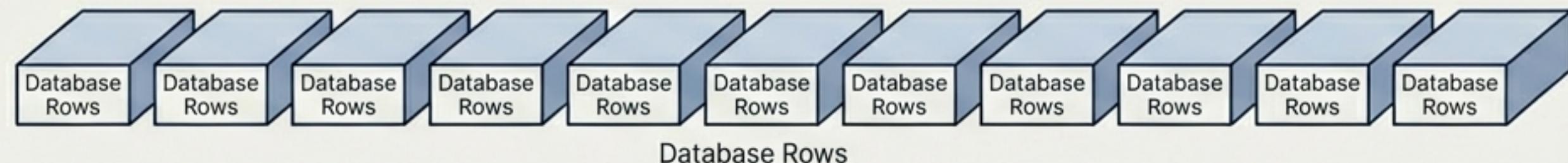
# The Definition Problem: Five Blind Men and the Elephant



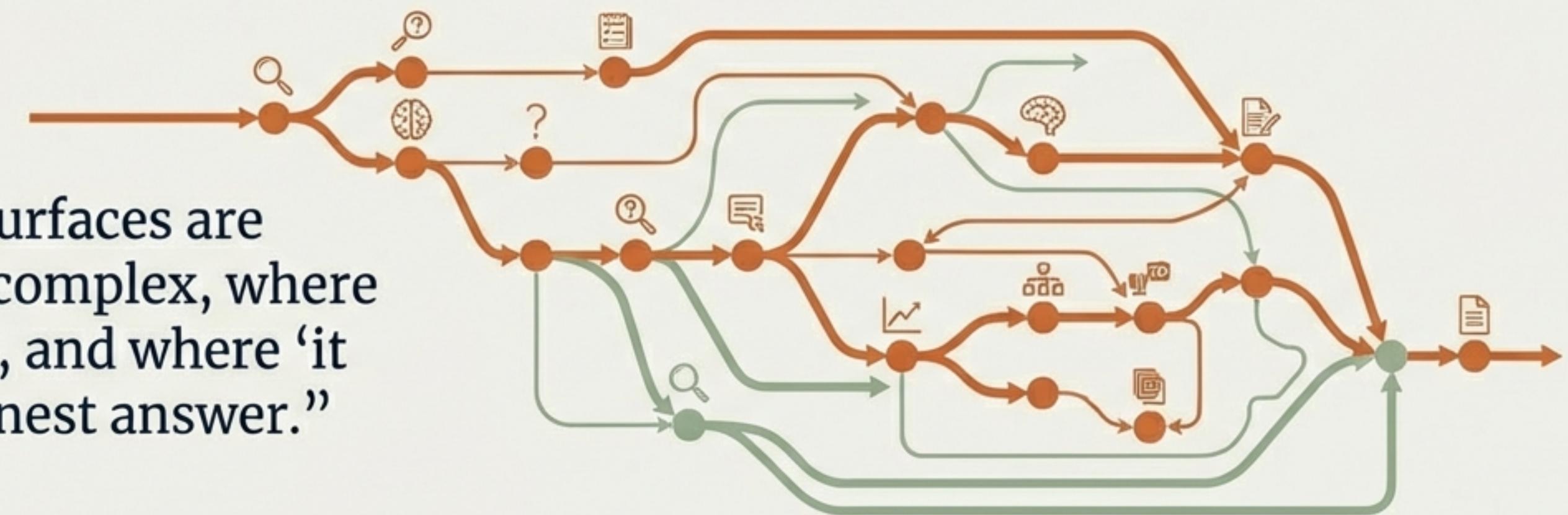
# Perspective 1: The Missing Memory

Focus: Decision Traces

**Data Warehouse**  
(State)



**Decision Trace**  
(Reasoning)



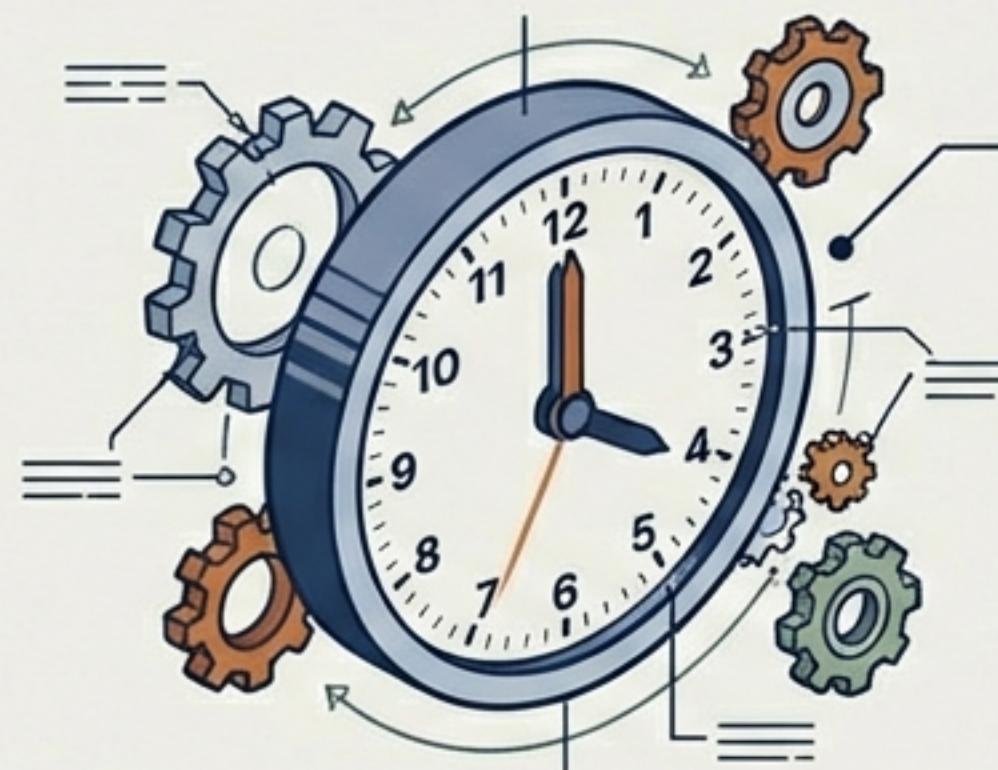
“The interesting surfaces are where the logic is complex, where precedent matters, and where ‘it depends’ is the honest answer.”

