

Completing The Last Mile

Implementing A Digital Thread
using a Data Hub

Tal Doron, GigaSpaces

GLOBAL PRODUCT DATA INTEROPERABILITY SUMMIT 2023



Presenters Bio

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Tal Doron

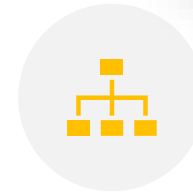
AVP Solution Architects @ GigaSpaces



15 years of enterprise experience



Distributed systems



Holistic multi-domain project design



Innovation & optimization



Advisory Board focusing on strategy



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Delivering millions of users the best experience of always-on, scalable, highly performant data services **via a Data Hub**



Completing The Last Mile And Connecting The Dots

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Building a **Digital Thread** with an **Operational Data Hub** enables manufacturers to overcome data fragmentation by establishing a unified and connected ecosystem, ensuring **seamless data flow** and empowering **data-driven decisioning**.

Questions Every Manufacturer Faces On Its Digital Transformation Journey

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Key Innovation Questions:

- **Why Change?**
- **Why Now?**
- **Why Choose THIS direction?**

Questions Every Manufacturer Faces On Its Digital Transformation Journey

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Why Change?



Increasing Complexity



More Data Silos



Reduce Costs



Competitive Advantage



Customer Expectations



Increase Efficiency

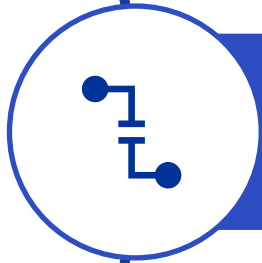
Understanding The IT Challenge

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Isolation

Data is stored in isolated systems and databases that operate independently, resulting in data silos



Compartmentalization

Data is compartmentalized within different departments, systems, or BUs, making it difficult to access, share, and utilize information



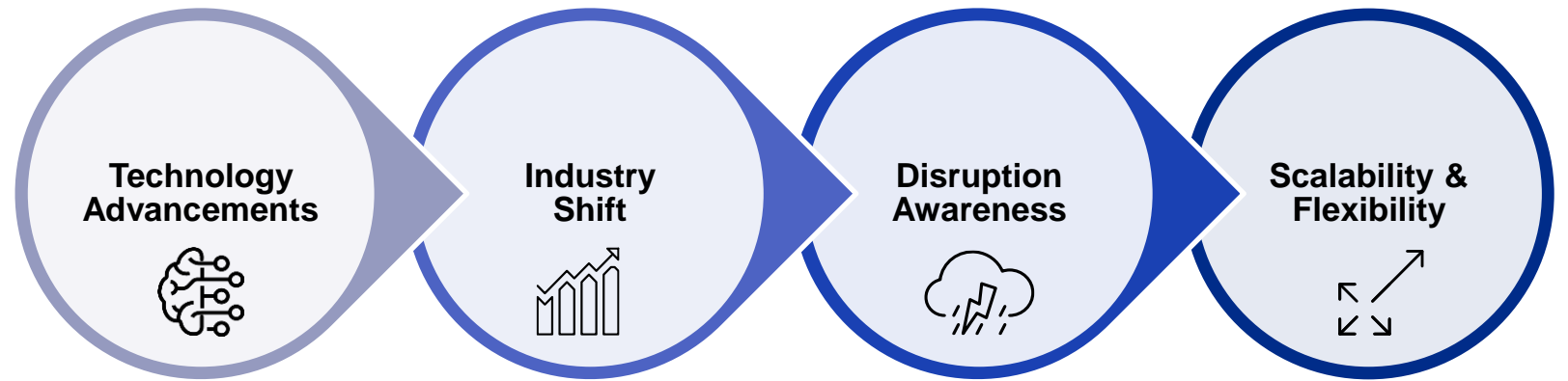
Fragmentation

Lack of comprehensive view of manufacturing processes, leading to inefficiencies, redundancies, data inconsistencies, and missed opportunities

Questions Every Manufacturer Faces On Its Digital Transformation Journey

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Why Now?



