



Benefits of Standardized PI System

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Introduction

- Standardized Content, Execution & Visualization
- Real Examples
- Other Focus Areas
- Next Steps



What is SPIRIT?



Standardize

CPV, Process Visualization and Energy Monitoring

Janssen R&D and Manufacturing

Process and Facility Data

Alignment on Content, Execution and Visualization

- ES Standards, IT and Business Driven Collective Initiative
- Drive the Use and Standardization of the PI System
- Janssen R&D and Manufacturing
- Alignment on Content, Execution and Visualization
- Both Process and Facility Data
- Key enabler to initiatives like CPV, Process Visualization and Energy & Utility Monitoring

SPIRIT Scope

Standardize Content

- Naming Conventions
- AF Templates and Structure

Standardize **Execution**

- Interfacing
- Maintenance, Support and Governance

Standardize Visualization

- Process Visualization and CPV
- Energy and Utility Monitoring

Standardize **Deployment**

- Architecture
- Qualification

Introduction



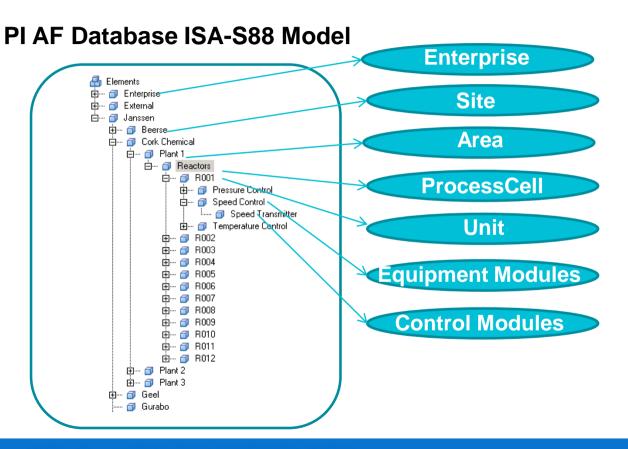
Standardized Content, Execution & Visualization

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Standardized Content - Define the Standard





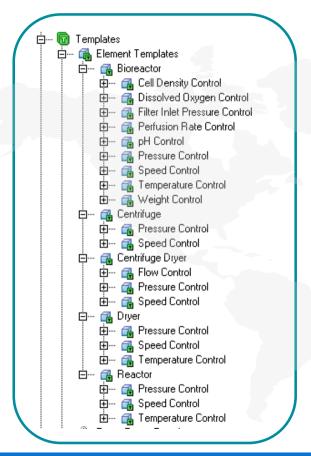
- Connect Standardizing Groups for CPV, Recipe Delivery and Execution Systems
- Connect Business and Technical Owners
- Review Platforms:
 Small Molecule, Large
 Molecule, Solids, & PDMS
- Identify Key Unit Types and Unit Process Parameters

Standardized Content – Implement Global PI AF



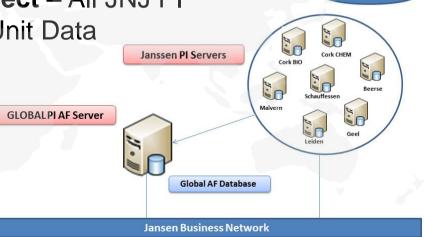


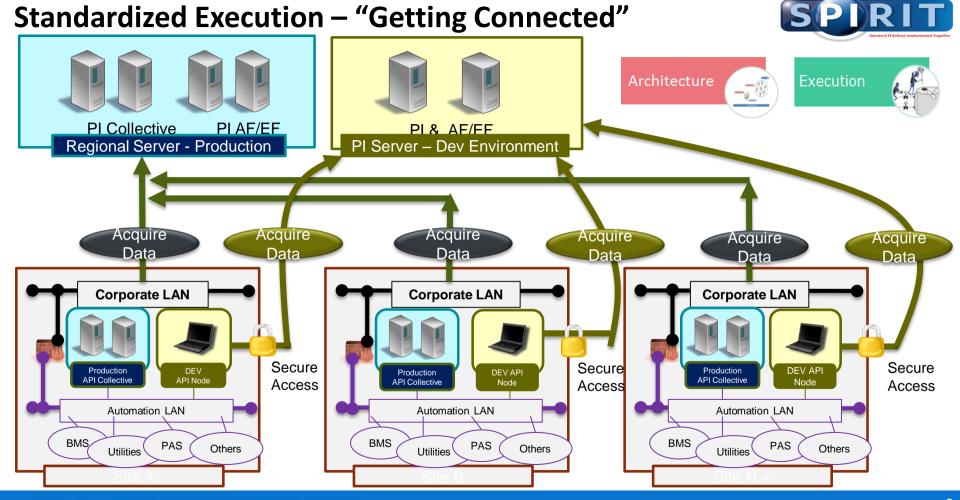
ALL PLATFORMS



- Global Server Create a
 Global Asset Framework DB
- Implement Global Unit Templates and PI AF Elements

