

Engage-Meta Initiative

Bridging Conceptual Knowledge and Operational Practices
for Enterprise AI

Engage-Meta.com

PIERRE BONNET

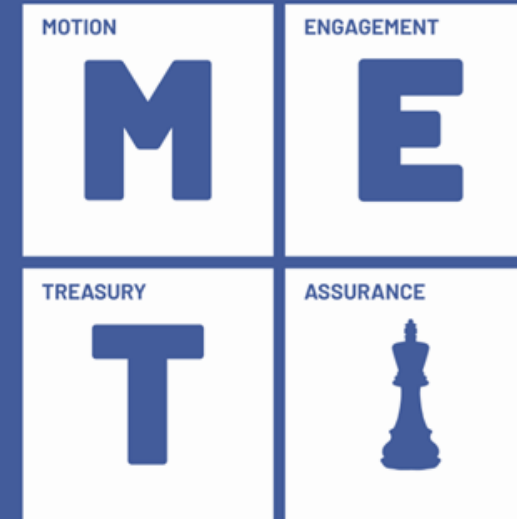
Executive leadership
across strategy,
architecture and delivery.

Agenda

-  Engage-Meta Initiative
-  Technical Architecture for AI
-  Impact of AI on Human Skills
-  How to Get Started the Right Way

ENGAGE-META INITIATIVE

Design Enterprise AI Systems



Building the Enterprise Information Foundations for AI

Engage-Meta is an open knowledge initiative dedicated to helping organisations build reliable Enterprise AI through better business knowledge, Enterprise Architecture and semantic information design. It combines an educational foundation with an architectural framework for Enterprise AI and Data transformation.



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PIERRE BONNET

AI & Data Consultant



30+

years in software, data
and transformation

300+

engineers across an
international organization

2018

Orchestra Networks
acquired by TIBCO

Founder of Engage-Meta
Co-founder of Orchestra Networks
Former TIBCO VP Engineering

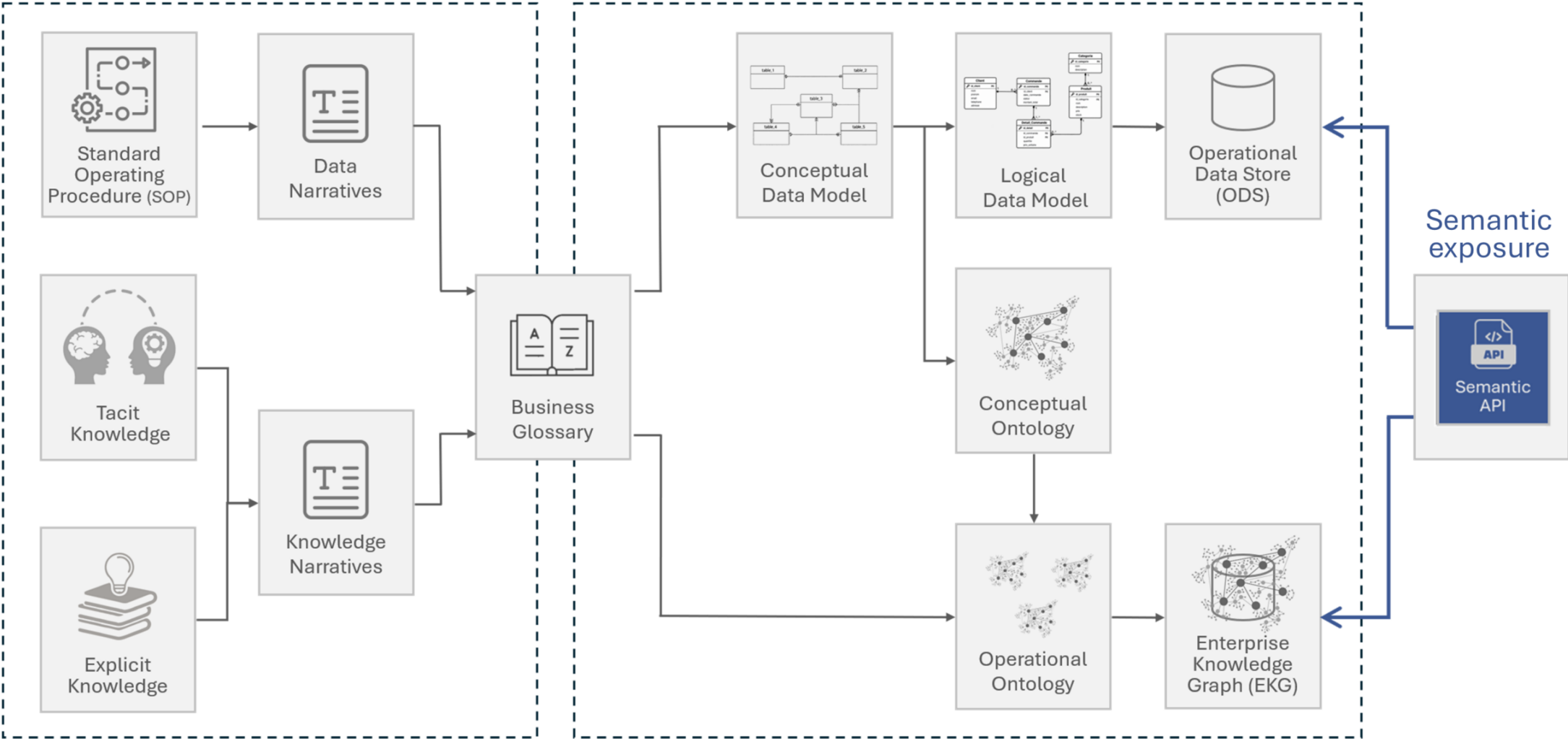
An international software executive
who combines board-level judgment
with the depth required to challenge
Enterprise AI decisions.