Threats & Opportunities: Reshaping the Competitive Landscape, Underscoring the Need to Modernize

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Supply Chain Disruption



Delays, shortages, and increased costs & uncertainty as a ripple effect of Covid-19 lock-downs and increased demands

Intensified Competition



Manufacturers are facing increasing competition from global players

Increased Regulation



Manufacturers face strict regulatory requirements, particularly in health & safety, environmental impact, and data privacy



Predictive Maintenance

Identify potential issues before they become major problems



Real-time Monitoring

Monitor production, supply chain performance, and customer demand to make better decisions



Improved Quality Control

New processes for ensuring that products meet the required standards



Creating Efficiencies

New opportunities for optimizing production processes and reducing waste

Why Choose **THIS** direction?



Holistic Insights



Real-time Responsiveness



Process Optimization



Collaboration and Innovation



Future-Readiness

Introducing the Data Hub as a Digital Thread

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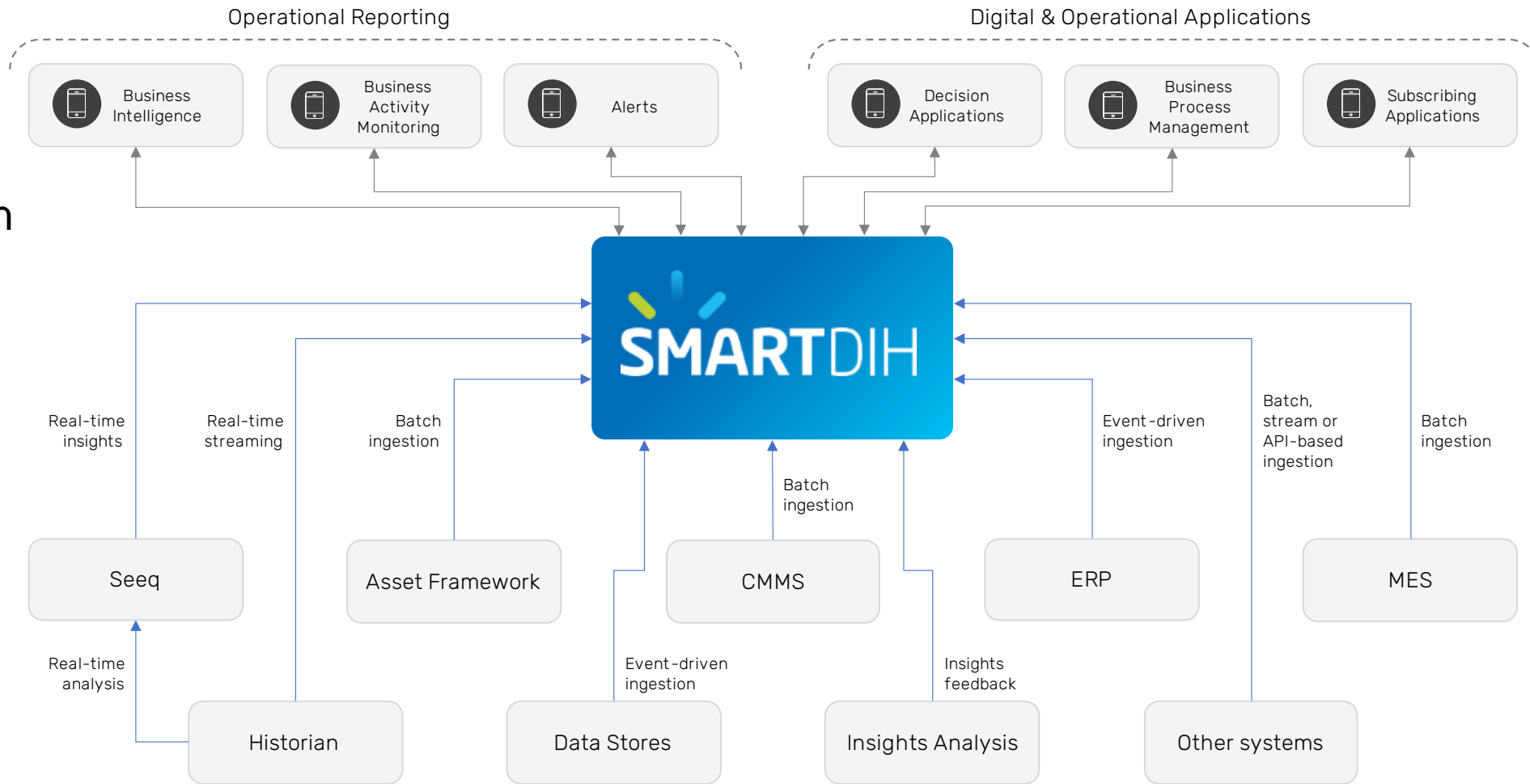


