



Regional Seminar Series Cork, County Cork, Ireland



Enabling Business Process Integration and Manufacturing Intelligence

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Date

Empowering Business in Real Time.

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Raise your hands...



- October 7, 2010: Fota Island Golf Resort, Cork
- September 8, 2006: Sheraton Fota Island Golf Resort, Cork?
- March 13, 2003: Rochestown Park Hotel, Cork?
- All Three?

Thank you for your Business, Support and Hospitality

InformationWeek, May 24, 2010 by Doug Henschen



- This article discusses “Business” Intelligence
- Same principles and challenges apply to what we call “Manufacturing” Intelligence
- “IBM, SAS, MicroStrategy, and others can make a strong argument that most companies have diverse applications, so companies need analysis tools that are agnostic to the data source and application.”

“There are two key tests for companies:

Can they get better, timelier, and more usable intelligence from their apps and vendors?

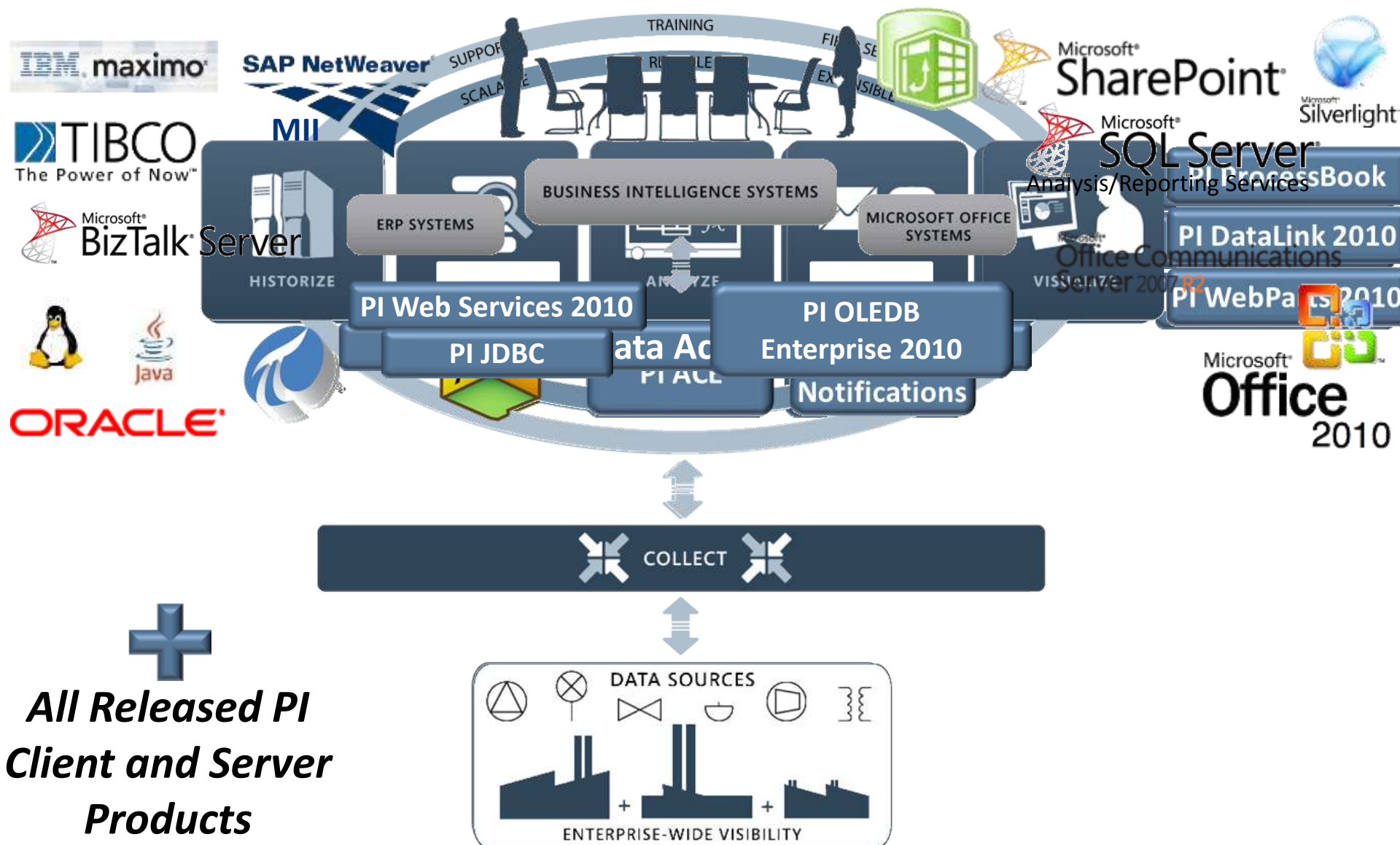
And can they drive operational decisions that are tied to their unique strategies?

