



# AVEVAWORLD

ACCELERATE INDUSTRIAL INTELLIGENCE



Semantic Intelligence for  
Industrial AI

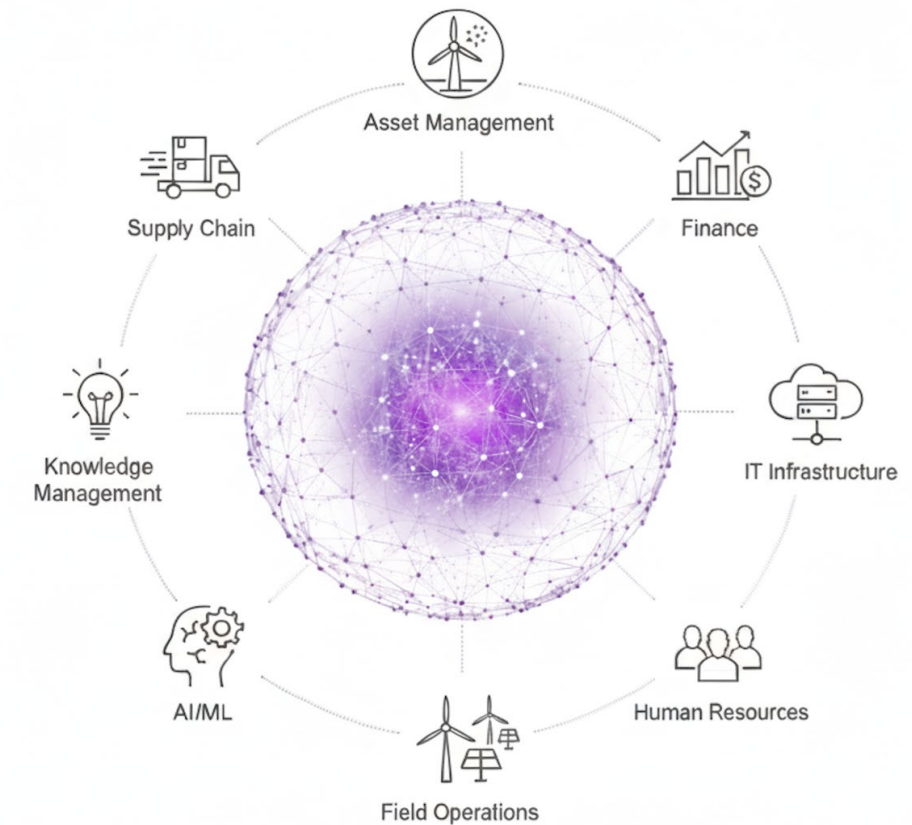
# Unlocking Business Value

How Kobai Connects AVEVA and Databricks Through  
Semantic Context

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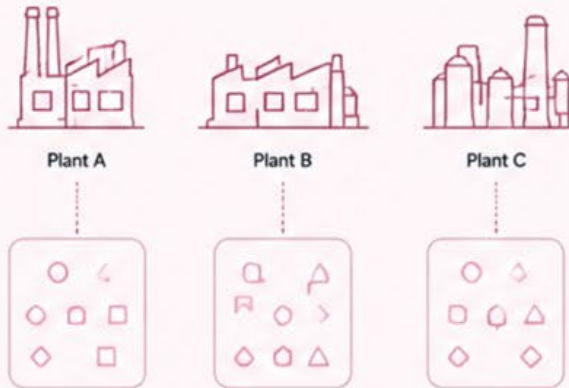
**“We invested in cloud platforms and AI to improve decisions.  
So why are decisions still so hard?”**



# Three Challenges Preventing Industrial AI at Scale

## 1 Brownfield Alignment

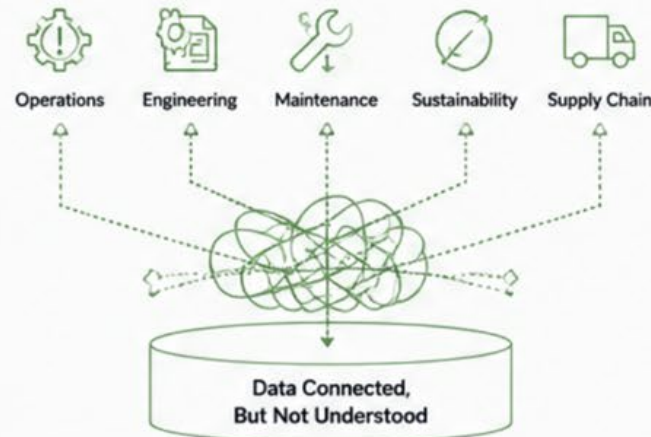
Every plant, asset, and process looks different.



