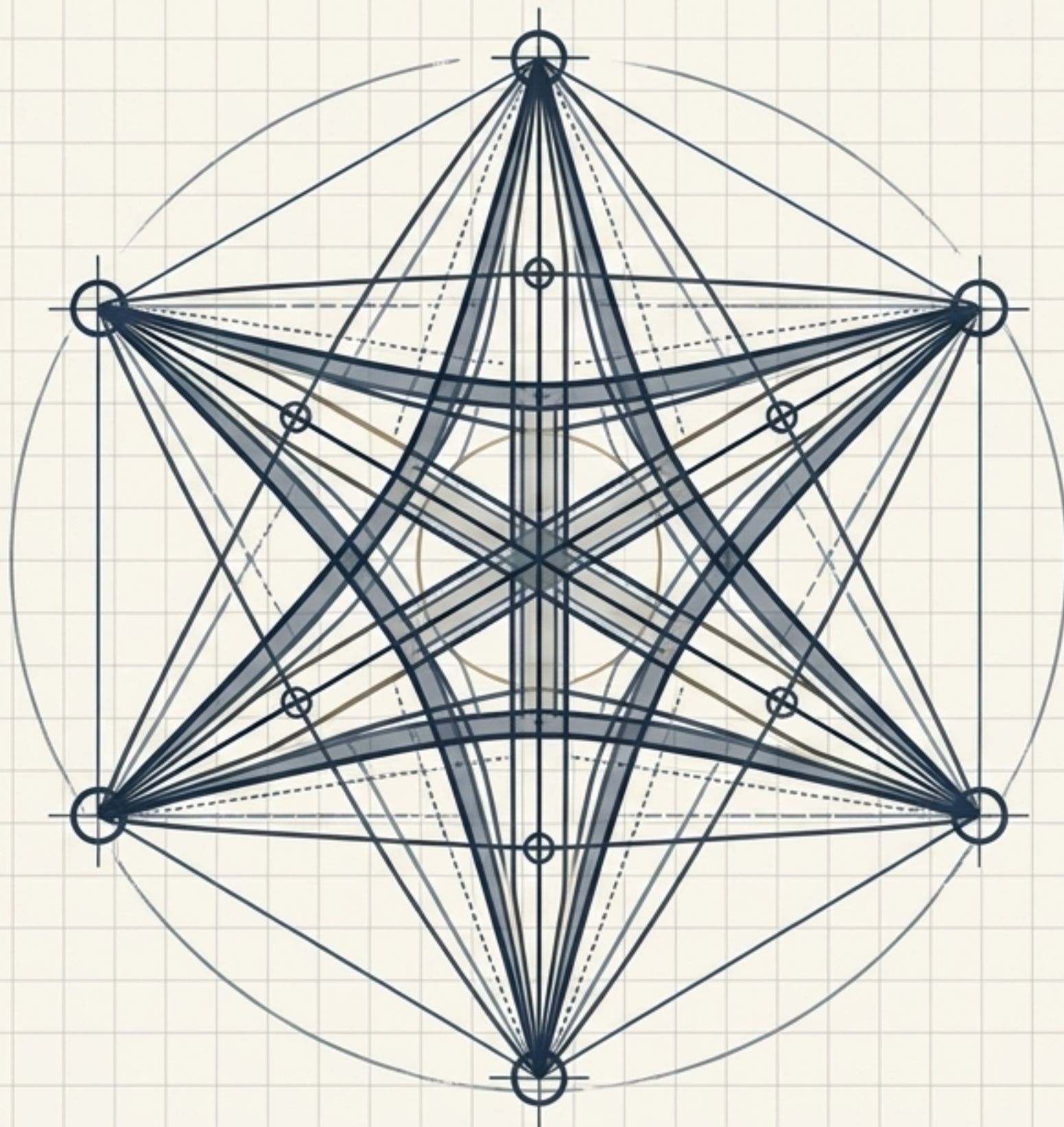


# EIGENVERTEX

The Domain Intelligence Engine

For organizations that must understand faster and publish with absolute rigor.