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The Semantic Exposure Pipeline for AI at Scale

From Knowledge to Semantic APIs

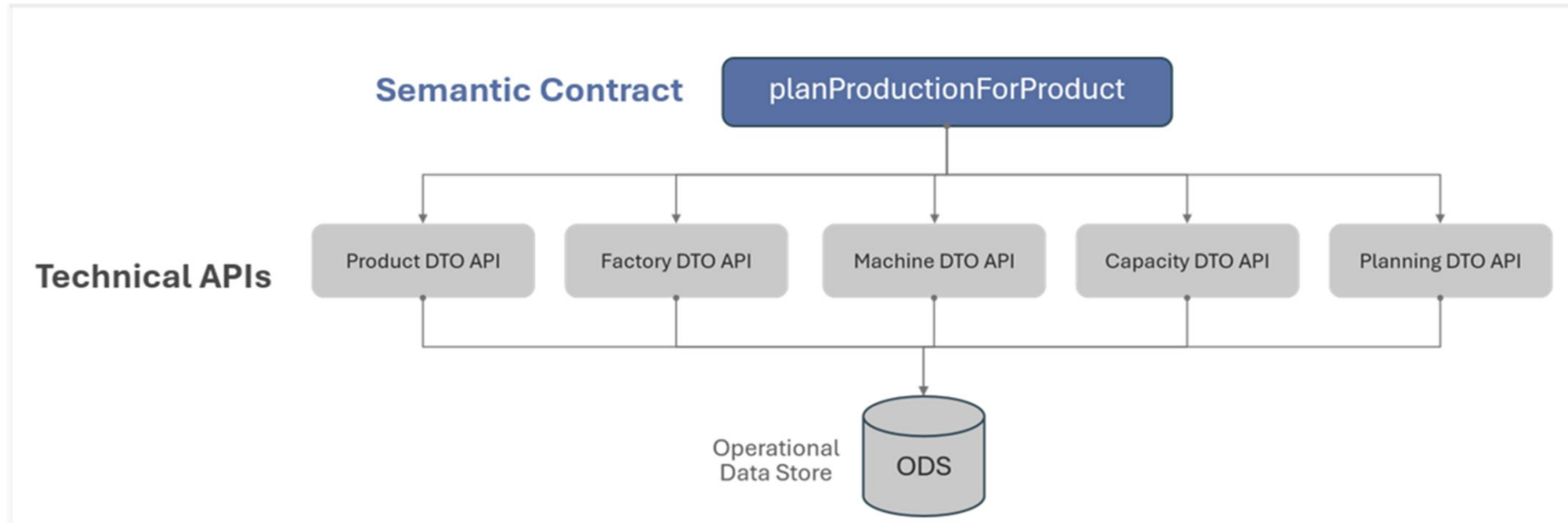


Semantic API Example

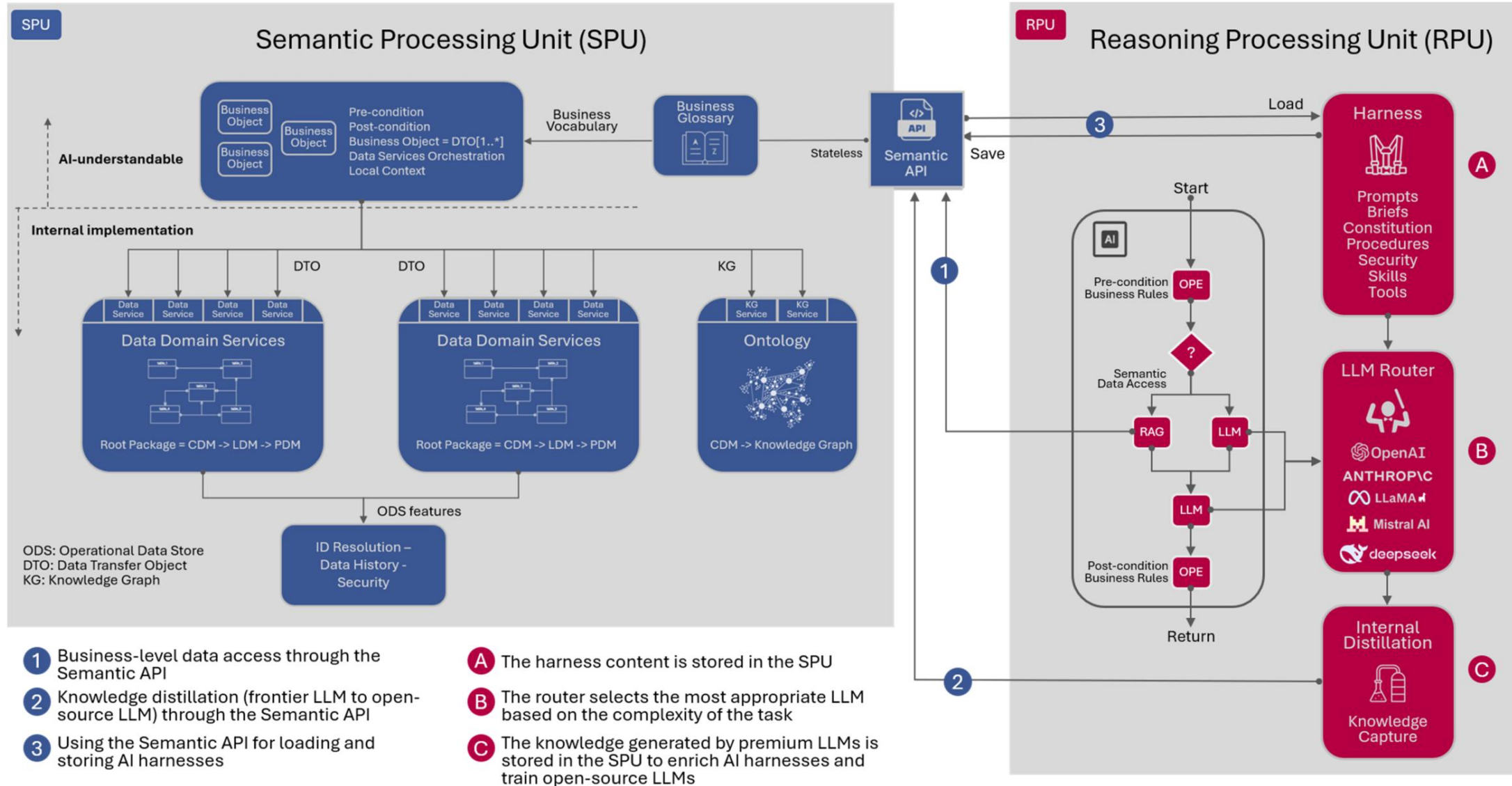


planProductionForProduct()

