



# Benefits of a Standardized PI System

Presented by Axel Wils

Johnson Johnson



### Introduction

Standardized Content, Execution & Visualization

- Real Examples
- Other Focus Areas



#### 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



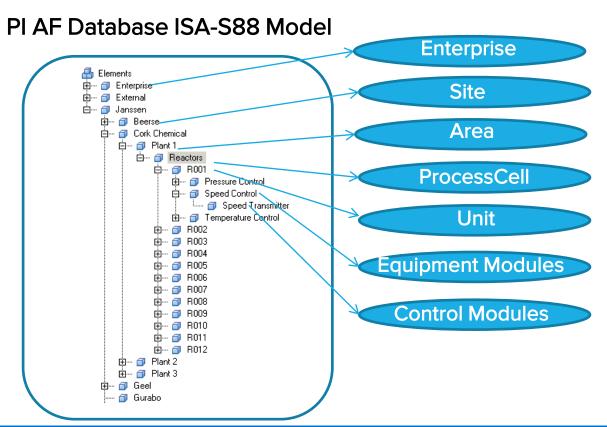
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#### Standardized Content - Define the Standard





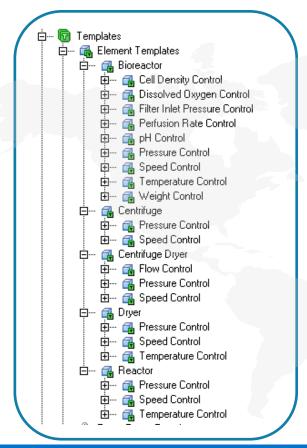
- Connect Standardizing Groups for CPV, Recipe Delivery and Execution Systems
- Connect Business and Technical Owners
- Review Platforms: Small Molecule, Large Molecule, Solids, & PDMS
- Identify Key Unit Types and Unit Process Parameters

#### Standardized Content – Implement Global PI AF

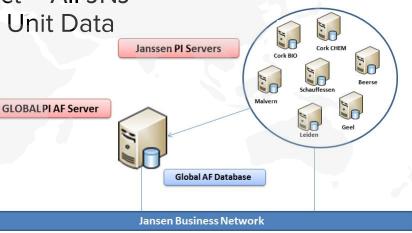


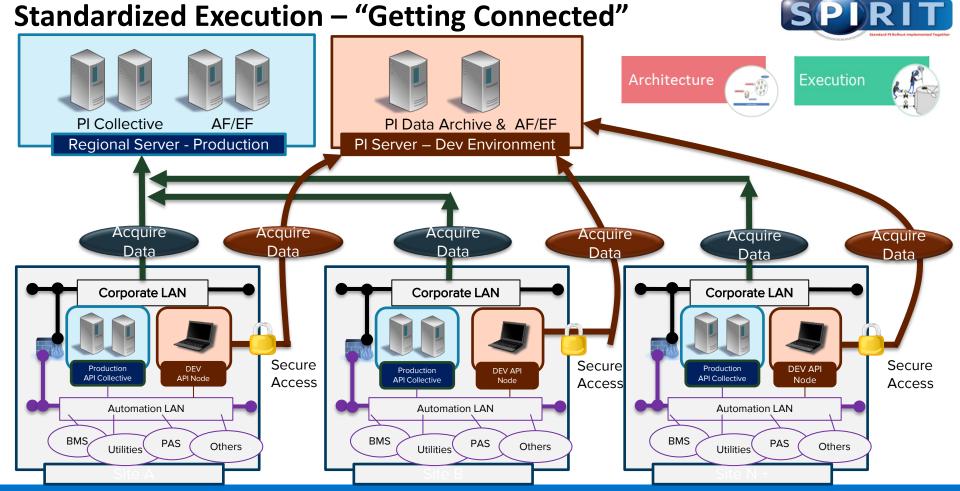


**ALL PLATFORMS** 



- Global Server Create a Global Asset Framework (AF) DB
- Implement Global Unit Templates and AF Elements
- Interconnect All JNJ PI Servers/ Unit Data