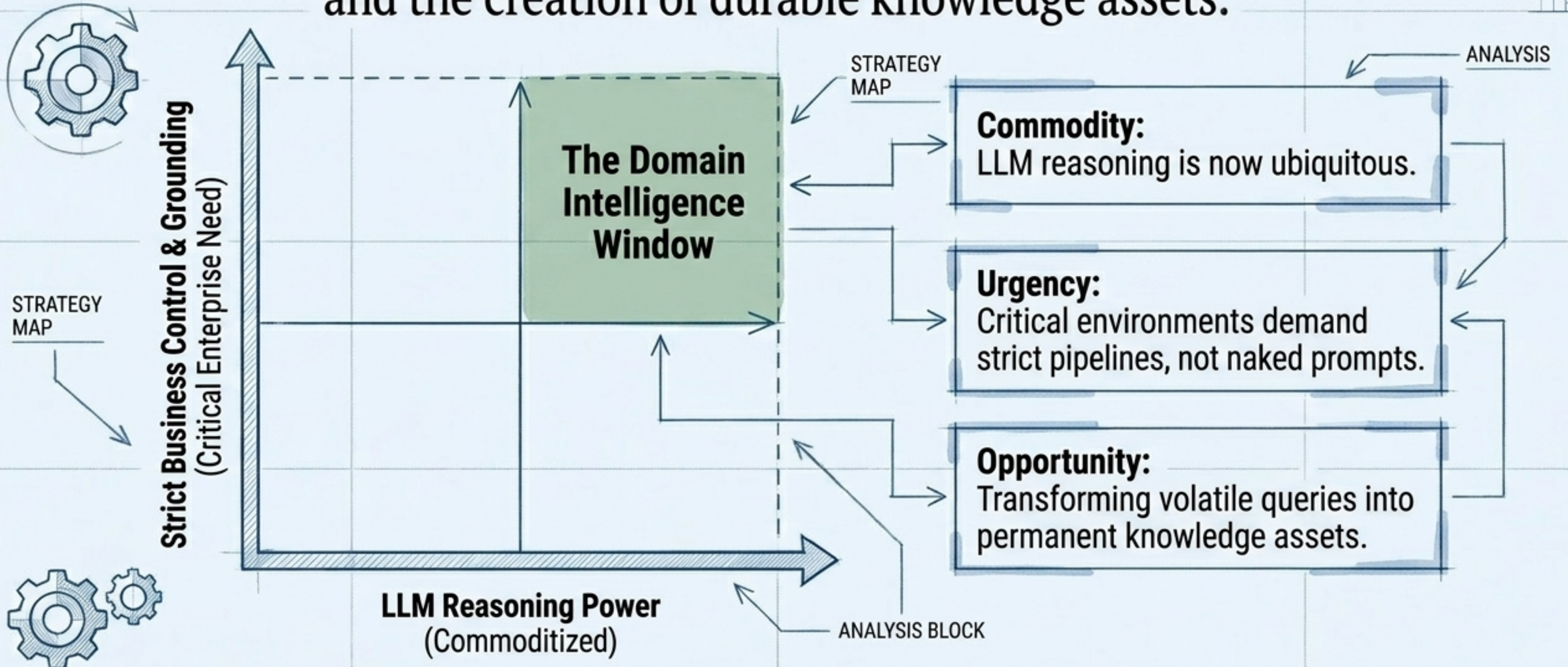










# The Strategic Imperative: Why Now

The power of LLMs is acquired; the differentiator is strict grounding and the creation of durable knowledge assets.



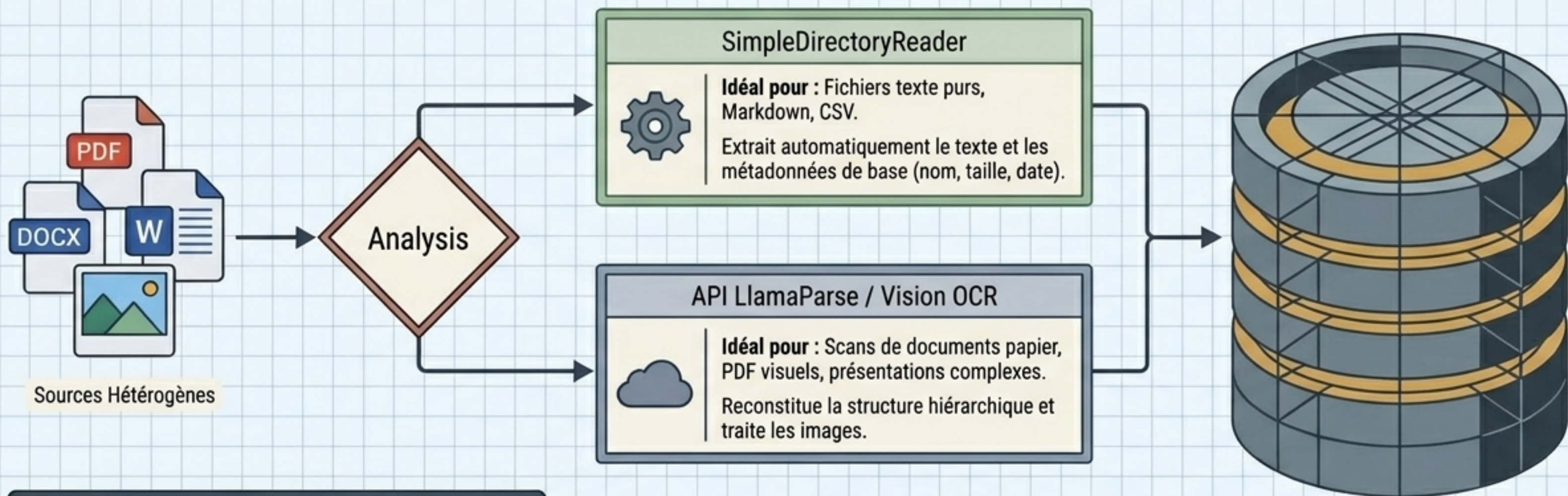
# Beyond Generic RAG and Chatbots

We are not building a search bar; we are building an engine of capitalization.

