

A trip through Data Wonderland

From the one-time Operational experience of Jolene Baker PI
Admin and James Bronstein, Process Engineer

The Cheshire Cat



The Mad Hatter



The Queen of Hearts



Alice



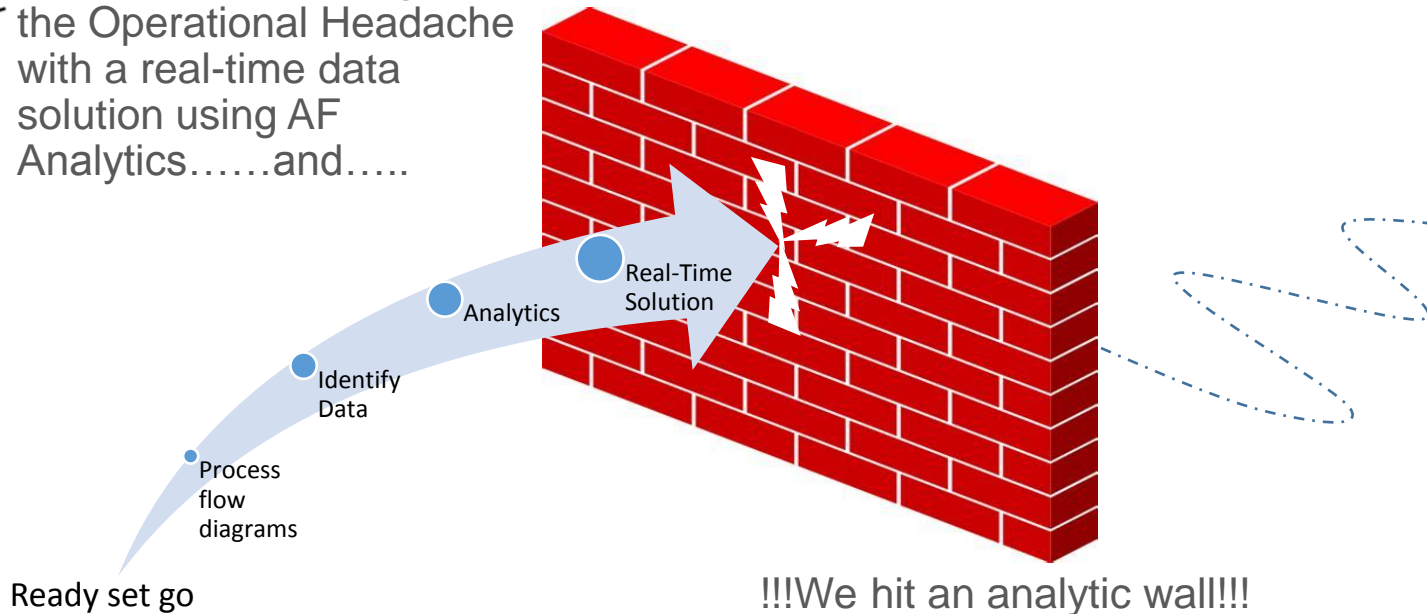
The White Rabbit



Our White rabbit was a Process Pinch Point

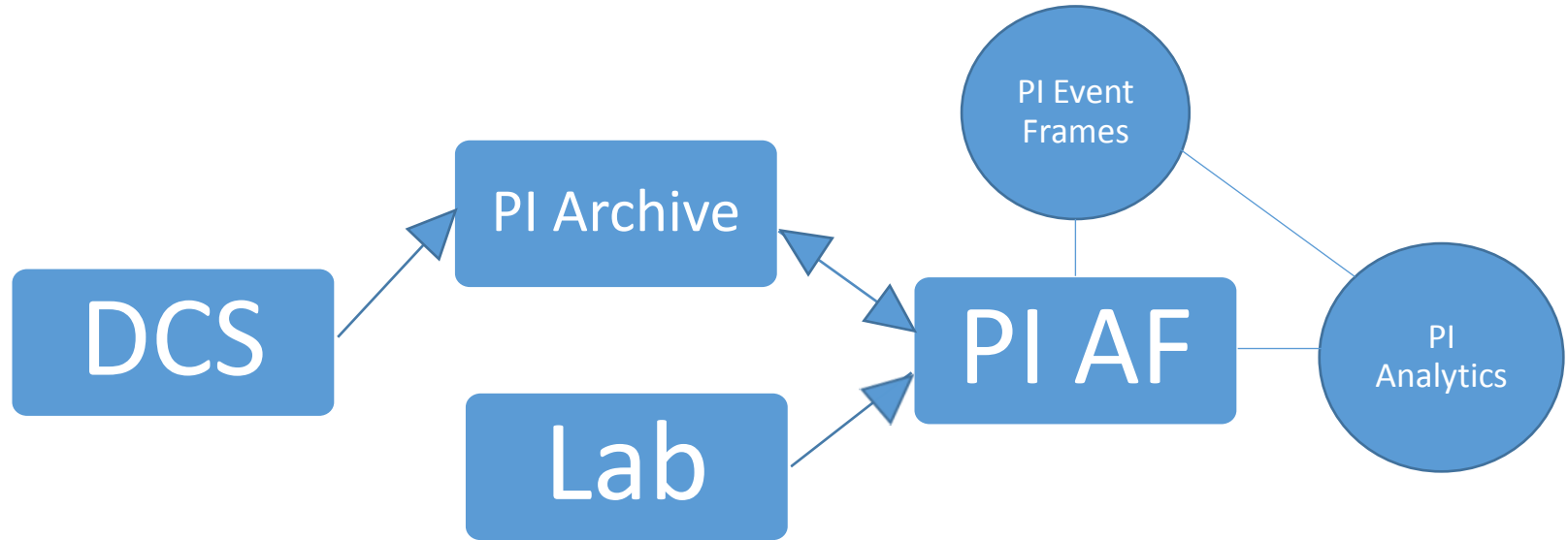