They can, though only if they carefully align those insights with their business goals and not depend on cookie-cutter dashboards and analytics.”

“If application vendors succeed in delivering real-time transactional insight with reduced information management infrastructure, it would be a game changer.”

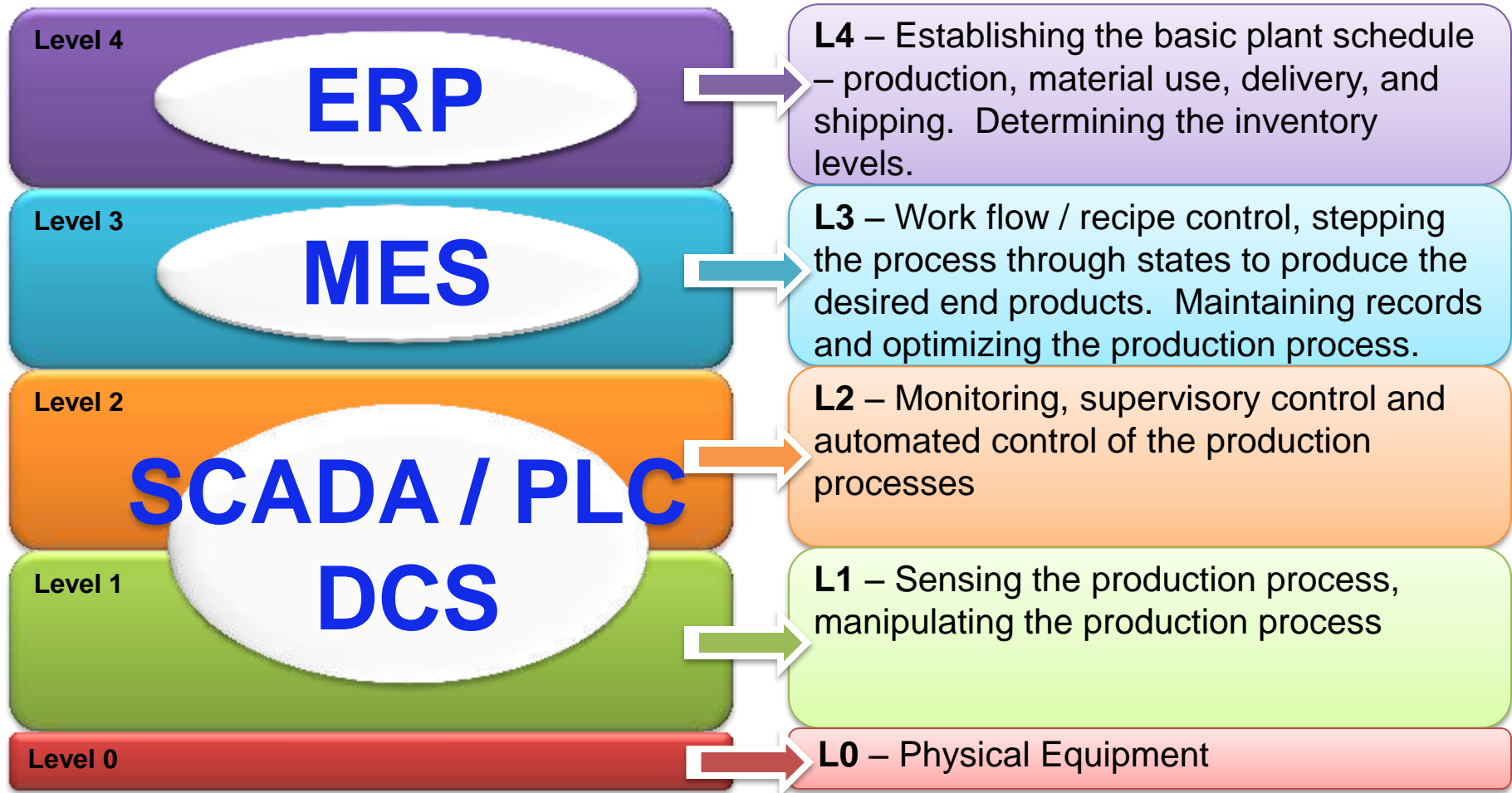
- Timely information on the entire manufacturing process is critical for maintaining control and consistency
 - In some cases “real time” information can allow in process “tuning” to maximize effectiveness
- Manufacturing needs a Real Time Data Store versus a traditional Business Warehouse
 - Does not require moving data where it doesn’t make sense
 - Can manage relational and non-relational data in the visualization environment
- Reconciliation of Data Models from many Data Sources