— Jaya Gupta

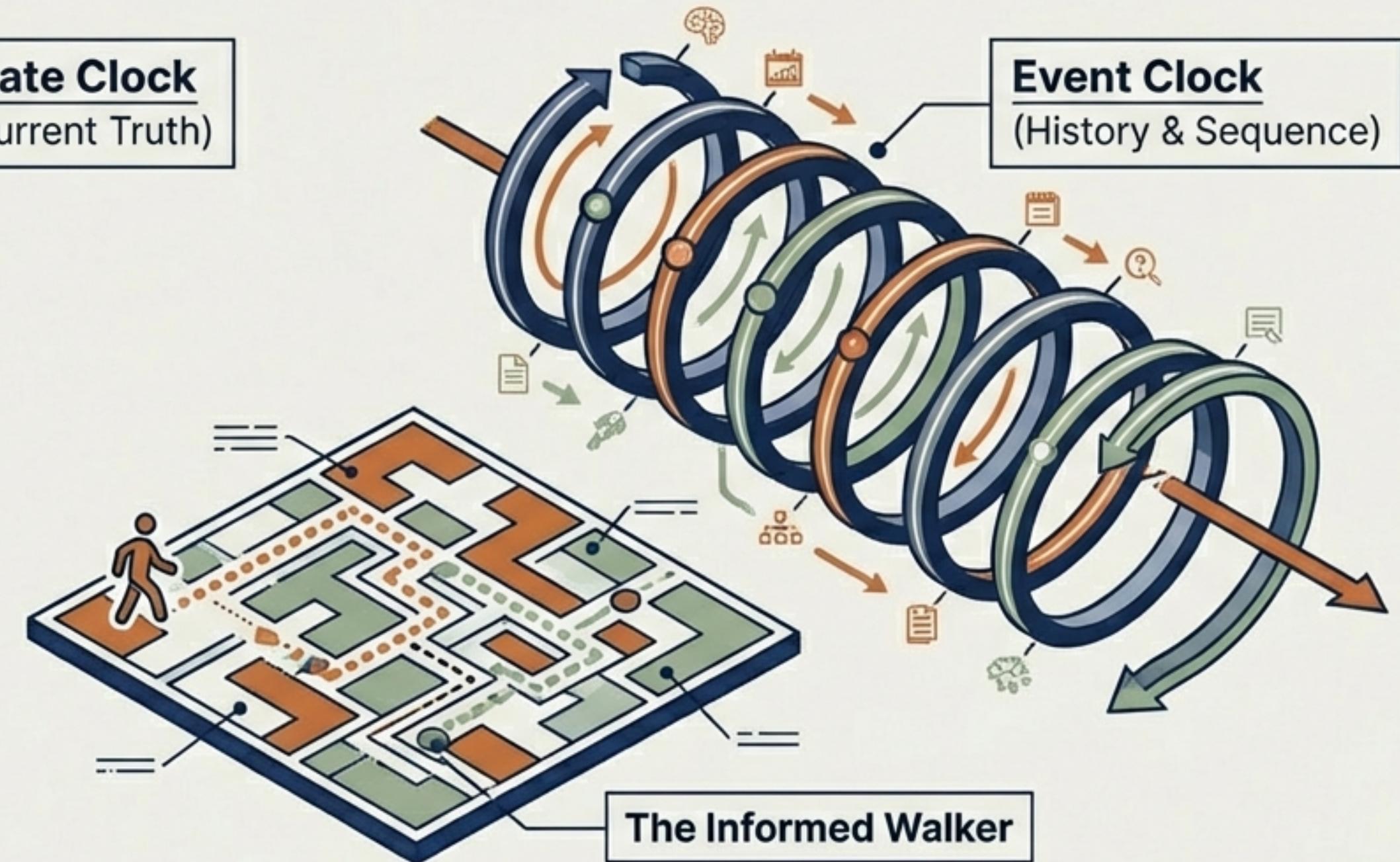
**Key Insight:** Warehouses store *what* happened. Context Graphs must store *why* it happened.

# Perspective 2: The Two Clocks

Focus: World Models



**State Clock**  
(Current Truth)



**Animesh Koratana's Insight:** We have infrastructure for the State Clock, but not the Event Clock. By tracking an agent's "walk" through an organization, we build a World Model of organizational physics.

