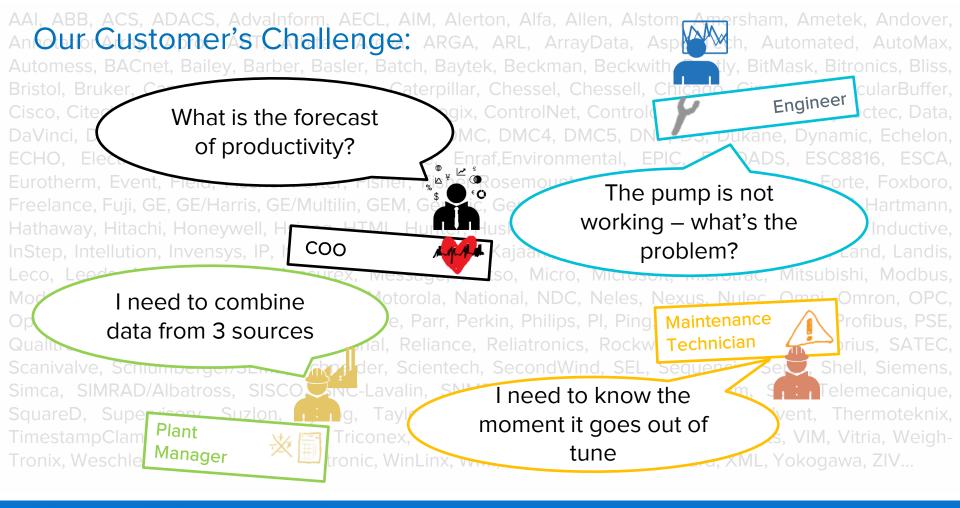


The Power of a Data Infrastructure: The PI System® explained

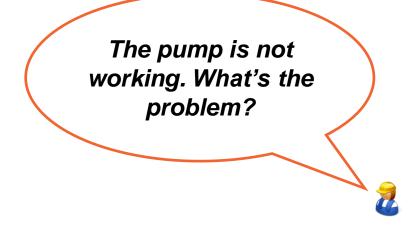
Franco Camba
Customer Support Engineer
OSIsoft Ltd UK

Why a Data Infrastructure



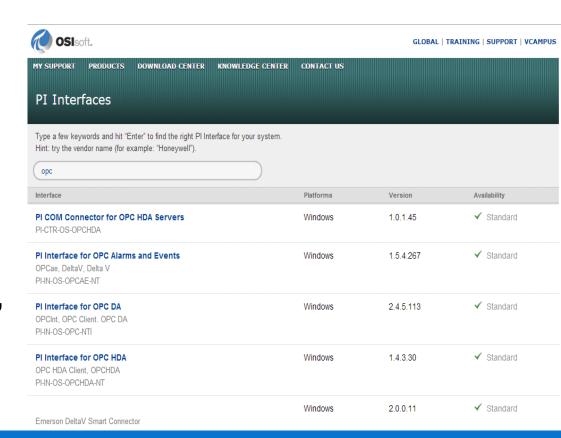


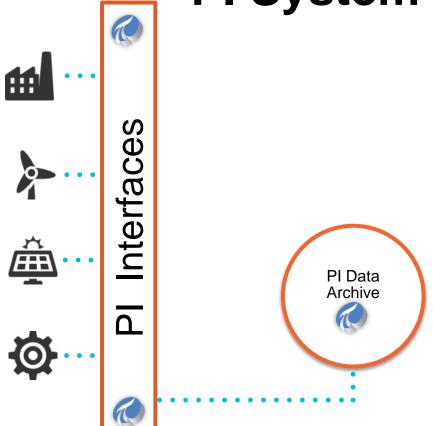


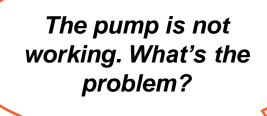


PI Interfaces

- More than 450 interfaces
- Support multiple protocols and data sources
 - OPC, Modbus, SNMP,
 Text File, ODBC
- Robust and reliable