The Value of a Common Plant Floor Abstraction Layer



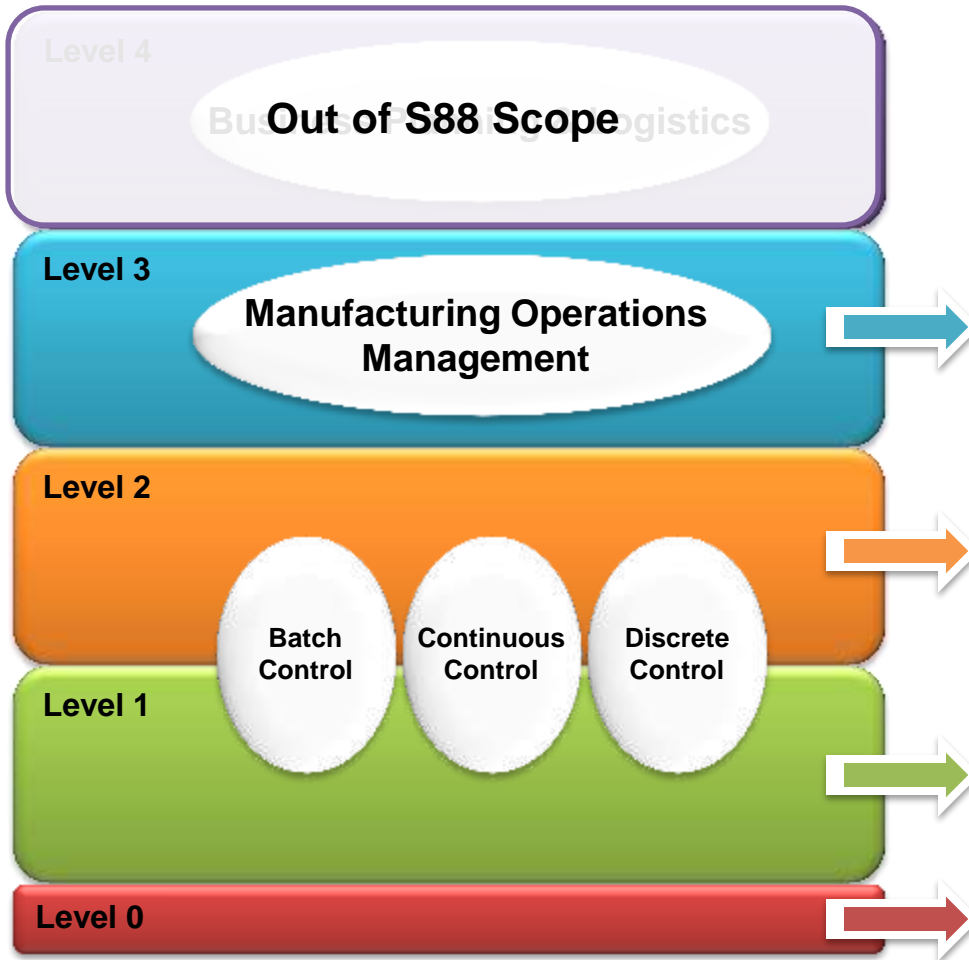
**+
All Released PI
Client and Server
Products**