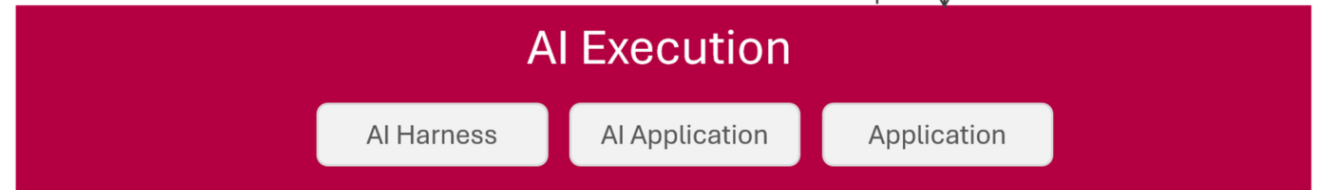
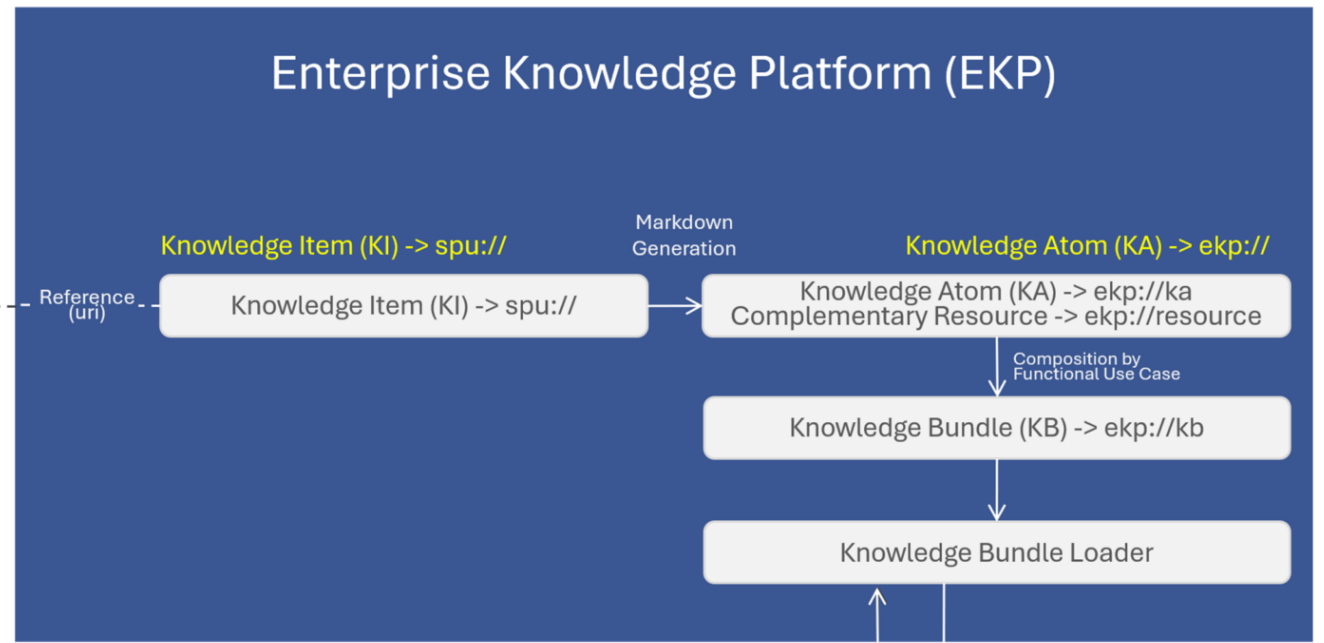
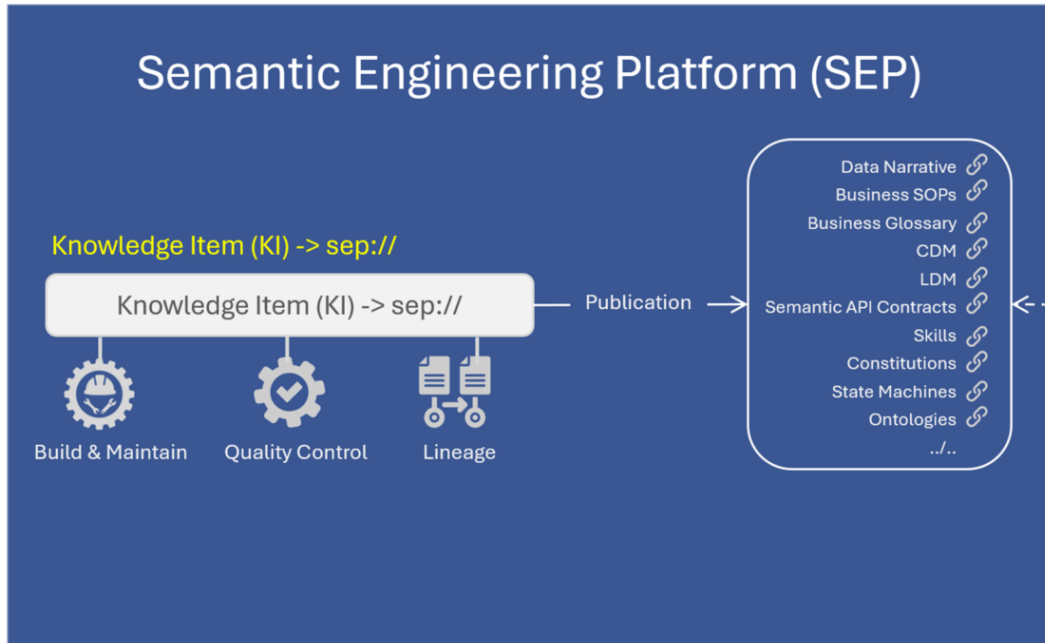
Semantic Business Operation



