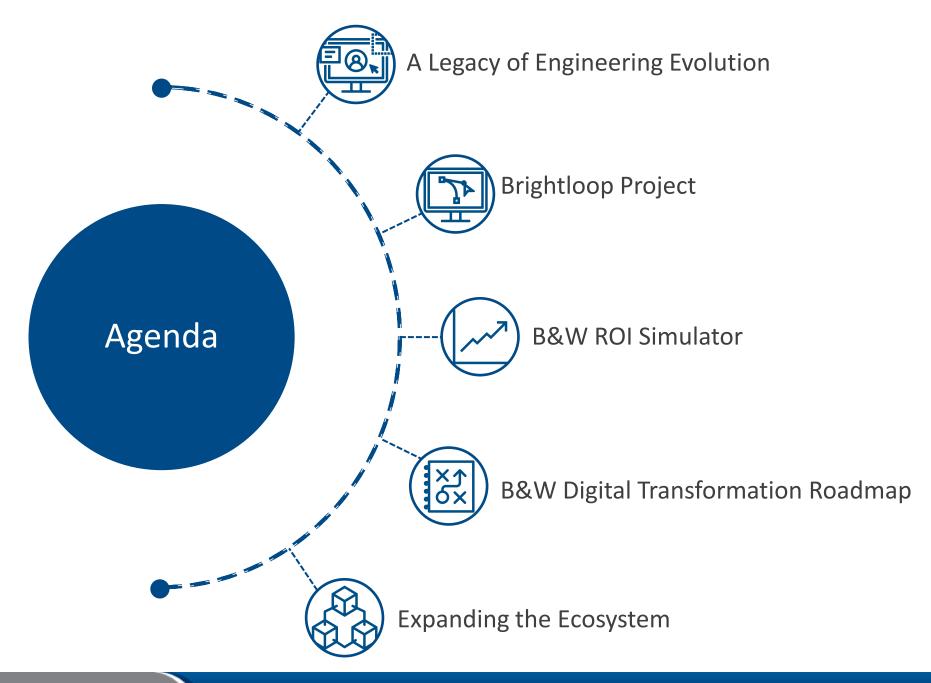
AVEVAWORLD



Unlocking ROI How B&W Achieved Efficiency with AVEVA Unified Engineering

Max Guillois



B&W: A Legacy of Engineering Evolution



B&W: A Legacy of Engineering Evolution

Challenges

- Multiple legacy/custom applications in silos
- Limited vendor support for outdated systems
- Difficult management of drawings & documents
- Overlapping maintenance costs & licensing

Objectives

- Consolidate/modernize tools to reduce costs
- Standardize processes on a single platform
- Improve data consistency & collaboration



B&W ROI Simulator: Measuring Success

Multidimensional Metrics

- Labor rates
- License tool costs
- Admin cost
- Error saving ratio
- Time per deliverable (GA drawings, Isometrics, Engineering lists, P&IDs, 3D model, etc)
- Training costs

Output

- Scoring card and simulation tool used to:
 - During the proposal phase to compare "Simple Tools vs. AVEVA" scenarios and justify the decision (or not) to use AVEVA on a project.
 - Provide top management with clear ROI insights

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B&W ROI Simulator: Measuring Success

Input	User Entry
Total Project Value (\$)	\$ 50,000,000.00
Contract Type	EPC
No. of P&IDs	150
No. of GA Drawings	90
No. of Isometrics	1500
No. of tags	12000
No. of pipe support	80
No. of Engineering lists	10
No. of Datasheets	50
No. of revisions	4
Offshore Labor %	60%
US Labor %	40%
Full AVEVA Suite or mix (E3D use for 3D modelling, AutoCAD used for P&ID	Full suite
No. of AVEVA E3D Users to Train	20
No. of AVEVA P&ID Users to Train	15
No. of AVEVA Engineering Users to Train	10



The Digital Transformation Roadmap

9 2021

- Scope Definition
- Solution Design

2022

- UE Deployment
- Solution Test
- **Q** 2023
 - UE Project Configuration
 - End User Training (80+)

