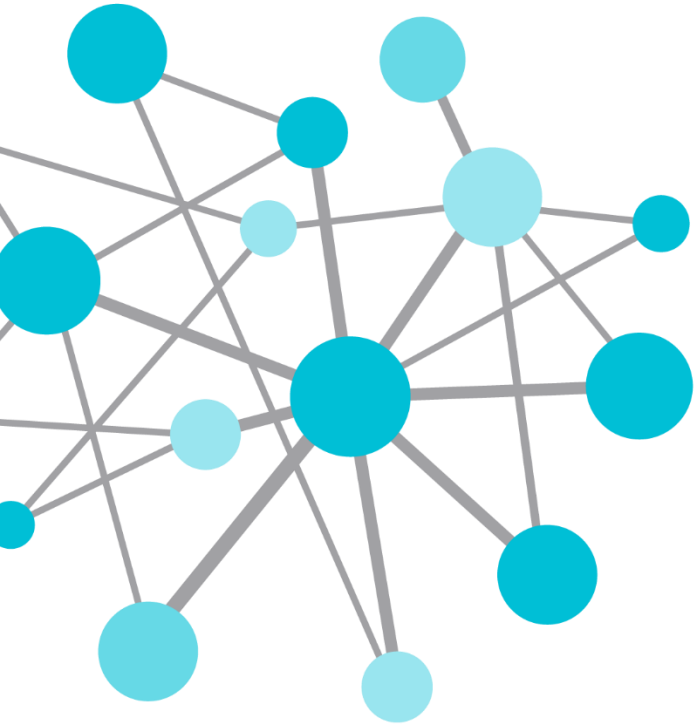
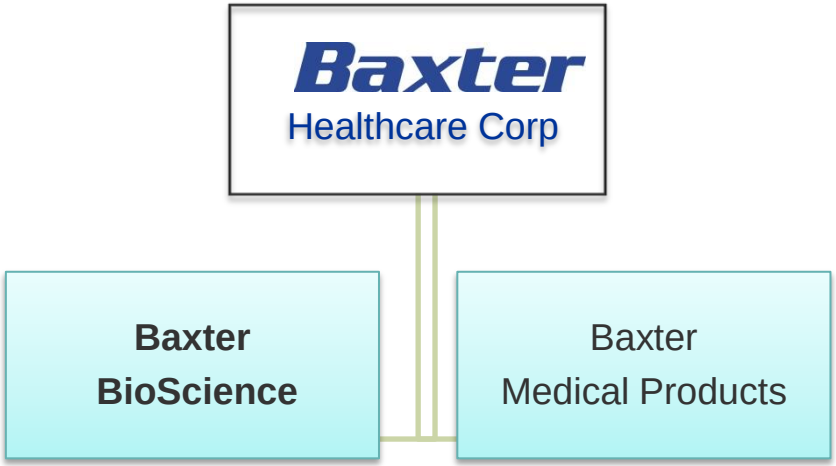


