

Data & Insight

Capture, analyze, inform, and improve. Work generates data that closes the loop.

\$82M

5-year capital replacement pipeline surfaced from O&M data patterns

WHY YOU'RE HERE

Operations data has been accumulating. Work order frequencies reveal which assets fail most often. Labor costs per asset expose the ones consuming disproportionate resources. PM compliance rates show where deferred maintenance is building. Inspection scores are trending in one direction. The system now knows something that people might not — and it's time to surface it.

WHAT HAPPENS HERE

- Work order frequency analyzed by asset → reveals chronic failures and repeat corrective patterns
- Time-to-complete trends converted into per-asset labor cost intelligence
- PM compliance rates calculated → flags deferred maintenance and reliability risk
- Inspection condition scores tracked over time → flags assets approaching end of useful life
- Acquisition cost + accumulated work order cost → replace-vs-repair break-even analysis
- Portfolio-level capital signals surfaced: which assets need CIP projects, which need PM adjustment, which need warranty action
- Copilot reads connected data across the Continuum and answers natural-language questions in context

DATA COLLECTED

Cost per Asset
eims_workordereims + eims_equipment

Corrective labor hours × rate per asset = the true maintenance cost the system already knows

Condition Deterioration
eims_inspection (condition trend)

Inspection scores over time flag assets approaching end of useful life before failure occurs

Contextual Intelligence
Copilot (AI Layer)

AI grounded in the full data model — reads connected data, answers questions, surfaces risks in natural language

PM Compliance Rate
eims_jobplan (schedulestatus)

Overdue vs. scheduled job plans per asset class and team — the reliability signal

Replace vs. Repair
eims_equipment.eims_acquisitioncost

Acquisition cost baseline + accumulated corrective labor = break-even analysis per asset

ASK COPILOT

+ **Generate a replace-vs-repair analysis for our top 10 costliest assets**

Analysis complete at \$100/hr blended labor rate. 3 assets exceed economic replacement threshold: Pump Station 4 Main Pump (break-even: 14 months), Clarifier Drive B (18 months), Blower 2A (22 months). Estimated replacement cost: \$890K combined.

+ **What should be in next year's CIP based on current O&M trends?**

Data suggests 4 capital candidates: (1) Pump Station 4 rehab — \$1.2M, driven by 9 corrective WOs. (2) Clarifier equipment replacement — \$340K. (3) Wetside instrumentation upgrade — \$280K. (4) Blower system — \$450K. Total: \$2.27M.

+ **How does our corrective maintenance ratio compare to best practice?**

Current corrective rate: 33% of all work orders. Industry target is <30%. Wetside process area is the outlier at 51% corrective. If corrective rate dropped to 25%, estimated annual labor savings: \$180K at current throughput.

DOCUMENTS

- Executive Performance Dashboards
- Board Presentation Packages
- Capital Plan & CIP Prioritization Reports
- Asset Lifecycle Analysis Studies
- Benchmarking & Peer Comparisons
- Annual O&M Cost Reports

WHAT THIS UNLOCKS

The loop closes. Assets that are failing, aging, or exceeding maintenance economics become the next round of capital planning candidates — and the Continuum begins again.

Next: Planning & Compliance →

POWERED BY

- Continuum (AI Analysis)
- Power BI
- Copilot Studio

