

PI AF Analytics

Presented by Michael Luo, Pl Technical Consultant

Agenda:

- What we have done before and now
- Why AF analytics?
- Where we are heading

The OSI Analytics Family

Present

PI Server

PIACE

PIAF

PI AF Analytics



Performance Equation



Advanced Computing Engine



PI <u>A</u>sset <u>F</u>ramework

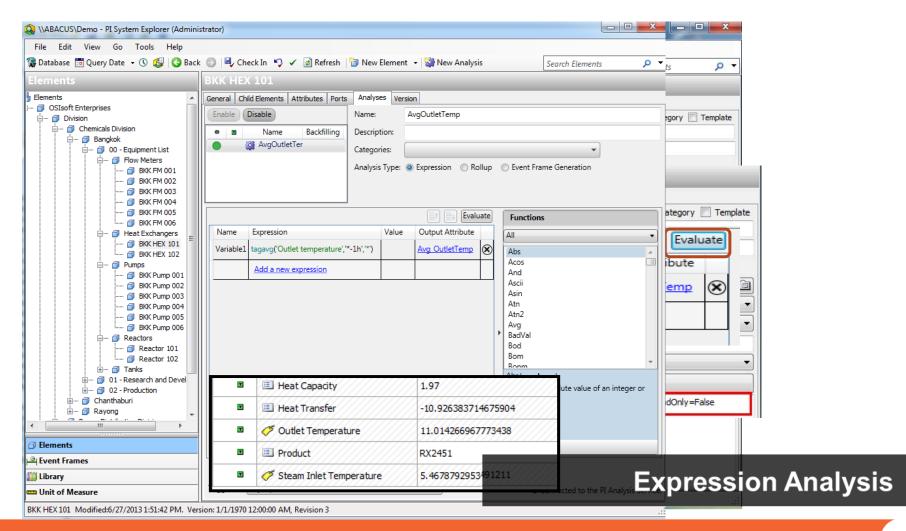