Our idea was to mitigate the Operational Headache with a real-time data solution using AF Analytics.....and.....



!!!We hit an analytic wall!!!

Initial PI System Configuration





The “buzz” word conundrum

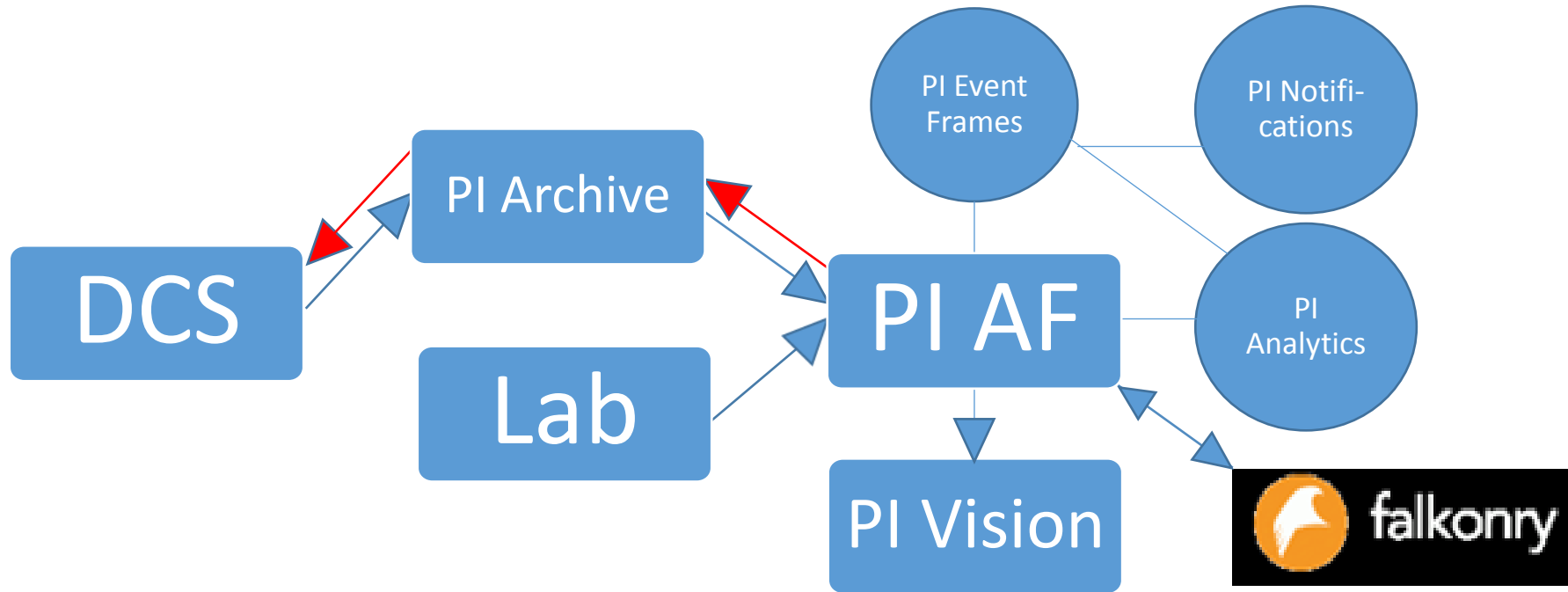
This is challenging work
don't make it worse with
“buzz” word normalization.



