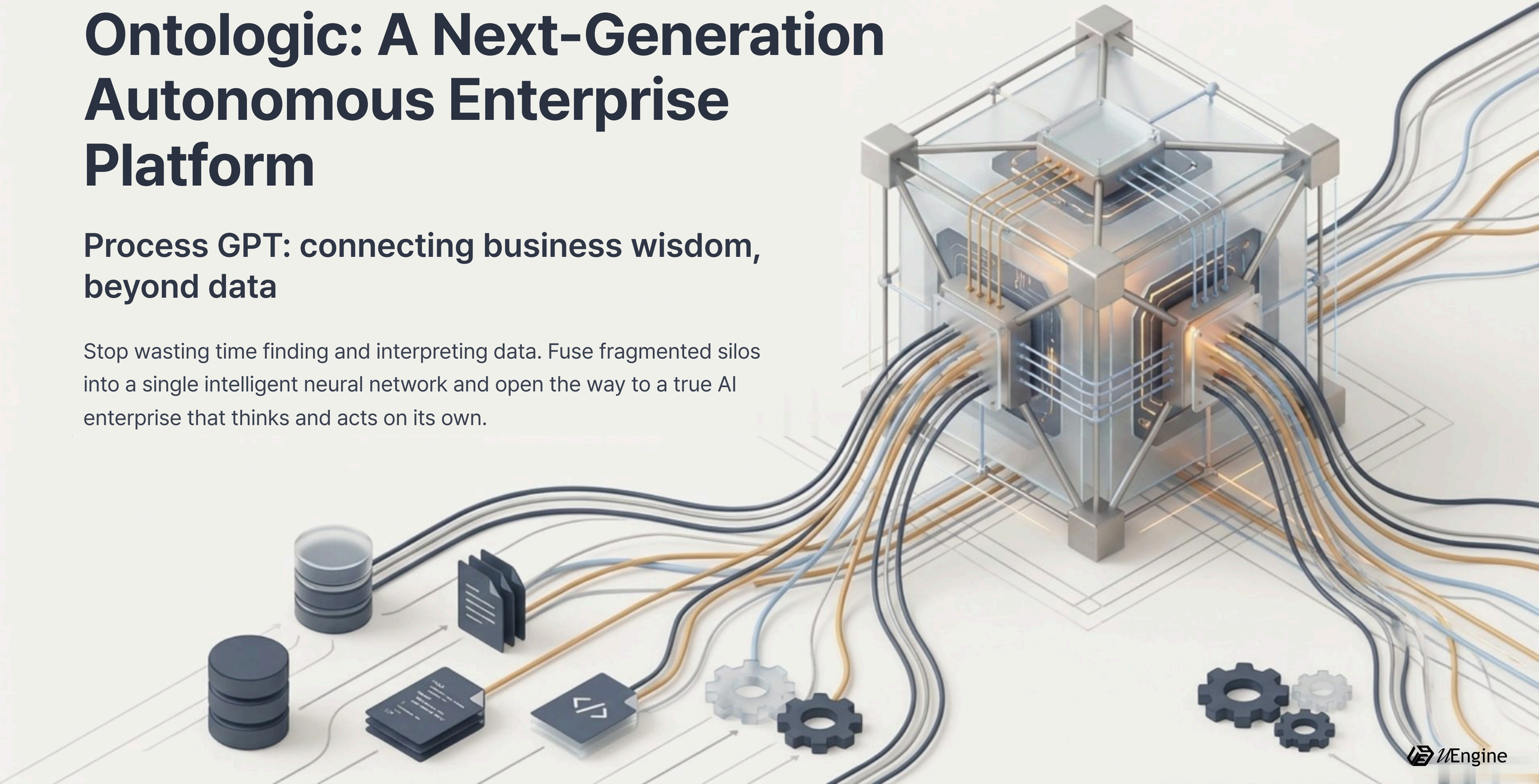
Ontologic: A Next-Generation Autonomous Enterprise Platform

