Web browse PI AF data to improve operations

Presented by **Darren Hill & John Messinger**

MIPAC

About MIPAC

**Control Systems
Networks & Communications
Data management & Visualisation**

**+250 projects
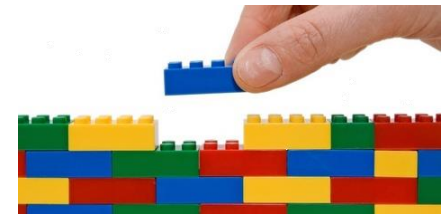delivered**

**Industry
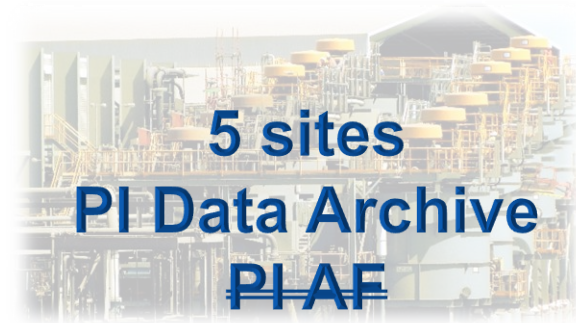Experience**

**+40 engineers
Australia and Canada**

Common site challenges

- Common site challenges
  - Lots of systems, data and information
  - Often a lack of stability in the workforce
  - Frequently a lack of experience in the workforce
  - Difficulties collecting and building on knowledge

- Common client solutions
  - Custom SharePoint or Web Solutions
  - Vendor packages
  - Custom PI Processbook and Excel Reports

North QLD miner

- Daily production meeting KPI's
    - Licence to operate (reporting)
    - Cost reductions
    - Improved performance

- Limited use of PI ProcessBook and PI Datalink

- Issues with reporting time (XLS) and identifying improvements

5 sites
PI Data Archive
PI AF

Broad audience for visualisation

- ## User groups
    - Corporate
    - Management
    - Mets
    - Supervisors
    - Operators

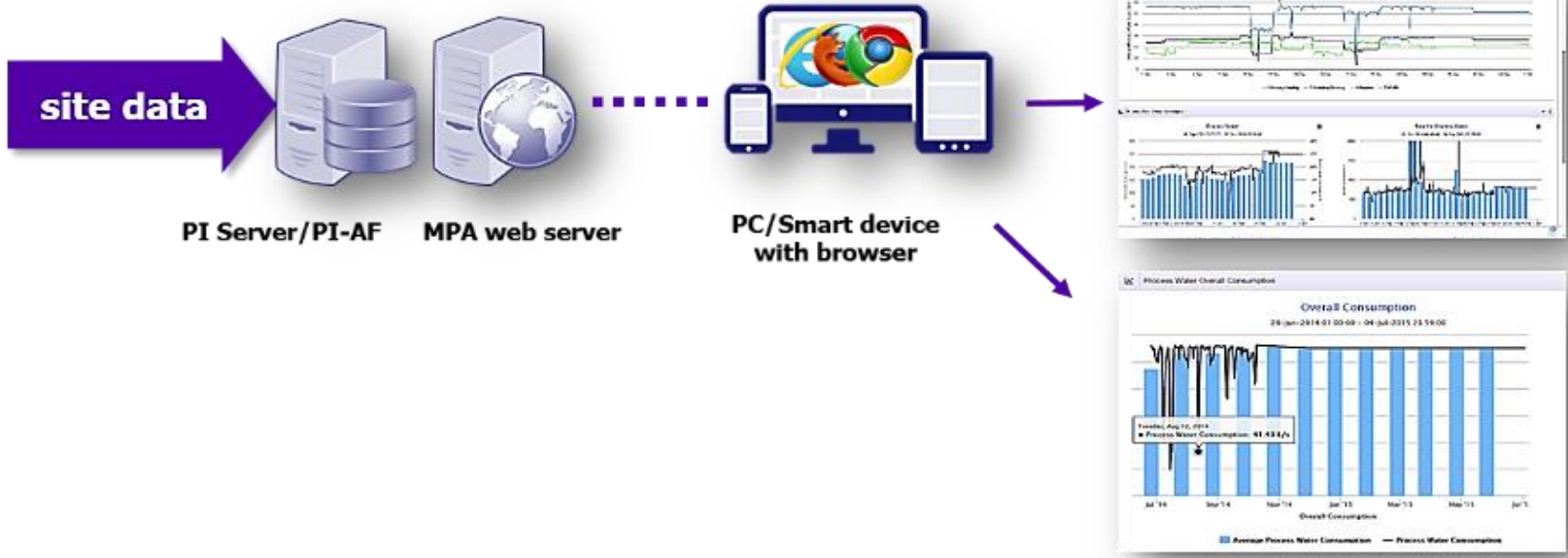Dashboard visuals of plant performance (strategic)