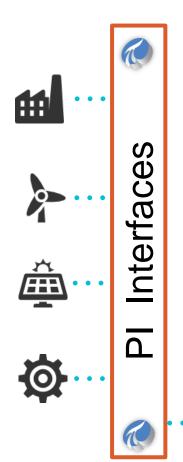


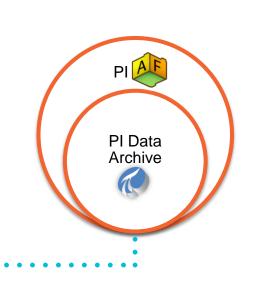
PI Data Archive

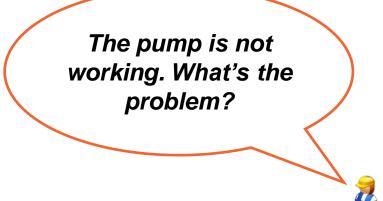
Optimized for real time data streams - TAGS

TAG	TIME	VALUE	STATUS
TIC1001.PV	23-MAY-08 11:01:02	12.3	GOOD
LIC30211.PV	23-MAY-08 11:01:03	198.4	GOOD
•••			

 Designed to archive data for millions of tags and tens of years





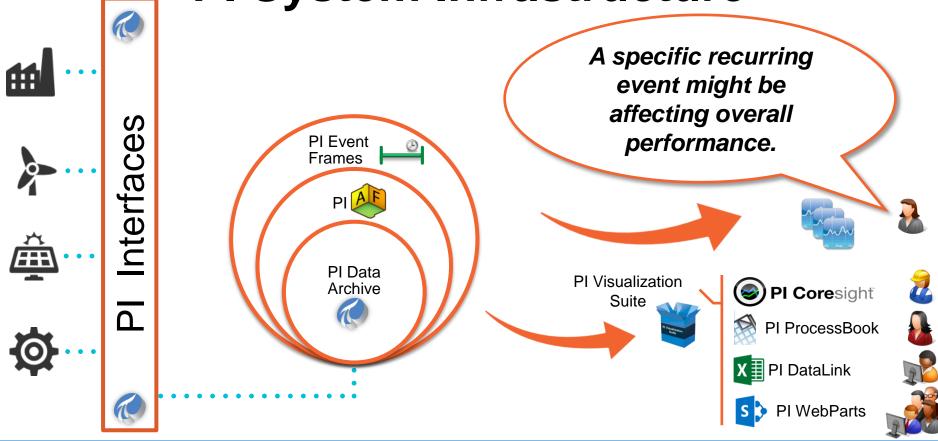


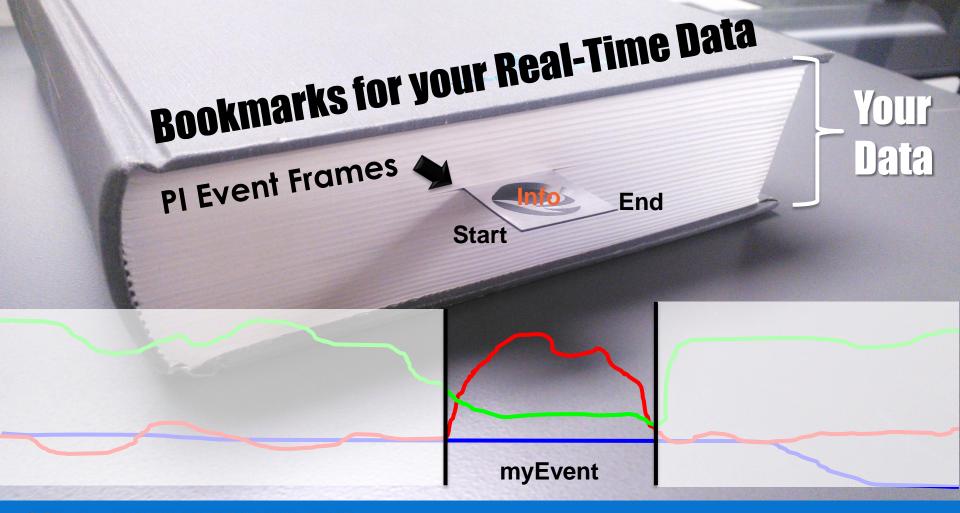
PI Asset Framework (PI AF)