Different naming, instrumentation, structures, and data models make fleet-wide analysis extremely difficult.

## 2 Contextualized Integration

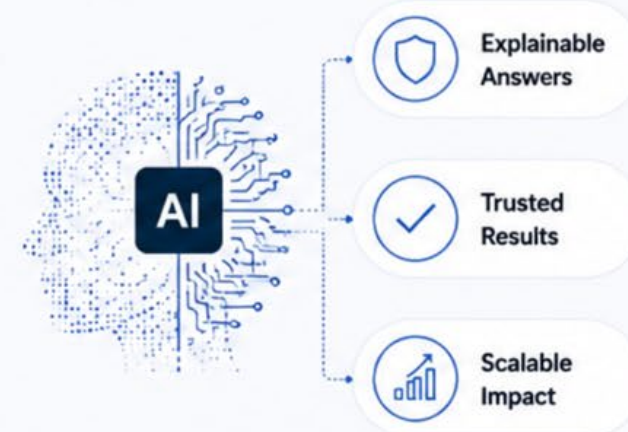
Connected data still lacks shared meaning.



Business logic is buried in pipelines and code, leading to **duplication, inconsistency, and lost trust.**

## 3 Trusted AI

AI must be explainable, trusted, and scalable.



Without context, AI produces **unreliable answers** and fails to deliver enterprise value.