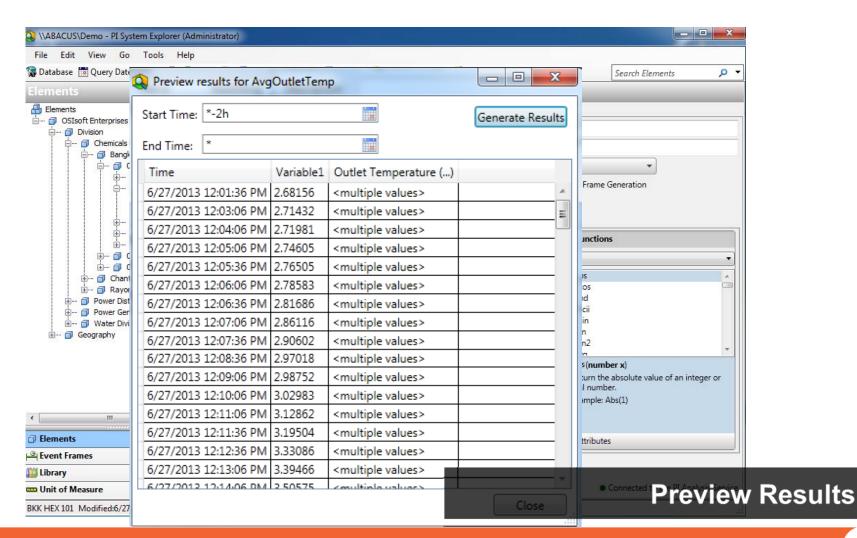
"Templatised" Calculation

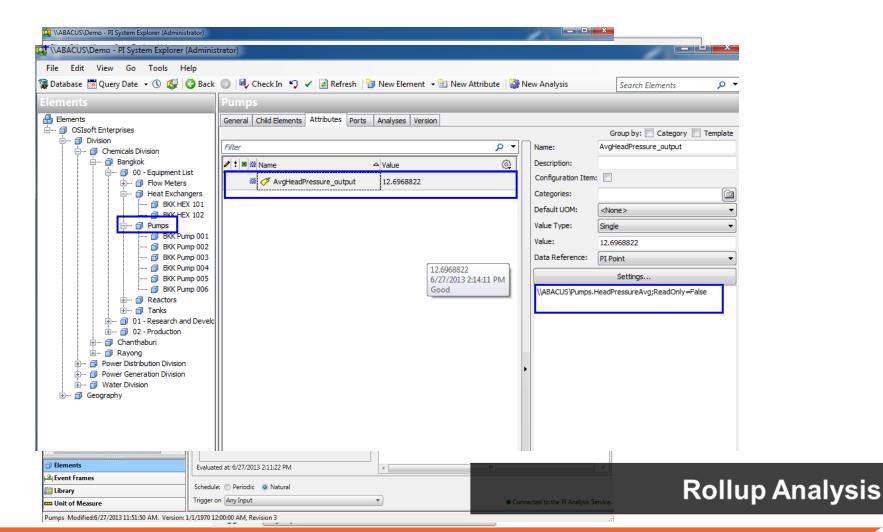


Why PI AF Analytics?

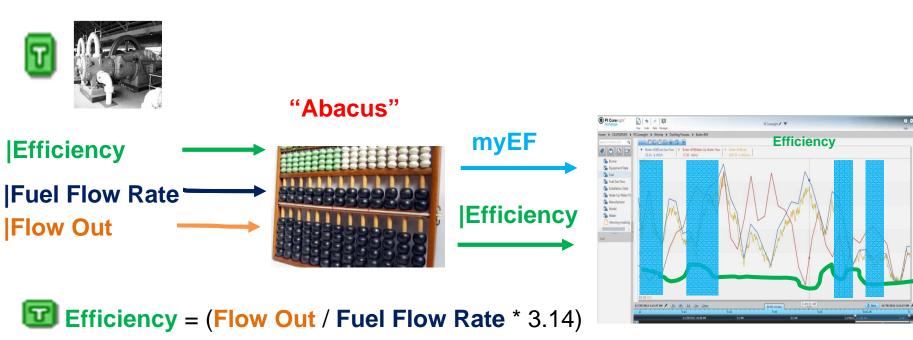
- Configuration experience
- Simple deployment
- Data Access
- On-demand and scheduled execution
- Performance and scalability
- Schedule programmed 'calculation'