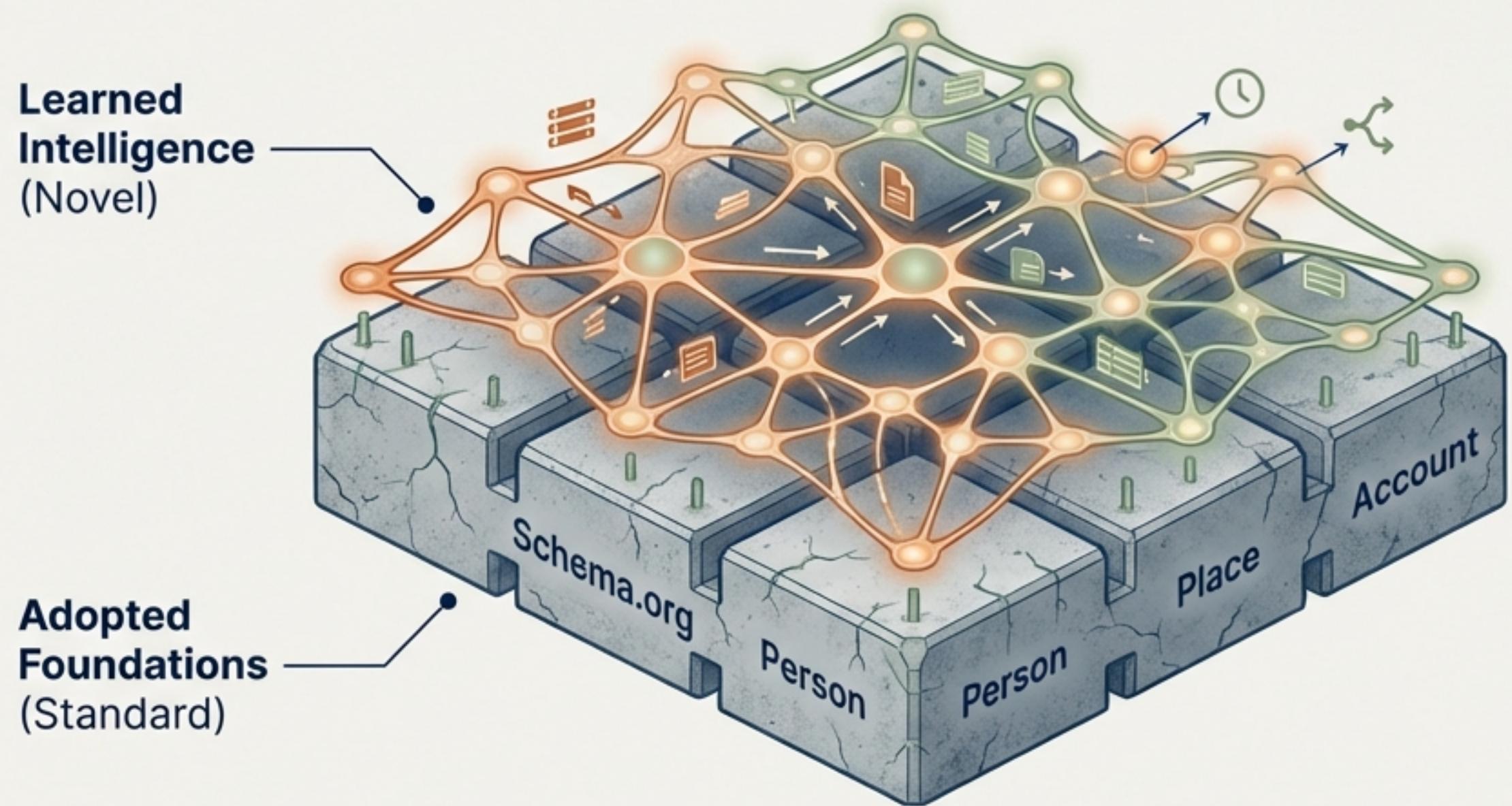
**The Informed Walker**

SCALE 1:1

**Key Insight:** Building a World Model requires capturing the full historical sequence of an organization's actions, not just its current state.

# Perspective 3: The Foundation

Focus: Ontologies (Prescribed vs. Learned)



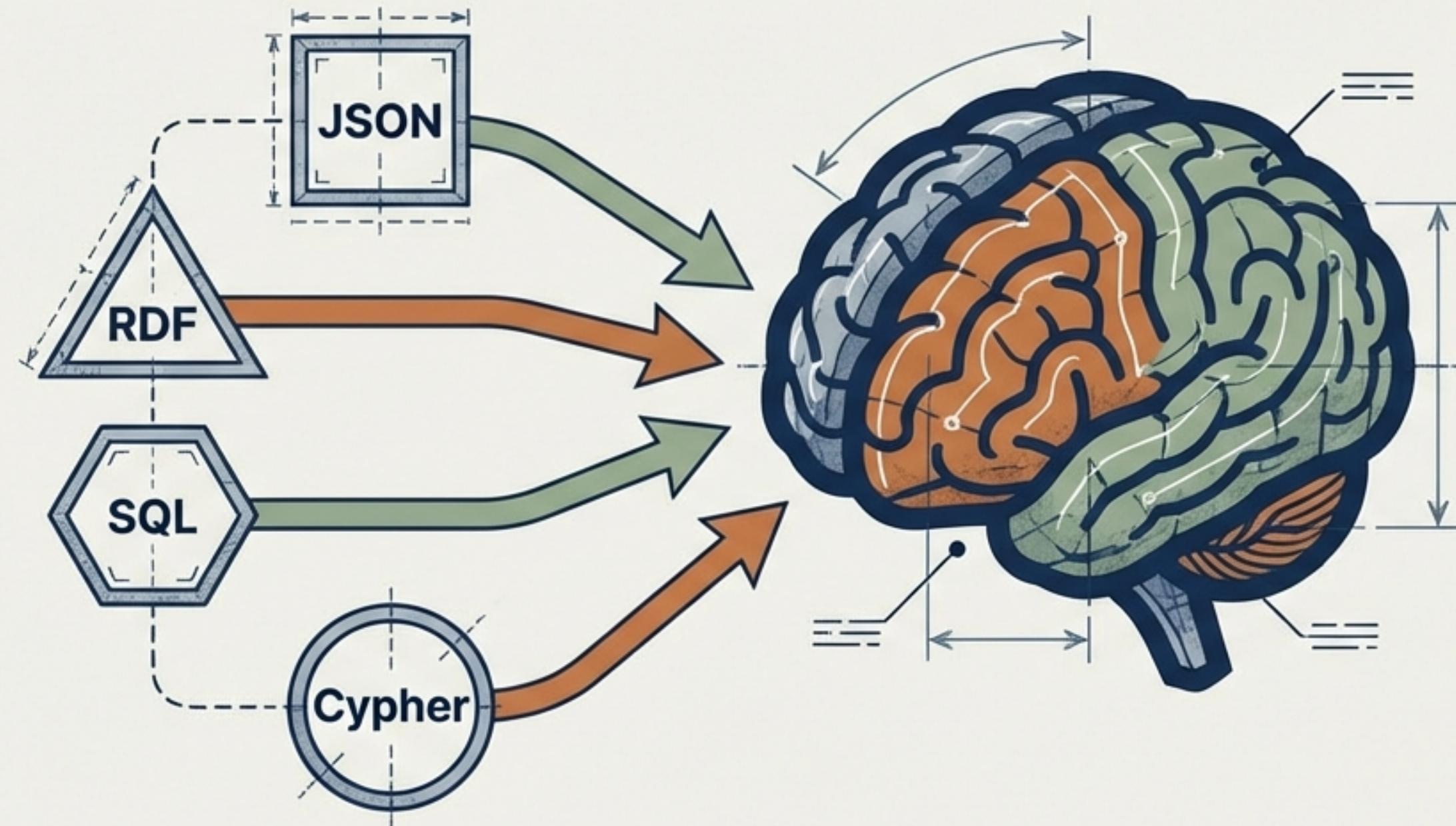
**Kirk Marple's Argument:**  
Don't reinvent the wheel.  
Use existing standards for  
the basics.

Use AI to learn the *novel*  
organizational  
intelligence—temporal  
validity and custom  
relationships.

**Key Insight:** A robust Knowledge Graph is a hybrid system, combining stable, adopted standards with fluid, AI-learned relationships and context.