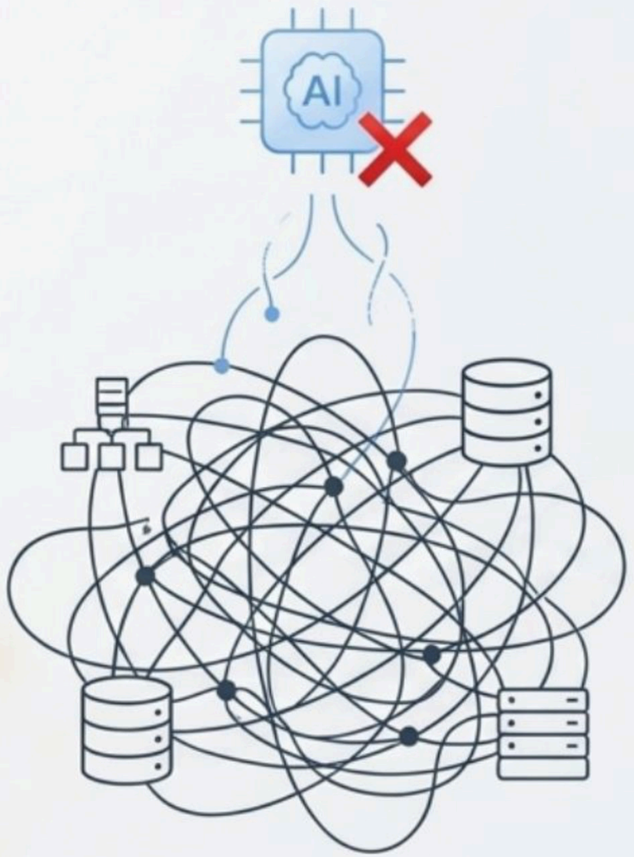
Process GPT: connecting business wisdom, beyond data

Stop wasting time finding and interpreting data. Fuse fragmented silos into a single intelligent neural network and open the way to a true AI enterprise that thinks and acts on its own.



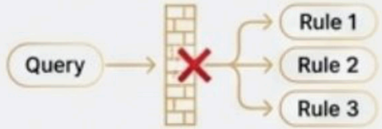
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The Illusion of Simple Document Search (RAG): Structural Limits in the Face of Complex Business



Business rules not applied automatically

Simple top-k retrieval cannot grasp multi-dimensional rules such as underwriting rules, payout criteria and process causality, so it fails at multi-hop reasoning.



No integration of heterogeneous data

Structured data (DB), unstructured text (policy terms, manuals) and legacy code (SQL) are logically disconnected, so the full business context cannot be grasped.



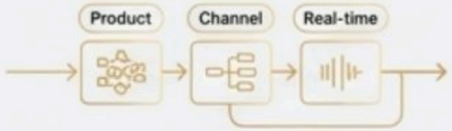
Risk of AI writing SQL directly

When AI accesses the DB without control and generates SQL, it brings hallucination risk and serious violations of security and organizational policy.



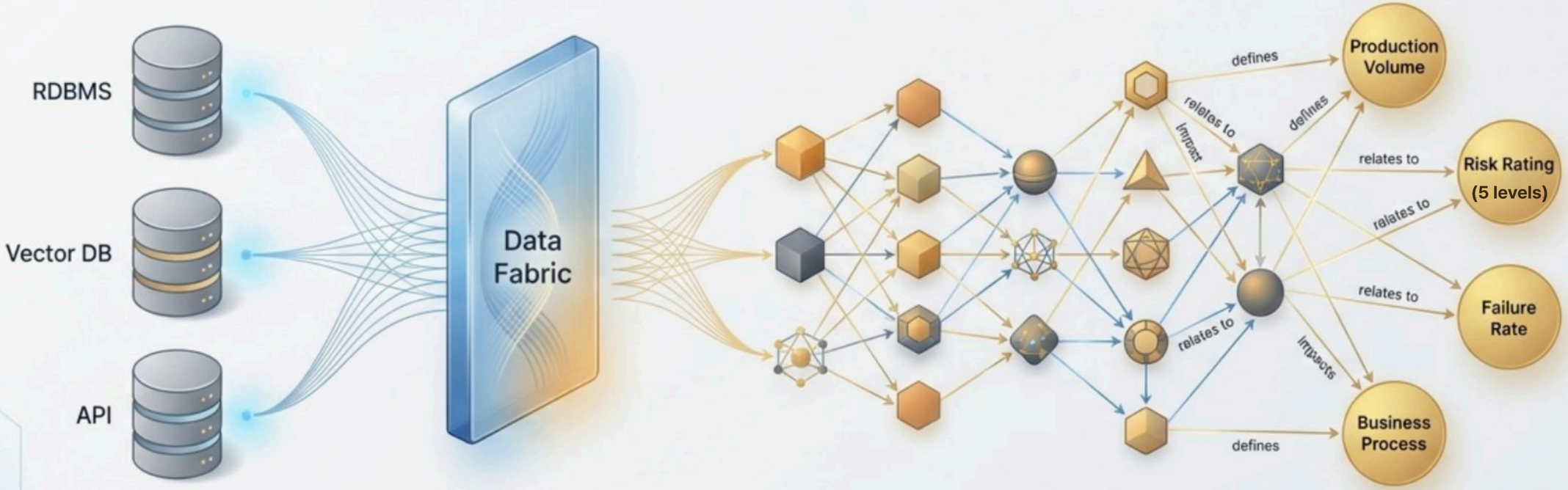
Limits of the one-shot query

Complex analysis and orchestration spanning products, channels and real-time incidents cannot be solved with a single one-off query.