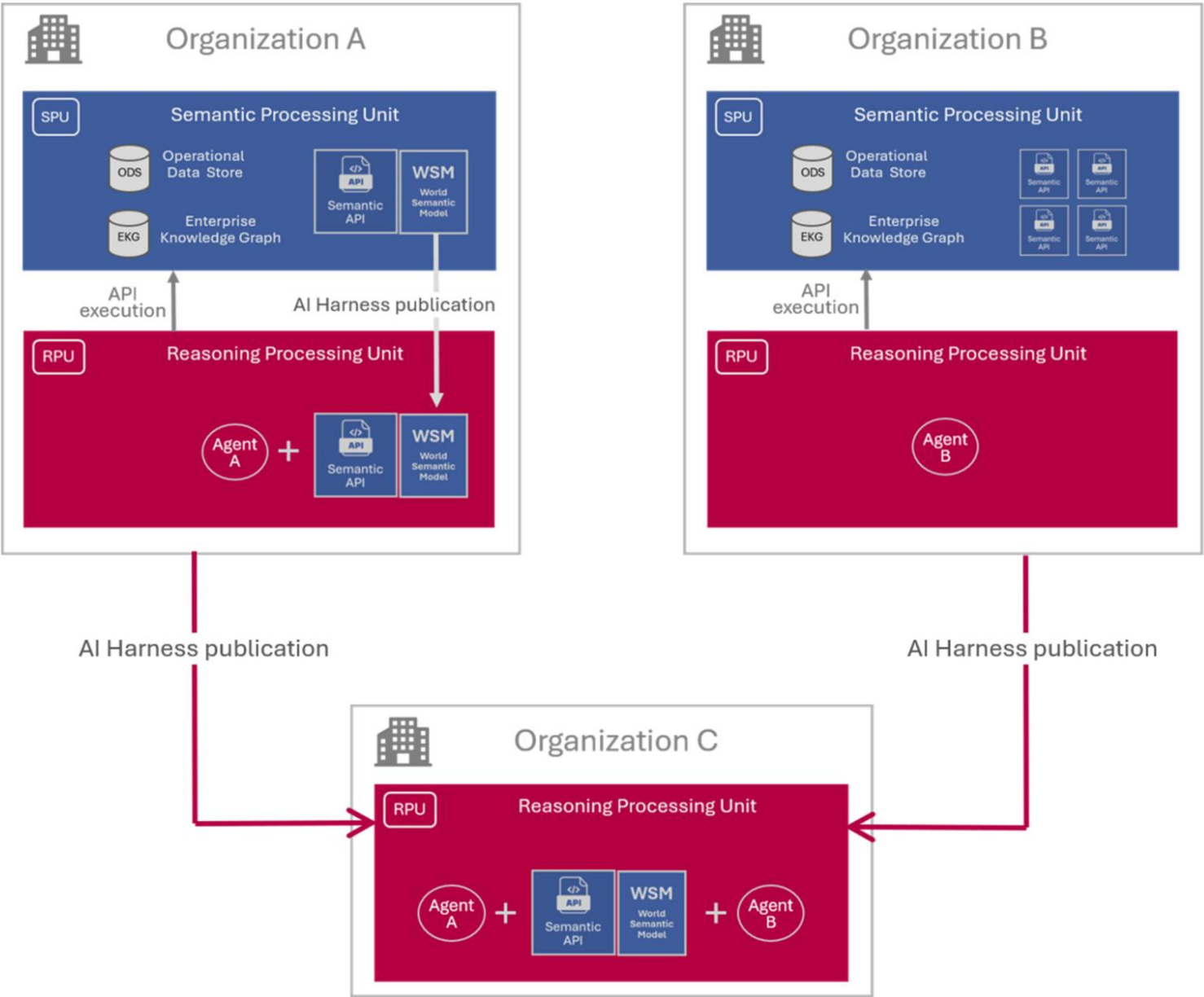
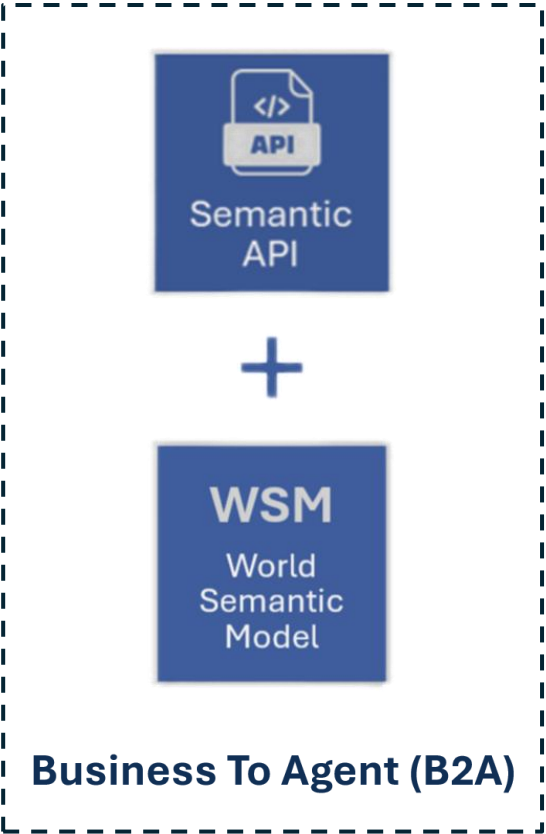
How Enterprise Knowledge Powers AI Reasoning