S95 Model

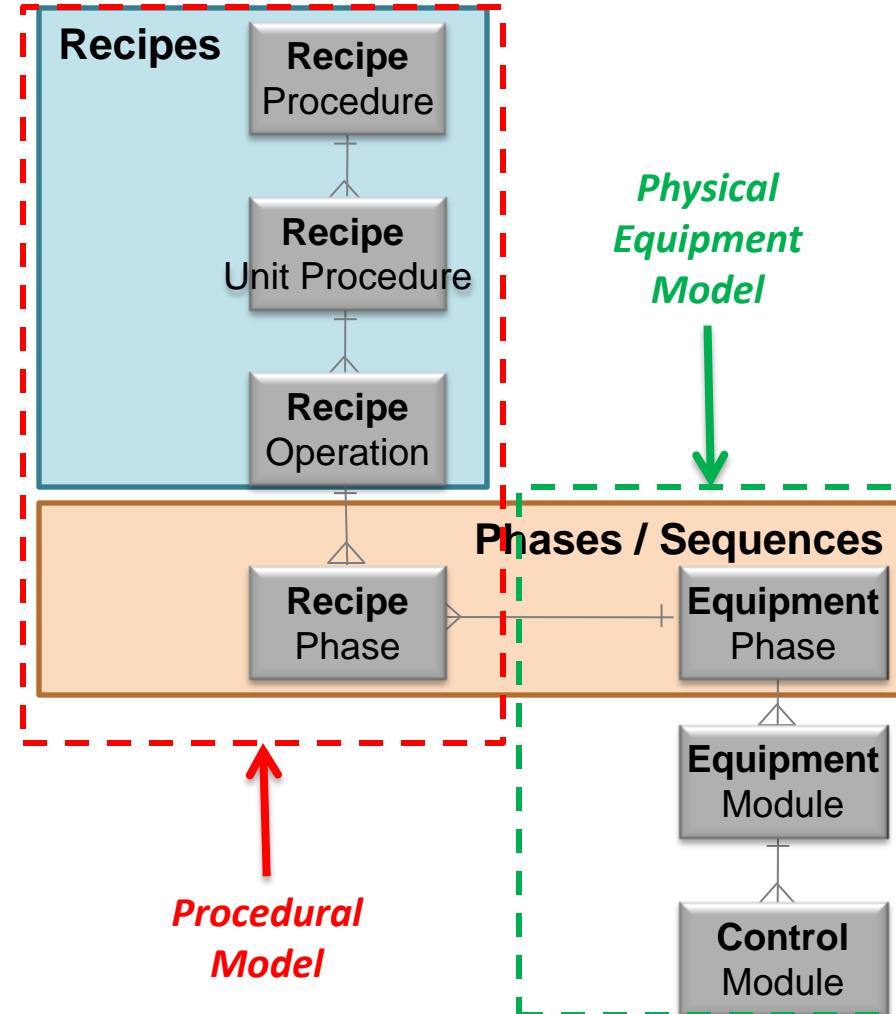


Batch Concept through S95 & S88

S95 Model



S88 Model