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The Key to the Solution: From ‘Physical Data Integration’ to ‘Semantic Knowledge (Ontology) Integration’



Overcoming physical limits

There is no need to forcibly copy or move data.

Adding business context

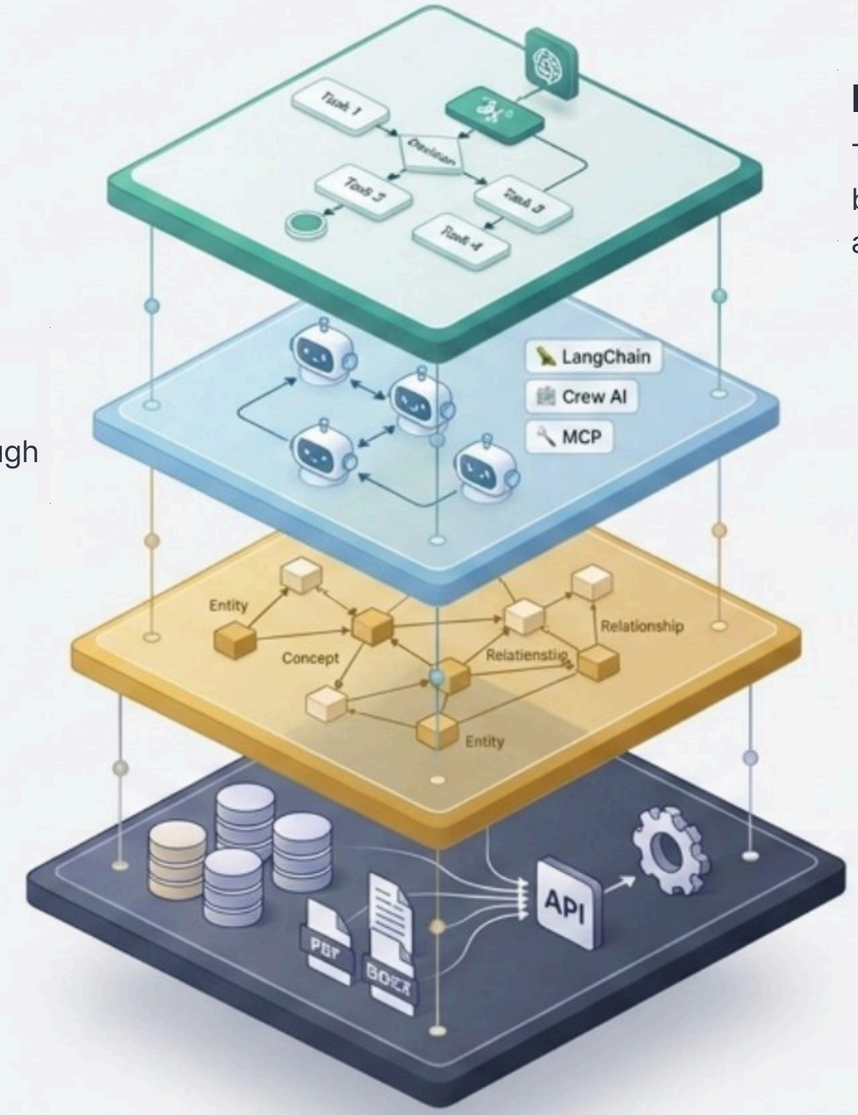
Turns data into standardized knowledge memory that people and the business understand, such as production volume, loss ratio and failure rate.

Reviving legacy

Extracts the business logic hidden in old code (PL/SQL, Java) and documents, and rebuilds it as living ontology assets.

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Process GPT: A 4-Layer Integrated Architecture for the Autonomous Enterprise



Layer 4. Process Layer (Agentic BPM)

Through the BPMN engine, AI agents step directly into real business processes (approvals, sending mail, DB updates) and run them autonomously.

Layer 3. Agent Layer (Multi-framework)

Multi-agent deployment with LangChain, CrewAI and more, and seamless integration of external tools through MCP and Claude Skills.

