

Towards a Recipe Driven Organization

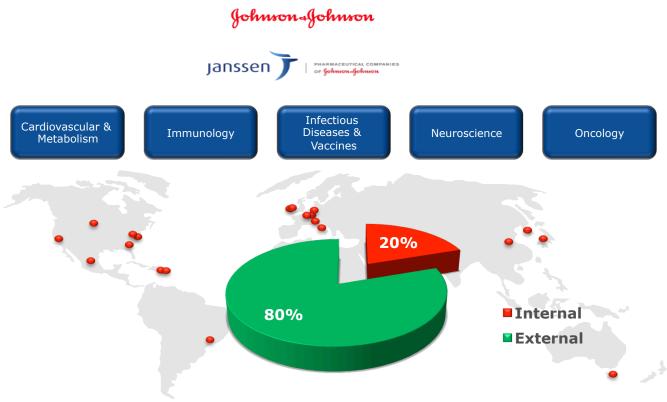
Presented by Jim Kenyon, Pharmaceutical Development and Manufacturing Sciences, Janssen Research and Development, LLC

Overview

- Introduction to Janssen and our challenges
- Defining the recipe based knowledge management strategy
- How the OSI PI system enables that strategy
- Closing remarks



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Current State

REACTIVE ANALYSIS

- More time spent on aggregation than analysis
- Lack of knowledge management strategy
- Mix of paper/electronic
- Unstructured data
- Few standards
- Little built-in context
- Efforts mainly focused internally



Lab/Clinical/Commercial





Future State

PROACTIVE ANALYSIS

- Automated data aggregation
- More time spent on analysis than aggregation
- Common knowledge management strategy
- Electronic data capture
- Structured data
- Common standards
- Internal/external focus



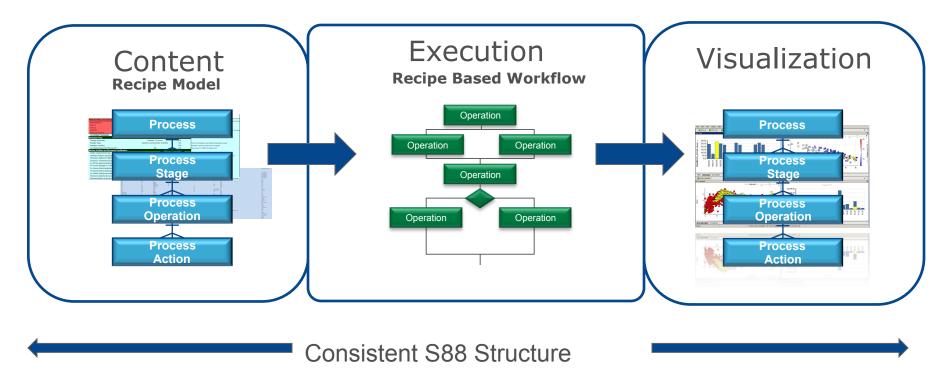
Recipe Based Knowledge Management

Lab/Clinical/Commercial



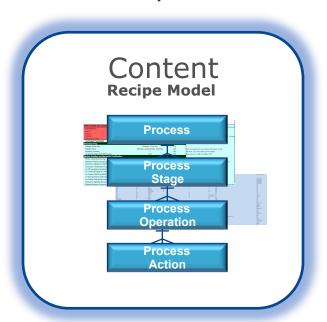


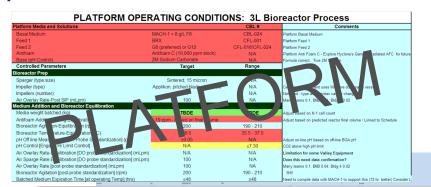
S88 Recipe Based Knowledge Management Strategy