# Perspective 4: The Methodology

Focus: Optimization for Retrieval



**TrustSpooky's Manifesto:**  
A Context Graph is not a specific database format. It is a methodology.

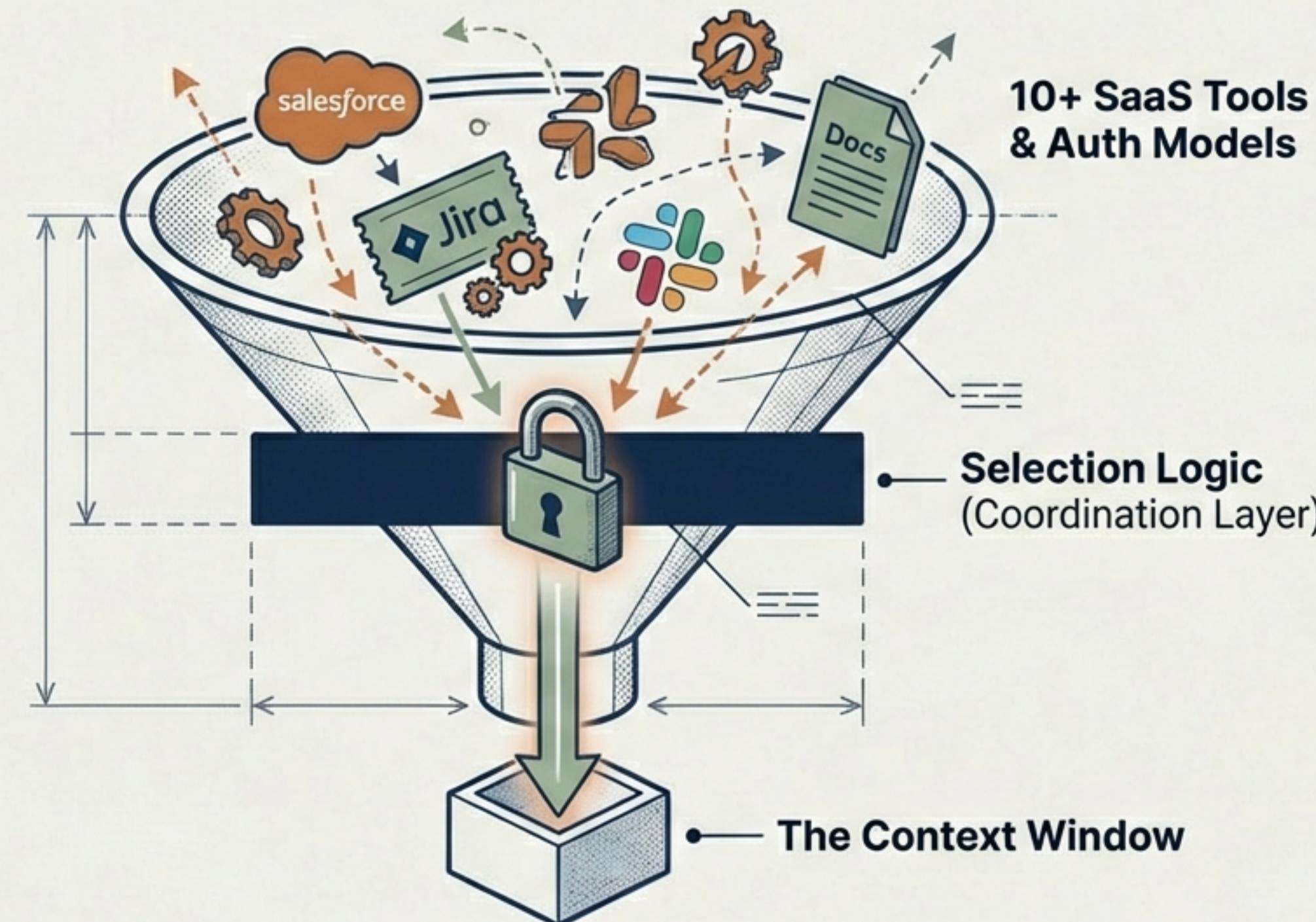
LLMs don't care about syntax; they care about semantic meaning. The graph is just the format; Context is the optimization.

**Key Insight:** A Context Graph is a methodology for LLMs to understand semantic meaning, optimizing retrieval regardless of the underlying data format (JSON, RDF, SQL, Cypher).



# Perspective 5: The Gatekeeper

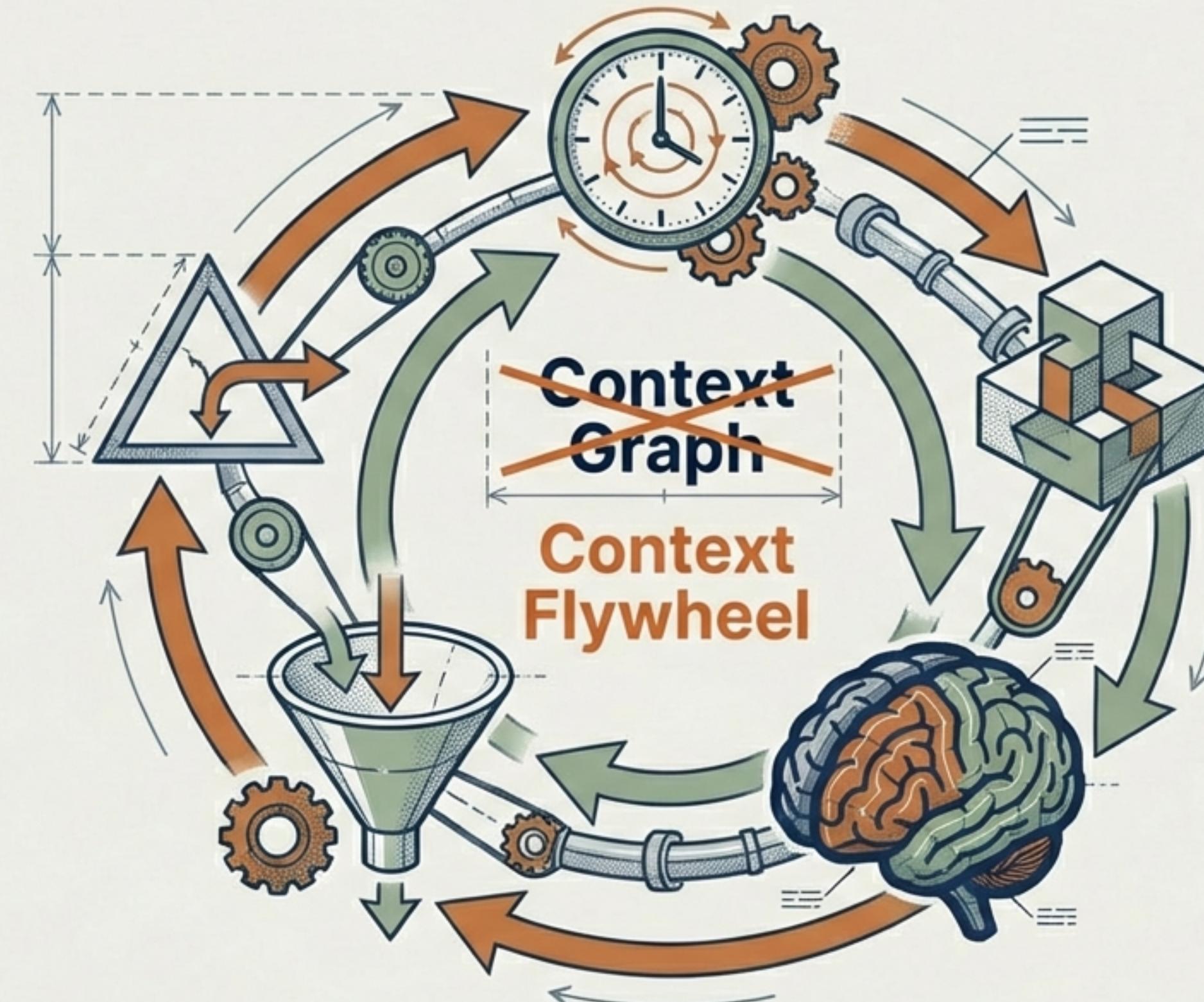
Focus: Operational Reality & Coordination