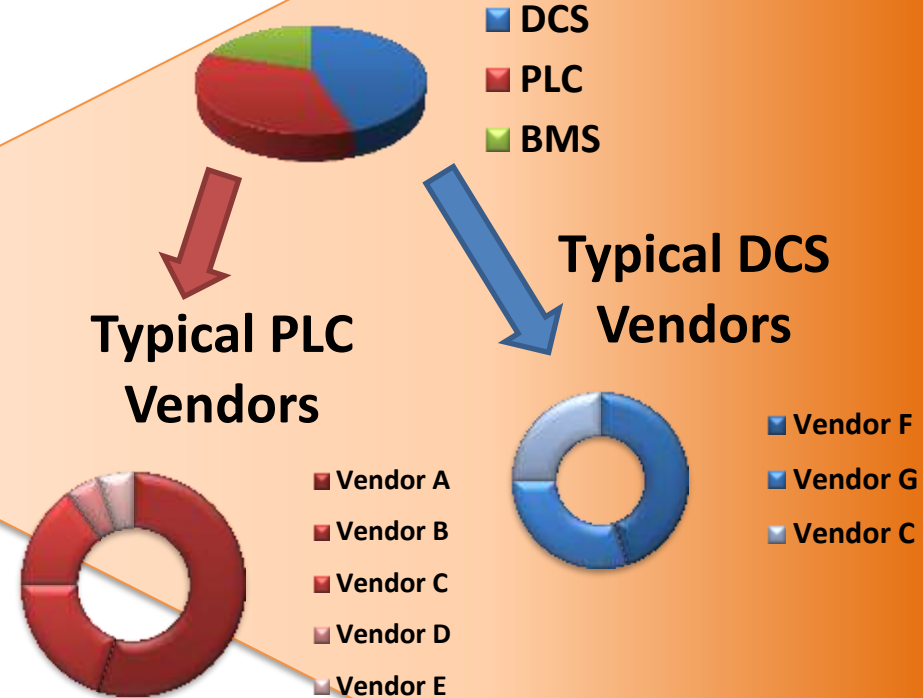


Challenges at Level 2

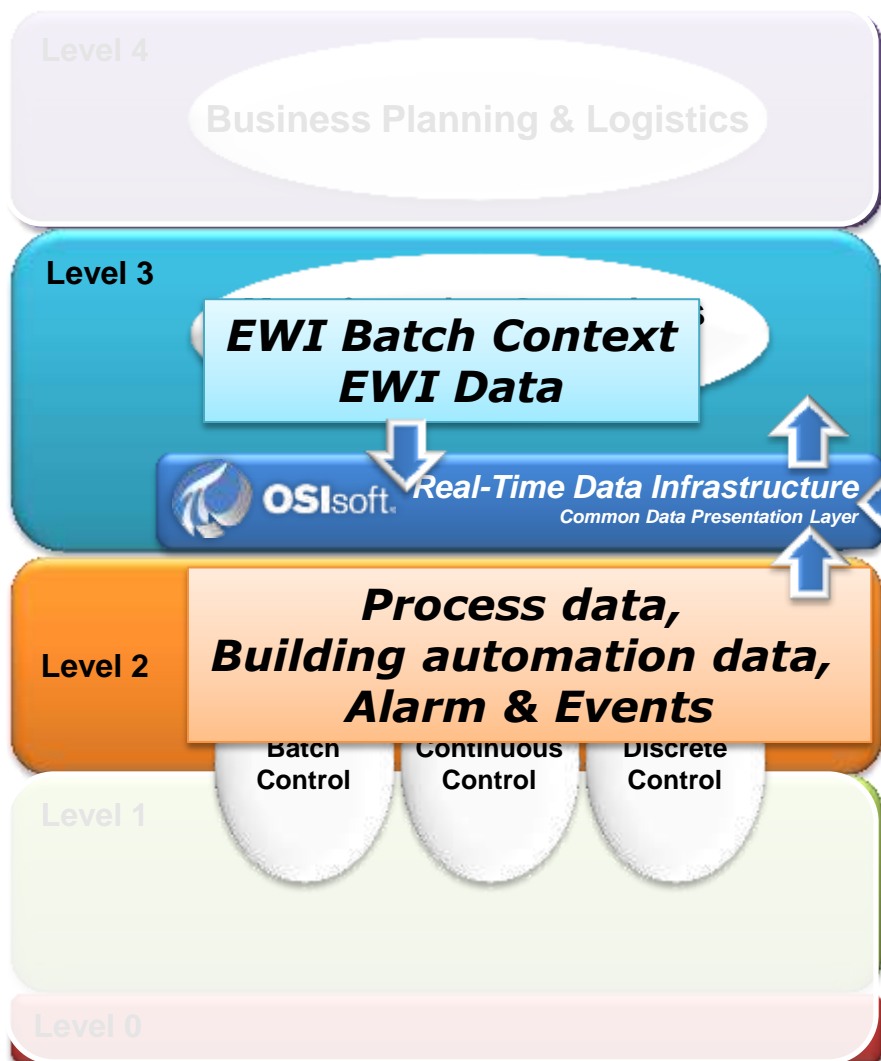