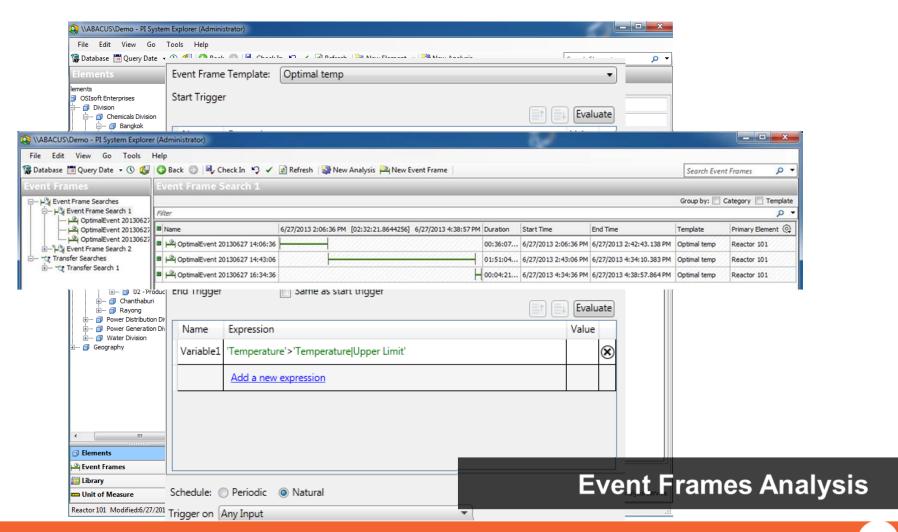


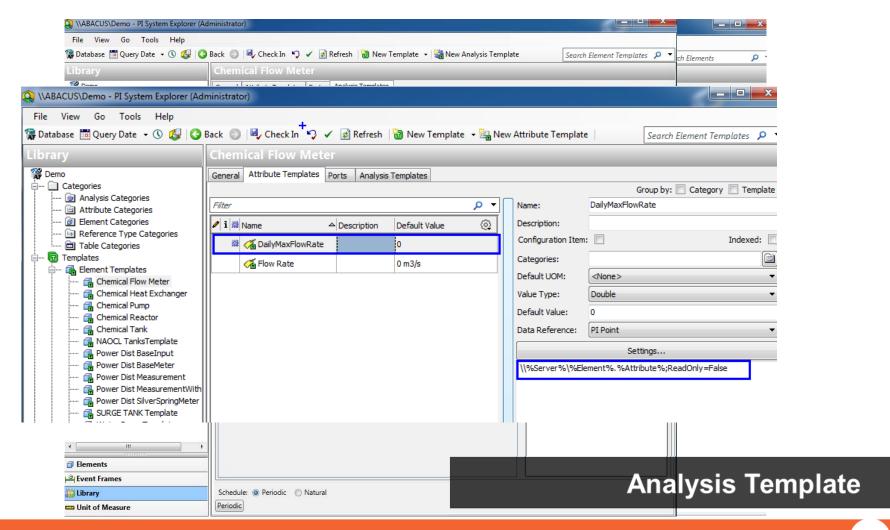


Event Generation in Abacus



myEF.Start = (Efficiency > LIMIT) myEF.End = (Efficiency < LIMIT) AND (Fuel Flow Rate > 80)





Pre-release Software



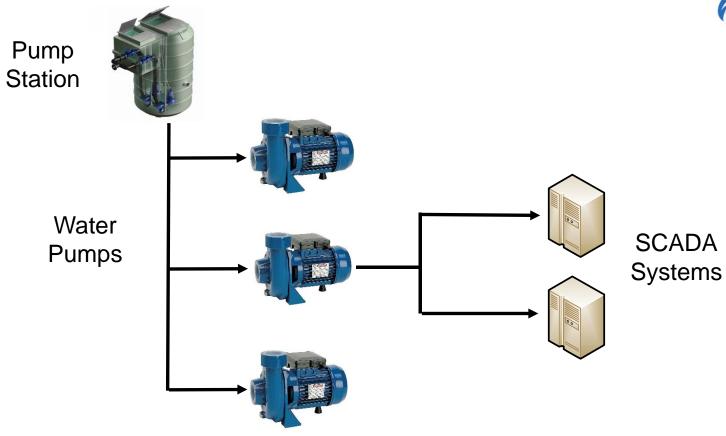
Those features are great.....

Now what can I do with it?

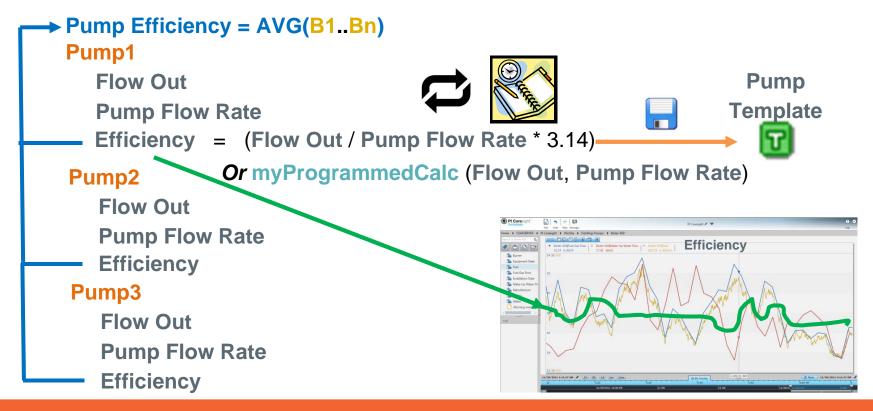
Disclaimer!

