

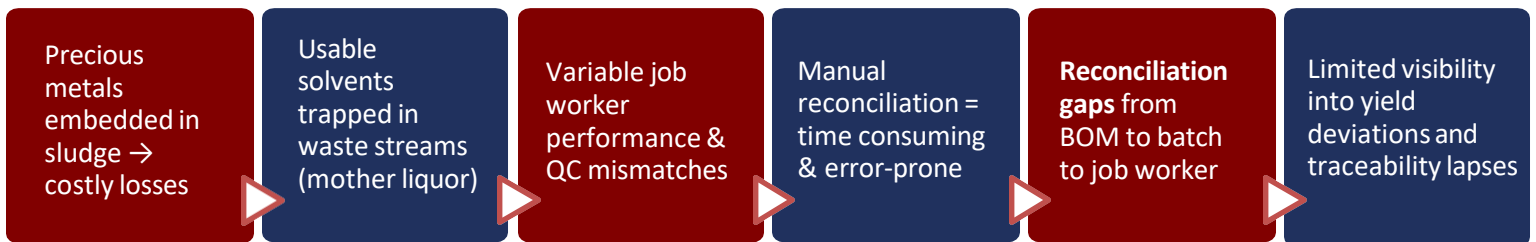
Use Case - Optimizing Solvent & Precious Metal Recovery in Pharma API Manufacturing

Reduce Cost. Improve Yield. Unlock Traceability.

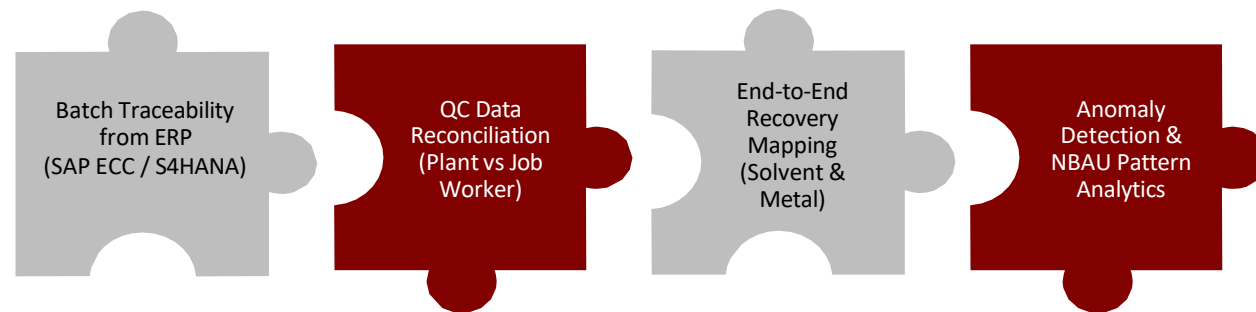
The Challenge

- Inefficient recovery of solvents and precious metals (Palladium, Platinum, Rhodium)
- Recovery losses in activated carbon and mother liquor

What's at Stake?



Our Analytics-Driven Solution



What Makes It Unique

- ▶ NBAU Pattern Detection for performance gaps
- ▶ Metal-in-Sludge Traceability tied to QC benchmarks
- ▶ Batch-Level Yield Insights by SKU, shift, job worker
- ▶ Solvent Residue Accounting in waste mother liquor

Impact Delivered

- ▶ 12–15% Reduction in Precious Metal Procurement
- ▶ 10–12% Reduction in Solvent Procurement
- ▶ 20–30% Lower Batch Yield Variability
- ▶ 60% Reduction in Manual Reconciliation Effort
- ▶ 100% Traceability Compliance