The Data Hub enables
frictionless data integration,
contextualization, and accessibility

Why Use a Data Hub as a Digital Thread: Holistic View of Your Data

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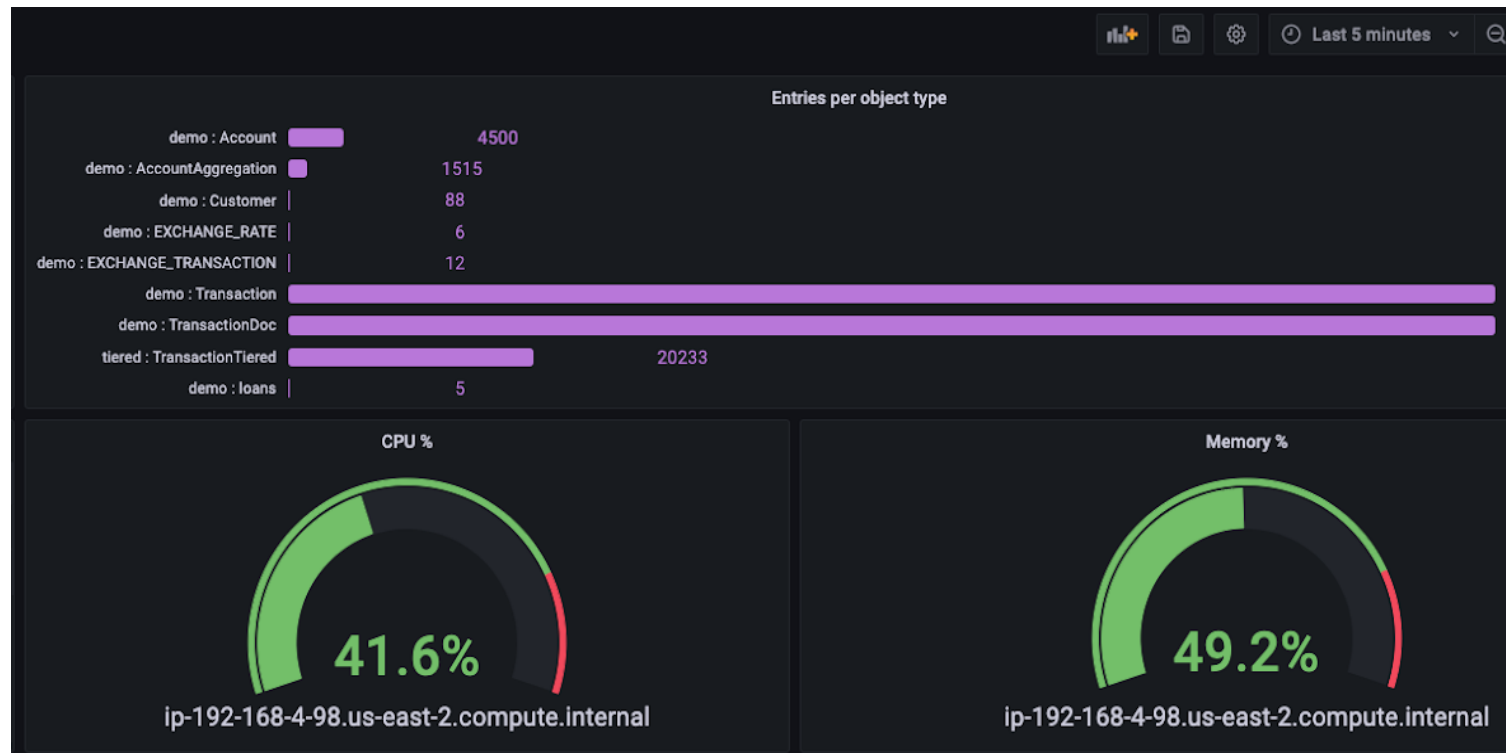
- Integrating information from multiple systems
- Driving better-informed decisions
- Enabling comprehensive analysis