Dimension	Basic RAG (5 lines of code)	The EIGENVERTEX Engine
Metadata Control	Basic (Semantic noise)	Granular inclusion/exclusion 
Embedding Quality	Raw text	LLM-augmented context 
Storage	Volatile / In-memory	Persistent Vector + GraphRAG 
Output	Chat only	Publishable artifacts 

# The Technological Foundation: Ingest & Compile

An industrial pipeline unifying heterogeneous sources into a durable knowledge cartography.



Sources Hétérogènes

Analysis

SimpleDirectoryReader



**Idéal pour :** Fichiers texte purs, Markdown, CSV.  
Extrait automatiquement le texte et les métadonnées de base (nom, taille, date).

API LlamaParse / Vision OCR



**Idéal pour :** Scans de documents papier, PDF visuels, présentations complexes.  
Reconstitue la structure hiérarchique et traite les images.

EigenVertex Console

## Live SSE Tracking

Parsing	<div style="width: 92%;"></div>	92%
Understanding	<div style="width: 78%;"></div>	78%
Indexing	<div style="width: 100%;"></div>	100%

- Multimodal extraction with live SSE tracking.
- Building a persistent Wiki LM beyond vector chunks.
- Every node retains strict lineage to its raw source.

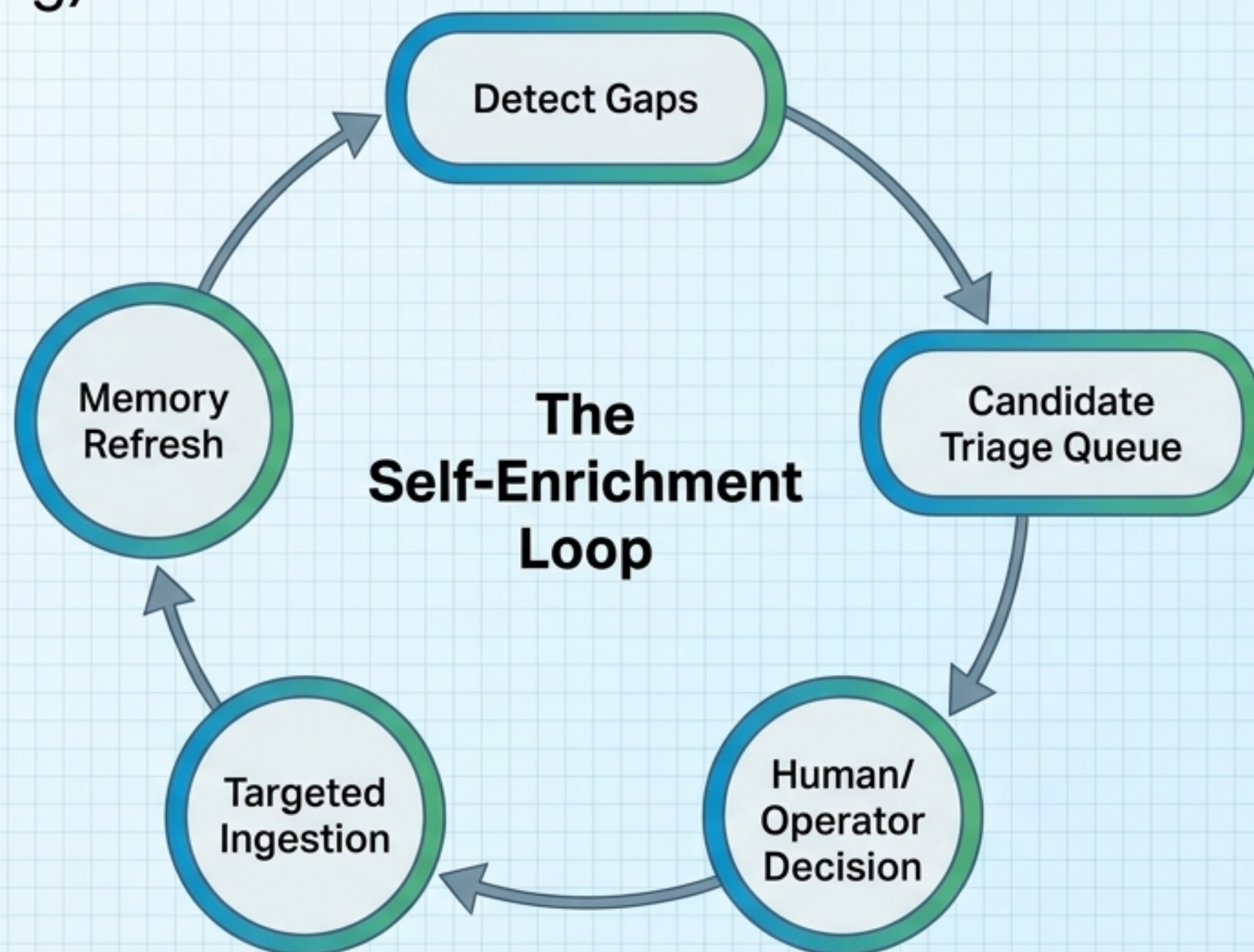
# Active Intelligence: Discover & Publish

The platform moves from a reactive posture (answering) to a proactive posture (monitoring and editorializing).