**Gil Feig's Insight:**  
The hard problem is Selection.  
If you show the agent everything, it enters the 'Dumb Zone'.

The coordination layer decides what slice of reality to assemble.

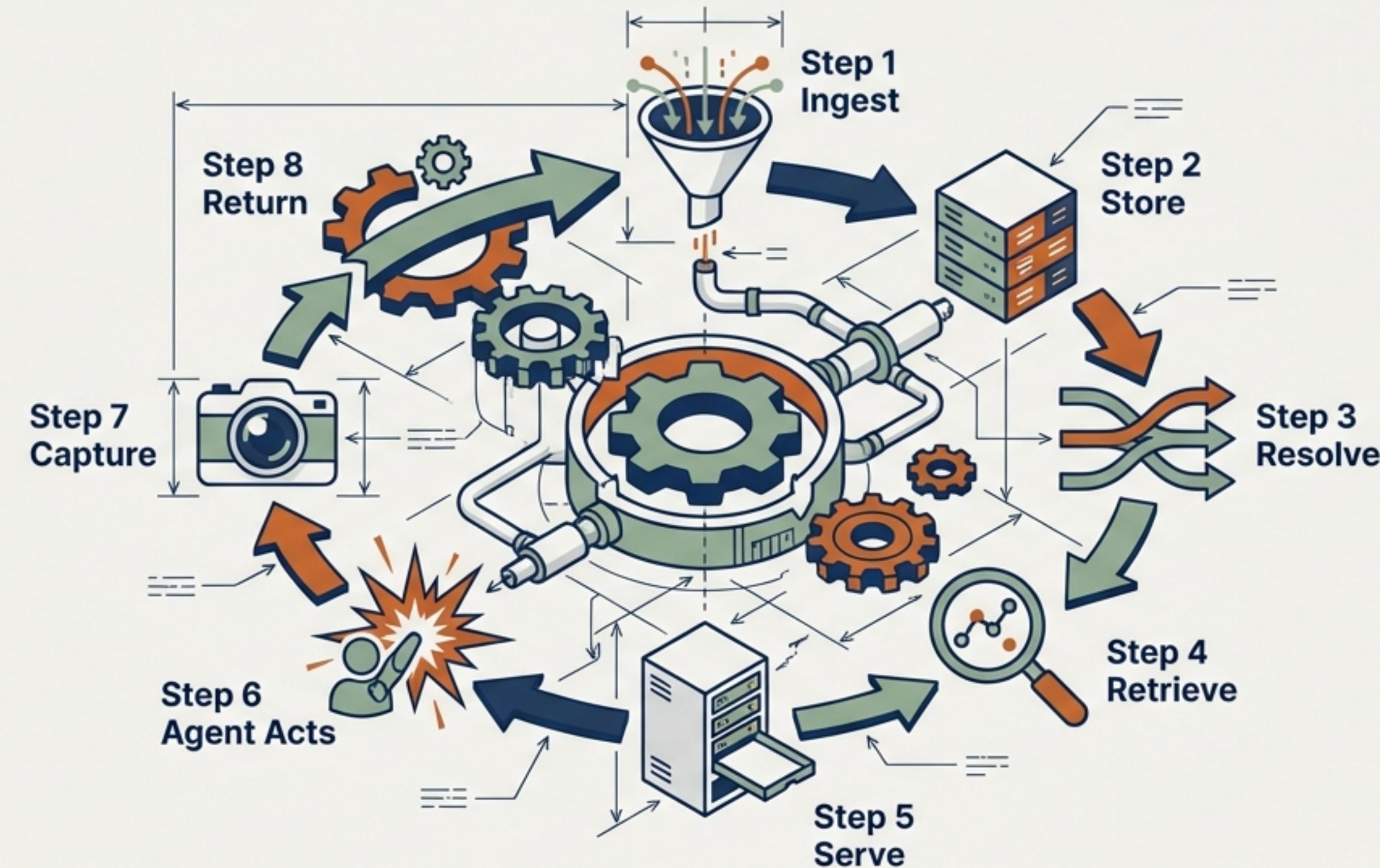
# Synthesis: It's Not a Graph, It's a Flywheel



They are all right. We need traces, world models, structure, and coordination. But a "Graph" implies a static snapshot.

The value is in the loop that makes the context compound over time.