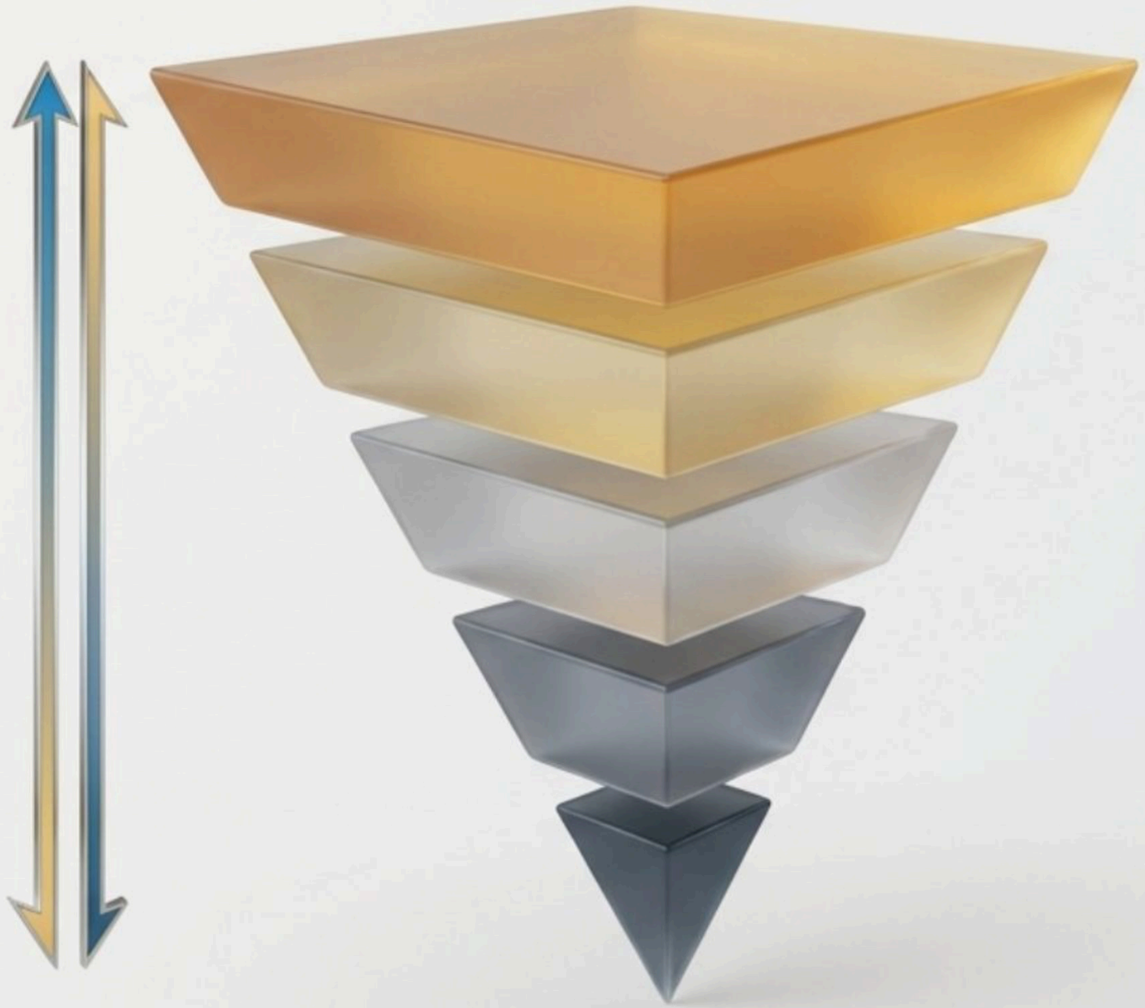
Layer 2. Ontology Layer (Semantic Knowledge Base)

Built on Neo4j. Provides a common knowledge layer (Entity, Concept, Relationship) that AI can fully understand and reason over.

Layer 1. Data Layer (Data Fabric)

Logical, single integration of siloed structured and unstructured data and APIs, without physically moving them.

The Heart of Explainable AI: 5-Layer Ontology for Structuring the Business



Layer 1. KPI

– Top-level business indicators
(e.g., monthly net profit, claim ratio, OEE)

Layer 2. Measure

– Unit metrics used to compute KPIs
(e.g., total sales, total claims, production volume)

Layer 3. Driver

– Causal variables that affect measures
(e.g., risk grade, equipment temperature, traffic)

Layer 4. Process

– Logic that controls or produces the variables
(e.g., payout calculation, assembly process)

Layer 5. Resource

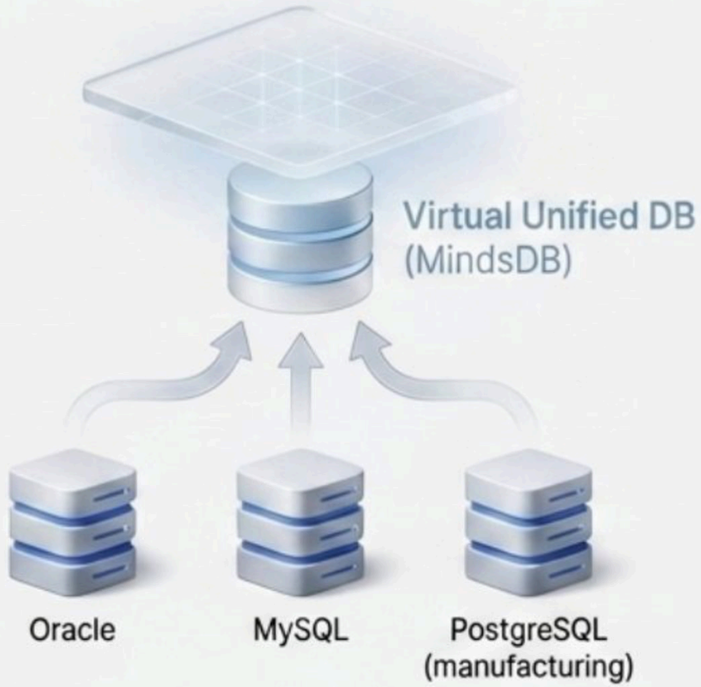
– Physical data assets at the bottom
(e.g., DB tables, columns, stored procedures)

