Wipro Smart-twin



An Operational Digital Twin

What is it?

- An operational digital twin is a virtual model of a real-life asset, or process, and their impact on your business
- It accurately reflects the state of your **PAST, PRESENT & FUTURE** operations, and ties it to your **Business Economics**
- It is powered by data

What it will drive?

Closed Loop Performance Management

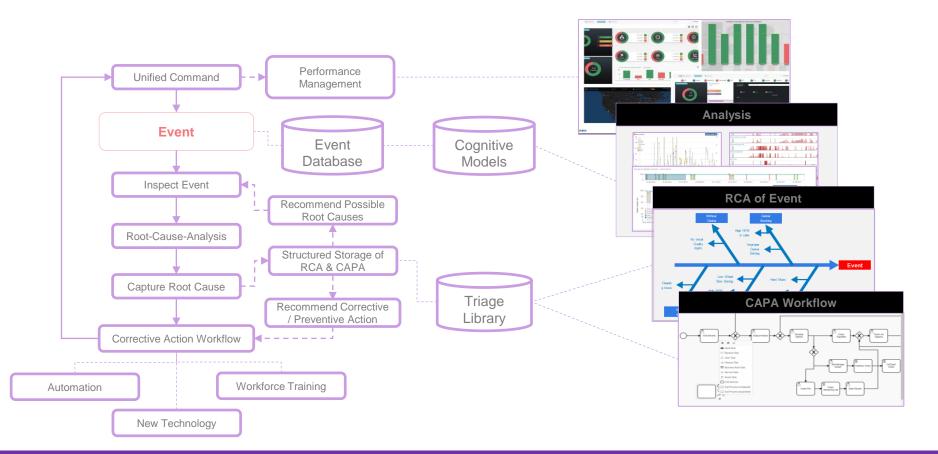
- Faster Responses to adverse events
- Operational Process Streamlining & Optimization
- Digitization of Operations
- Predictive Maintenance
- Transparent access to contextual data, insights, & knowledge

Benefits you can expect

- Increase Equipment OEE and Extend Equipment Life
- Reduce turn-around time of operational processes
- Improve workforce productivity and efficiency

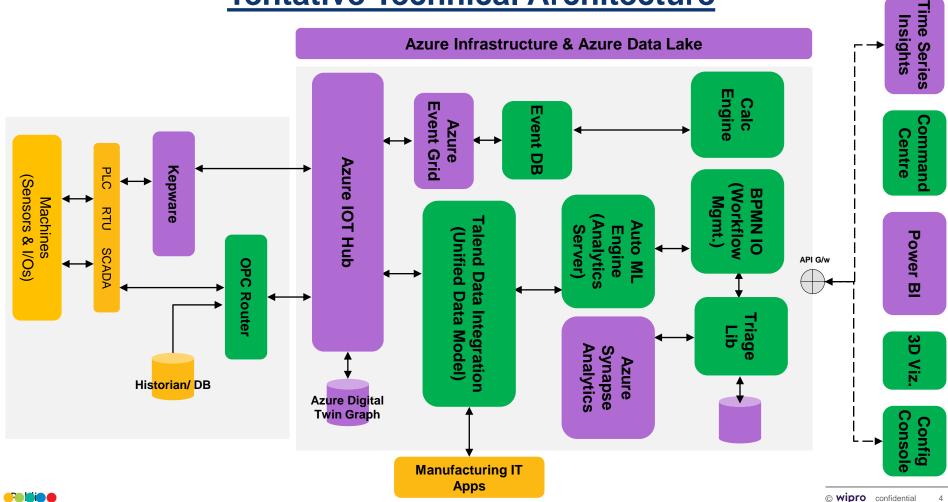
An evolving digital profile of the historical and current behavior of a machine or process

MONITOR > DETECT > INSIGHT > ANALYZE > ACT



Closed Loop Performance Management with Smart-twin

Tentative Technical Architecture

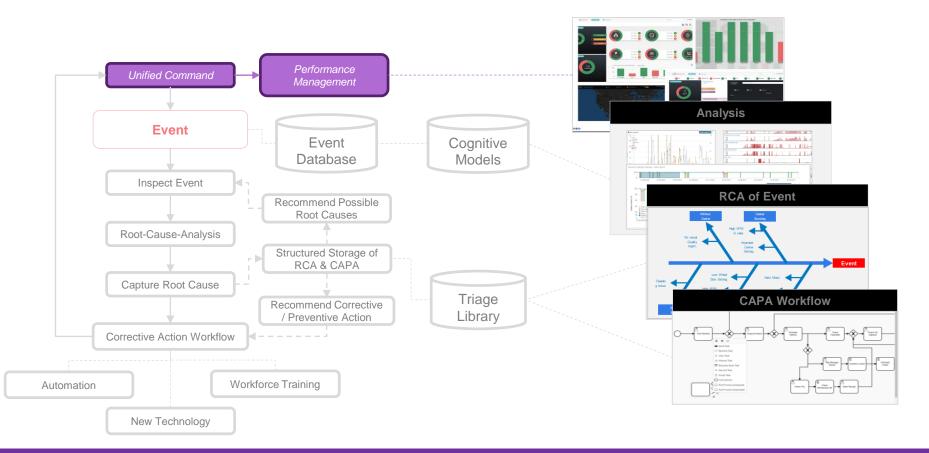


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Closed Loop Performance Management