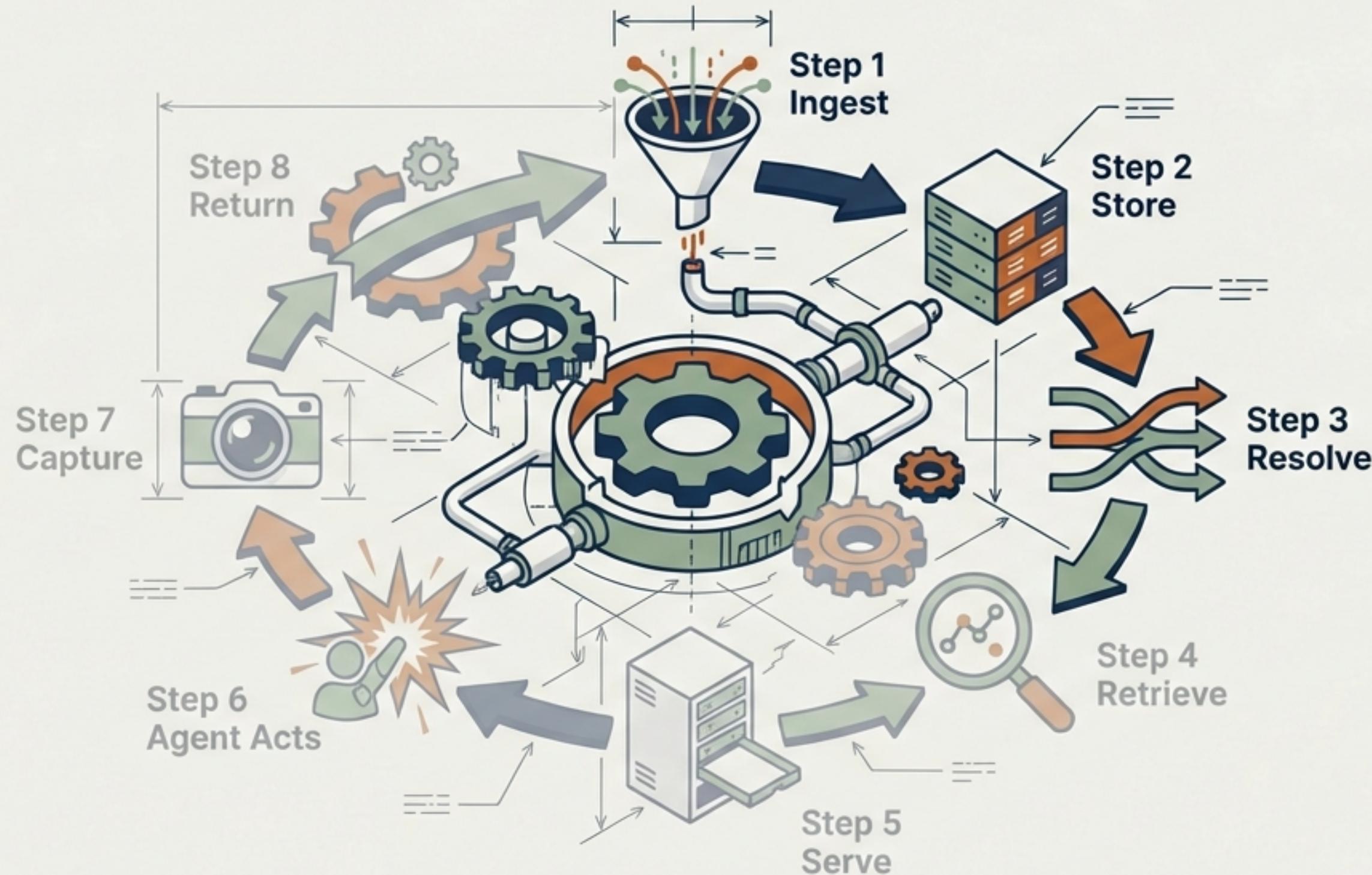
# The Context Flywheel



If the loop doesn't close, you just have a database with an LLM stapled to it.

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# Flywheel Deep Dive: The Foundation Layer



**Ingest:** Extracting structure from chaos (Slack, Docs, Transcripts).

**Store:** Using adopted ontologies (Schema.org) for basics.

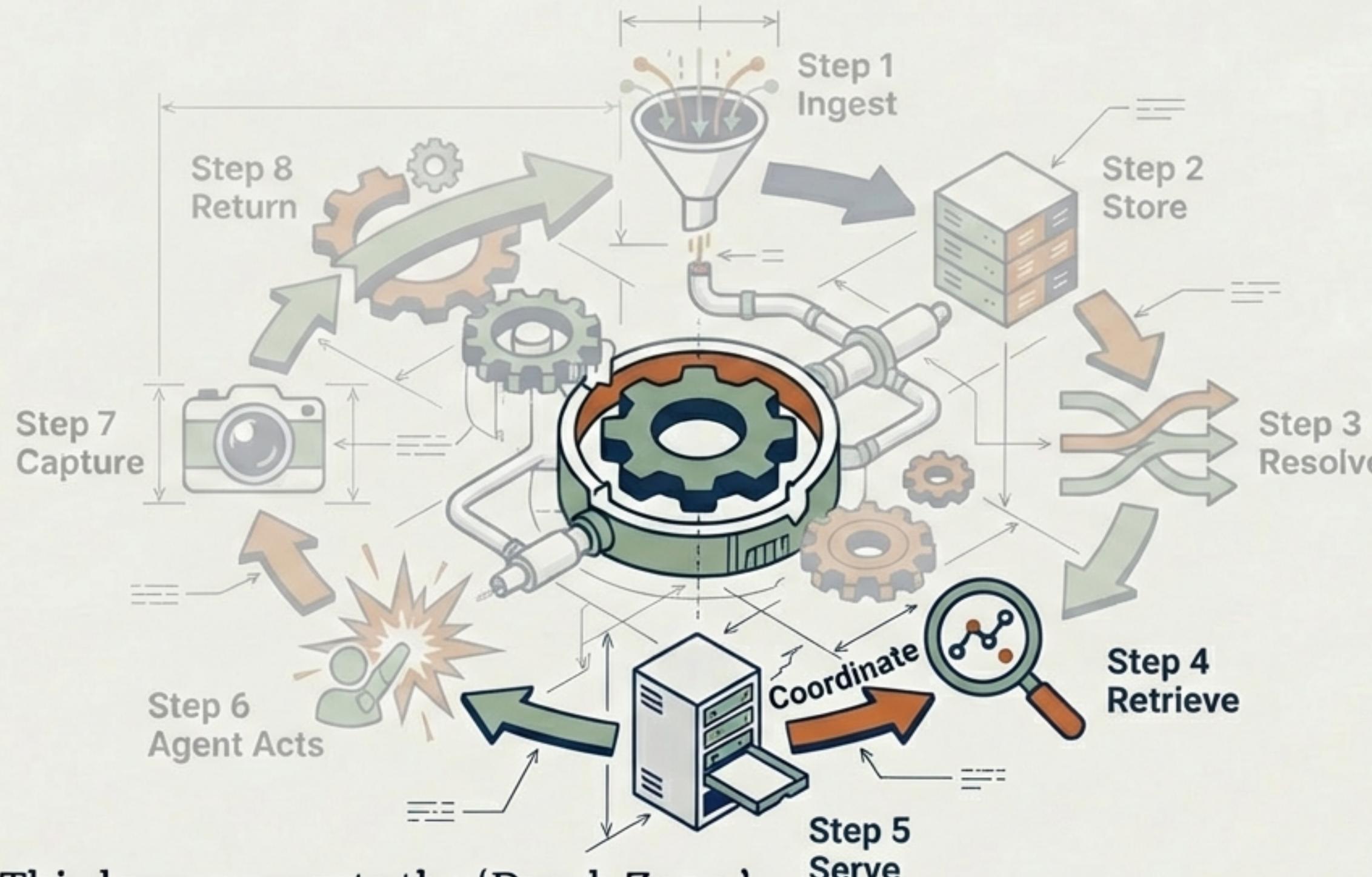
**Resolve (The Hard AI Problem):**

- Identity:**  
“Sarah Chen” = “@sarah”
- Fact:** Resolving conflicting sources.
- Temporal:** Tracking “When was this true?”



