

PI System 101: Basics for Beginners

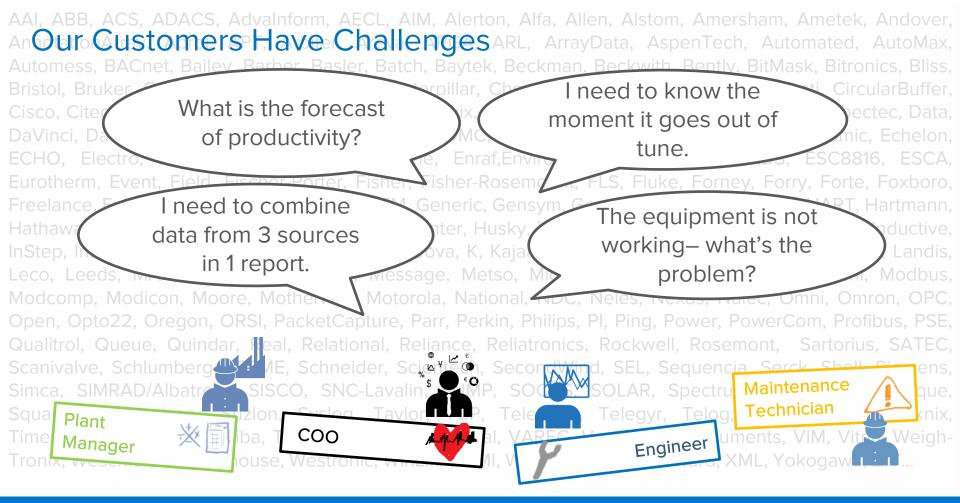
Presented by

Franco Camba, Systems Engineer Daniele Farris, Systems Engineer

We're all here to share ideas

Meet the people next to you





Our Customers Gain Value



Customer Example

Global O&G Company

ESP Reliability Improvement Saves \$40M/y

"PI AF transforms the way real-time data collected from 100's of similar assets can be analyzed so only those assets that need attention NOW are brought to the attention of the right individual for action. Instead of counting the cost of failure, each business unit counts the benefits of optimization."



Spending >\$100M/year in repair of Electric Submersible Pump (ESP)

3,800 ESPs in place with 20% failure rate

Decision process to determine which ESP is in danger of failure

Visibility into when to act and what to do to prevent ESP failure

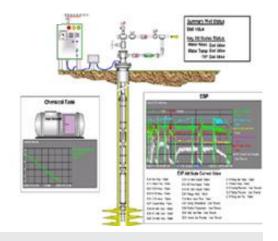
SOLUTION

Develop a PI System based application to predict ESP failure

Leverage Asset Framework to develop ESP templates for standardization and scalability

Develop data quality/validation to minimize false information

Setup Notifications to generate exception-based reporting



RESULTS

Reduced days of lost production by 65%

Lengthened mean time between failure (MTBF) by 35%

Improved engineer and analyst productivity by 300%

Greater than \$40M/year saving in reduced maintenance alone

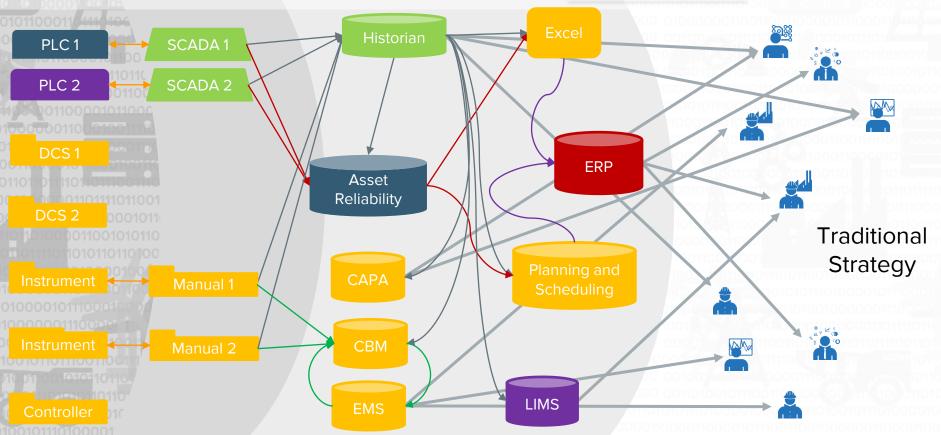


How does your business use the PI System?

What do you want to gain from the UC?