Two-way tracing and impact analysis (Blast Radius)

Trace from a result (KPI) back to its cause (Resource), or fully quantify in advance the ripple effect a specific table schema change will have on KPIs.

Seamless Connection: Zero-ETL Data Fabric and a Universal AI Connection Standard (MCP)

Data Fabric (MindsDB) – a virtualized single source of truth



- 0% physical data migration.
- Wraps heterogeneous RDBMS, NoSQL and APIs in one virtual DB layer, so complex join queries run instantly as if on a single table.

MCP Standard – the USB-C port for AI



- Built on the open protocol developed by Anthropic.
- A standard communication spec between in-house systems (core banking, telecom OSS) and various AI agents (Claude, Cursor). Connects instantly, plug-and-play, without rebuilding systems, and enforces strict security control (RBAC).

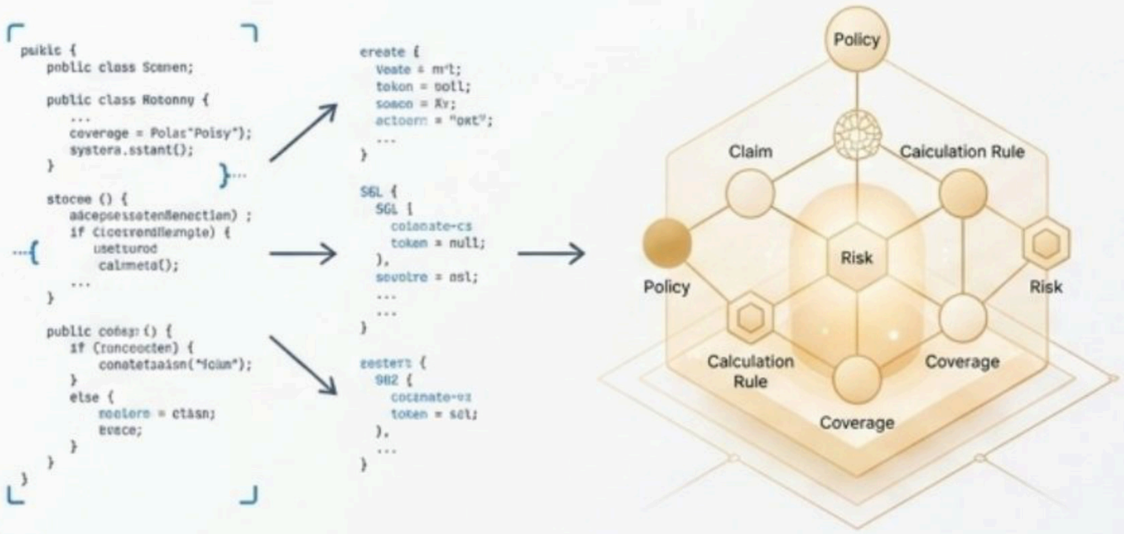
Intelligence Beyond Domains: Cross-Industry Ontology Mapping

	Finance	Manufacturing	Telco
[KPI]	Loss ratio, net profit	Yield, OEE (overall equipment effectiveness)	Network availability, CS complaint rate
[Process]	Underwriting, claim payout	Raw material supply, assembly, quality inspection	Traffic allocation, incident ticketing, failure recovery
[Resource]	Policy terms PDF, ClaimLogic.java, TB_CLAIM	Sensor data, PRC_CALC_DAILY.sql, MES DB	BSS/OSS logs, CRM DB, network equipment API

Industry terms and processes differ, but the mathematical essence of an ontology, tracing and controlling causes and effects, is the same.