- Organize your assets' data in a hierarchical, scalable, secure, and extensible database
- Model data from different PI Servers
- Relate non time-series data sources
- Integrate with tools analyses and notifications tools

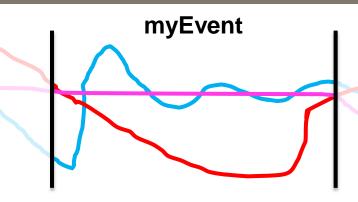






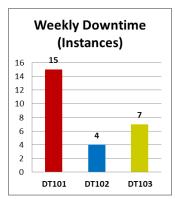


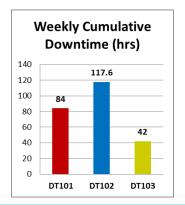
Simplify Data Analysis



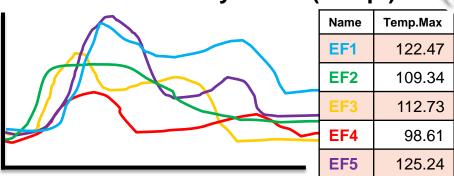
Perform Asset Comparisons





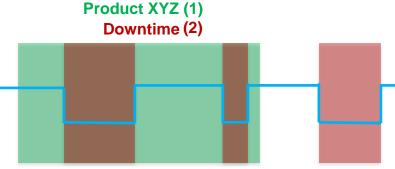


Event Overlay Trend (Temp.)