Knowledge Items -> Knowledge Atoms -> AI Harness



Agentic Economy



Knowledge Assets for AI at Scale



Business Knowledge

Enterprise Business Glossary - Data Narratives - Knowledge Narratives



Knowledge Representation

Conceptual Ontology - Operational Ontology - Enterprise Knowledge Graph (EKG)



Data Models

Conceptual Data Model for a business domain - Logical Data Model - Logical Naming Convention



Semantic Exposure

Semantic API contracts - Business operations - Business Objects - Technical API bindings



Operational Data Foundation

Operational Data Store (ODS) design - Identity Resolution - Data History - Data Quality rules



Enterprise AI Foundation

Implementation of all or part of the Semantic Exposure Pipeline – SPU Knowledge Organization – Governed Knowledge Exposure to AI Agents

A Common Language for Reliable Enterprise AI



A COMMON LANGUAGE FOR RELIABLE ENTERPRISE AI

Reference Vocabulary Initiative.

Join the movement to build the architectural language our AI systems need.



The Engage-Meta Reference Vocabulary

A Common Architectural Language for Enterprise AI

Includes 16 Architectural Concepts

- AI Harness Loading
- Business Glossary (BGL)
- Business Object
- Conceptual Data Model (CDM)
- Data Domain Service
- Data Narrative
- Data Transfer Object (DTO)
- Enterprise Knowledge Graph (EKG)
- Internal Knowledge Distillation (IKD)
- Logical Data Model (LDM)
- Ontology
- Operational Data Store (ODS)
- Reasoning Processing Unit (RPU)
- Root Package
- Semantic API
- Semantic Processing Unit (SPU)