PI ProcessBook/Coresight – adhoc analysis of specifc assets (tactical)

Visualising the data

- ## Considerations
  - Sharepoint
  - PI ProcessBook
  - PI Coresight
  - Ampla

- ## Developed thin client web application
  - Requirement relational data (other systems)
  - Standard technology (no user software req.)
  - Reusable template visuals
  - Asset tree navigation – drill down
  - Little or no training required as user

MIPAC Process Advantage™ (MPA)

Value of PI AF

- The PI System™ is extremely good at:
  - Collecting data from almost anywhere
  - Massive scalability, high availability
  - Ease of use & rapid deployment
- The PI Data Archive is focused on a points database
- Meta-data: a **structure** for the data
  - PI Data Archive supplies data
  - PI AF supplies structure and access to more data

Why add structure?

- Structure is **your** knowledge applied to **your** points
- Structure helps you:
  - Store your domain expertise
  - Build applications
  - Build displays
  - Answer new questions
- PI-AF presents an asset-centric view of data

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OSIsoft.

North QLD miner benefits

1. enabled new areas of cost reduction
2. contributed to the productivity improvements
3. greatly reduced reporting time

Summary

Publish your plant wide data to anyone, anytime, anywhere by harnessing your OSIsoft PI Asset Framework to enable more informed business decisions, using a standard web browser.

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BUSINESS CHALLENGES

Accessing relational plant wide data and analytics to make productivity and cost reduction improvements, anytime from anywhere, using standard existing technology.

SOLUTION

Through web publishing of PI Asset Framework data harnessing the power of operational analytics, companies can monitor asset status and performance on standard devices.

RESULTS AND BENEFITS

Implementation at a major mining company has;

- – enabled new areas of cost reduction
- – contributed to the productivity improvements
- – greatly reduced reporting time

Contact Information

Darren Hill

darren.hill@mipac.com.au

BD Manager

MIPAC

John Messinger

john.messinger@mipac.com.au

PI Solution Developer

MIPAC

Questions

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

State your **name & company**

Please don't forget to…

Complete the Survey for this session

The Power of Data
DECISION READY IN REAL-TIME

Evaluation Form (Seminar Location - Date)

Name:_____   Company: _____

Email:_____

Quality and content of the presentations

	Poor	Good	Excellent	N/A
Welcome	○	○	○	○
The Journey To Real-Time Operational Intelligence	○	○	○	○
The Power of Connection	○	○	○	○
Tank Level Management System	○	○	○	○
Using the PI System to Aid in Troubleshooting Operational Aspects of Oil and Gas Well Drilling and Completion	○	○	○	○
Unleash your Infrastructure	○	○	○	○
Information on the Spot	○	○	○	○
Wrap-up/Seminar Conclusion	○	○	○	○

Quality and organization of the seminar

Choice of date	○	○	○	○
Time allowed for lunch/breaks	○	○	○	○
Choice of presentations	○	○	○	○
Pace and time allowed for the presentations	○	○	○	○

감사합니다

谢谢

Danke

Merci

Gracias

Thank You

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Спасибо

Obrigado

Web browse your PI AF data to improve operations!