

Strategic Technologies for Competitive Advantage

Presented by Leïla Chaouki-Juneau



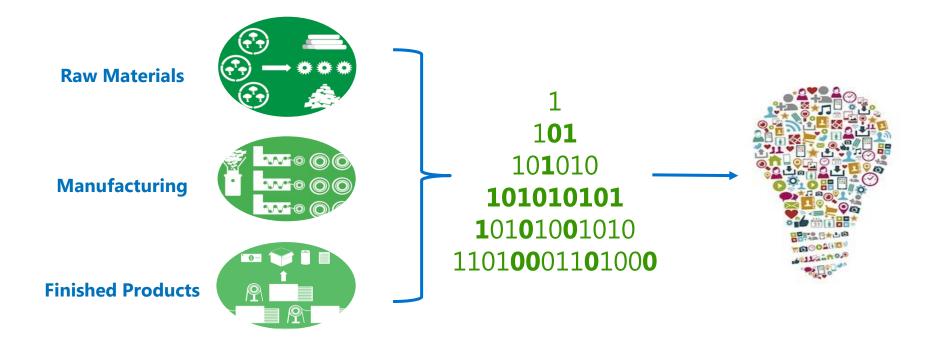




Agenda

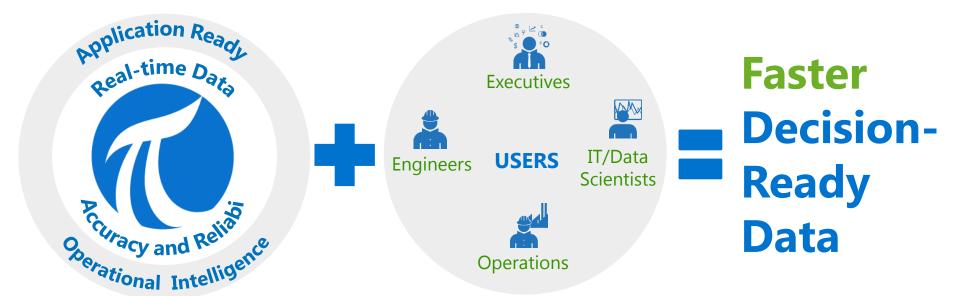
- 1. Why it is important to transform data into intelligence
- 2. How the modern PI System can address business challenges:
 - **Process Productivity**
 - **Asset Health**
 - **Quality Control**
 - **Energy & Water Cost**





Transform Data into Information and Intelligence





Historian

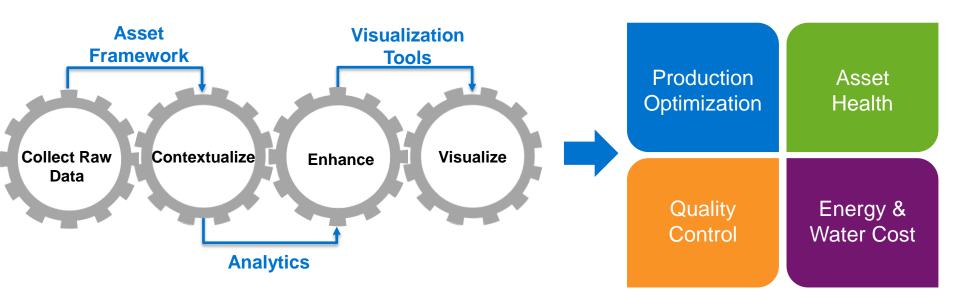
Infrastructure



















Production Optimization







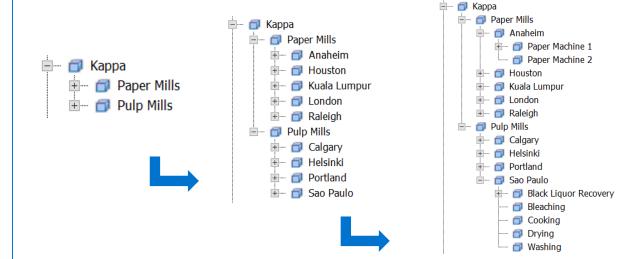
Challenges

- Lack of information: Data silos and lack of integration through the value chain
- Small profit margins
- Loss of knowledge

What does it REALLY cost me to make a ton of pulp/paper?