**Discovery Agents:** Hunting for weak signals, contradictions, and missing coverage.

**Triage Queue:** Scoring candidates for novelty, credibility, and relevance.

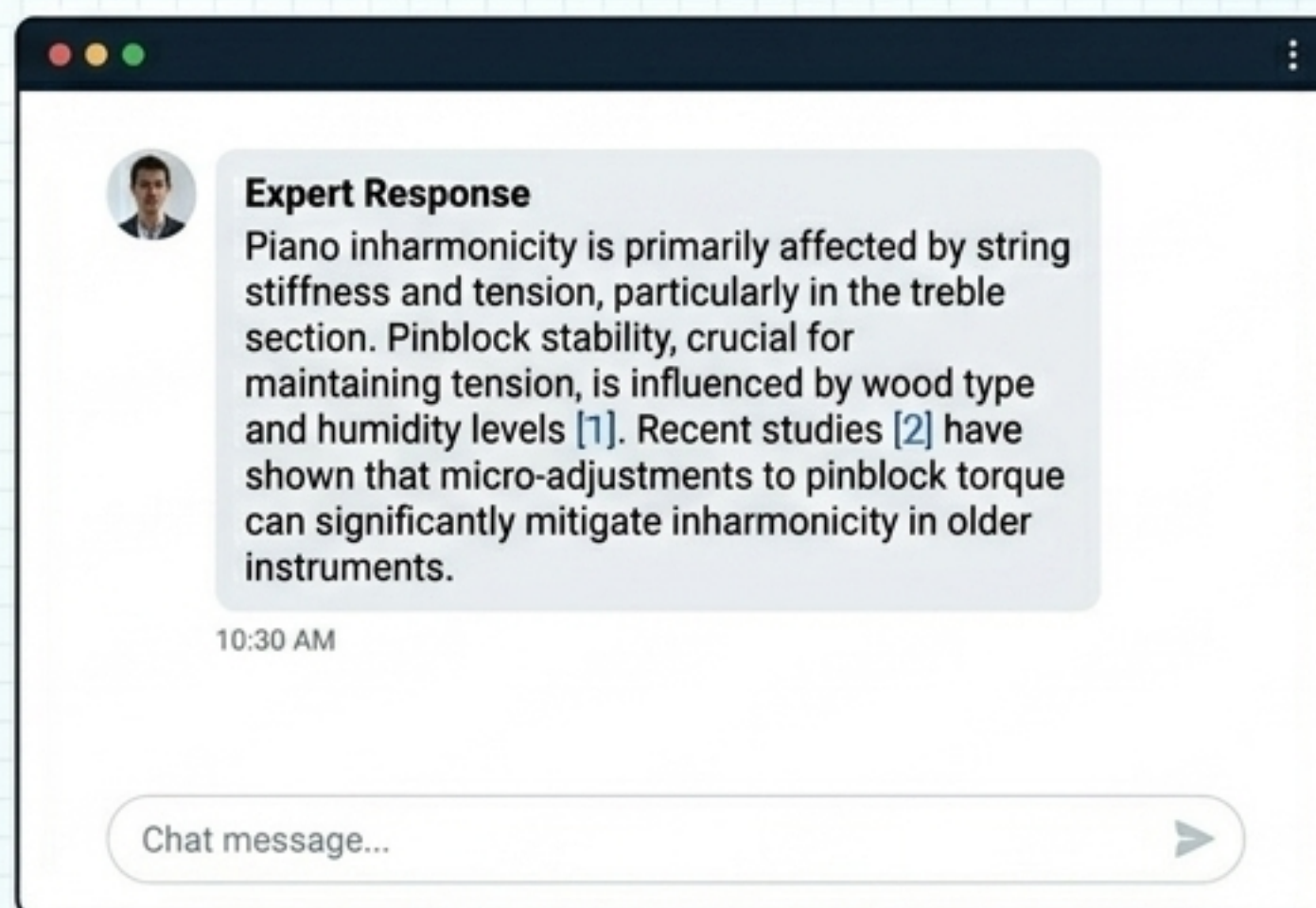
**Newsroom Output:** Preparing the memory for executive publication.



# Proof of Value: The PyTune Ecosystem

PyTune is our living stress-test, proving EIGENVERTEX can motorize a highly complex vertical product in real time.