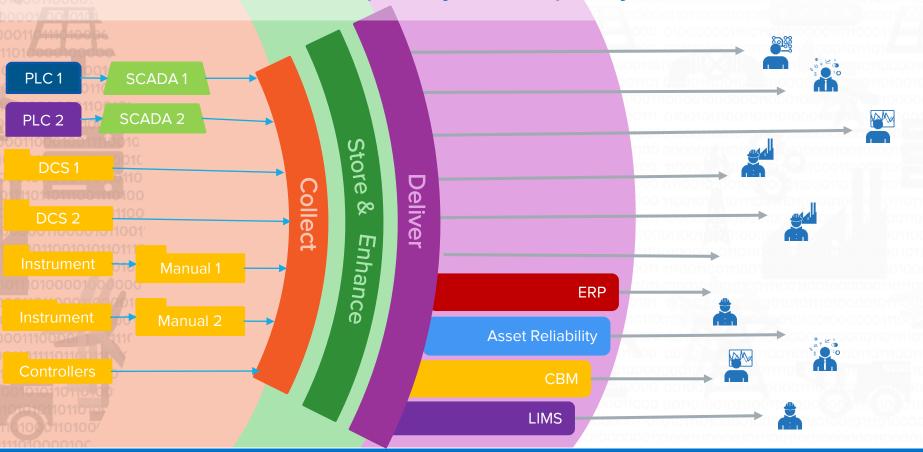


Silos to Standards / Complexity to Simplicity AUDIENCE POLL





Silos to Standards / Complexity to Simplicity



What are the pieces of the PI System?

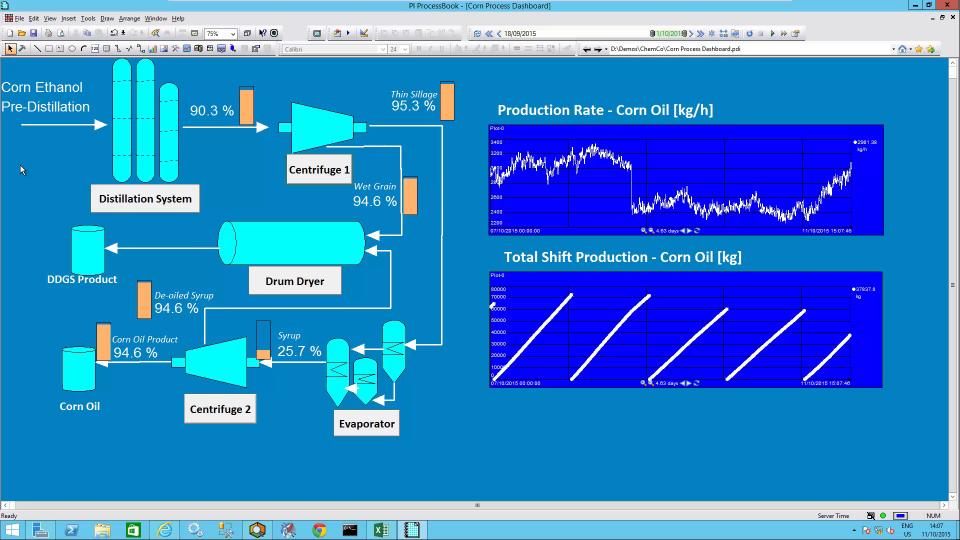




How do you use the PI System to do your job?

How do your colleagues use the System to do their jobs?

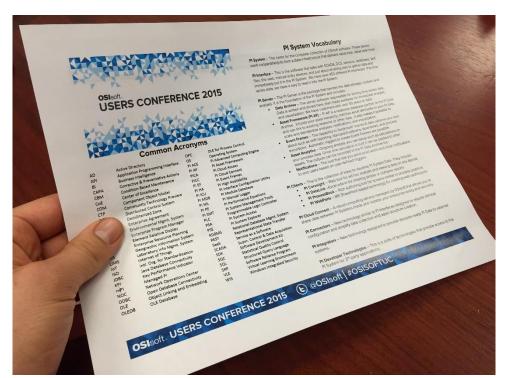
Live Demo: What are the products?



Let's take a look at...

Your handy cheat sheet





The PI System has 3 Layers

PI Interfaces

& Pl Cohectctors



OPC

PLC

Modbus

Manual

HTML

DCS

UFL

RDBMS

Databases

Sensors

And hundreds more!

PI Server

Store & Enhance

PI Data Archive



Historical data

Real-time data

Future Data

PI Asset Framework



Asset Analytics

Asset Structure

Event Frames

Notifications

PI Clients

Deliver

PI Coresight

PI ProcessBook

PI DataLink

PI WebParts

PI Integrators

3rd Party Apps

Custom Apps

Maps, BI, etc.













What Resources Are Available?







PI Square Users Community

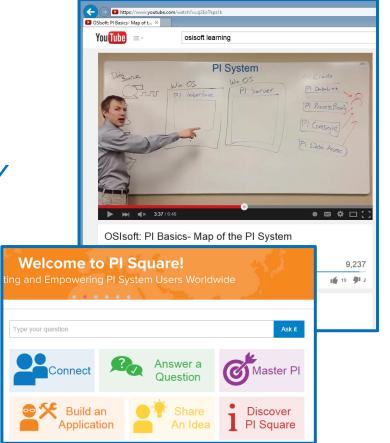


Live Classes & Virtual Learning Environment (VLE)









http://icons8.com

What's Next at the UC?

TechCon Talks Hands On Labs Product Expo

> Find us at the Learning Booth.



Come meet us and ask us questions!

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Questions

Please wait for the microphone before asking your questions



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감사합니다

Merci

谢谢

Danke

Gracias

Thank You

ありがとう

Спасибо

Obrigado