Solutions

PI Asset Framework organizes context and relationships





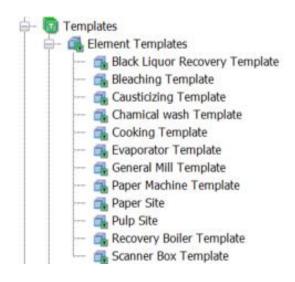






Templates enable you to create Smart Objects for rapid roll-out and standardization

- Faster deployment
 - Standardize attributes and KPIs
- Facilitate asset management
 - Centrally push updates to all assets
- **Reuse** visualization screens
 - See consistent displays for similar assets









Production optimization

One version of the truth, different points of view

Operations Overview







Mill Overview





Enterprise Overview

















Kappa Inc. **Dashboards**









Asset Health







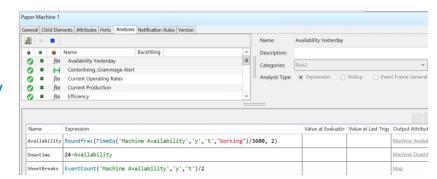
Challenges

- Asset intensive industry
- Aging assets
- Equipment not easy to replace
- Lack of insight

Solutions

Asset analytics turns data into KPIs:

- **Overall Efficiency**
- **Equipment Availability**



Condition Based Maintenance using the PI System

Importance of maintenance strategy













Quality Control





Challenges

- ***** Competitive market
- Lack of real-time data slow reactivity
- Comply to customer's specifications
- Consistency

Solutions

Event Frames + Notifications to track any grammage deviance

- Track in real-time
- Instant notification if deviation
- Increase reactivity



Start Time: 3/15/2017 3:03:00 PM Pacific Daylight Time (GMT-07:00:00)

Target: PaperCo\Kappa\Paper Mills\Anaheim\Paper Machine 1

Severity: None

Send Time: 3/17/2017 8:46:47 AM Pacific Daylight Time (GMT-07:00:00)

Quality report on centerlining grammage by grade produced







Kappa Inc Report









Water & **Energy Cost**

Energy & Water Cost

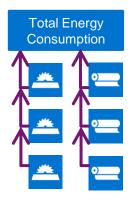
Challenges

- Energy and water consumption can represent 40% of total production cost
- Steam and power at the heart of operations
- Price of energy variable

Solutions

Asset Analytics

- **Calculations** to compute water and energy consumption through out the mill
- **ROLLUP capabilities** to aggregate the water and energy consumption at site and enterprise levels



Compare in real-time the steam production vs the steam consumption

Import data from tables and track in the PI System the Price of energy







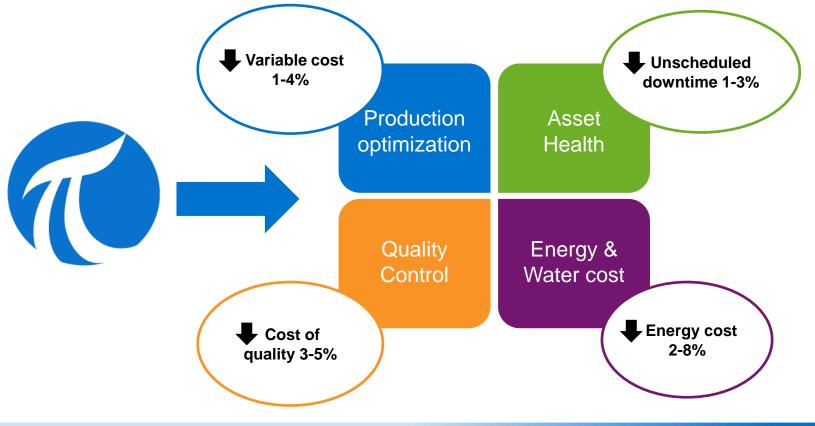


Conclusion









Historian

Infrastructure

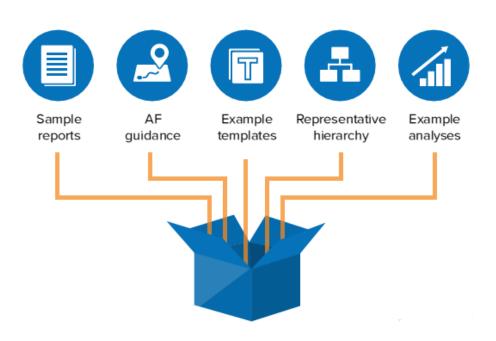






Asset Based PI Example Kits

Explore how business initiatives take shape.



https://pisquare.osisoft.com/community/all-things-pi/af-library

- Learning tool & starting point
- Install on your AF Server with or without demo data
- Available to everyone in the AF **Community Library** on PI Square
- Applicable to P&P: Condition Maintenance
- **Best Practices for Implementing** PI AF – Customer Testimonials & PI Coresight 2017



@ osisoft

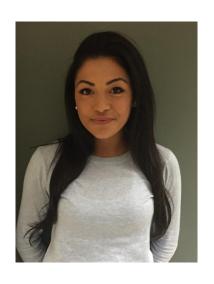
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Questions

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감사합니다

Merci

Danke

谢谢

Gracias

Thank You

ありがとう

Спасибо

Obrigado