...pattern
recognition help
though Falkonry.

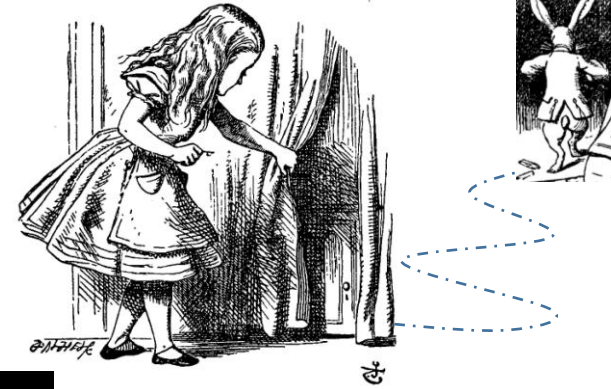
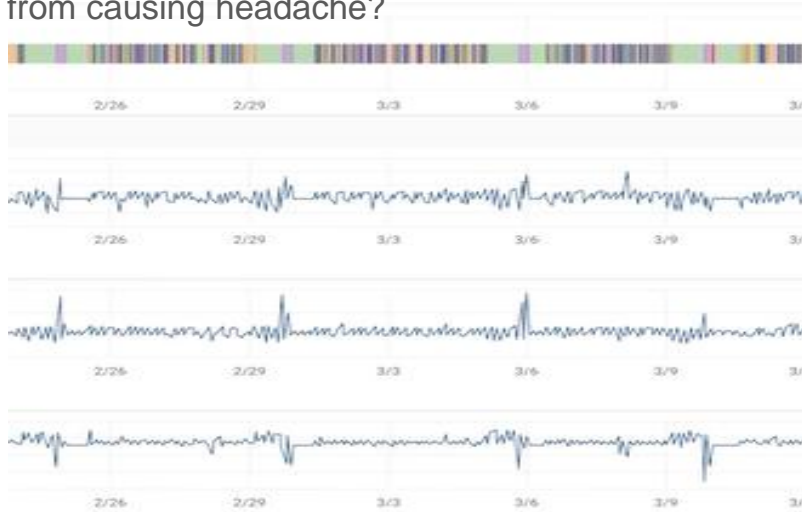


Pattern Recognition Setup



...colorful, yet meaningless pattern

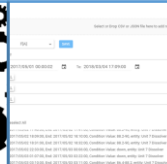
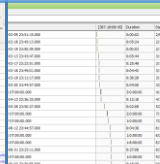
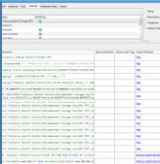
Patterns Found!!! Senses Overloaded!!! still no single lucrative insight to preventing pinch point from causing headache?



Regroup,
Question,
Understand what
exactly the user
needs to help
guide you to find
the right
components.

The Cheshire Cat is an advisor? The Mad Hatter is miss-direction?