Leveraging an EA for an Integrated Platform in Life Sciences

Presented by **Axel Schnuetgen**

Baxter

Business Overview

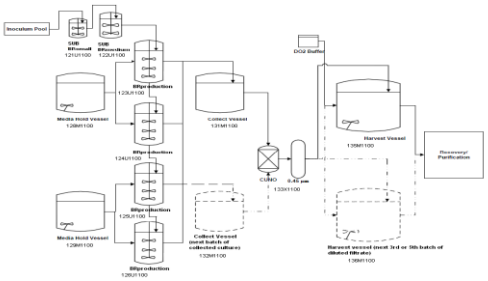


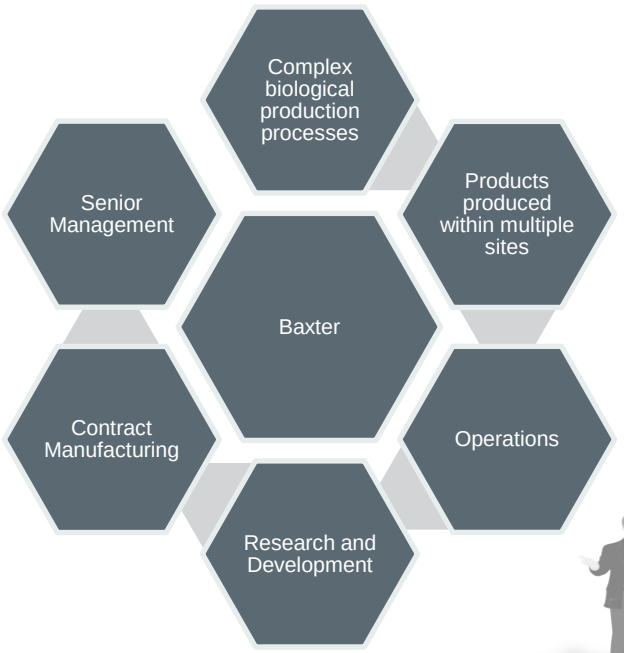
- Baxter's **BioScience business** continues a 60-year legacy of providing life-saving and life-sustaining specialty therapies. The products and therapies Baxter's BioScience organization produces are varied, but they share the common connection of improving the lives of patients with rare conditions, chronic diseases or limited treatment options.

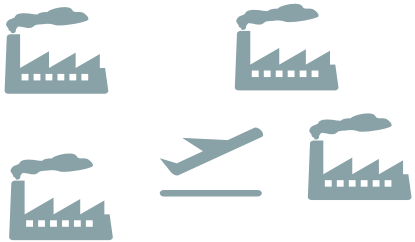
Our environment and our vision

- Complex environment
- Turning Data into Information and Knowledge close to the time of occurrence
- From a paper/ human reliant to an electronic information driven company