Version 1.0 | July 2025

Practical White Papers





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Sustainable AI Systems

A free monthly newsletter
to master Enterprise AI design

PUBLISHED ON LINKEDIN

1. Why AI needs Semantics

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
NEWSLETTER

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Issue 01



This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



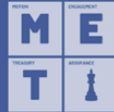
2. Conceptual Framework

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
NEWSLETTER

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Issue 02



Conceptual Framework For Building Profitable AI Systems

This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



3. Business Glossary

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Issue 03



Step 1 of the Conceptual Framework: The Business Glossary

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4. Conceptual Data Model

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
NEWSLETTER

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Issue 04



Step 2 of the Conceptual Framework: The Conceptual Data Model (CDM)

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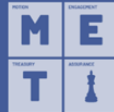
5. Logical Data Model — Semantic API

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NEWSLETTER

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Issue 05



Step 3 of the Conceptual Framework: The Logical Data Model (LDM) as the Foundation of the ODS and Semantic APIs

This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



6. Knowledge Graphs & Ontologies

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
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Issue 06



Step 4 of the Conceptual Framework: Knowledge Graphs and Ontologies as Secondary Semantic Layers

This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



7. META Equation For AI Profitability

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
NEWSLETTER

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Issue 07



Step 5 of the Conceptual Framework: The META Equation for AI Profitability

This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



8. Putting It All Together

ACCUMULATING KNOWLEDGE TO ACHIEVE SUSTAINABLE SUCCESS WITH AI
NEWSLETTER

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Issue 08



Putting It All Together: The Engage-Meta Architecture for Profitable AI Systems

This newsletter is written for Architects, Data Leaders and Decision-Makers who want AI systems that actually work in production; not endless POCs, not demos disconnected from business reality



Agenda

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The Soft Skills for Augmented-Human Capabilities

THE WASI EFFECT

Human capabilities for better Enterprise AI



WRITING

Give clear instructions and formalize knowledge.



ANALYZING

Challenge assumptions and validate AI outputs.



SHARING

Turn individual experience into collective knowledge.



INNOVATING

Combine human judgment and AI to create solutions.

HUMAN CAPABILITIES + AI = AUGMENTED INTELLIGENCE

- Knowledge management reinforces the human–AI feedback loop by capturing relevant tacit knowledge and transforming it into governed, reusable enterprise knowledge

The stronger the WASI capabilities, the more effectively people and AI can work together; and the more reliable and valuable Enterprise AI systems become

Four Questions for Human-Agent Collaboration (1/4)

M

MOTION

↑

MOTION — MOVE

Why must we act?

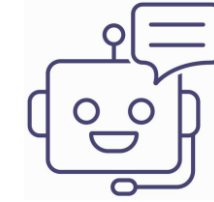
Clarifies the purpose and sense of necessity that sustain commitment over time.

PURPOSE

VALUES

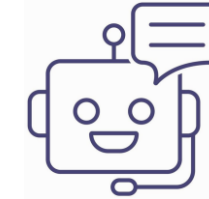
AMBITION

RESULT: SUSTAINED DIRECTION



Why Should I Act?

Four Questions for Human-Agent Collaboration (2/4)



**What Should I Do
to Minimize the
Risk of Getting It
Wrong?**

Four Questions for Human-Agent Collaboration (3/4)

TREASURY — FINANCE

How will value be created and sustained?

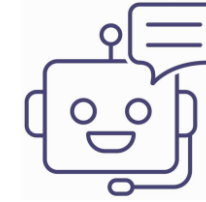
Examines the resources and mechanisms required to make the activity sustainable.

RESOURCES

FINANCING

VALUE

RESULT: SUSTAINABLE VALUE



**How Should I
Create
Sustainable
Value?**

Four Questions for Human-Agent Collaboration (4/4)

ASSURANCE — PROTECT

How will the activity and value be protected?

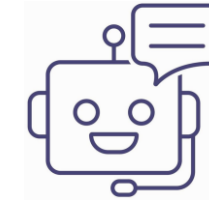
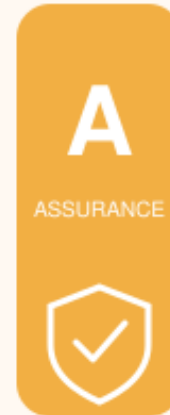
Defines the governance and safeguards that protect stakeholders and created value.