Variable PCS Landscape

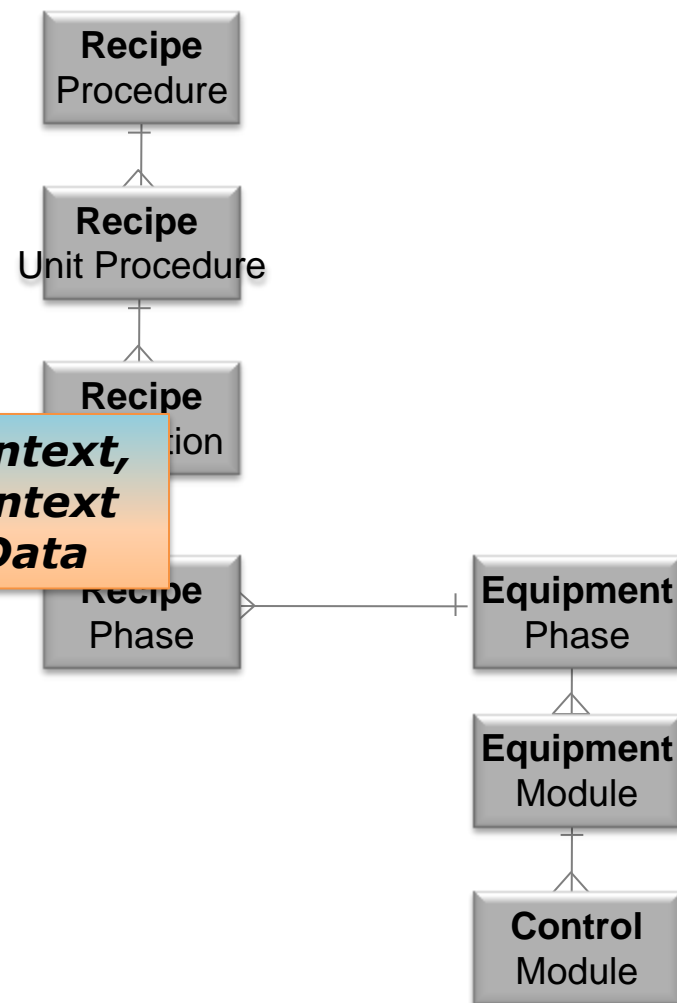
Typical Process Control System Landscape