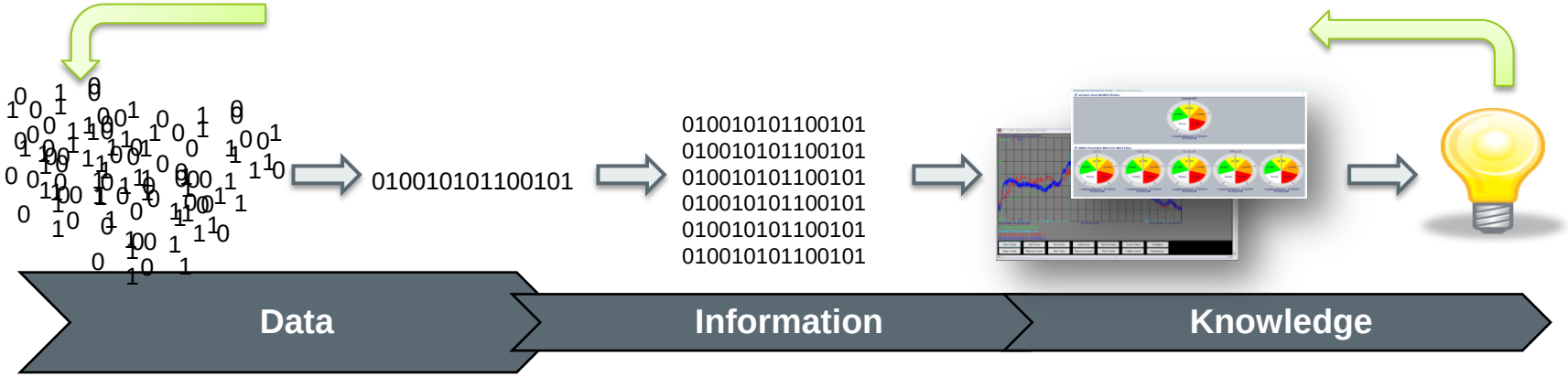
Complex Environment



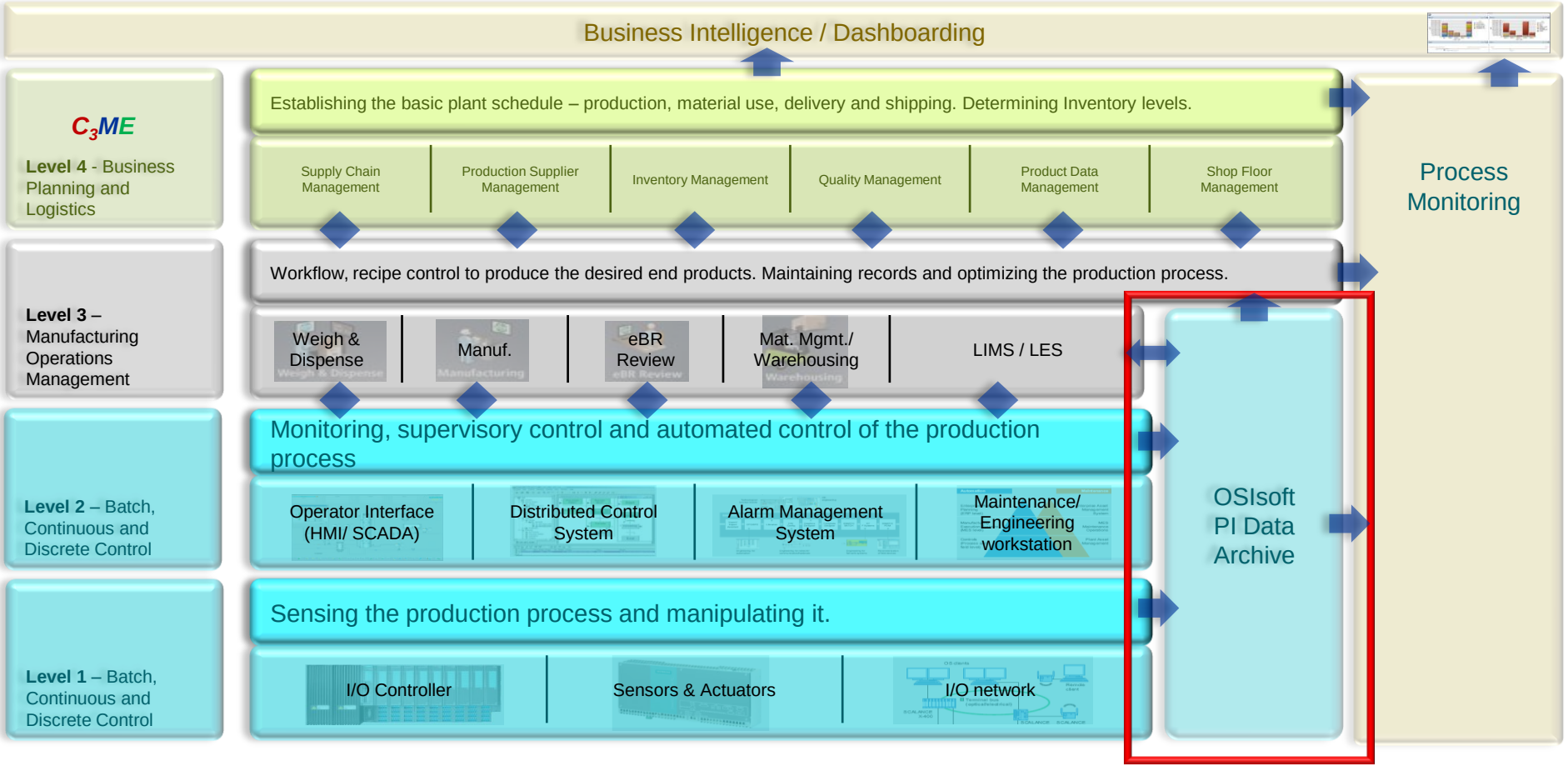




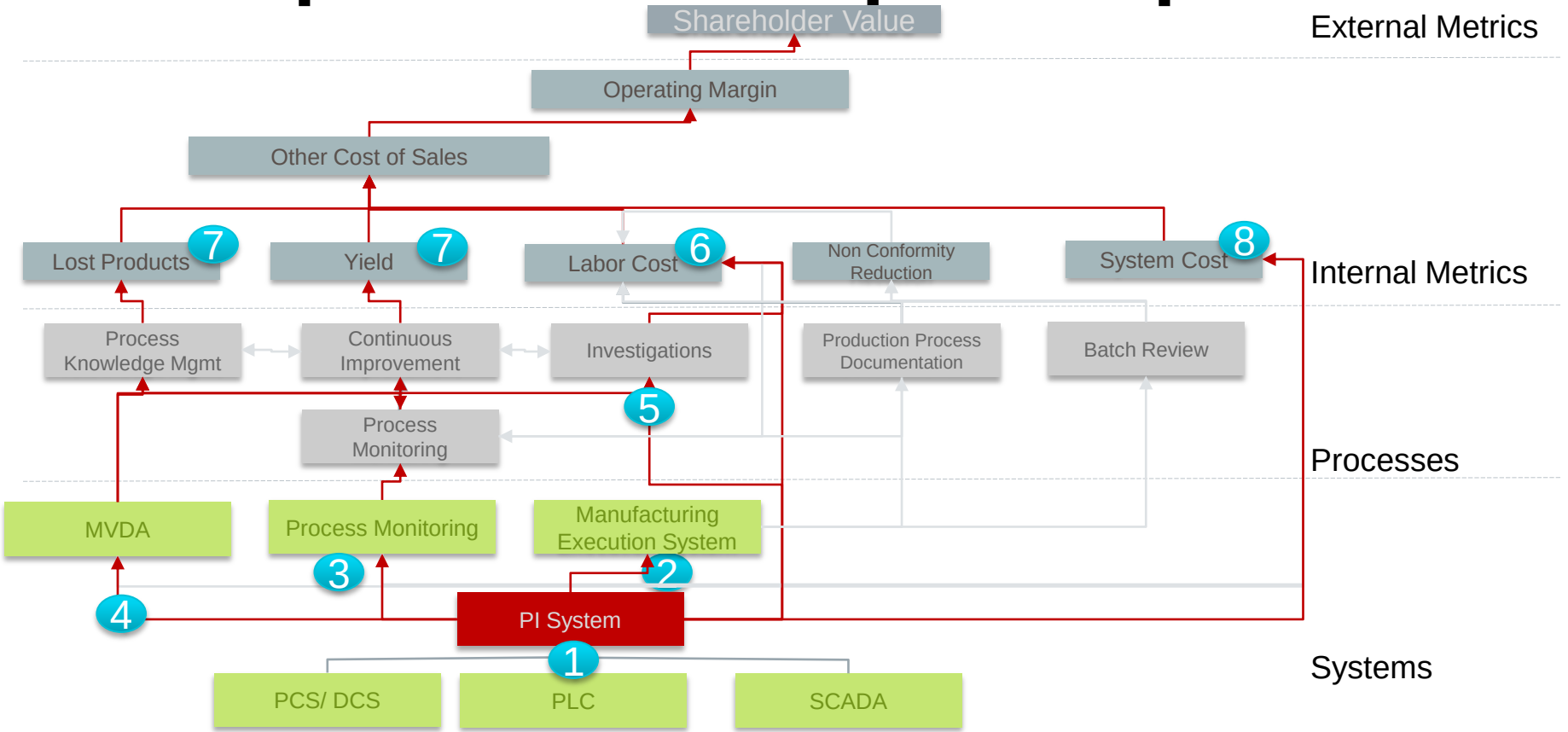
Creating knowledge with data



Content (What)	Execution (Where)	Visualization (How)
A content format is an encoded format for converting a specific type of data to displayable information. Same language for equipment, processes, phases, etc.	An aspect of effectiveness where a plan is carried out by the members and information is made available based on content.	A process where the information from execution is made available to various stakeholders based on a predefined content



Enterprise Value Map Example



Business Case

Benefits:

1. Standardizing the heterogeneous level of Process Control Systems for easier retrieval and search of relevant process data in all facilities and division (over 400+ interfaces to Process Control System, SCADA, HDMI)
2. Standard Interface to Manufacturing Execution System
3. 4. Enabling Online Process Control through real time data retrieval in PI Server as the single repository with standard interfaces to Manufacturing Intelligence and MVDA for Process Control and Monitoring as well Process Knowledge Management which impacts Process Knowledge and Continuous Improvements
5. Through increased data availability support of investigations which impacts the increase of Process Knowledge as well as the Continuous Improvements
6. Through increased data availability for investigations and continuous improvement less labor hours need to be spend on data collection
7. Through the structured way of data availability and the real time availability from the sensors Lost Products can potentially be reduced as well Yield being improved which has a direct impact on the bottom line.