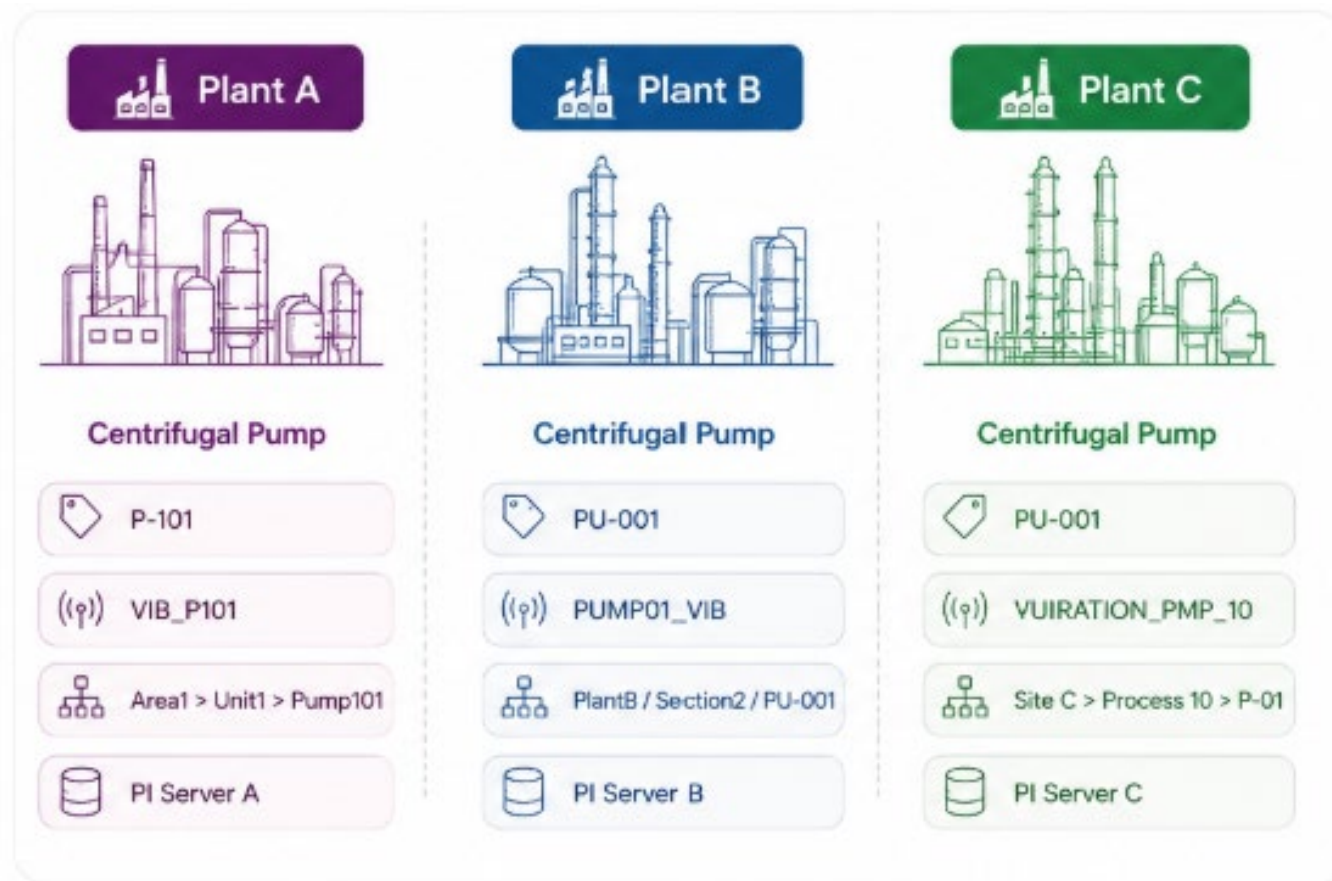


Industrial intelligence requires more than connectivity. **It requires context.**



# Brownfield Alignment: Every Plant Looks Different

Same Assets. Different structures



## Same Assets

Pumps, compressors, valves, and motors exist across every facility.



## Different Structures

Different naming conventions, instrumentation, and historian models make alignment difficult.