 Interconnect – All JNJ PI Servers/ Unit Data





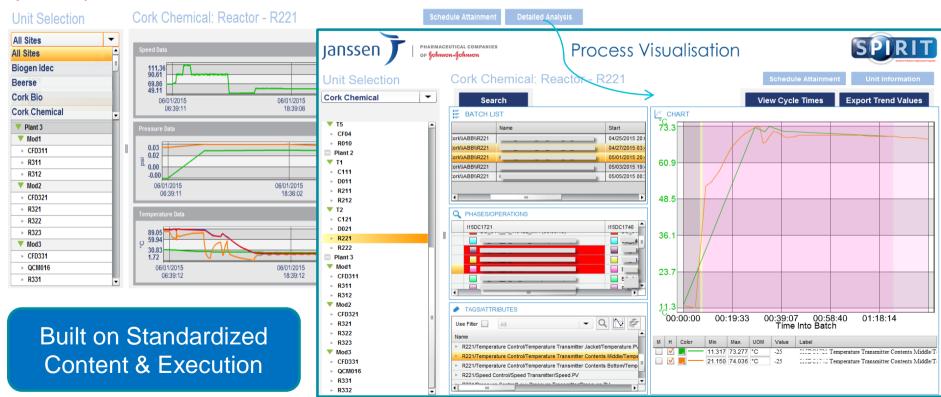
Standardized Analytics & Visualization – Process Data



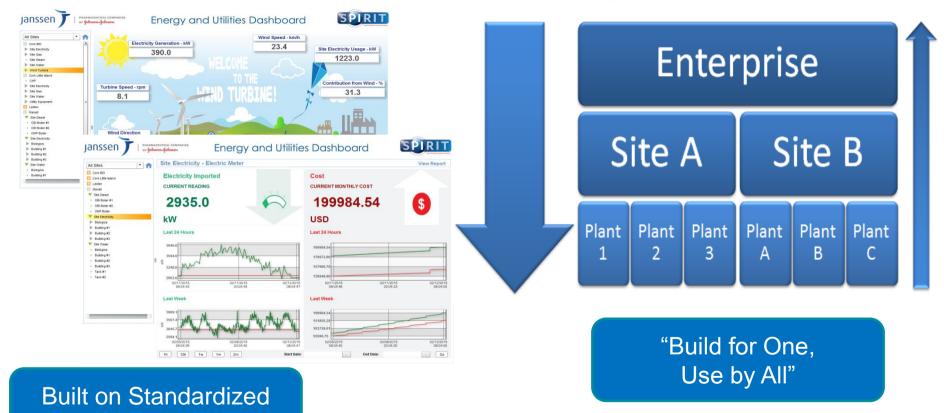


Process Visualisation





Standardized Analytics & Visualization – Energy & Utility Data



Content & Execution

Linking Content, Execution, Visualization—Key Functions/Benefits

Analytics & Visualization

- Analytics & Visualization Content Driven Templates
- Unified View Unit Class based Approach

LAB to Manufacturing

- Lab to Patient Single Vision
- Manufacturing and R&D Joint Approach

Dynamic/ Mobile Displays

- **Content Only Updates**
- **Desktop and Mobile Apps**

Deployment and Scalability

- Addition of Site Addition of Units
- **Reduced Deployment Cost and Project Cycle Time**

Location Independent

- **Globally Interconnected Infrastructure**
- **Regional & Local Instance Compatibility**

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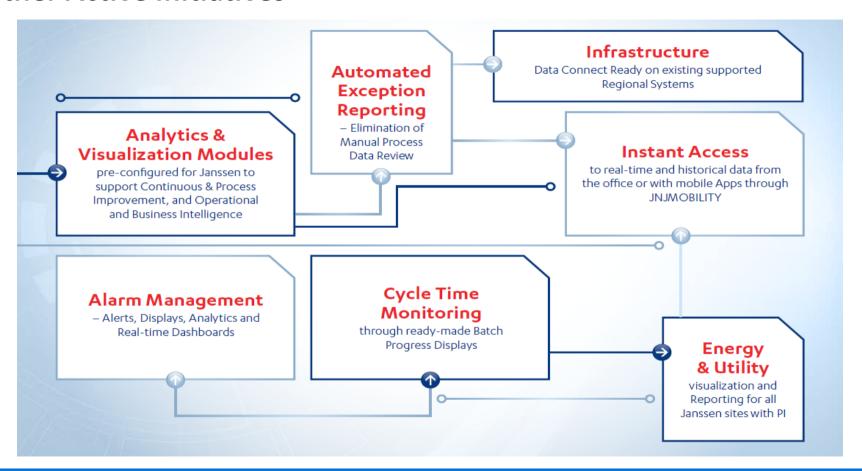
Real Examples – Unified Views & Simple Deployment



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Other Active Initiatives



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The Next Steps

Further collaboration with Technical and Business Systems Owners and establish integration of Standard PI AF and Visualization with Business Processes.

Build on success and emerging demand for standardized modules - increase roll out to sites.

Integrate fully with ES Standards Team whilst maintaining the key working structure of the SPIRIT Team. Enhance focus on measure the benefits metrics.

Connect with internal and external partners to collaborate on standardization and best practices to benefit of all.

Formalize the Standards and complete development of JNJ Playbooks & Standard Content, Execution and Visualization Templates.

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THANK YOU