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# Flywheel Deep Dive: The Action Layer



This layer prevents the 'Dumb Zone.'  
It stitches results into a coherent slice of reality the model can actually use.

**Retrieve:** Hybrid queries (Vector + Graph traversal).

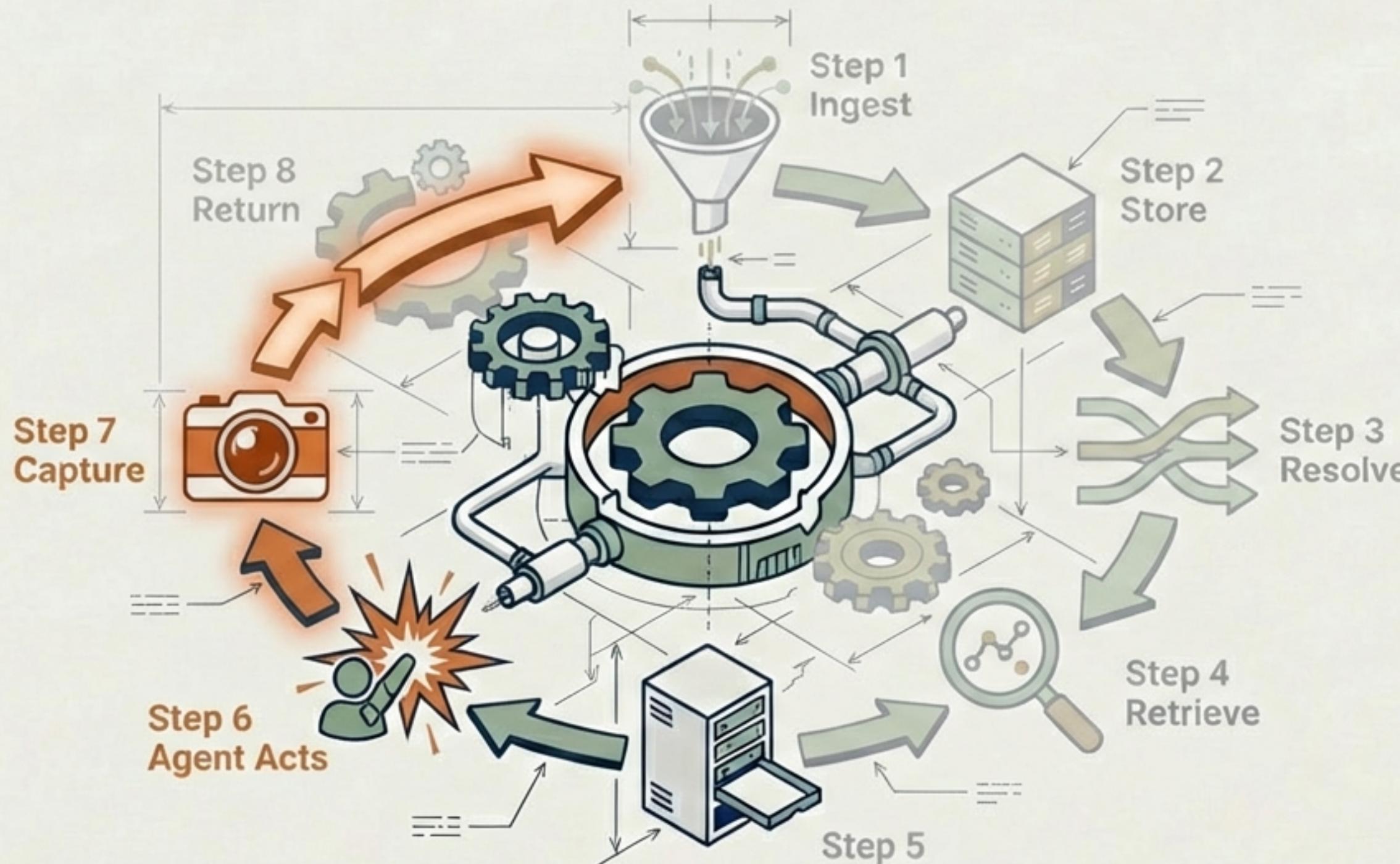
**Coordinate:** Selection Logic. What do we **\*not\*** show?

**Serve:** Managing token budgets.



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# Flywheel Deep Dive: The Compounding Layer