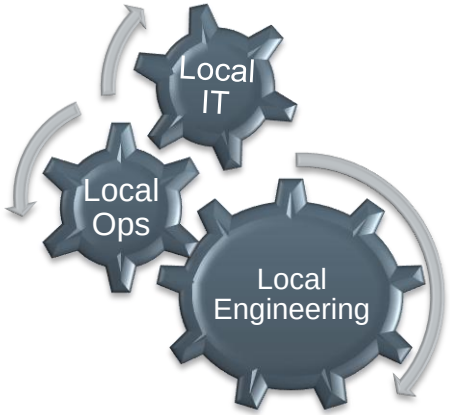
8. Cost:
   1. Re-training of local resources to gain knowledge in OSIsoft PI Server (EA agreement gives Training vouchers)
   2. Additional Services needed for the implementation of PI Server
   3. Additional Hardware needed for the implementation of PI Server

Govern the content and helping the visualization

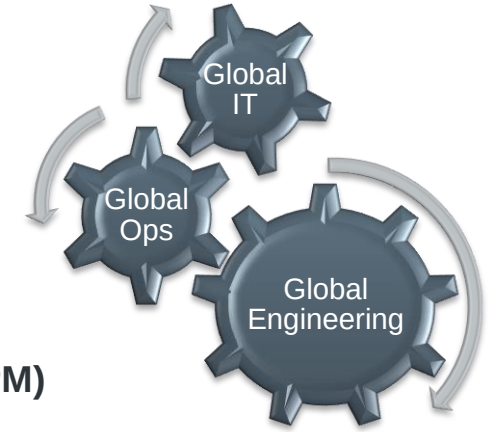
Support local organization to drive improvements in a globally structured fashion for simplification and global transparency

- Provide Naming Convention for setups and also enable global consolidation
- Provide System Reference Architecture to simplify implementations and purchasing aspects
- Provide global training to ensure appropriate skillsets for usage and implementation
- Provide standard interfaces to ensure harmonization of data retrieval
- Support validation with conform global validation packages that can be used locally
- Provide additional resources for implementations

Local Site (Plant Management)