## PyTune (The Product)

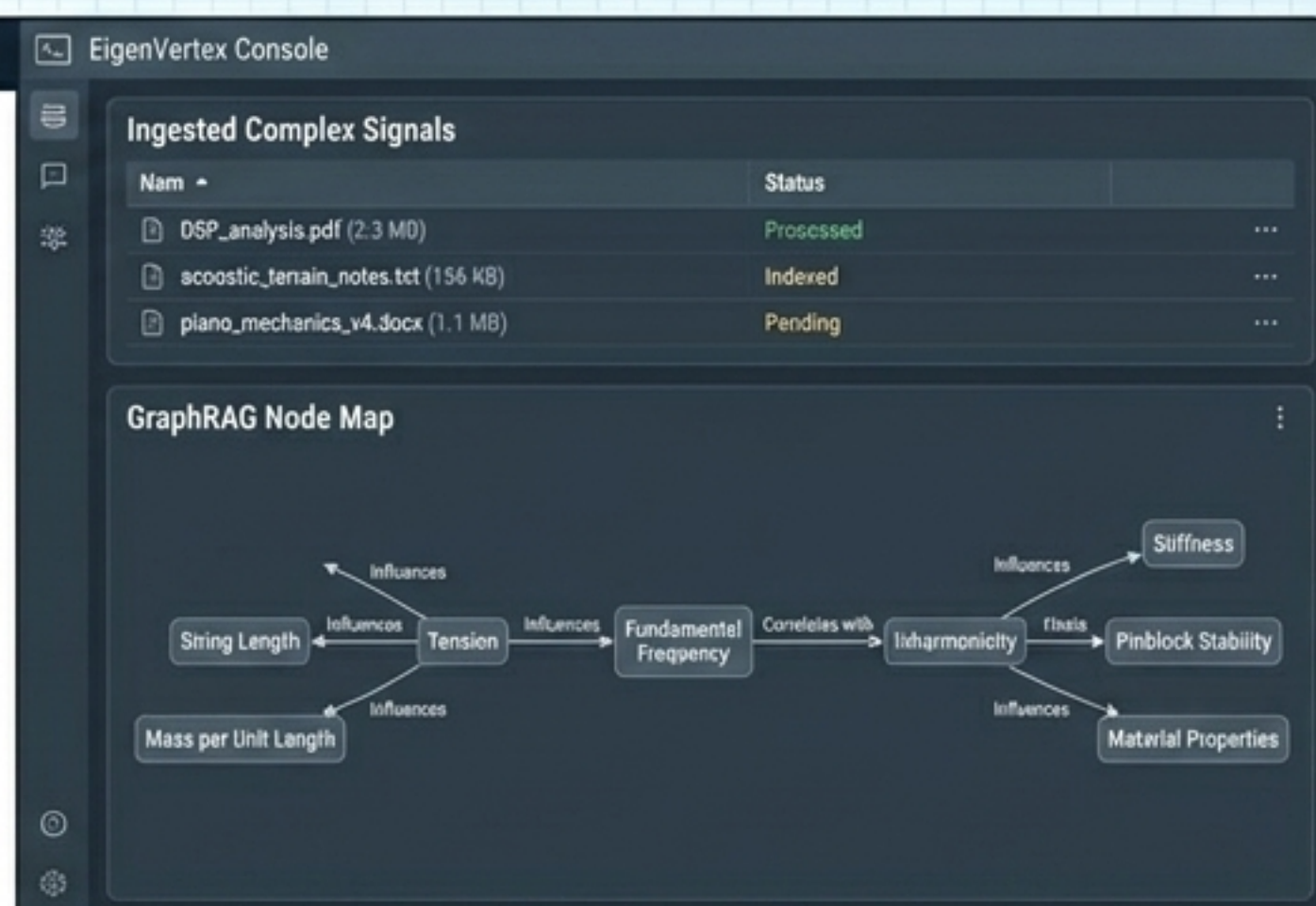


**Expert Response**  
Piano inharmonicity is primarily affected by string stiffness and tension, particularly in the treble section. Pinblock stability, crucial for maintaining tension, is influenced by wood type and humidity levels [1]. Recent studies [2] have shown that micro-adjustments to pinblock torque can significantly mitigate inharmonicity in older instruments.

10:30 AM

Chat message...

## EIGENVERTEX Console (The Engine)



**Ingested Complex Signals**

Name	Status
DSP_analysis.pdf (2.3 MB)	Processed
acoustic_tenain_notes.txt (156 KB)	Indexed
piano_mechanics_v4.docx (1.1 MB)	Pending

**GraphRAG Node Map**

```
graph LR; StringLength[String Length] -- Influences --> Tension; MassPerUnitLength[Mass per Unit Length] -- Influences --> Tension; Tension -- Influences --> FundamentalFrequency[Fundamental Frequency]; Tension -- Influences --> Stiffness; FundamentalFrequency -- Correlates with --> Inharmonicity; Inharmonicity -- Influences --> PinblockStability[Pinblock Stability]; Inharmonicity -- Influences --> MaterialProperties[Material Properties];
```



Real-world specialized application.



Mastery of an ultra-technical corpus.



Live validation of the API-first architecture.

# High-Value Deployment Terrains

Natural markets exist wherever a corpus is massive, evolving, and too costly to re-read manually.