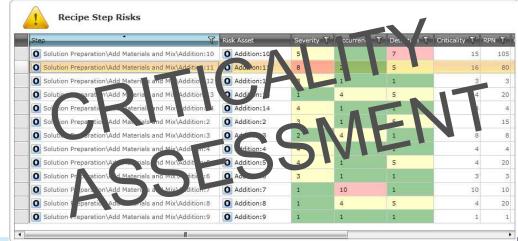




S88 Recipe KM Strategy: Content

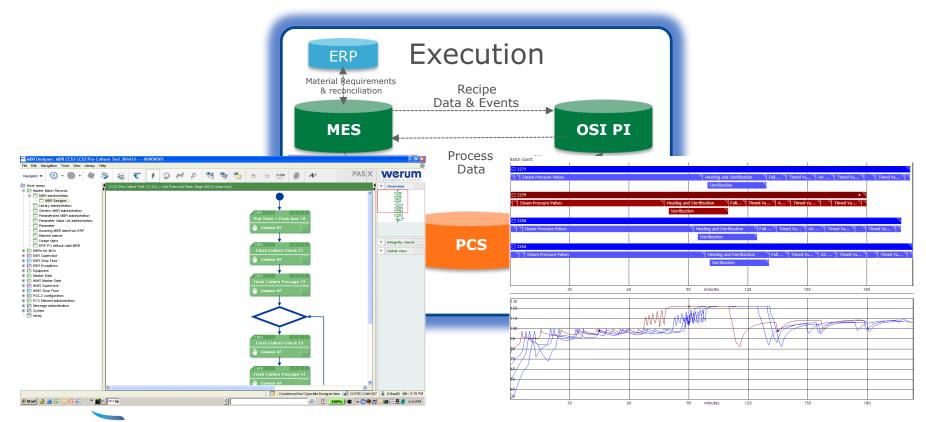






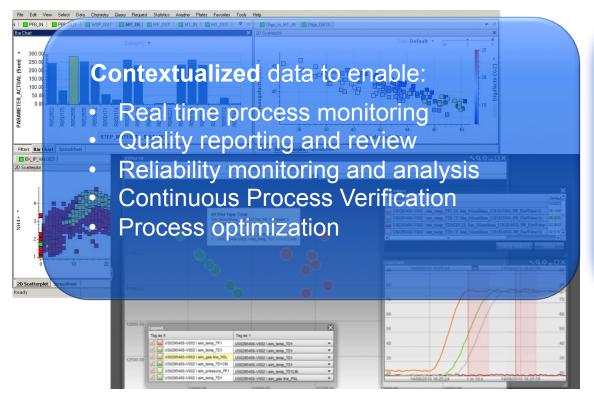


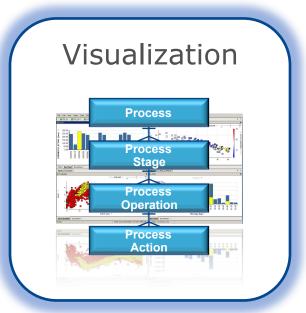
S88 Recipe KM Strategy: Execution



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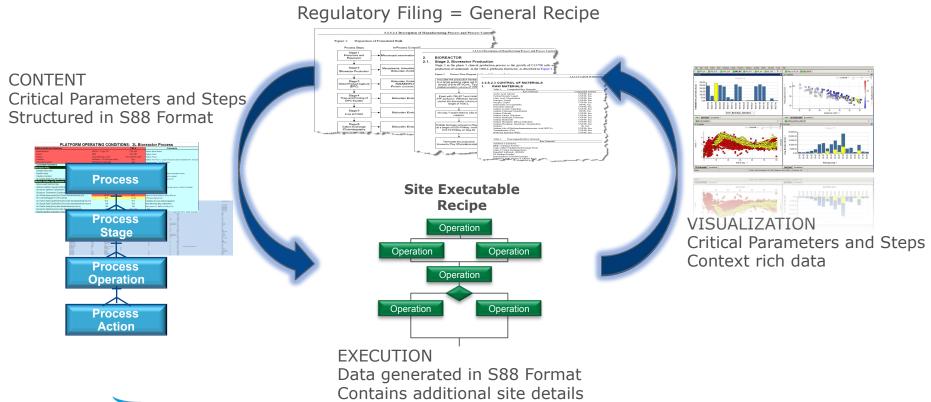
S88 Recipe KM Strategy: Visualization