Division



Enterprise Project Manager (EPM)
Center of Excellence
Solution Architect

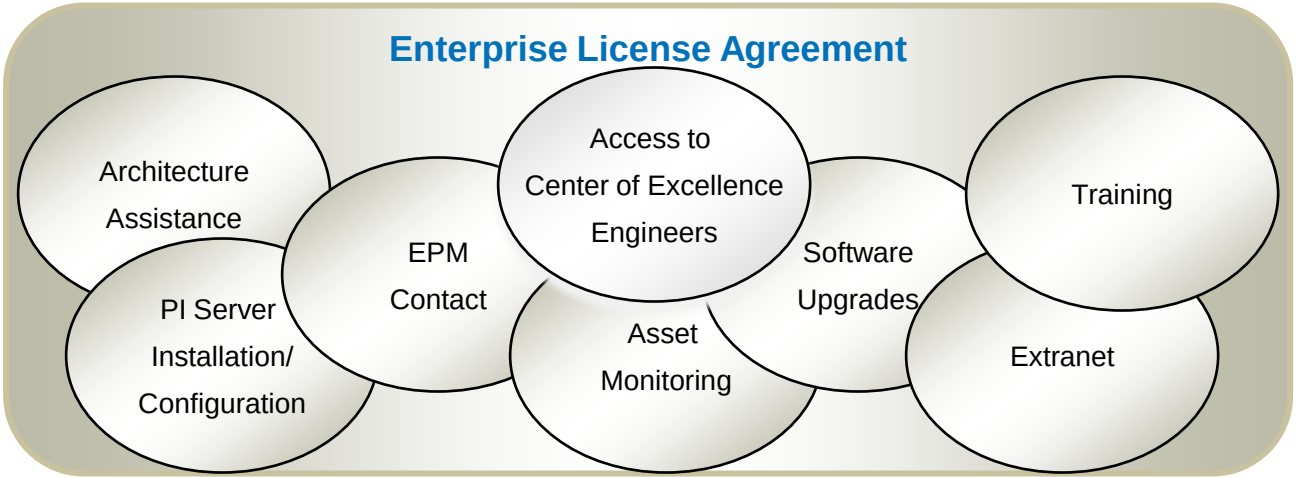
RACI Chart

Activities/ Roles	Plant Engineering	Global Engineering	Plant IT	Global IT	OSIsoft	Integration Service Provider
Governance						
Managing Enterprise Agreement	I	R	I	A/R	R	-
Coordination of Training	C	R	C	A/R	R	-
Establishing System Reference Architecture	C	R	R	A/R	R	-
Definition of naming convention and standards for Event Frames and Asset Framework	C	A/R	I	R	C	-
Global validation governance	C	R	C	A/R	C	-
Coordination with IT Shared Services	I	I	C	A/R	C	-
Establishment of global interfaces to enterprise systems (e.g. Process Monitoring System, MES)	C	C	C	A/R	R	C
Communication of standards	I	A/R	I	R	C	-
Implementation						
Managed PI Setup	C	C	R	A/R	R	-
Local Implementation Budget Owner for infrastructure	C	C	R	A	C	C
Local Infrastructure Purchase	C	I	R	A	C	I
Local Infrastructure Setup	C	I	A/R	C	C	I
Local OSIsoft Pi Server Install under EA	R	I	R	C	A/R	C
Local Configuration with Process Control System	A/R	I	R	C	C	R
Local Validation Activities	A/R	C	C	R	C	R
Support						
Managed PI Support	C	C	A/R	R	R	-
Local Support fo global developed interfaces to enterprise systems	C	I	A/R	R	C	-
1st level Support for OSIsoft Pi Server	A/R	C	R	C	C	C
1st level Support for local infrastructure	R	I	A/R	I	C	C