Why Use a Data Hub: Delivering Real Time Responsiveness

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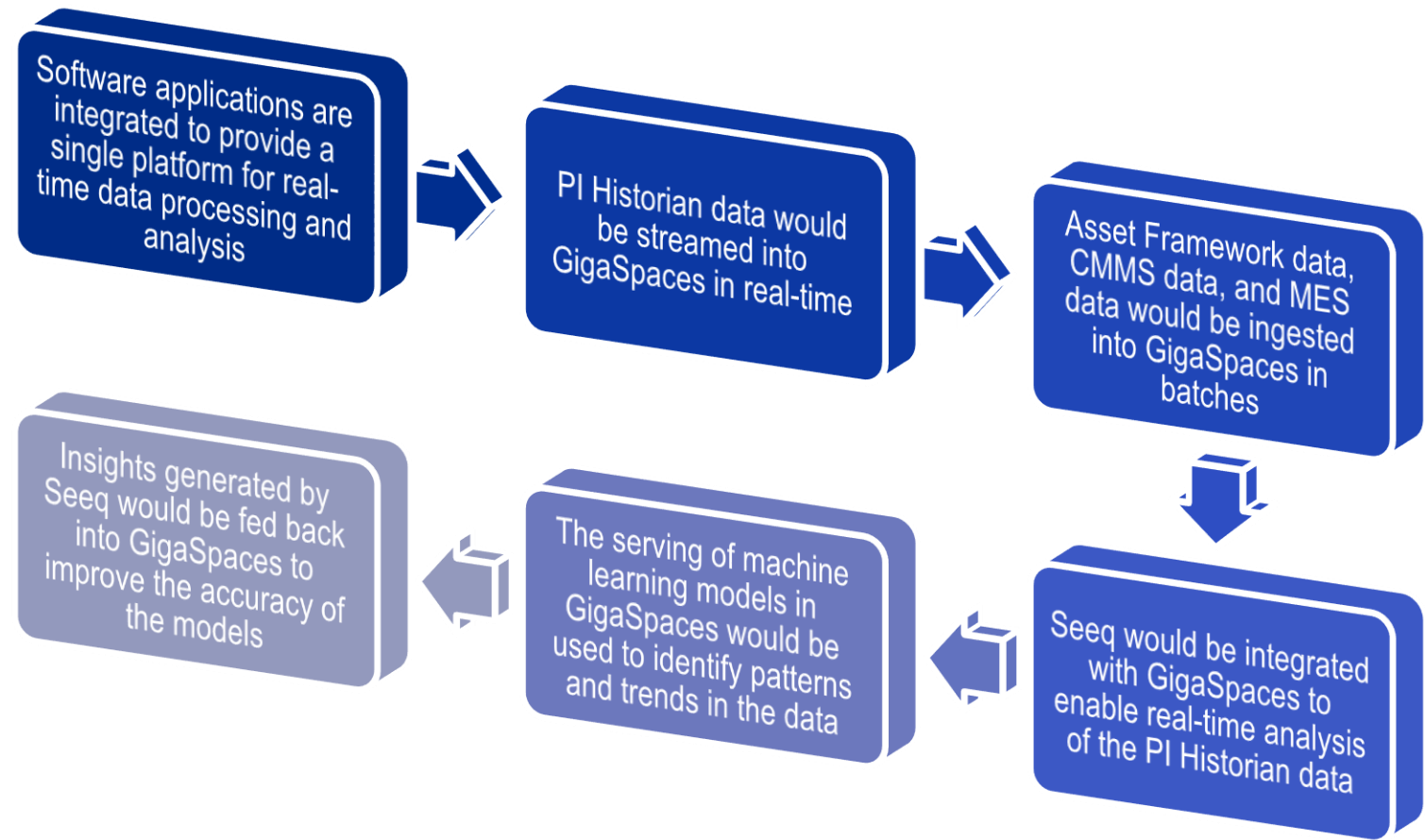
With a Digital Thread, organizations can **respond in real-time** to changing circumstances, customer demands, and market trends – **enhancing overall agility**