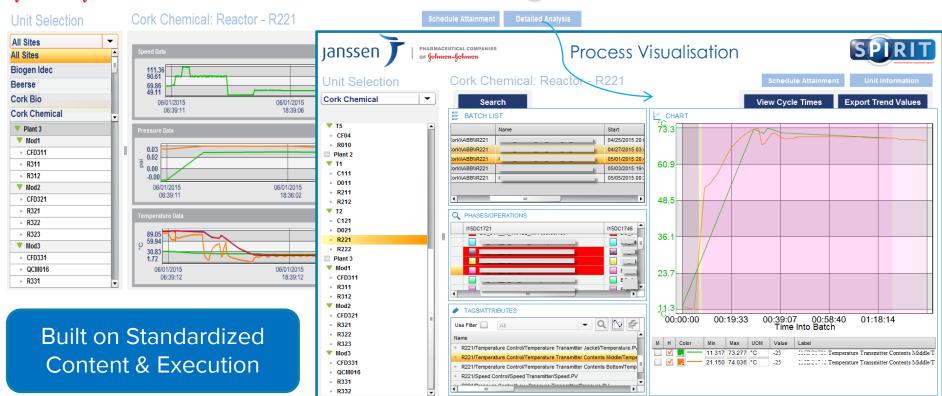
#### Standardized Analytics & Visualization – Process Data



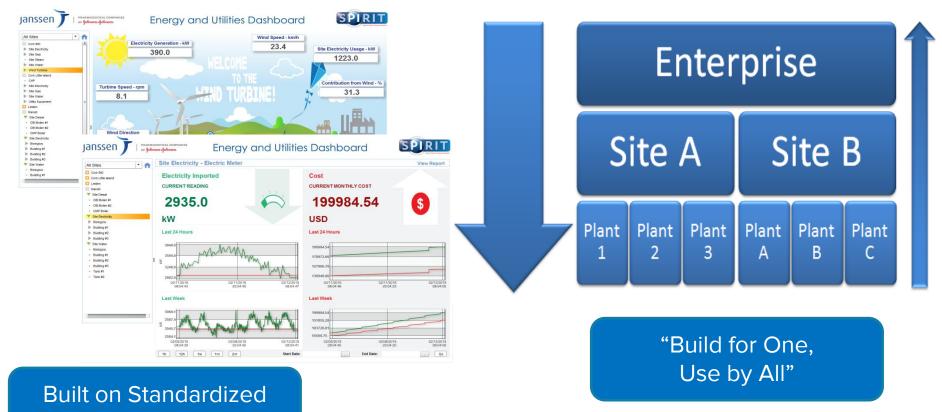


**Process Visualisation** 





### 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

Other Focus Areas



#### Real Examples – Unified Views & Simple Deployment



Visualization and Analytics Templates

View the data in a unified way – every unit – every site

Batch to Batch Parameter Comparison

**Cross Unit Batch Comparison** 

Units Added in AF Only – No Additional Visualization Development

Dynamic link to AF

Full Visualization and Analytics Capability added within minutes of connecting the data

Introduction

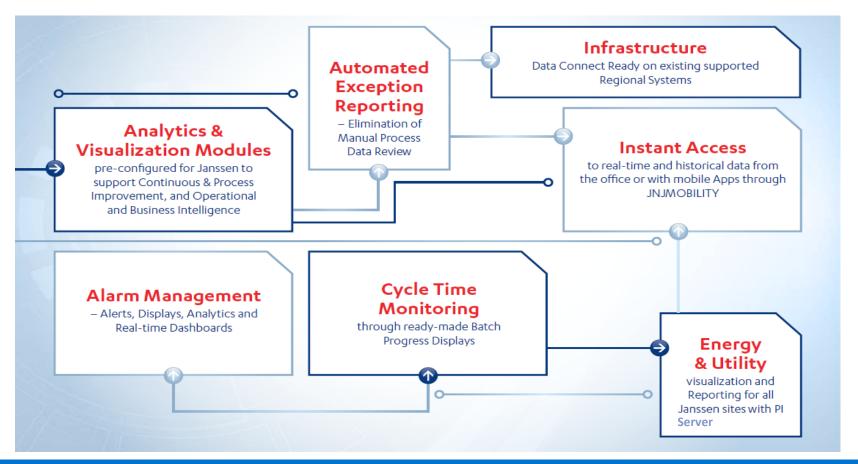
Standardized Content, Execution & Visualization

Real Examples





#### **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.



#### Contact Information

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#### Questions

Please wait for the microphone before asking your questions



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Merci

谢谢

Danke

Gracias

Thank You

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