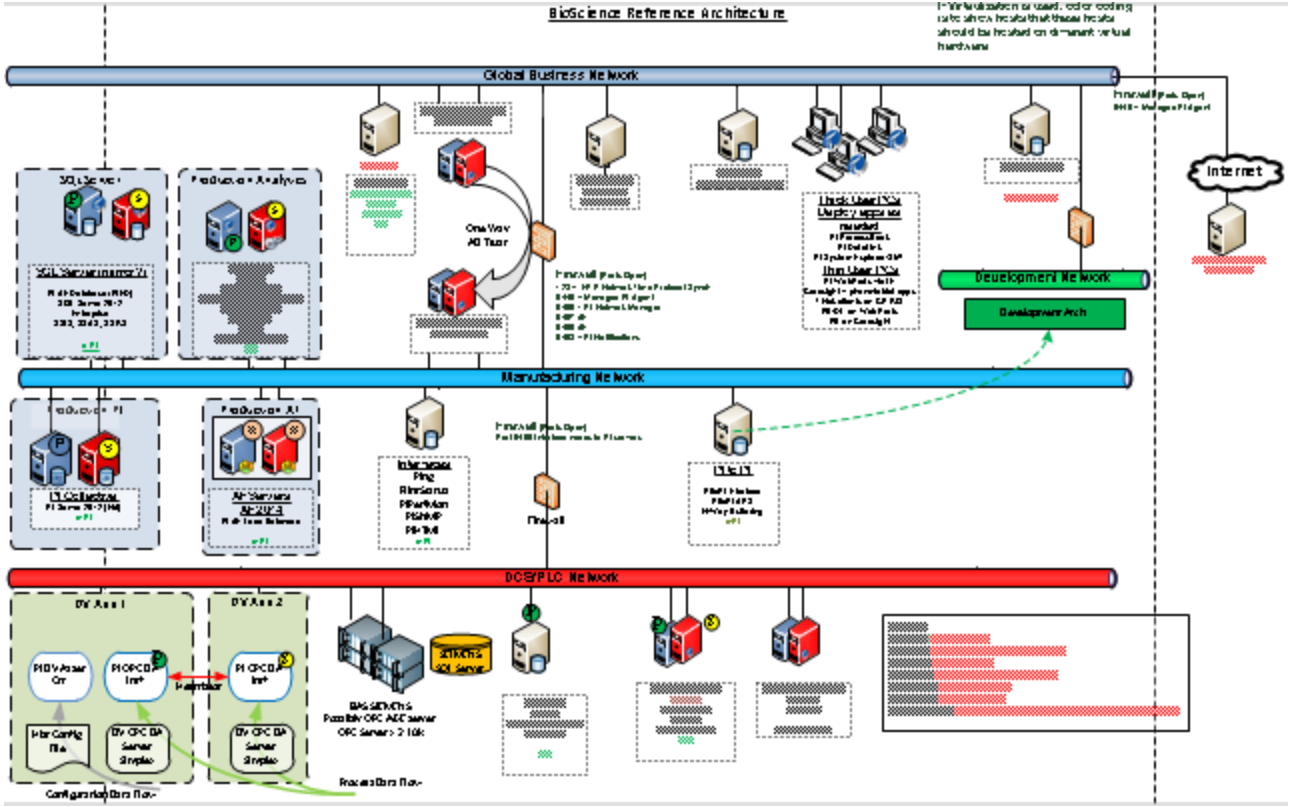
Focus Areas for the beginning of OSIsoft EA

- System Architecture recommendation with local mobilization for implementation
- Defining Governance Structure between different organizations
- Standardized Process Data Collection that is Contextualized
- Energy Management (as Proof of Concept and potential quick benefit – not GMP relevant)
- Standard Interface between PI Server and MES
- Standard interface between OSIsoft and Process Monitoring System based on Event Frames and PI Asset Framework