## R&D / Science

**Audience:** Innovation labs, engineering.

**Outputs:** Literature reviews, state-of-the-art benchmarks.



## Compliance & Standards

**Audience:** Regulatory affairs, quality control.

**Outputs:** Risk briefs, regulatory change audits.



## Strategic Monitoring

**Audience:** Strategy, competitive intelligence.

**Outputs:** Competitor signals, weak signal detection.



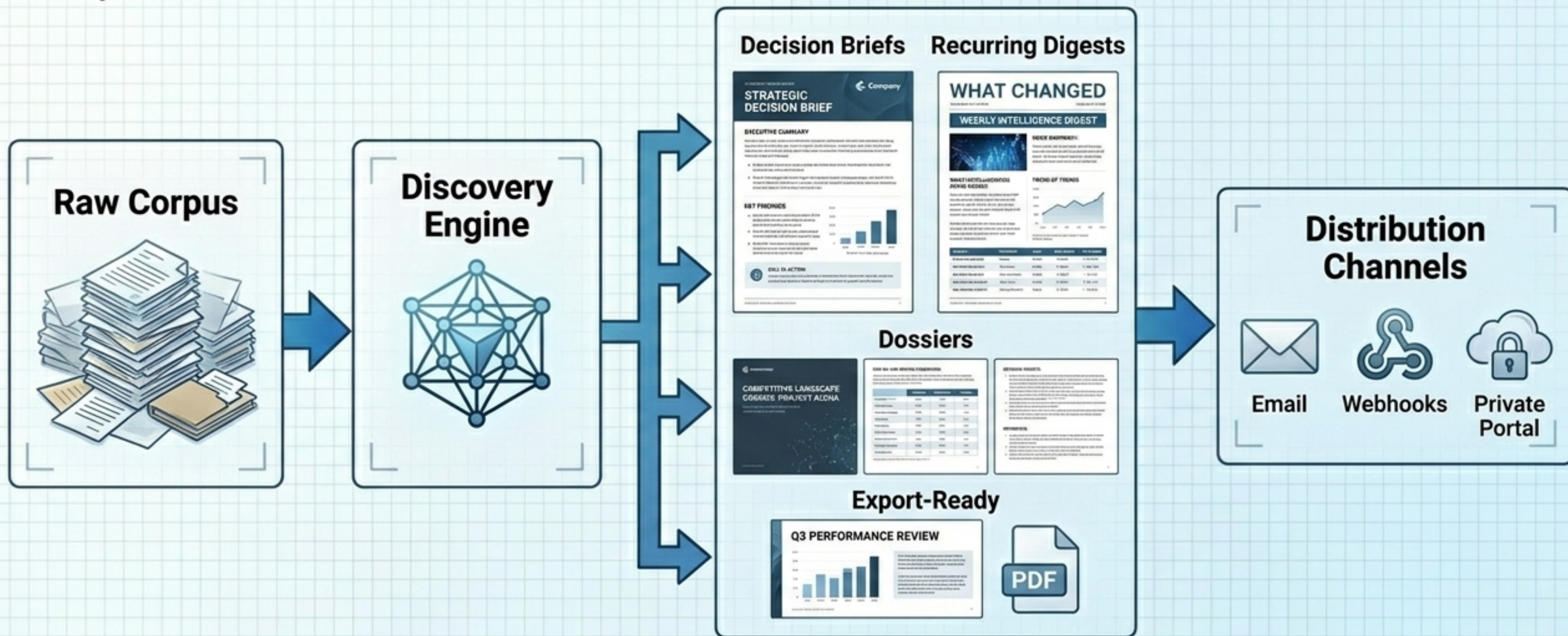