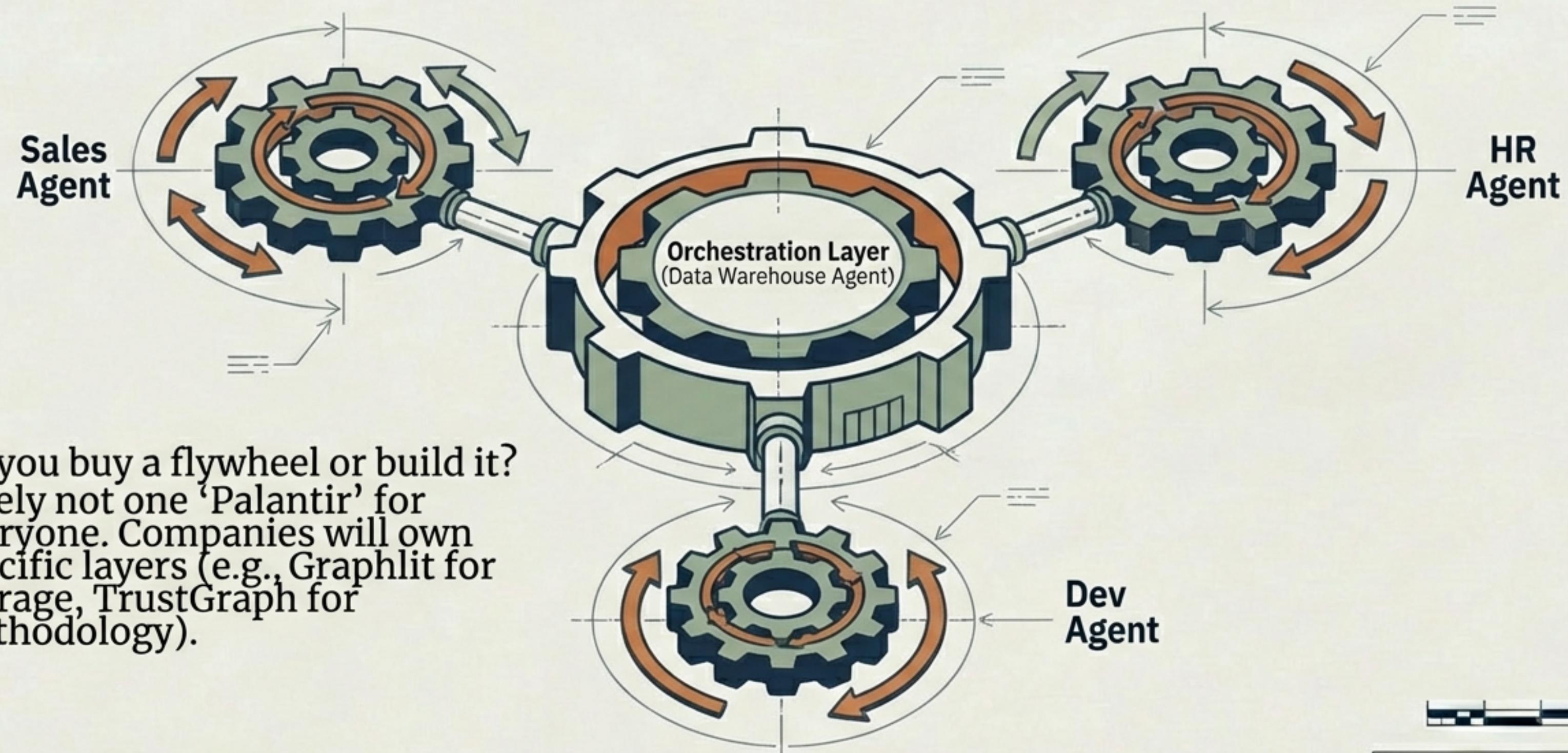
**Capture:** Decision traces flow back into storage.

**The Loop:** Reasoning becomes data.

**The Trillion-Dollar Opportunity:** Every automated decision adds a trace, making the graph smarter for the next decision. Context clarity increases with every rotation.

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# The Market Landscape: A Flywheel of Flywheels

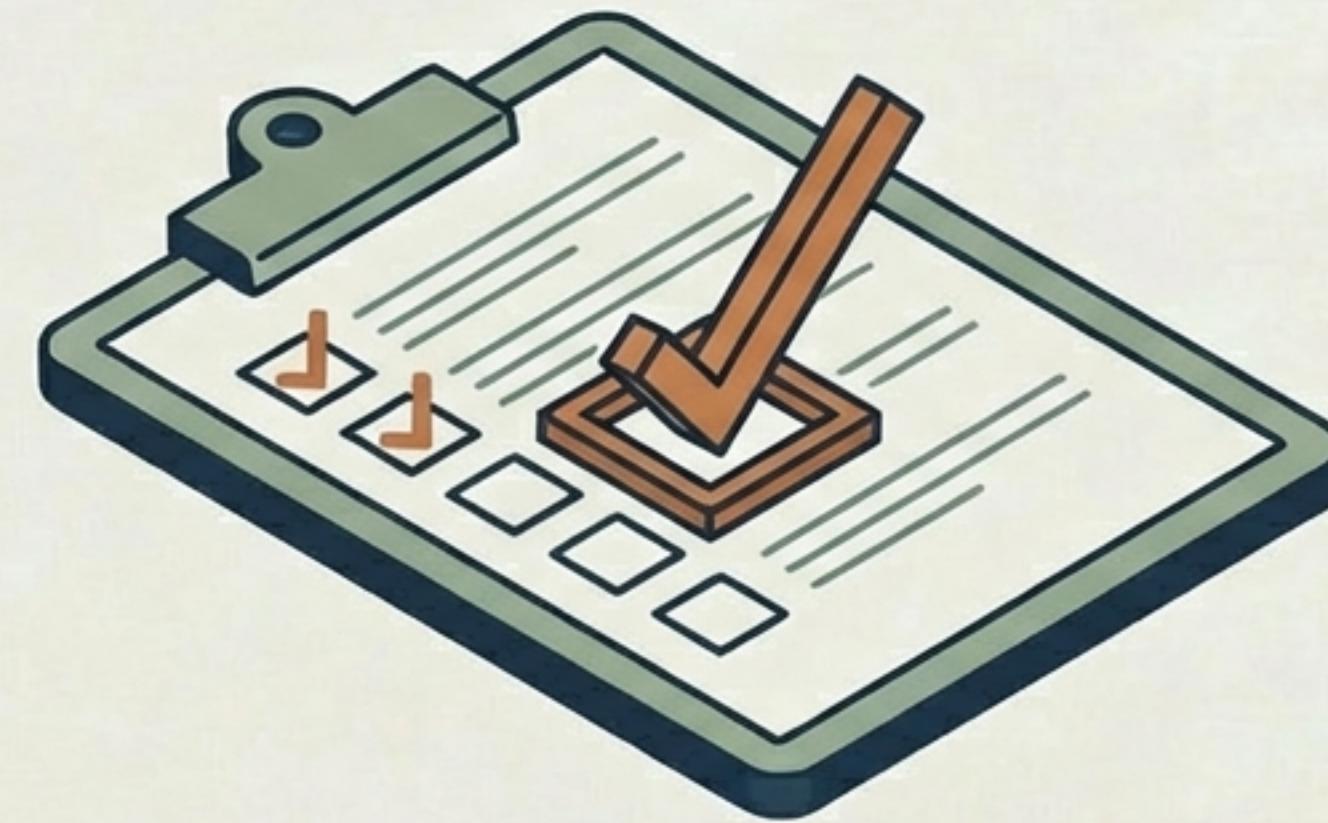


Do you buy a flywheel or build it?  
Likely not one 'Palantir' for everyone. Companies will own specific layers (e.g., Graphlit for Storage, TrustGraph for Methodology).

**Future State:** Departmental agents connecting to a central orchestration layer.

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# The Litmus Test



## When is something NOT a context graph?

When you cannot trace:  
“What did the agent see when it made that decision?”

If the loop doesn't close—if there is no capture and no compounding—you don't have a Context Graph. You have a database. The graph is the snapshot. The flywheel is the competitive advantage.



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