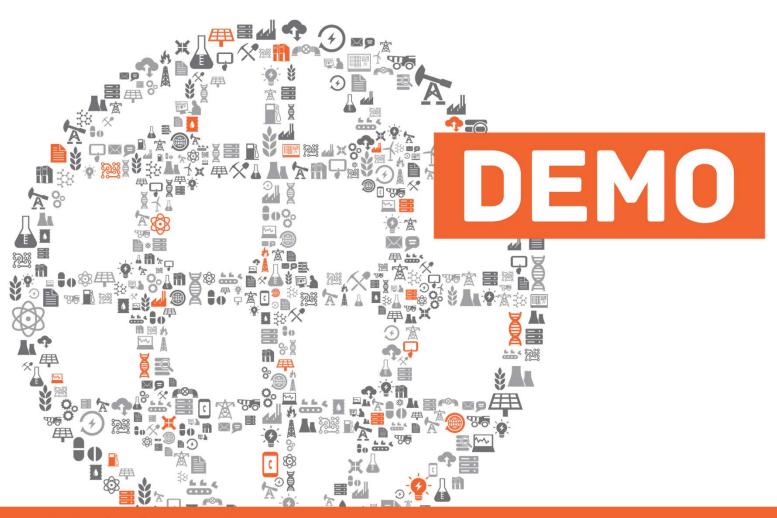






Asset Based Analytics Use Case





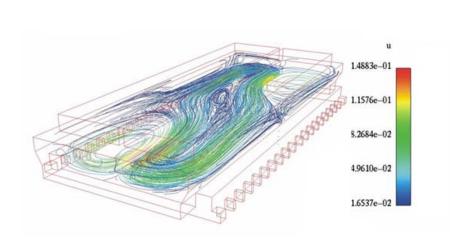
Basic Modelling

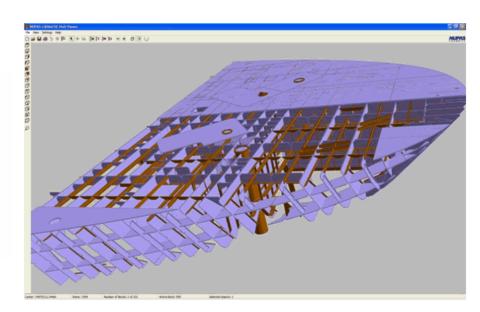






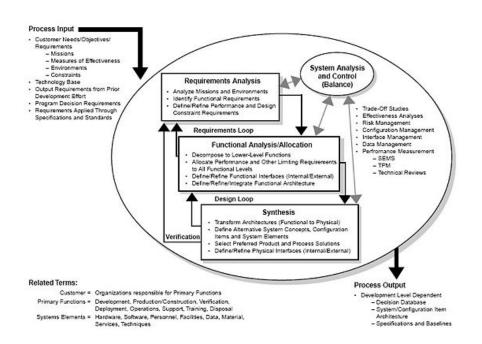


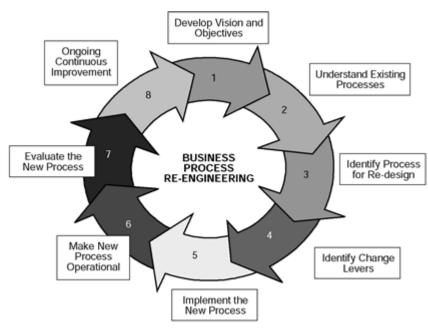






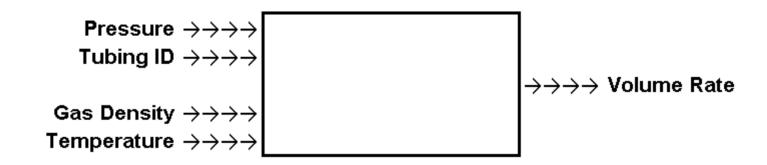




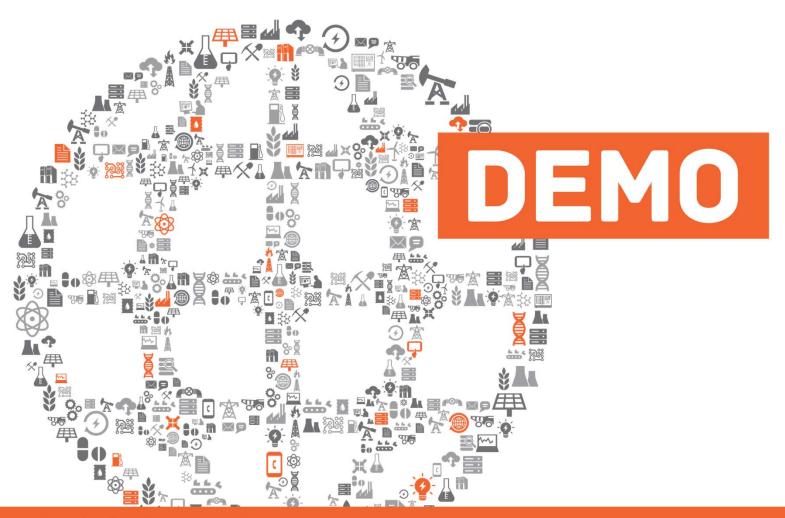


Source: Vakola et al. (1998)

Basic Engineering Modelling



Formula 1

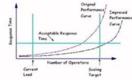


Key Benefits

Easy!