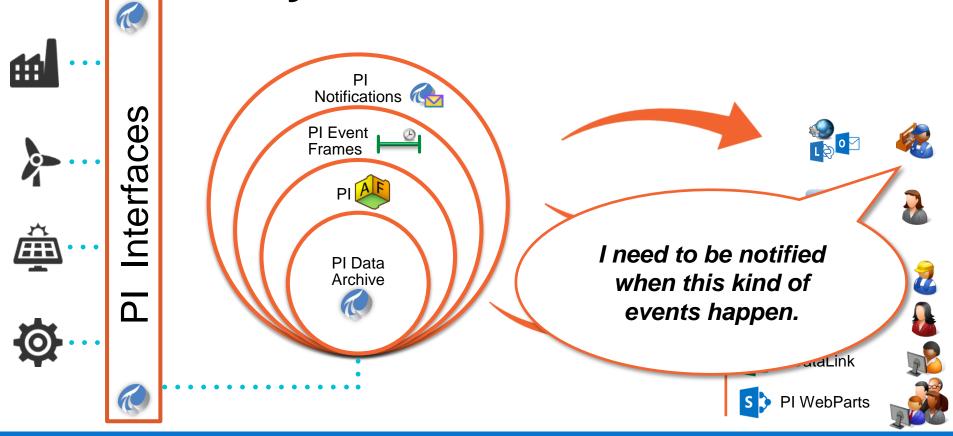


Perform Event Comparisons

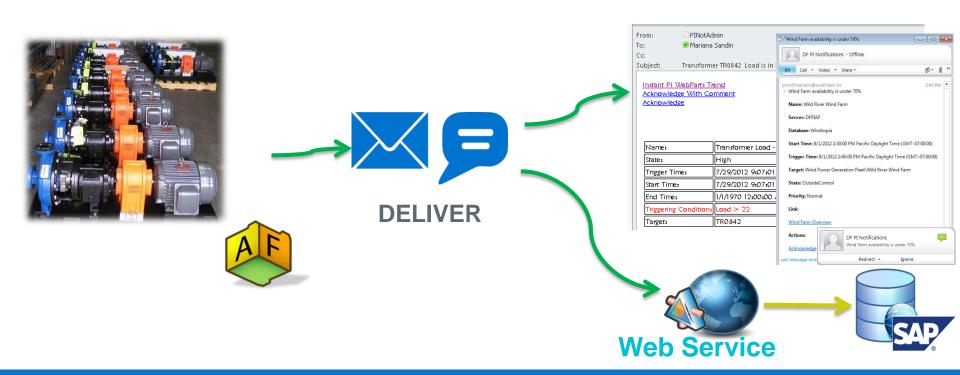
Downtime Events for Product XYZ

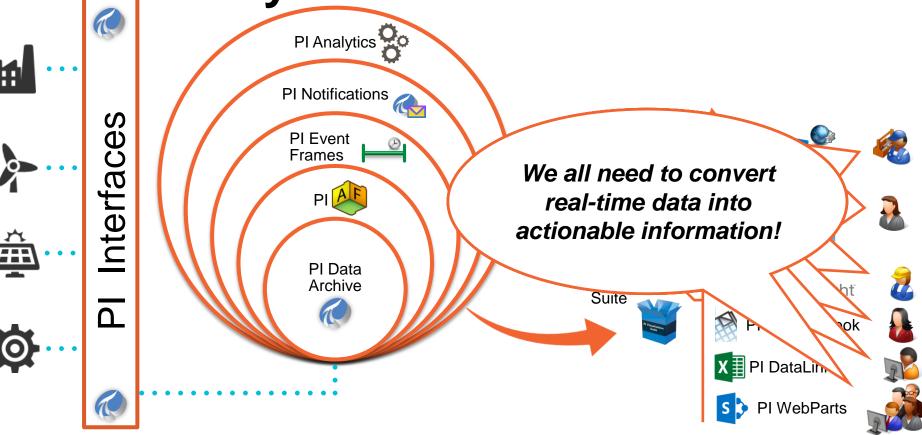


Discover Event Interrelationships



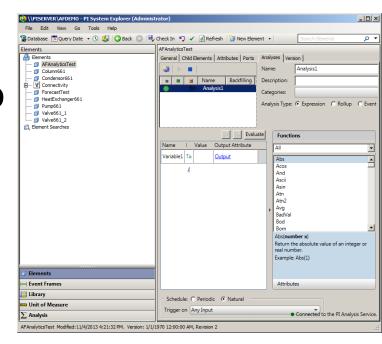
PI Notifications Keeps You Informed

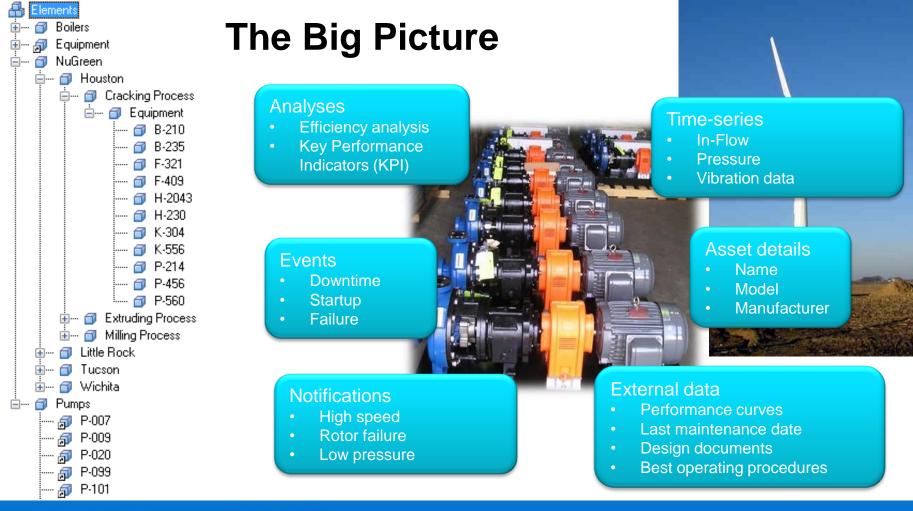




PI Analytics

- Transforms operational data into actionable information
- The analyses are:
 - Created by configuration or programming
 - Triggered periodically or on events
 - Consulted on-demand or historized





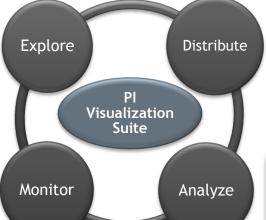
PI System Infrastructure We all want to know the plant performance PI Server in real-time. PI Visualization Suite PI Proce X PI DataLink PI WebParts