Why Use a Data Hub: Optimizing Processes

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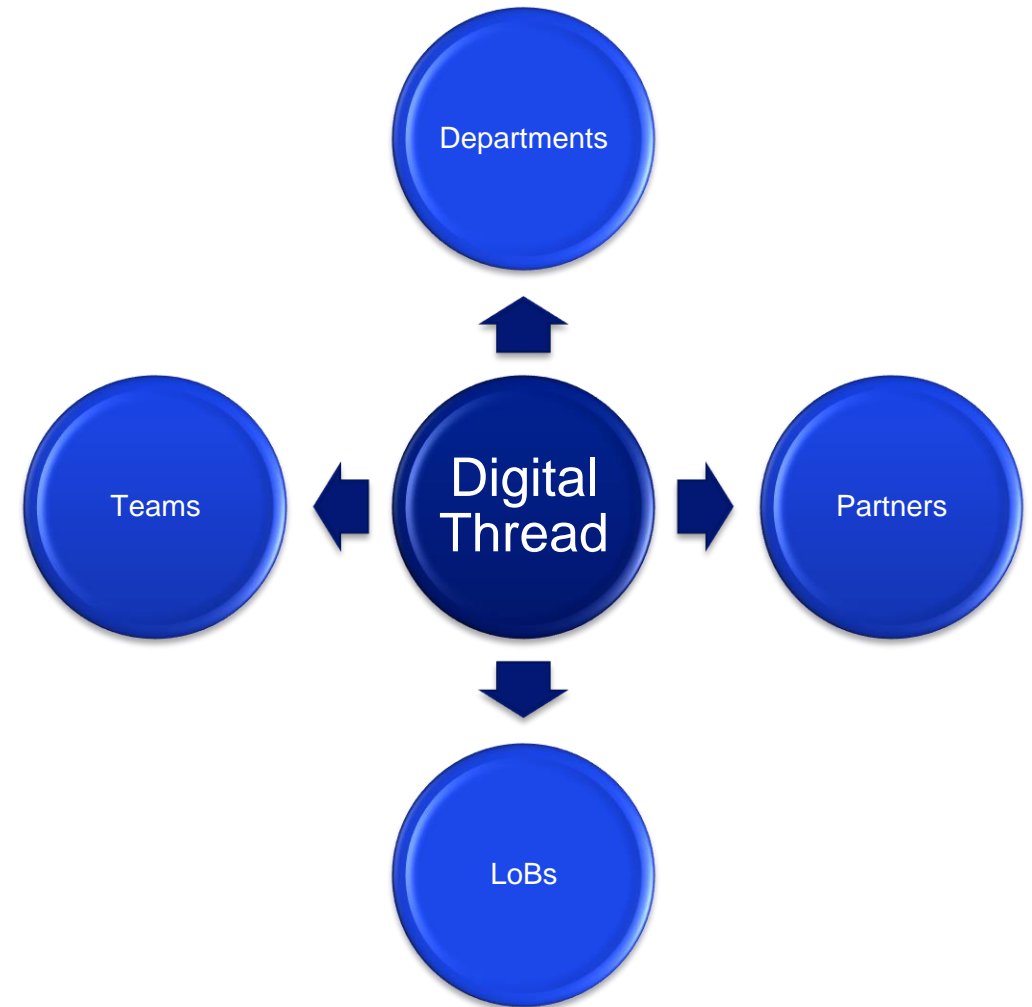
By analyzing data across the entire value chain, organizations can identify bottlenecks and inefficiencies, leading to streamlined processes and cost reductions