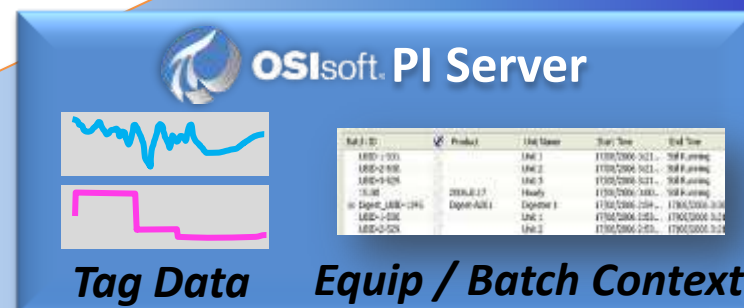
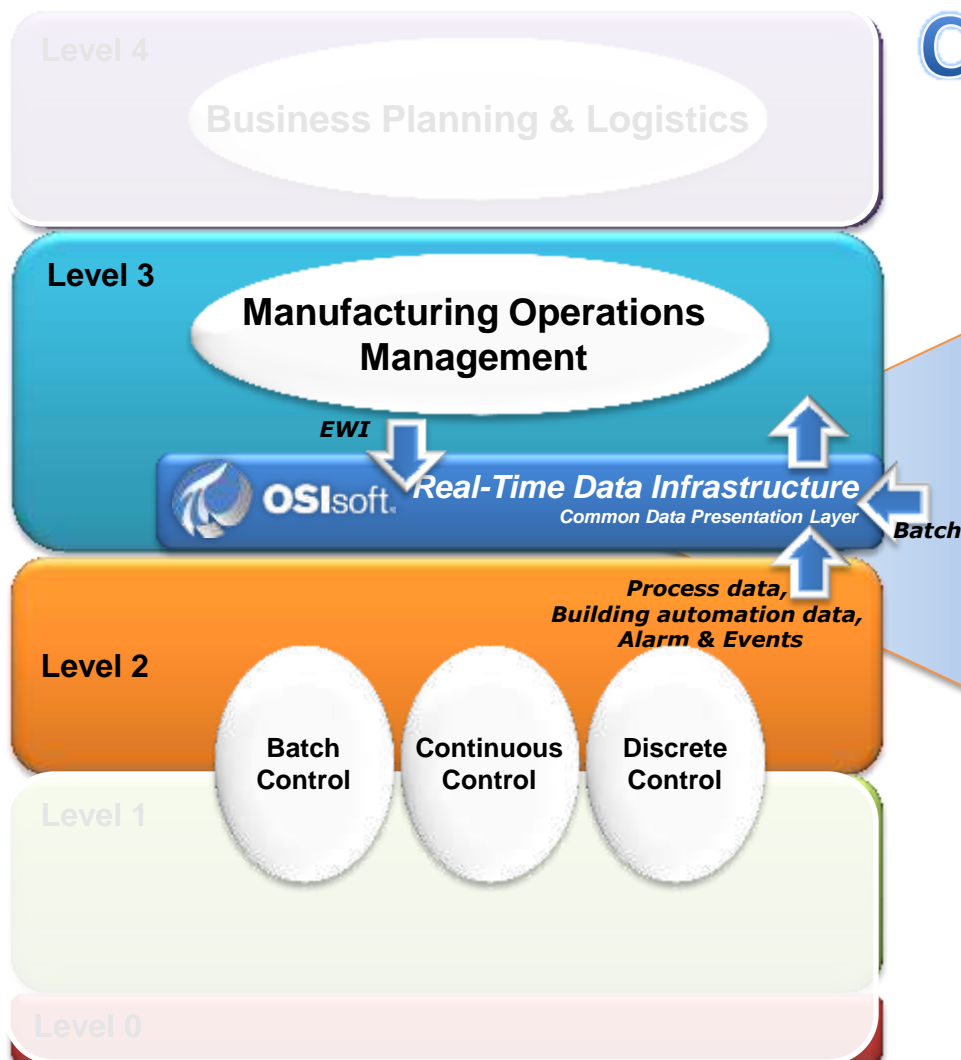
Real-Time Data Infrastructure: A Key Enabler