.....an open mind and a
considerable amount of time



Ask Experts

Cut the
Nonsense

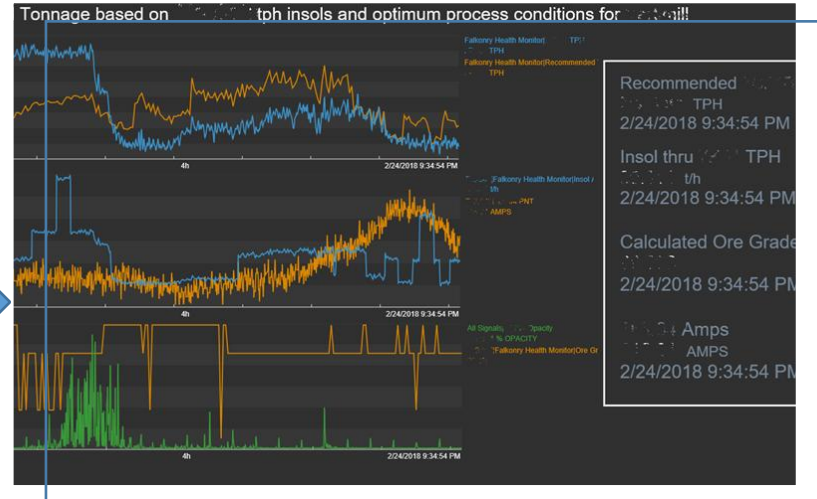
Build AF
Analytics

Event
Frames

Consolidate
Moving
Parts

PI and
Falconry
Alignment

Solution...ish



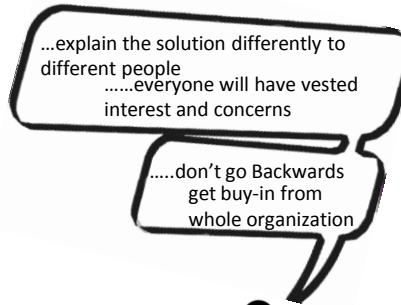
A very merry Un-Birthday with Benefits

- Lower operating rates prior to overload event
 - Avoid downtime from unplugging equipment
 - Avoid equipment damage & replacement component costs
 - Depending on type of damage \$25K to \$100K per event
 - Increase OST
- Increase operating rates ASAP after loading event
 - Reduced lost production from unnecessary rate reductions
 - \$3K to \$6K lost profit per hour unnecessary cut back
 - Increase Utilization



The kingdom of the Queen of Hearts

Solution operational when
Who? What? Where? and Why?
is common knowledge

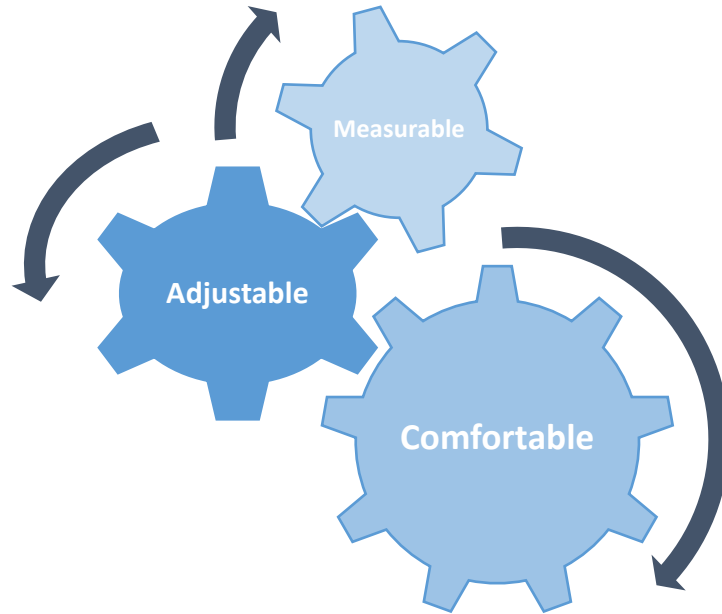


Prepare a
political
platform



Solution accepted when
it is adopted as the new
normal way of doing things

Operate Successfully



Results come if you stick with it!!!!



+



= Results

CHALLENGE

Desired a solution that didn't require capital investment.

- Conventional Analysis were unsuccessful and resolving issue
- High Cap-Ex for guaranteed fix with significant delay in benefit

SOLUTION

Invest time and an open mind with your frontline users and let them guide you to the best solution.

- Integrate with engineers, operators, quality control specialists and supervisors
- Datalink, AF Analytics, Event Frames, Falconry, Integrators, PI Vision and PI Archive

RESULTS

Real time quality control data that predicts upset hours before condition occurs.

- Increase Production (UTL & OST)
- Reduce Maintenance Cost
- \$50-\$200k savings per unnecessary event and/or cutback

....and pattern recognition ROCKS!!!



- **Jolene Baker**
- jbaker@logicalsysinc.com
- Sr. Manufacturing Intelligence Specialist
aka Data Wonder Woman
- Logical Systems, LLC on behalf Falkonry



- **James Bronstein**
- crick@falkonry.com
- Engineering Superintendent
- *Company Neutral* speaking on behalf Falkonry

Questions

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

State your **name & company**



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Merci

谢谢

Спасибо

Danke

Gracias

Thank You

감사합니다

ありがとう

Grazie

Obrigado

Optional: Click to add a takeaway you
wish the audience to leave with.