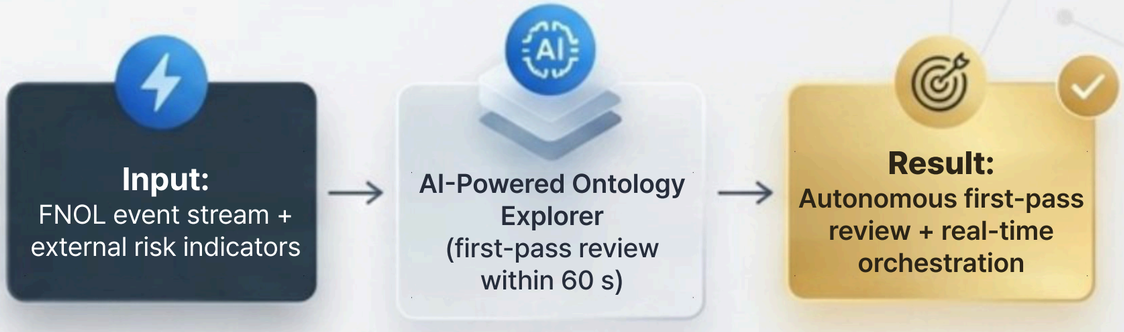
Scenario 1. Finance: Turning Black-Box Legacy into Knowledge Assets and Automating Assessment

Legacy Modernization



Legacy Modernization: Using AST parsing, automatically extracts decades of accumulated complex policy terms and payout formulas (PL/SQL, Java) as ‘business rule nodes’.

Real-time Orchestration

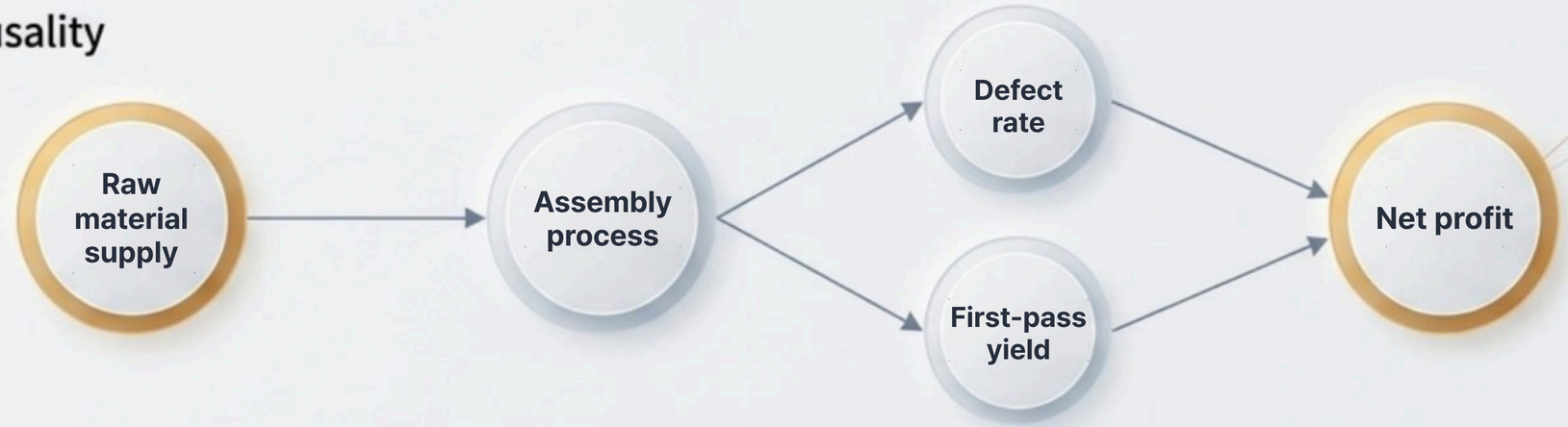


Real-time orchestration: When a customer files a claim, AI explores the FNOL event stream and external risk indicators on the ontology and autonomously completes the first-pass assessment within 60 seconds.

Precise impact analysis: When a specific rider clause changes, it traces in multiple steps, with nothing missed, which tables and services in the system are affected, preventing human error.

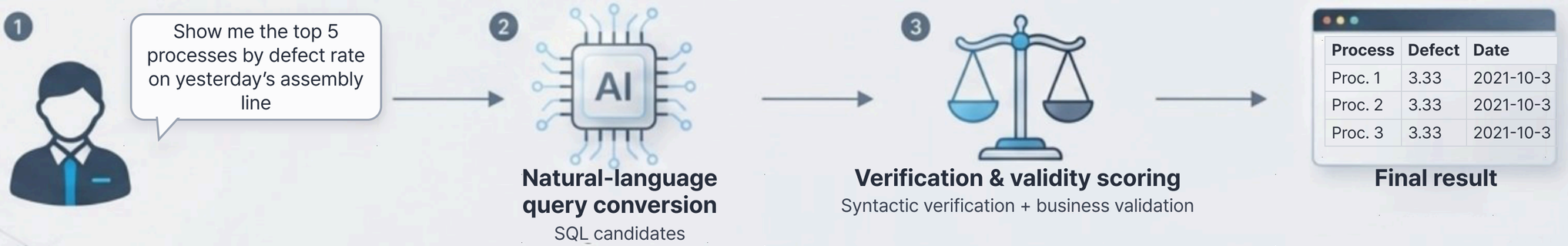
Scenario 2. Manufacturing: Putting Fragmented Process Data in Context and Natural-Language Simulation