**Equip. Context,
Batch Context
Batch Data**



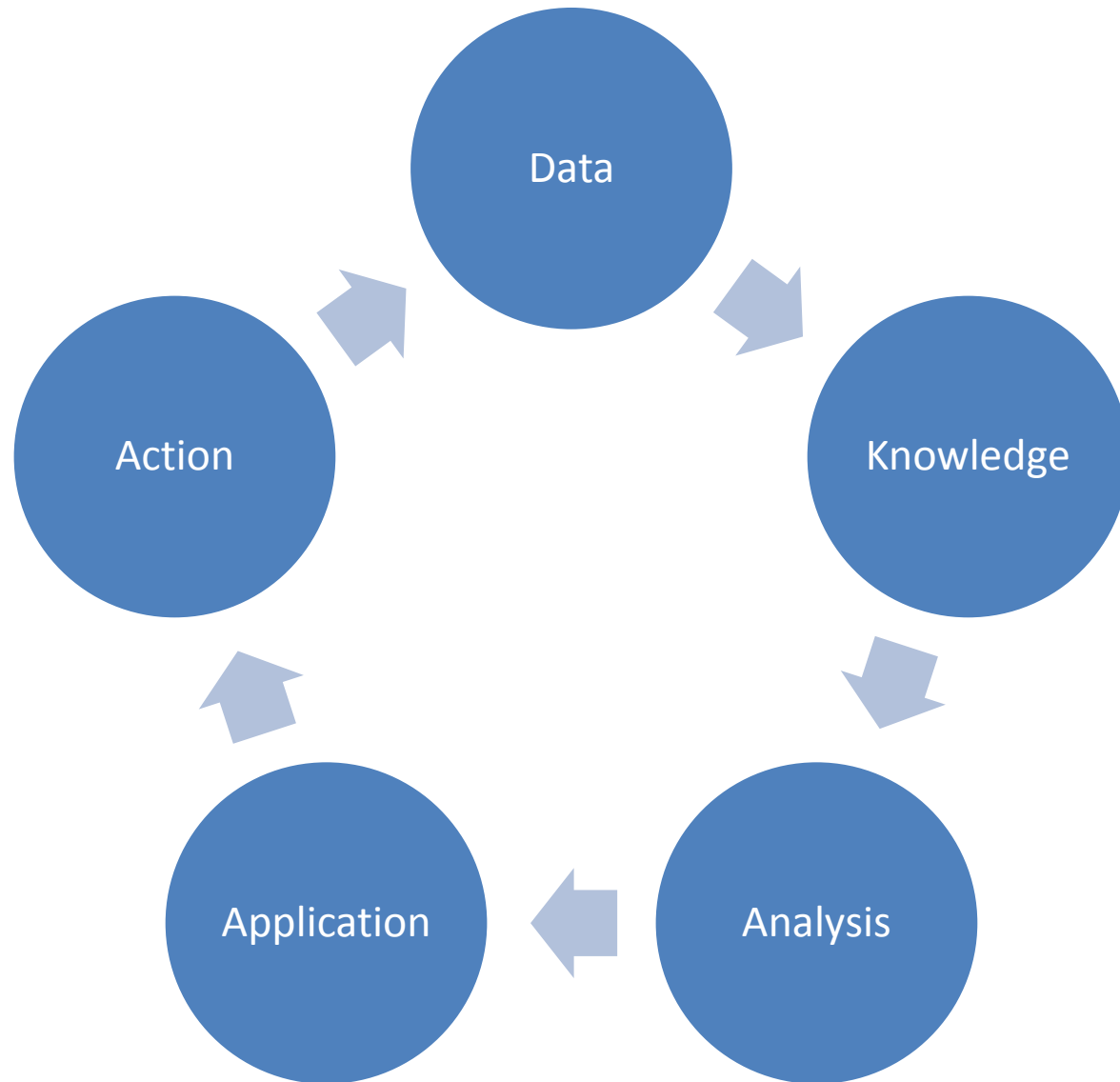
Common Infrastructure for Collecting Data



Process Control System Landscape with PI

- DCS
- PLC
- BMS
- MES

- Data to Knowledge
 - Leveraging Manufacturing Intelligence visualization with historical and real-time PI Data -> New learned process knowledge
- Knowledge to Analysis
 - Use that Knowledge -> Creates template based PI Analytics and builds into AF Template
- Analysis to Application
 - AF Template -> Update all assets of that type across the Enterprise
- Application to Action
 - PI Notification Template for the new 'KPI' -> Apply to all of same assets
- Action to Data
 - WebParts Display to Visualize the condition -> Brings us back to beginning of Manufacturing Intelligence visualization circle





Thank you

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