## Knowledge Operations

**Audience:** Product, delivery, support teams.

**Outputs:** Active team memory, product documentation.

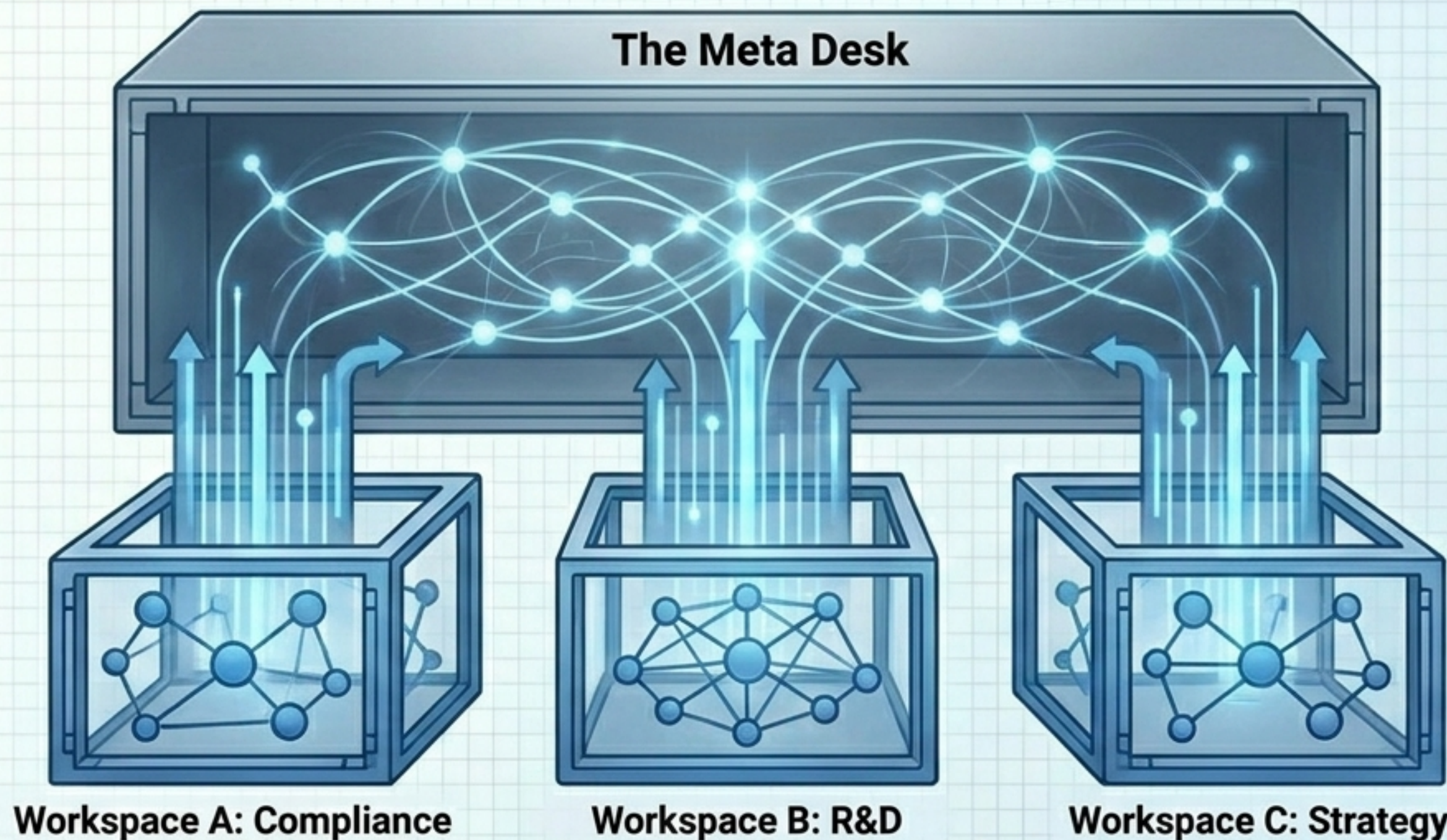
# The Enterprise Newsroom Dimension

The right result is rarely a chat interface; it is a formatted, grounded deliverable ready to circulate.



# Cross-Domain Synthesis: The Meta Repository

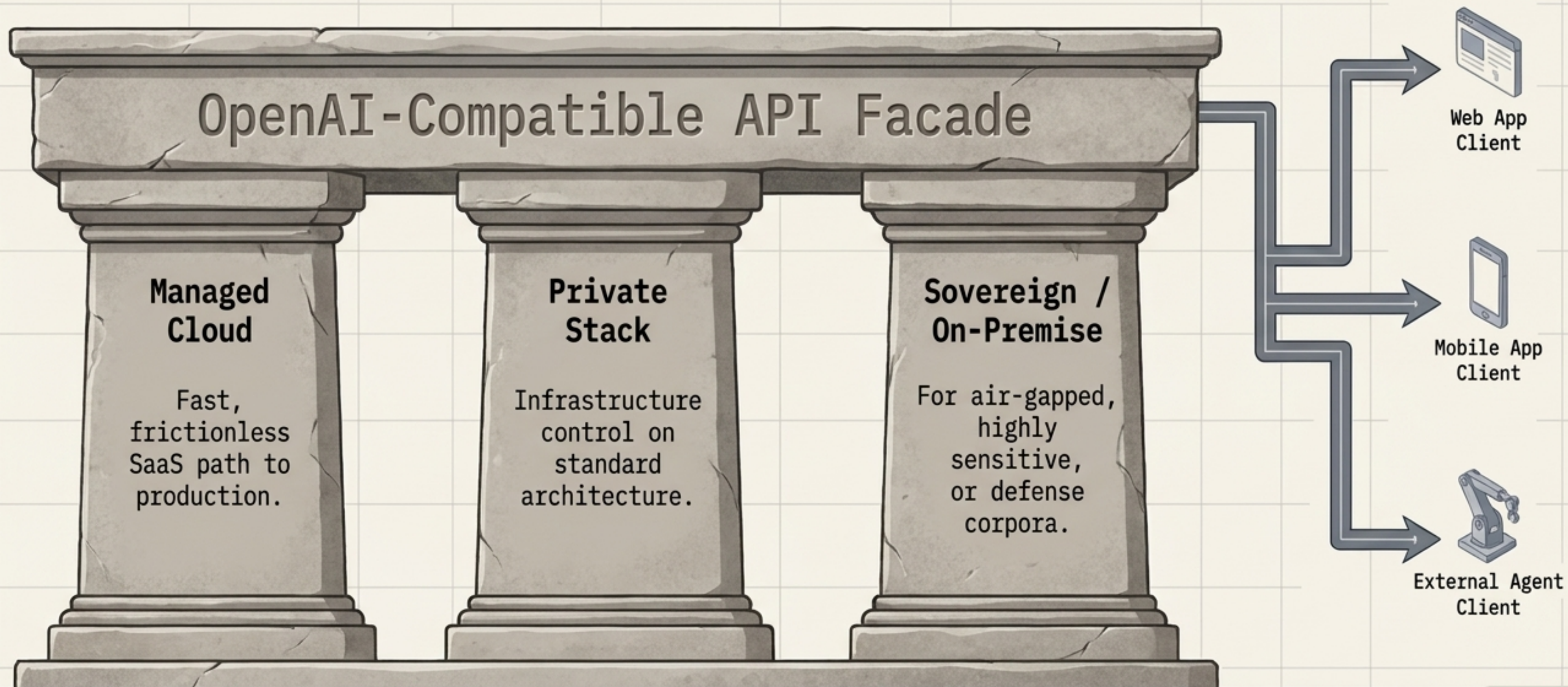
Aggregating specialized workspaces to create strategic, multi-domain supervision.