Why Use a Data Hub: Collaboration & Innovation

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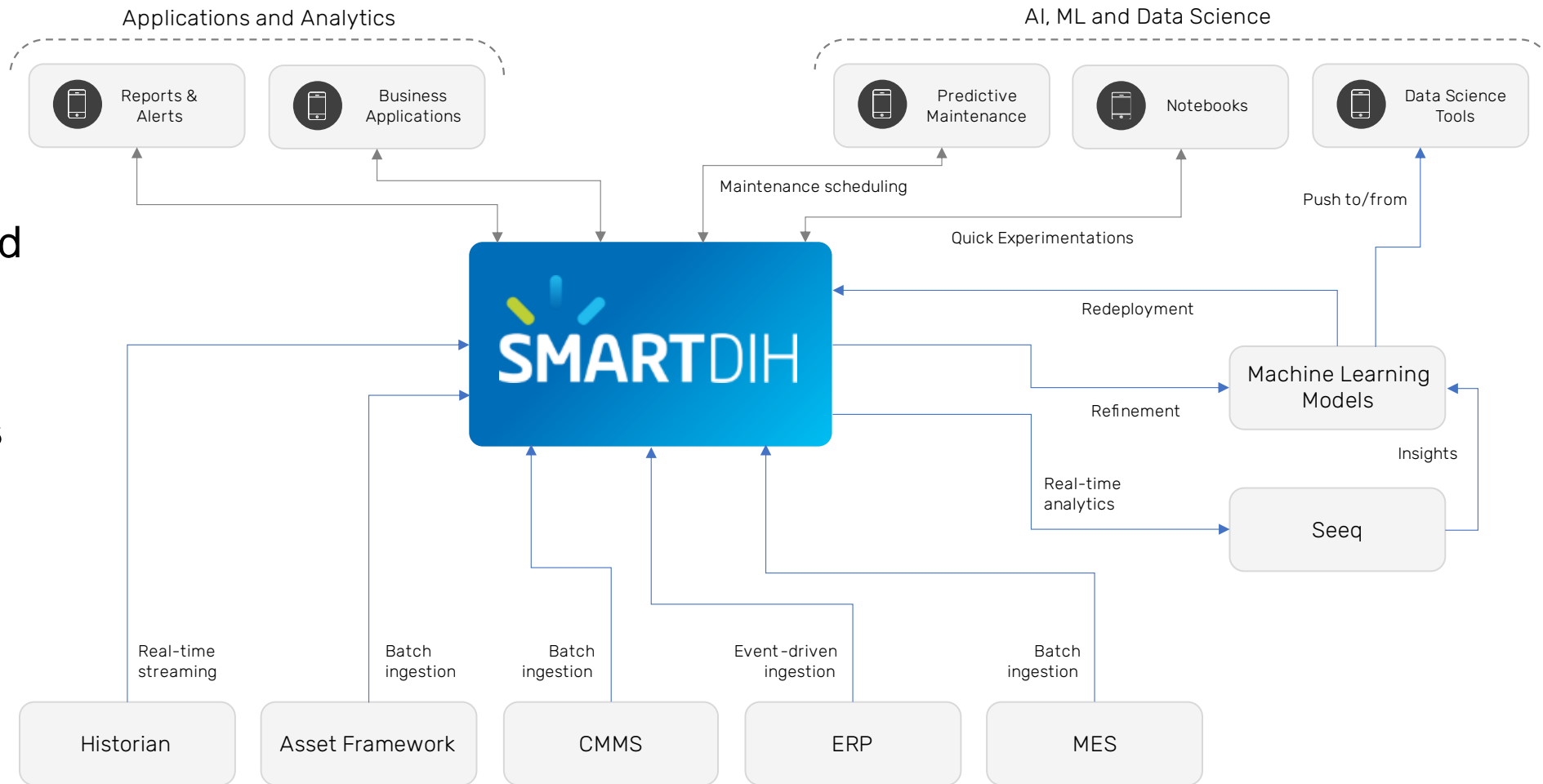
A digital thread fosters collaboration among **departments**, **teams**, and **external partners**, driving innovation through shared data insights