Process Causality



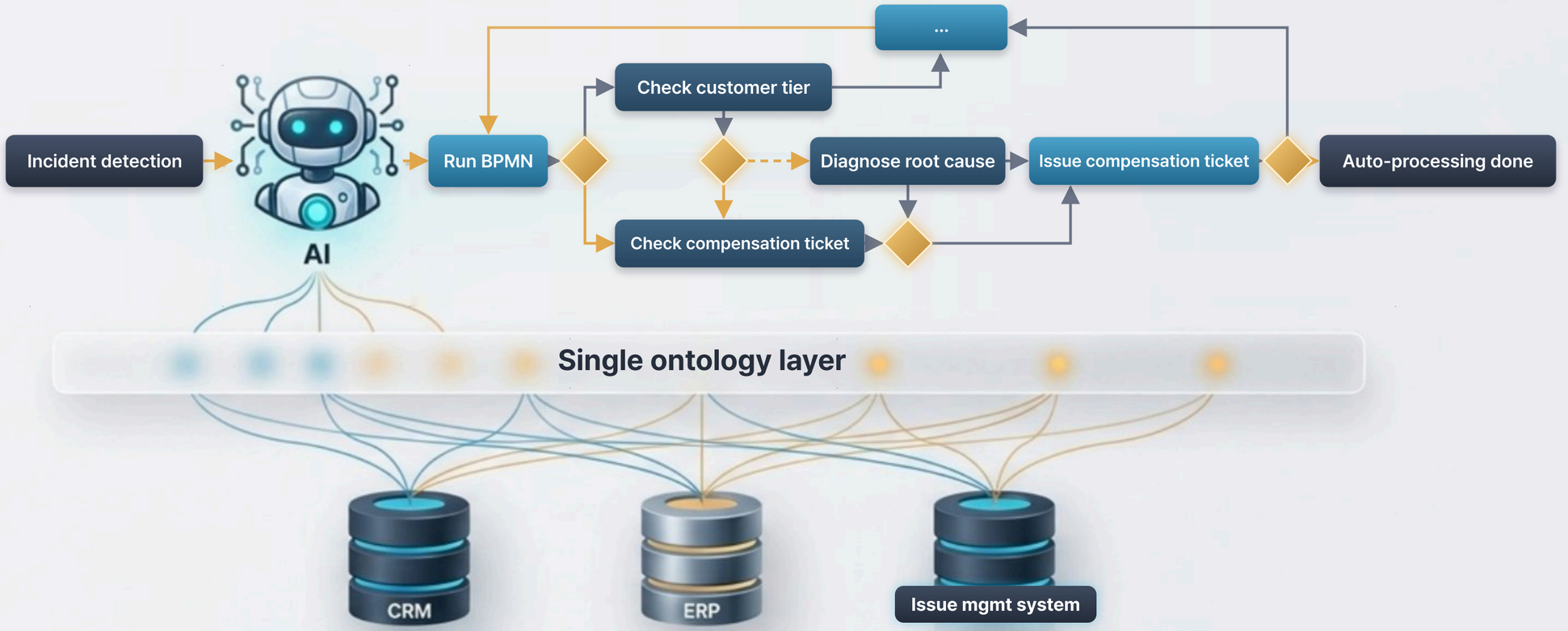
Structuring process causality: Before looking at the numbers, the interplay of the assembly process, first-pass yield, safety stock and more that affect the dependent variable ‘net profit’ is implanted into the ontology brain.

Text-to-SQL Pipeline



Intelligent Text-to-SQL: Not a simple translation. Using the ontology context, it scores the syntactic and business validity of each query on its own and extracts only fully verified data.

Scenario 3. Telco: Integrating Siloed Systems and Autonomous Incident Orchestration



Breaking silos

Combines the strictly separated CRM (customer data), ERP (resource management) and BSS/OSS (network operations) systems into a single data fabric and ontology layer.