GOVERNANCE

RISKS

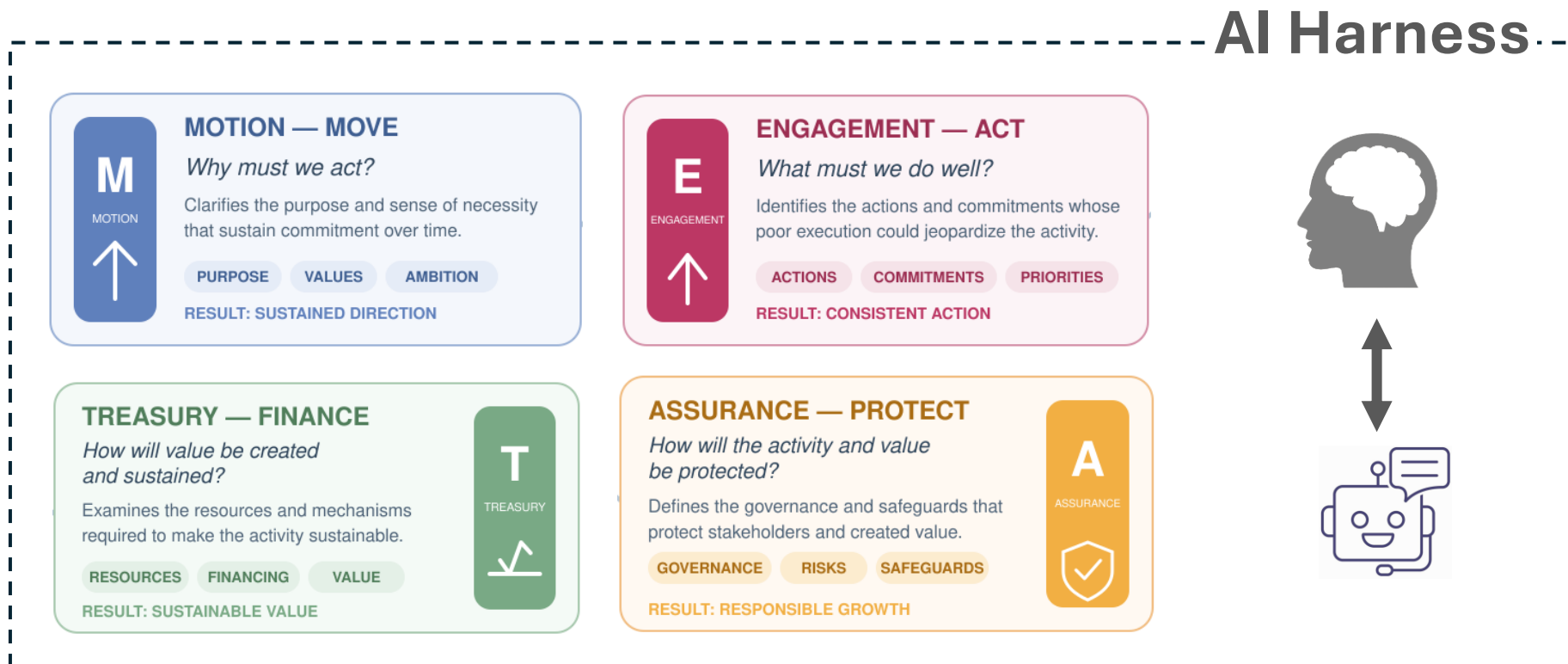
SAFEGUARDS

RESULT: RESPONSIBLE GROWTH



What Should I Protect?

META Provides a Shared Reasoning Framework for Human-Agent Collaboration



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Step 1 — Explore

Understand your business objectives, AI opportunities and existing information foundations

Step 2 — Evaluate

Assess the gaps between business ambition, knowledge, data, architecture and AI capabilities

Step 3 — Build & Learn

Start with a bounded business domain, measure value, govern what you learn and progressively scale

Explore Engage-Meta Further



Enterprise AI & Data Advisory

Powered by the Engage-Meta Framework

Helping teams turn AI initiatives into scalable enterprise capabilities.

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SERVICE OFFER

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across strategy,
architecture and delivery.

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01

Thank You

PIERRE BONNET - **Contact me to discuss your Enterprise AI priorities**

pierre.bonnet@hlfl-consulting.com · engage-meta.com



Explore [Engage-Meta](https://engage-meta.com)

HLFL Consulting is Pierre Bonnet's advisory company. Engage-Meta is the open-source community behind the reference framework