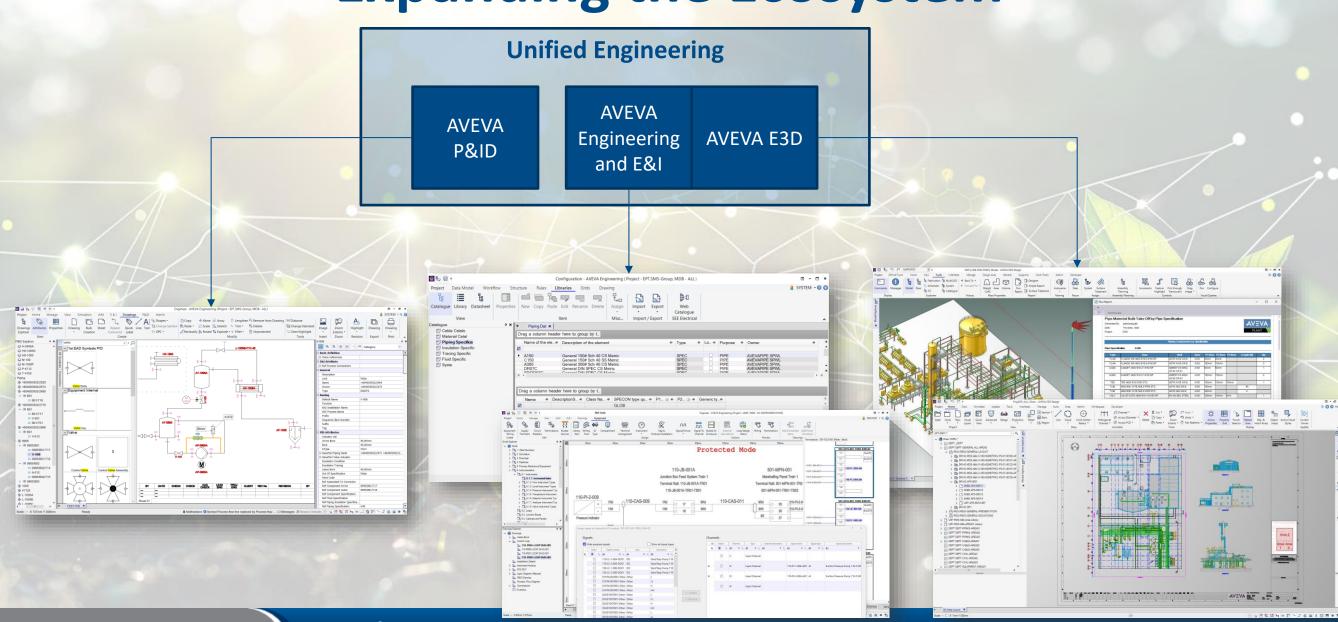
2024

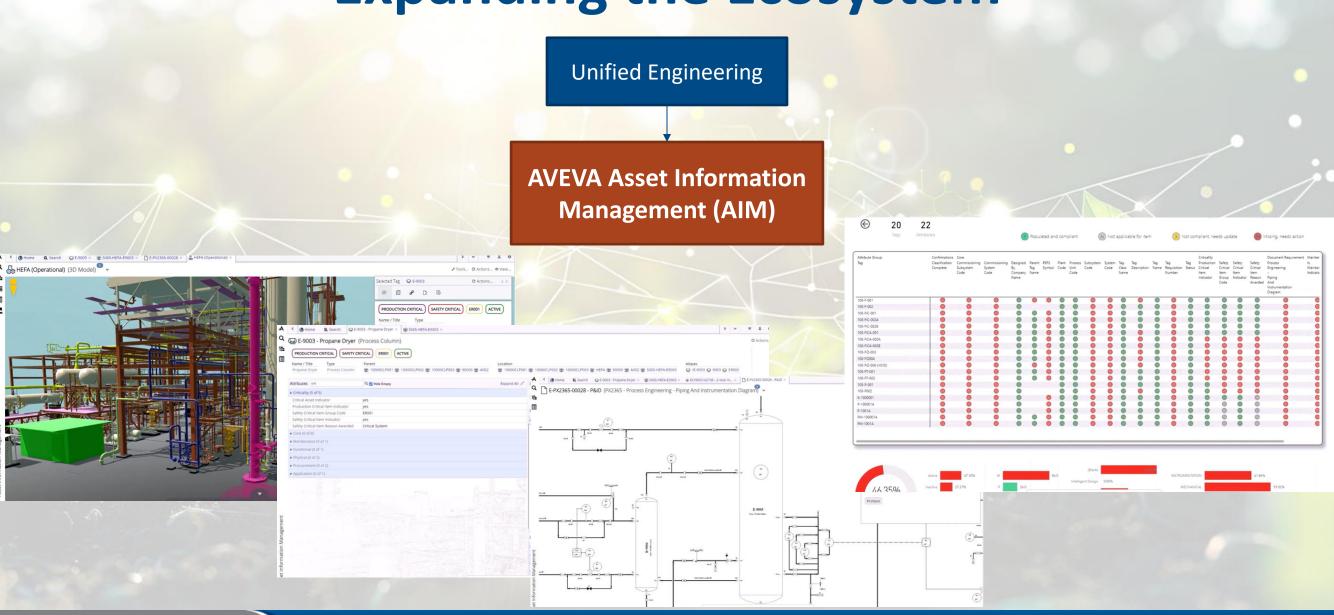


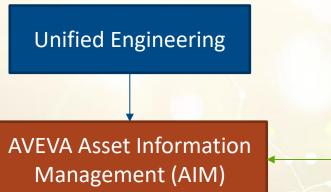
- Standard Documentation
- Ticketing System
- Company Master Project
- 9