Visualization Landscape



Collaboration and ad hoc analysis







PI WebParts

Composite web applications

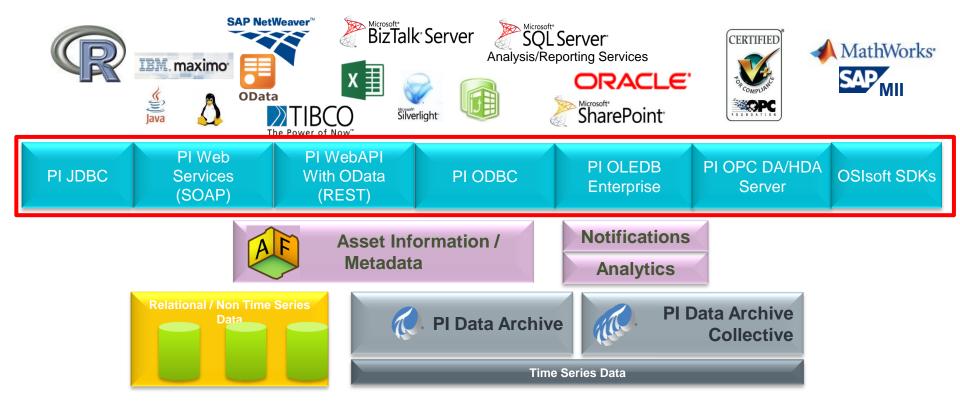






PI System Infrastructure PI System Access PI Server Information must be shared across the enterprise through different business systems. X PI DataLink PI WebParts

PI System Access



From Raw Data to Decision Ready Data





Augment

Shape



Visual Analytics



Statistical Analytics



Analytics Packages

- Designed to Analyze Large Sets
- Expects that the Data Exists
- **Problem Defines Data Shape**
- Typically Evenly Spaced in Time

- Guaranteed Delivery & Storage
- Full Fidelity of Sensor
- Optimized for Real-Time
- Backup/Restore
- HA
- Security



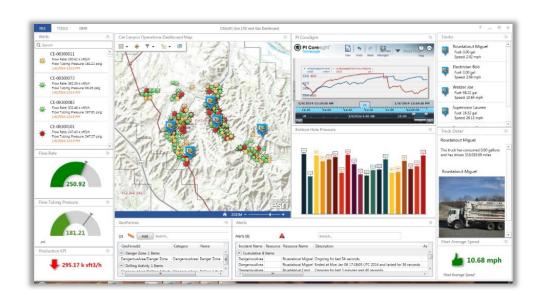
 ESRI is the maker of ArcGIS, the leading product of Geographical Information Systems (GIS).

Rely on the PI System infrastructure to combine
 GIS data with real-time information

23

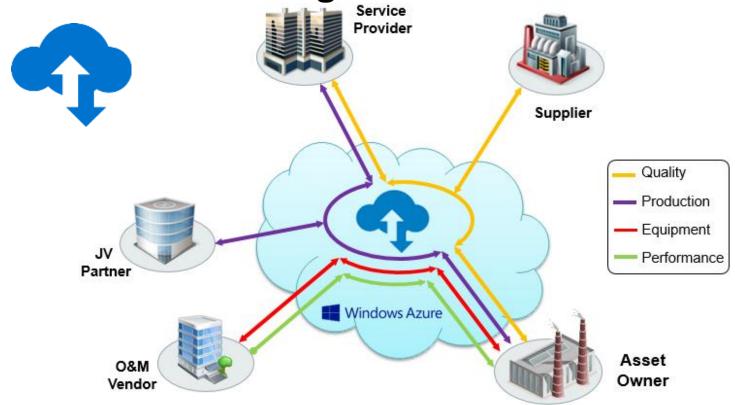
PI Integrator for Esri ArcGIS

Overlay Assets and Real-time Information onto Esri Maps



- Overview of your PI System assets using Esri maps
- Esri maps become live with PI System data
- Drill into asset data using PI Coresight
- Import Esri ArcGIS assets into PLAF

PI System Data Sharing – PI Cloud Connect



Contact Information

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OSIsoft UK Itd