## Different Answers

Fleet-wide analytics and AI struggle when industrial meaning is inconsistent.



**AI can only reason over assets it understands**

# Industrial Data is Connected... But Not Understood



Engineering, operations, and sustainability operate in silos



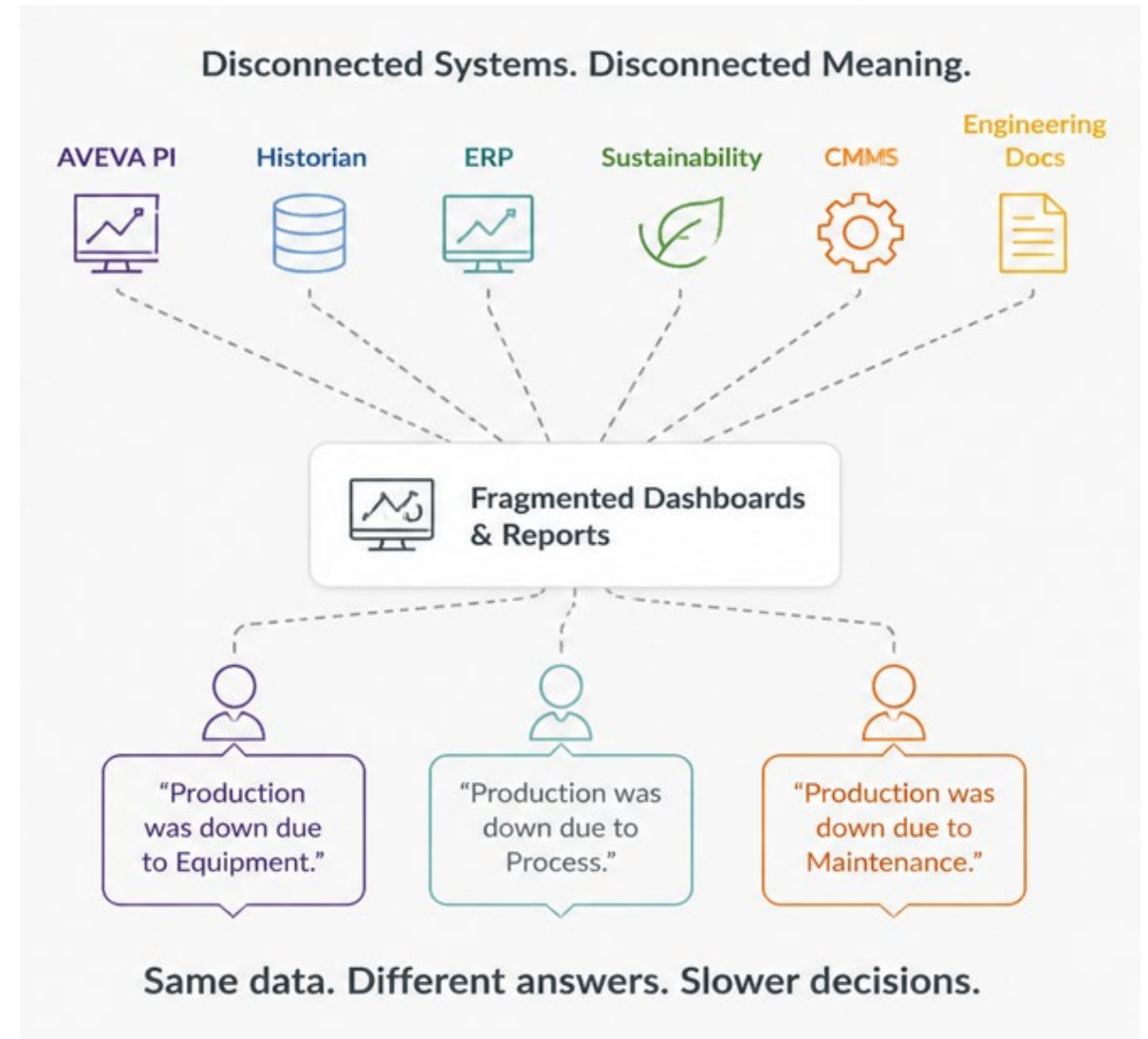
Business logic is buried in pipelines and SQL