Why Use a Data Hub: Future Readiness

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Embrace a digital thread position for the future, as data-driven & AI-oriented approaches become increasingly critical for success



Data Hub: Data-Driven Innovation for Future-Readiness

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Seamless Data
Integration

End-to-End
Visibility

Real-Time
Connectivity

Holistic Data
Insights

Agile
Operations

Enhanced
Collaboration

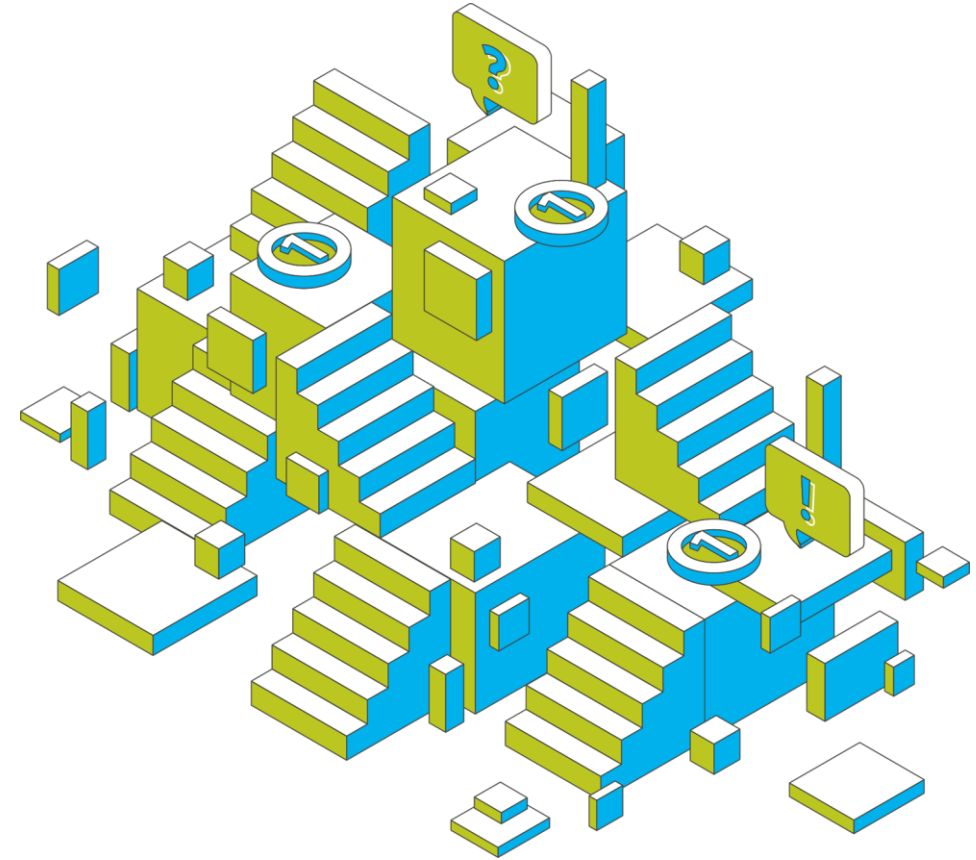
Quality Data for Smart Decisions



OK, But How Do We Start?

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- A technical review of your digital initiatives
- Evaluate infrastructure & data integration strategies
- Pilot Project
- Promote a Data-Driven culture



Thank You!

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