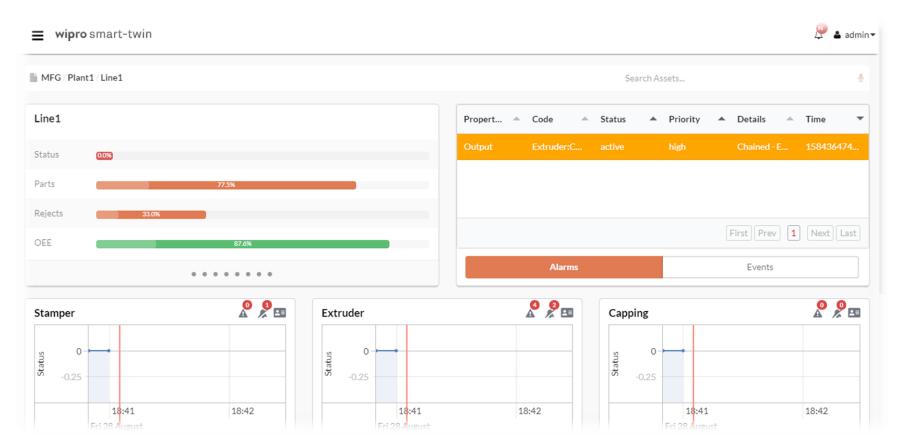


MONITOR



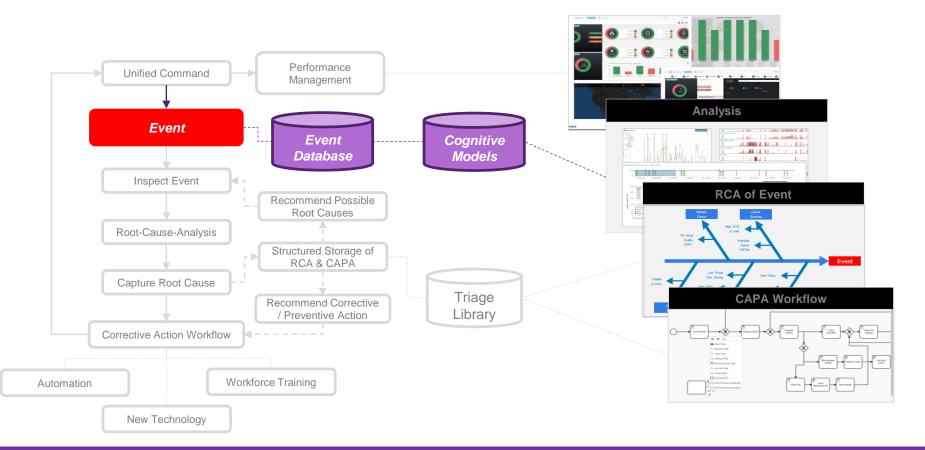
Establish an Integrated Operations Command Center





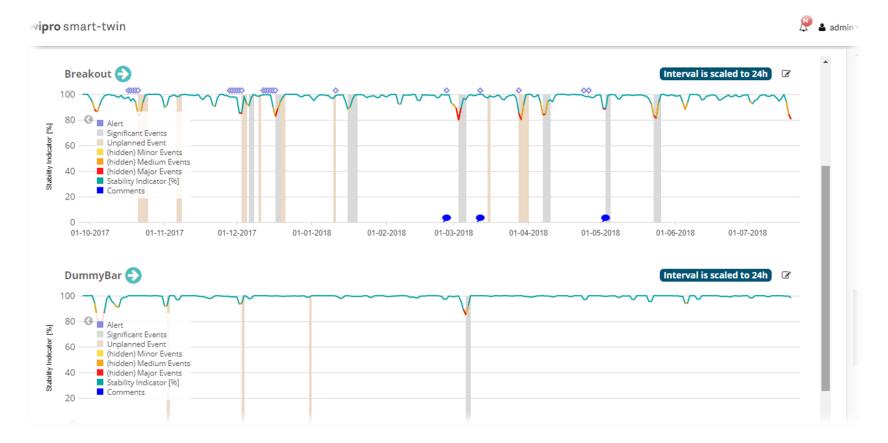
Cognitive dashboards customized to the requirements of different user group