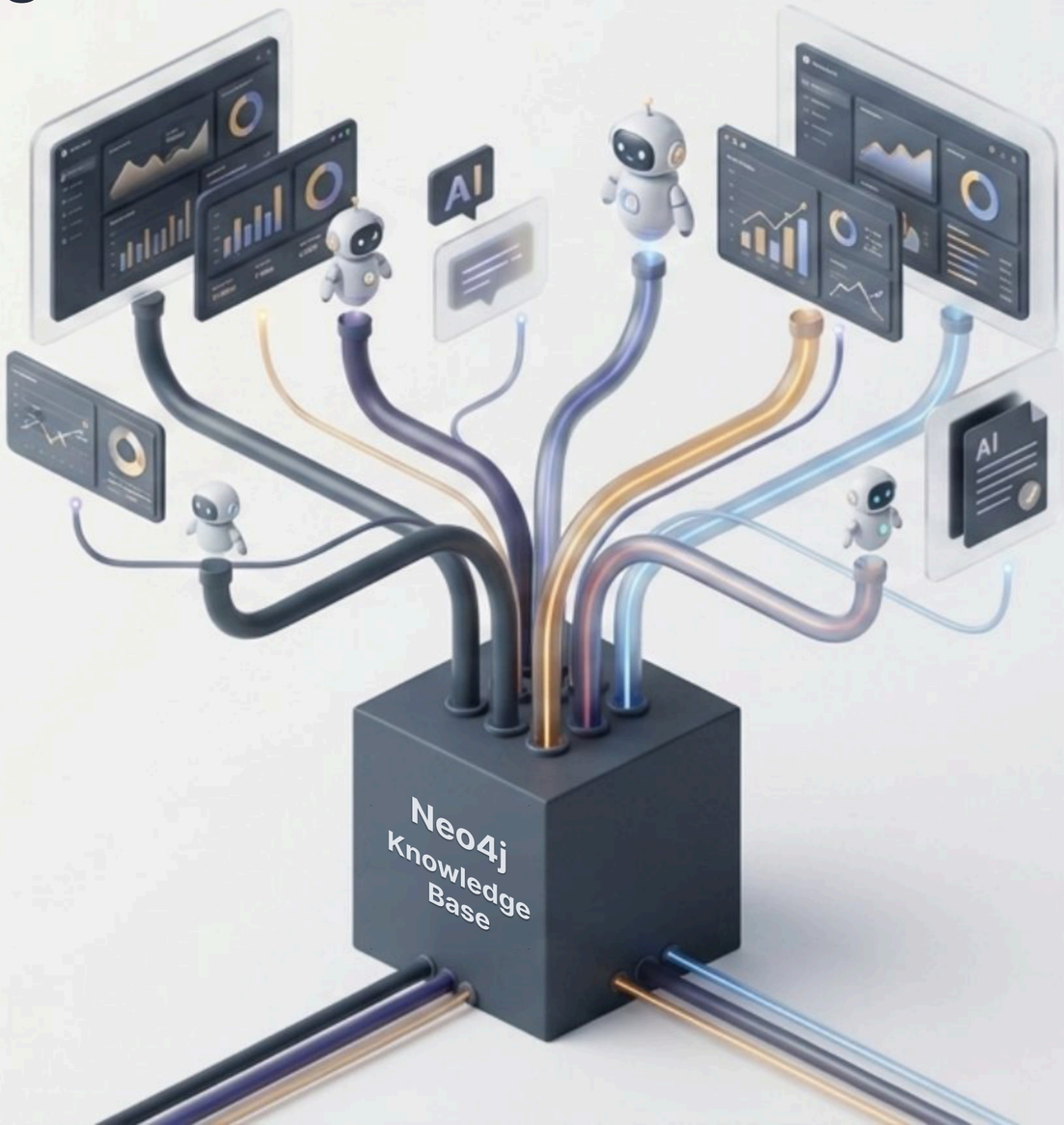
Autonomous agentic BPM

When a network incident occurs, multiple AI agents pass through predefined BPMN business rules and handle the whole flow, from checking the customer tier to diagnosing the root cause to issuing a compensation ticket, automatically and without human intervention.

Instant Value Creation: Unlimited Expansion of Applications that Leverage Knowledge

Cypher API access

Direct, standardized API interface to the accumulated knowledge network.



App & Agent generation

Reuse the ontology assets built once to rapidly produce, with no extra hard-coding and without limit, purpose-built real-time executive dashboards, department-specific analysis agents and regulatory-compliance automation documents.

From the Graveyard of Legacy to the Autonomous AI Enterprise

[Legacy] Before: Current State (As-Is)

Data and processes in a siloed graveyard



– **[Neglected assets]** Legacy code and manual documents that stay black boxes forever once the person in charge leaves.



– **[Piecemeal response]** An outdated monitoring setup that relies on after-the-fact reports, and people-dependent debugging.



– **[Disconnected tools]** Because systems are cut off from each other, one task needs dozens of manual interfaces.

[Ontologic] After: Future State (To-Be)

Transformation into an AI-driven autonomous enterprise



– **[Knowledge assets]** Legacy turned into semantic ontology assets that AI understands 100% and can explain.



– **[Proactive, predictive defense]** Future risks blocked in advance through what-if simulation and data-driven backtesting.



– **[End-to-end autonomous execution]** Agentic orchestration that minimizes human intervention and passes business rules autonomously.

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Risk-Free, Step-by-Step Evolution: The Ontologic Adoption Roadmap





Start your complete Data Operating System (Data OS) today.

No more time to waste searching for scattered data, whether it is the complex regulations of finance, the precise processes of manufacturing or the vast incident causality of telecom. With Ontologic, become the protagonist of a truly intelligent enterprise where data thinks for itself and acts on its own.

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