Different teams get different answers or conclusions from the same data

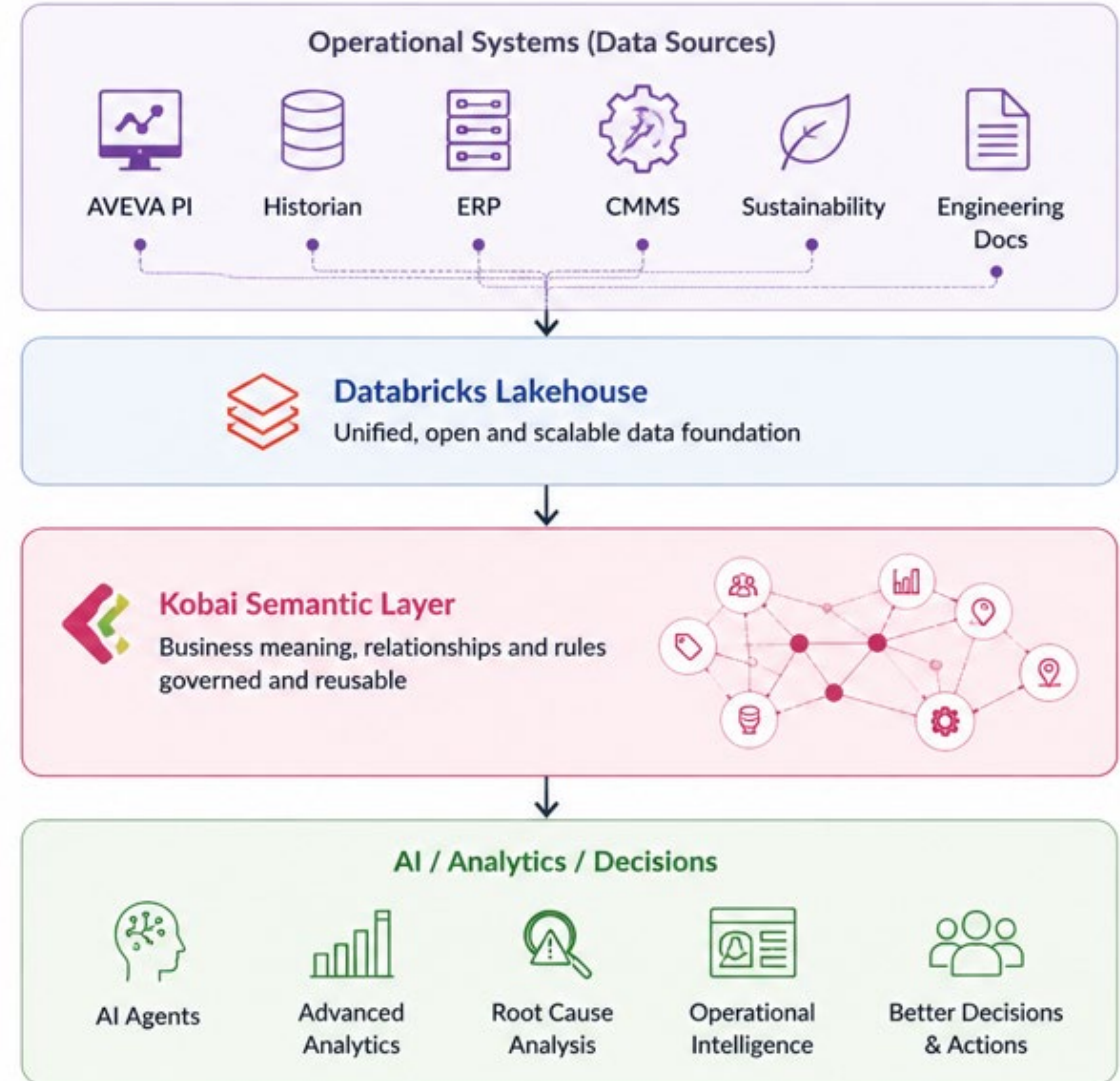


**We've digitized data.**  
**But we haven't digitized meaning.**



# Connecting Industrial Context Across the Enterprise

- **AVEVA Operational Data**
  - Trusted industrial data from across engineering and operations systems
- **Databricks Lakehouse**
  - Open scalable and secure foundation for all your data
- **Kobai Semantic Layer**
  - Adds meaning, relationships, and business context
- **AI / Analytics / Decisions**
  - Trusted insights and actions powered by context



# AI Without Context Doesn't Scale

## What companies are seeing:



### AI pilots that don't scale

Promising pilots stall and fail to deliver enterprise value.



### Conflicting answers

Different teams, different numbers, same data.



### Governance concerns

Lack of transparency and trust slows adoption.



### Increasing data complexity

More data, more sources, more disconnected systems.

## What changes with semantic context:



### Shared understanding

A single, trusted view of business meaning across the enterprise.



### Explainable AI

AI outputs are transparent, traceable, and trusted.



### Reusable business logic

Standardized and governed logic reused across systems and teams.



### Faster adoption across teams

Context enables confident adoption and measurable impact.



If AI is the interface... **semantics is the foundation.**



# In Practice

## Example:

### Operator asks:

“Show me pumps similar to P-101 that failed under high vibration conditions.”

## Root Cause Investigation

### Before

An engineer investigates a pump failure across multiple systems:

- PI data
- maintenance records
- engineering documents
- sustainability impacts

Different naming conventions and disconnected systems slow the investigation.

### After

Kobai connects operational and enterprise context through a semantic layer, enabling AI and analytics to identify related assets, historical failures, and operational impact in minutes.

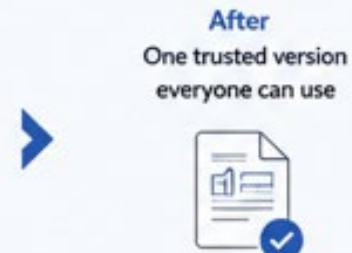
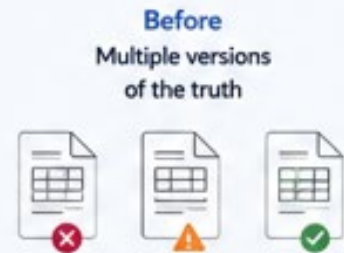
### Faster root cause analysis

Investigate across systems with full context and relationships.



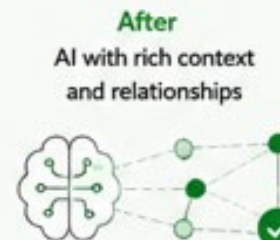
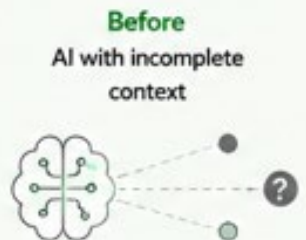
### Reduced reporting complexity

Standardize metrics and business logic across systems and teams.



### Better AI outcomes

Provide AI with the right context to deliver accurate, explainable answers.



### Improved sustainability visibility

Connect operational and ESG data to accelerate compliance and reporting.





# From Data to Decisions



**Connect operational, engineering, and sustainability data**

Unify data across systems, people, processes, and assets.