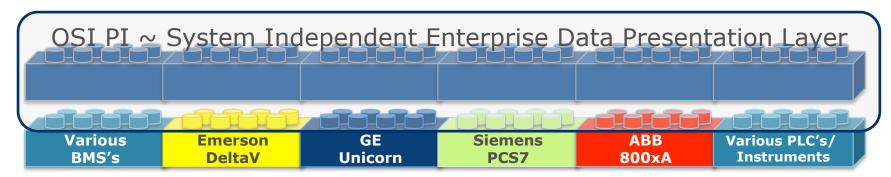
S88 Recipe KM Strategy: Link to the Regulatory Filing



Value of the OSI PI System

- Very disparate systems landscape
 - ranging from distributed process control systems with inherent historian capability to stand-alone instruments with paper printouts
- Require capability to capture and aggregate data for visualisation, reporting & analysis



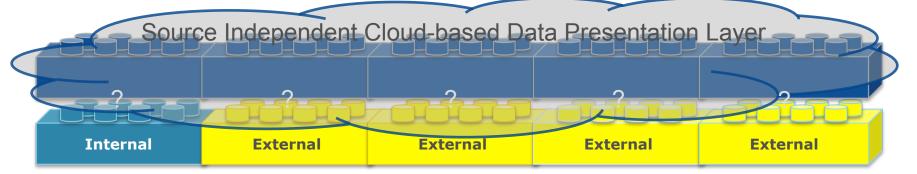




Value of the OSI PI System: Future

- Very disparate systems landscape now including MES, ELN, Manual Data Entry...
- Ability to share contextualized process data with external partners is critical
- Require capability to capture and aggregate data for visualisation, reporting & analysis



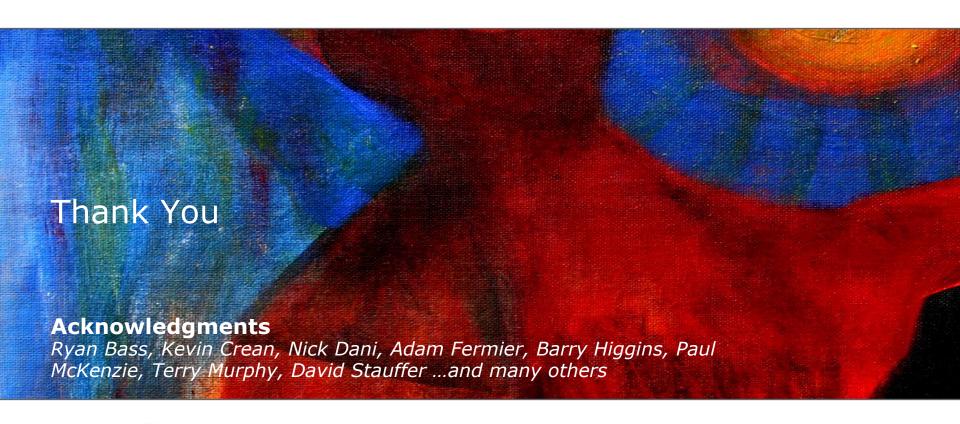




Conclusions

- Janssen is actively driving forward on S88 KM Strategy:
 - Content: Defining platform recipes
 - Execution: Aligning systems to S88 Platform definitions
 - Visualization: Building advanced analytical and modeling tools to help scientists and engineers gain advanced understanding of our processes
- A solution is required for a source independent data aggregation layer to include contextualized data from multiple enterprises.
- Collaboration with other companies would help drive this solution.







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