2025-28

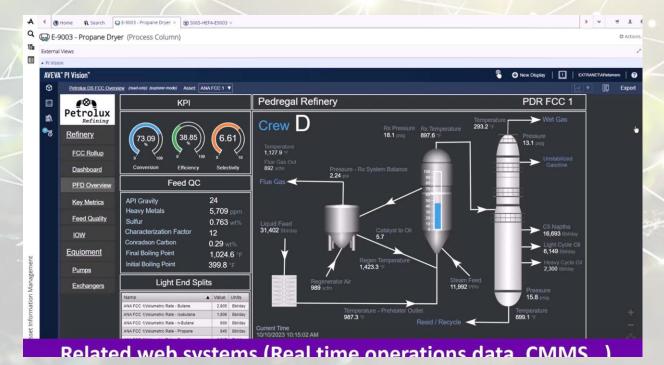
- P&ID next Gen
- Asset Information Management
- PI System and PI Vision
- Predictive Analytics





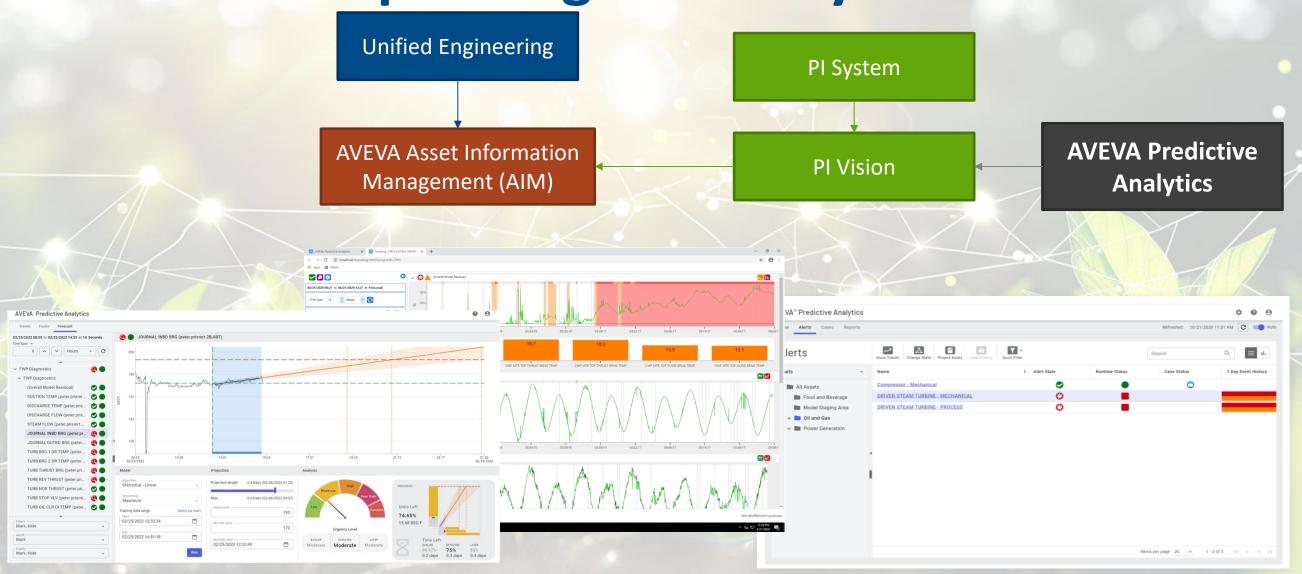








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Introducing Focaliti



• B&W + Focaliti + AVEVA: A united approach to digital transformation

• Leverages B&W's AVEVA experience (Unified Engineering, AIM, ERM)

• Accelerating innovation across industries through strategic partnerships



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Services

FOCALITI



CONSULTING

- Requirement and Solution Design Definition
- Implementation Plan
- Change Management and Adoption Services
- Business Process
 Optimization
- Innovation Strategy



DEPLOYMENT AND CONFIGURATION

- Engineering Applications Deployment
- Engineering Applications Implementation
- Legacy System Migration



TRAINING AND DOCUMENTATION

- Engineering Applications Training
- Writing of Unified Engineering Guidelines
- Writing of Requirement documentation



DIGITIZATION AND DIGITALIZATION

- Back-Modelling using laser scans
- P&ID Conversion and Redrafting using AI
- Creation of Data Hub



SUPPORT AND MAINTENANCE

- Provide experts to facilitate adoption
- Performance Monitoring and Optimization
- Continuous Improvement Workshops

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B&W Achieved Efficiency with AVEVA Unified Engineering

Challenge

- Multiple legacy/custom applications in silos
- Limited vendor support for outdated systems
- Difficult management of drawings & documents
- Overlapping maintenance costs & licensing

Solution

 Deployed AVEVA™ Unified Engineering as a centralized platform to standardize processes, reduce data handover complexities, and elevate the overall quality of engineering projects.

Results

- Improved collaboration and data integrity by using a Unified environment.
- Eliminated redundant tools and rework, reducing engineering costs.
- Unlocked potential new revenue streams by expanding the ecosystem, leveraging standardized processes and a single source of truth.