Performance and scalability



Standardize/Reuse/Manageable

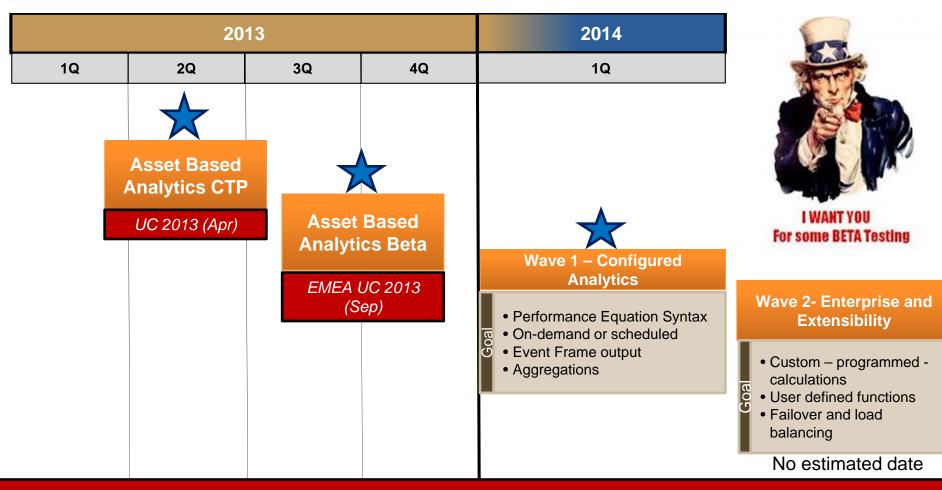


Not just numbers, but also events



Aggregate PI and 3rd party data

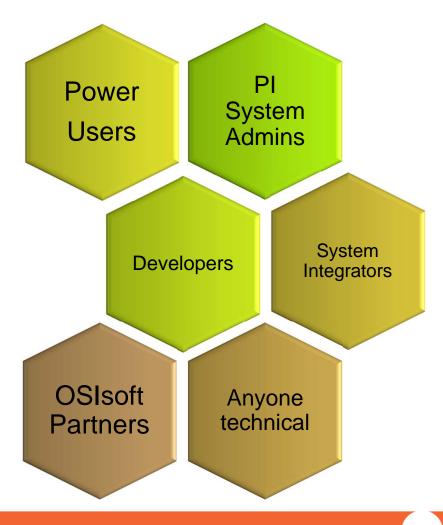




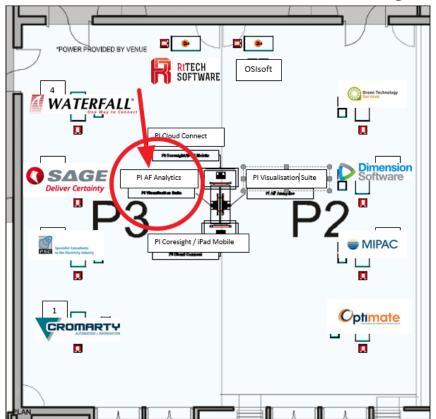
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Get hands on knowledge of how to use and get value from the PI System

VCampus Live! 2013
WHERE PI GEEKS MEET
SAVE THE DATE



Come and see me at my booth



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