**Extend the value of AVEVA and Databricks**

Leverage your existing investments to drive more outcomes.



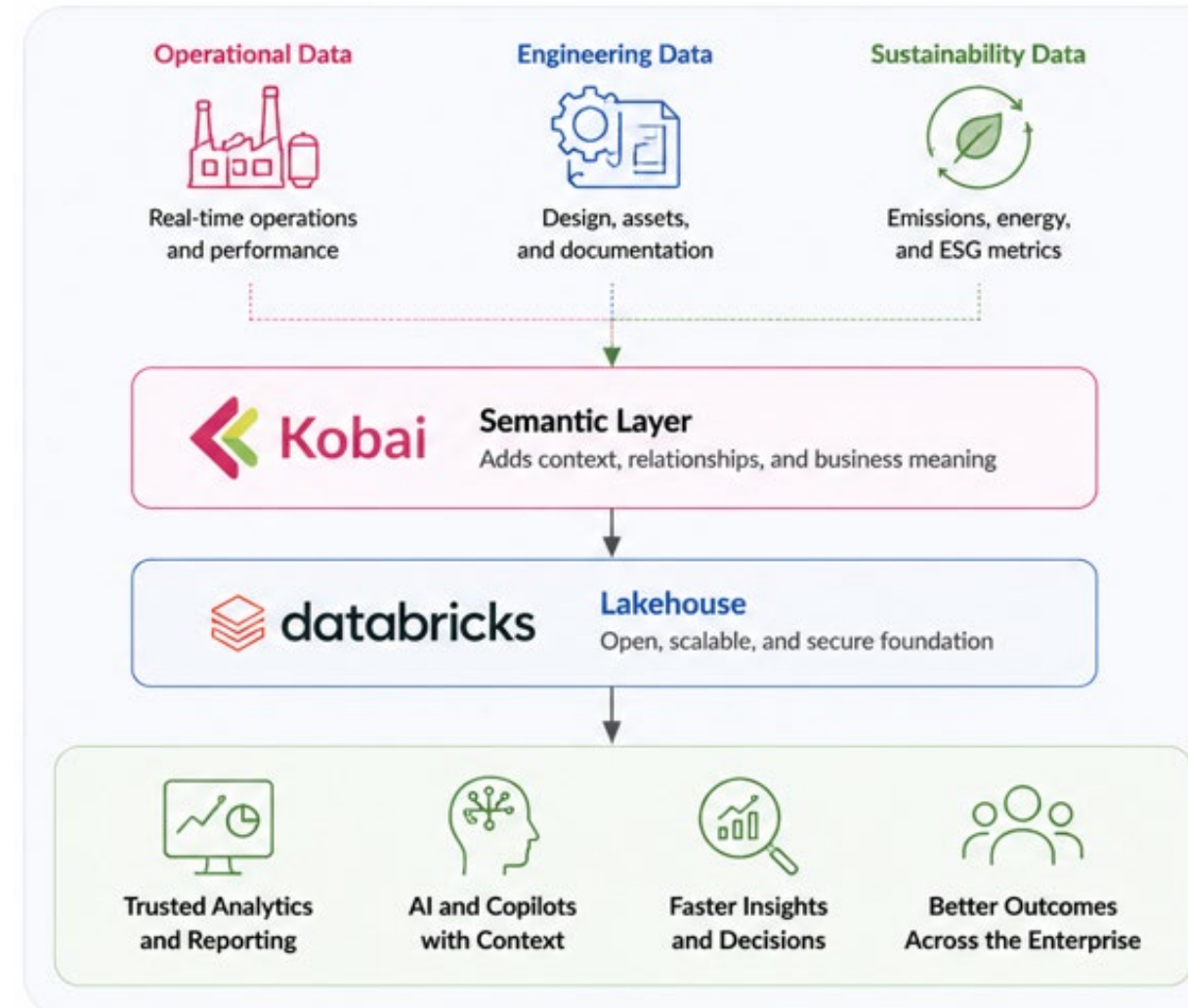
**Deliver trusted, explainable AI and analytics**

Give teams confidence in the answers and the 'why' behind them.



**Create measurable operational impact**

Drive efficiency, reduce risk, and improve performance.



**The future of industrial intelligence is not just connected data. It's connected understanding.**