

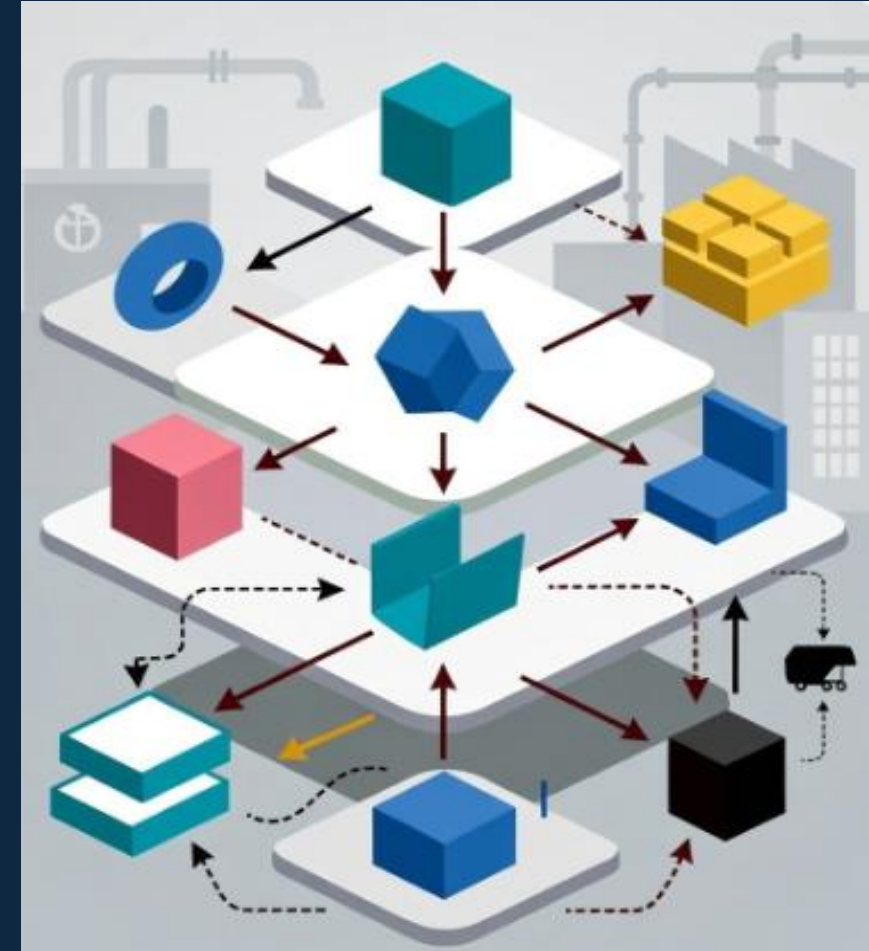


Streamlining Industrial Interoperability: Our AI Solution for a Connected Manufacturing Landscape

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The Problem: The Interoperability Challenge in Manufacturing

- **Integration Bottleneck:** Interoperability is essential, yet integrating heterogeneous systems (MES, ERP, PLM, and shop floor systems) in manufacturing remains a complex undertaking that requires significant engineering effort
- **"Siloed" Systems:** Each application speaks its own "language," creating barriers to seamless data exchange and collaboration
- **Massive Efforts, Limited Results:** Current approaches demand significant investments in time and resources for each new integration, hindering innovation and efficiency
- **High Total Cost of Ownership (TCO):** Managing and updating complex integration platforms increases operational costs for our customers



The Solution: Semantic Intelligence for Integration

- **We introduce a Manufacturing Conceptual Model that aggregates and harmonizes concepts, events, and methods from all applications**
 - **Transforms disparate information into a structured, "AI-consumable" format**
 - **Provides a unified understanding of the manufacturing domain**
- **Intelligence at Work: The AI Multi-Agent System: An advanced system, powered by a comprehensive Manufacturing Conceptual Model, that support users in:**
 - **Defining necessary data transformations**
 - **Configuring systems for integration**
 - **Generating workflows across diverse applications**
- **Intelligent and Dynamic Integration: No more manual integrations, but AI-orchestrated solutions that adapt and learn**



Customer Benefits: Efficiency, Simplicity, and Value

- **Drastic Reduction in Engineering Effort:**
 - Targeting 50% reduction in engineering effort compared to traditional methods
- **Optimized Total Cost of Ownership (TCO):**
 - We provide a reasonable and simple means to enable interoperability during runtime
 - No need for massive, complex, and/or expensive platforms
- **Predefined and Industry-Specific Integrations:**
 - We offer a predefined set of integrations (industry-specific)
 - Accelerates implementation and time-to-value
- **Seamless Collaboration: Enables fluid data exchange and effective collaboration across all systems**



Technical Overview: How the Magic Happens

- A Semantic Conceptual Model that collects and consolidates all the relevant concepts, events, and methods provided by the various applications to be integrated, transforming that disparate information into a structured, AI-consumable format that can power intelligent interoperability solutions
- An AI agent that provides the LLM with a comprehensive Manufacturing Domain Model, and leverages that structured knowledge to define the relevant data transformations, system configurations and workflows required for System Integration across the diverse manufacturing applications