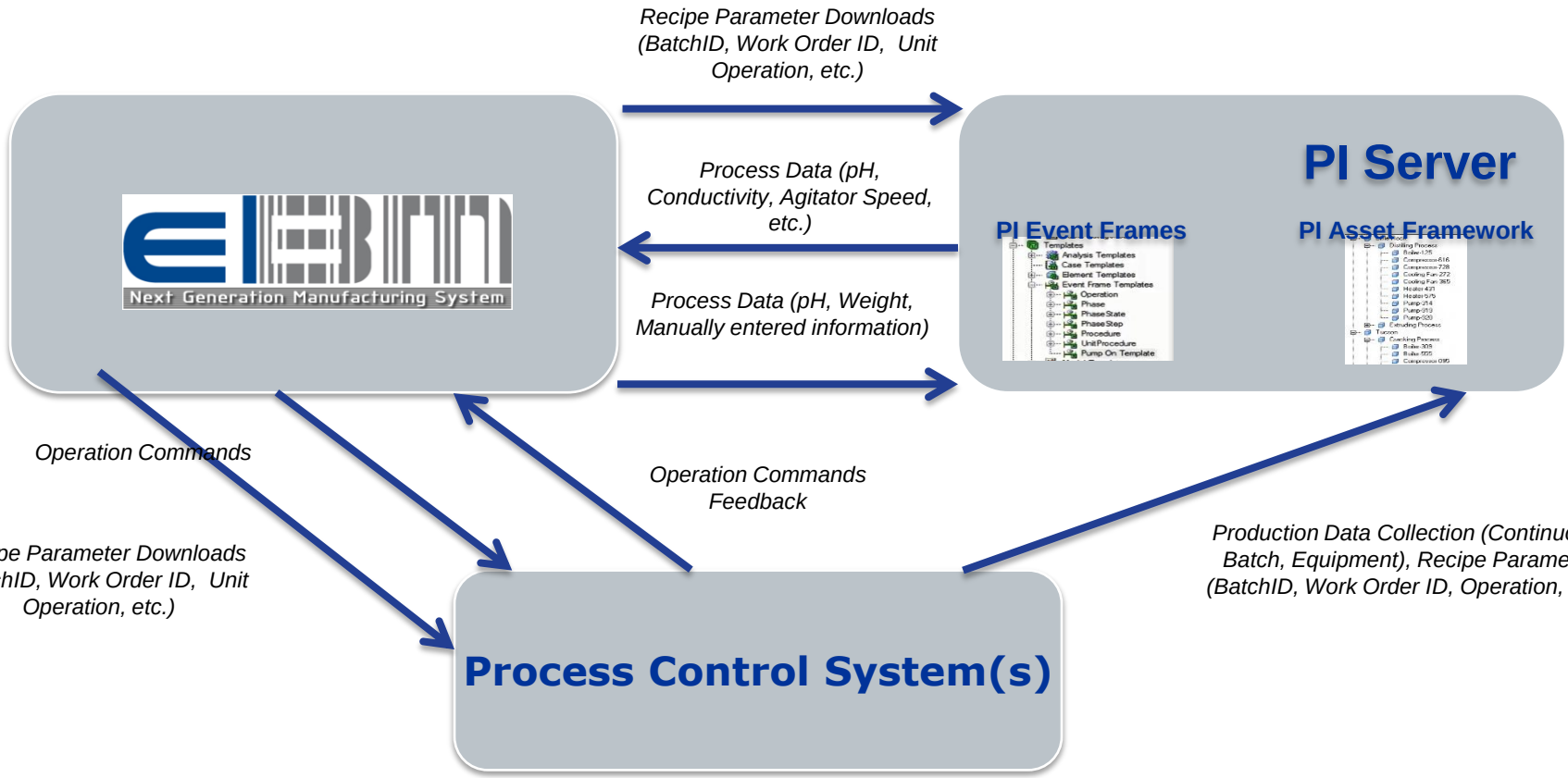
Components in use under the Enterprise Agreement



LA Reference Arch w/DMZ



Interfacing Strategy – Current/Future



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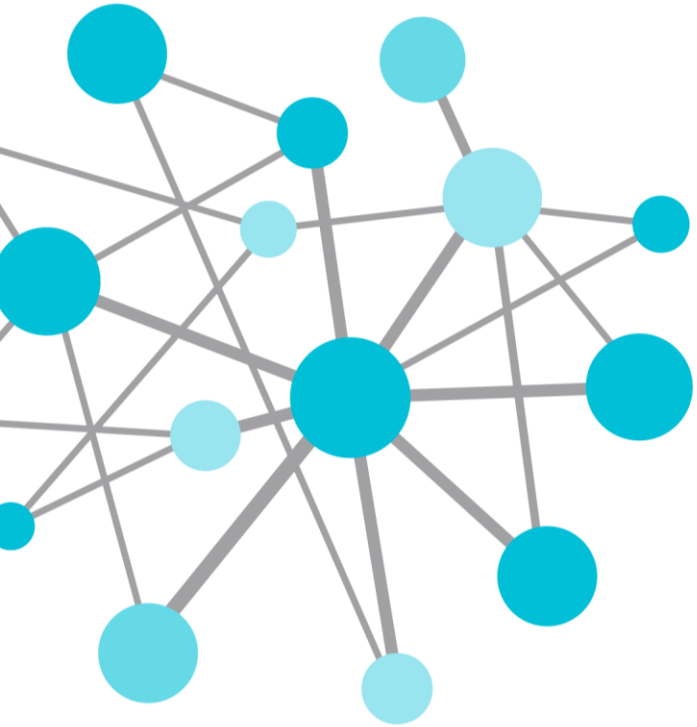
- Manager IT
- Baxter Deutschland GmbH

Questions

Please wait for the **microphone** before asking your questions

State your **name & company**



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