- From isolated analyst to central intelligence desk.
- Cross-pollination of methods and weak signals.
- High-level convergence reporting.

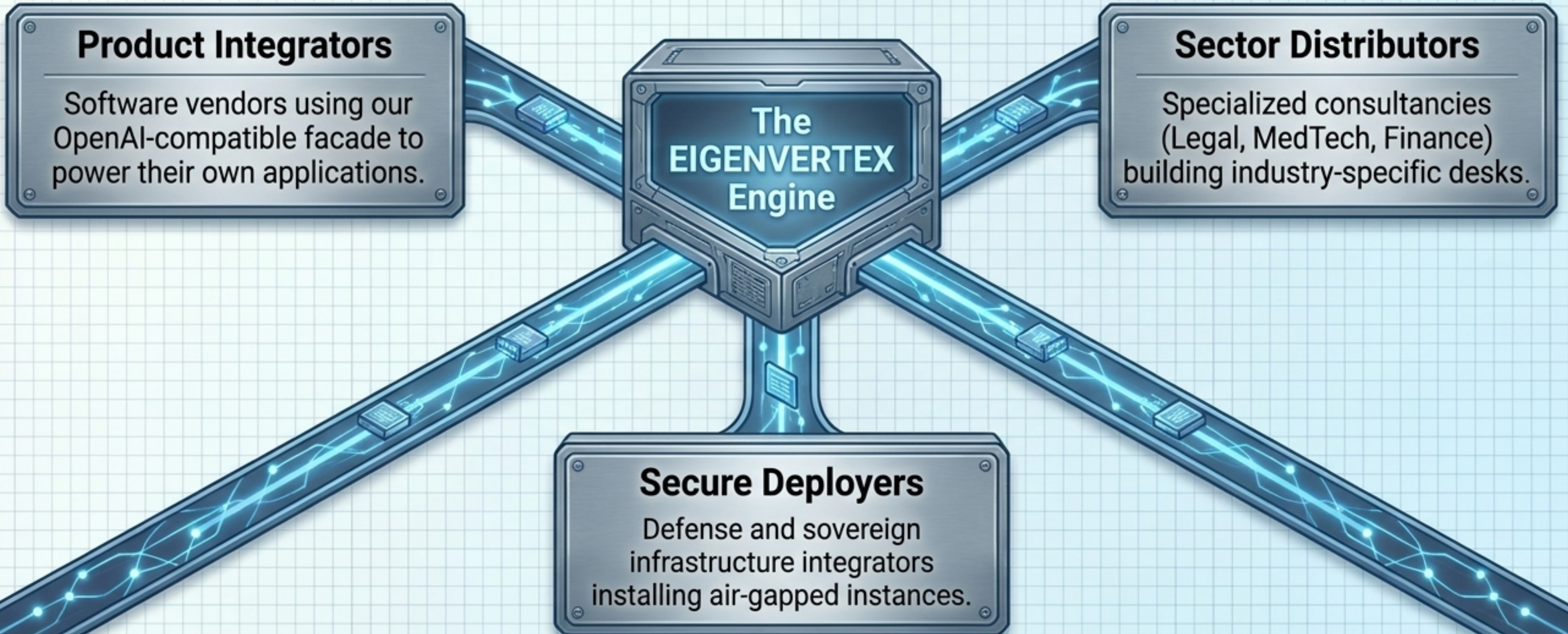
# Agnostic Distribution Architecture

A stateless backend and separated persistent services allow deployment in any governance model.



# The Partnership Ecosystem

Designed to accelerate product integration and sectoral conquest via established players.



# The Platform Asset Equation

A reusable technological core unlocking recurring revenue across infinite domains.

$$[1 \text{ Core Engine}] \times [N \text{ Workspaces}] = [\text{Infinite Vertical Markets}]$$

## Horizontal Scalability:

One universal engine architecture.

## Vertical Validation:

Technical risk mitigated via live PyTune deployment.

## Recurring Model:

Infrastructure licensing paired with Newsroom subscriptions.

## Execution Maturity:

Stack V0.1.0 fully operational and documented.

# Structure Your Domain Intelligence

The technology is operational, documented, and ready for your toughest corpus.

1. Frame a targeted use-case on your corpus.
2. Evaluate the API and Console documentation.
3. Discuss sovereign deployment and partnership models.

[labs.eigenvertex.com](https://labs.eigenvertex.com)