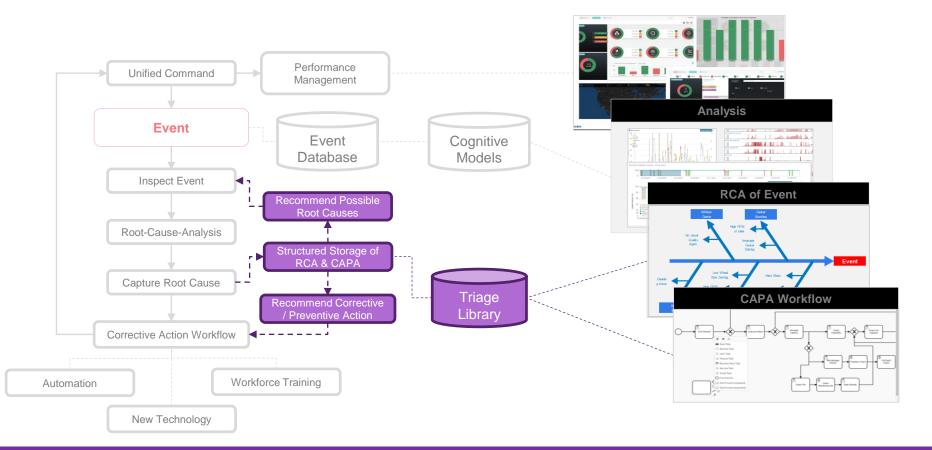
Automated Machine Learning for predictive models at scale





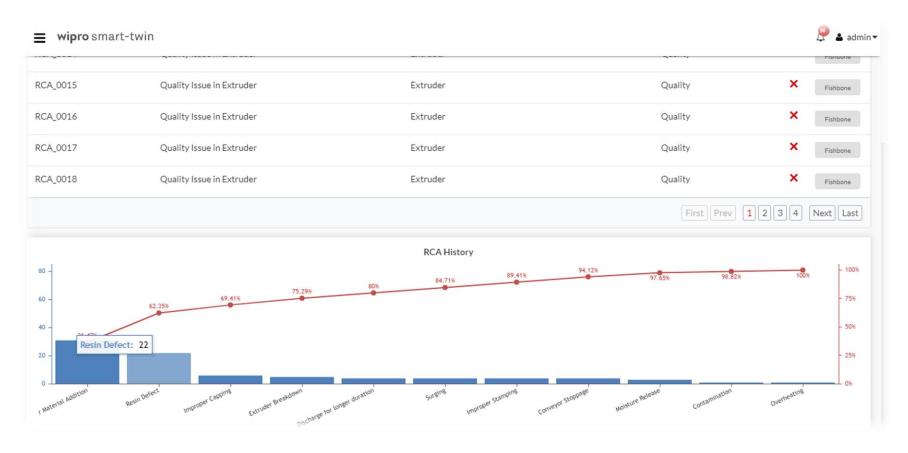
Equipment health & stability indicator built using automated machine learning





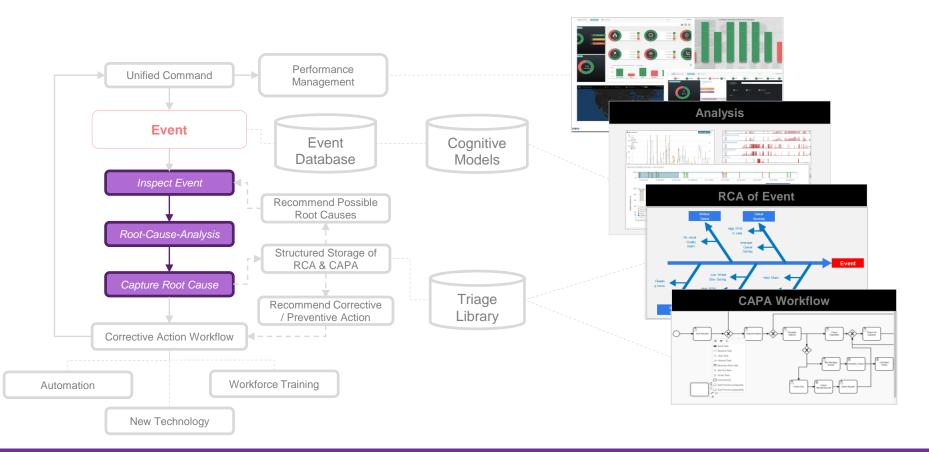
Institute an enterprise wide transparent knowledge-base





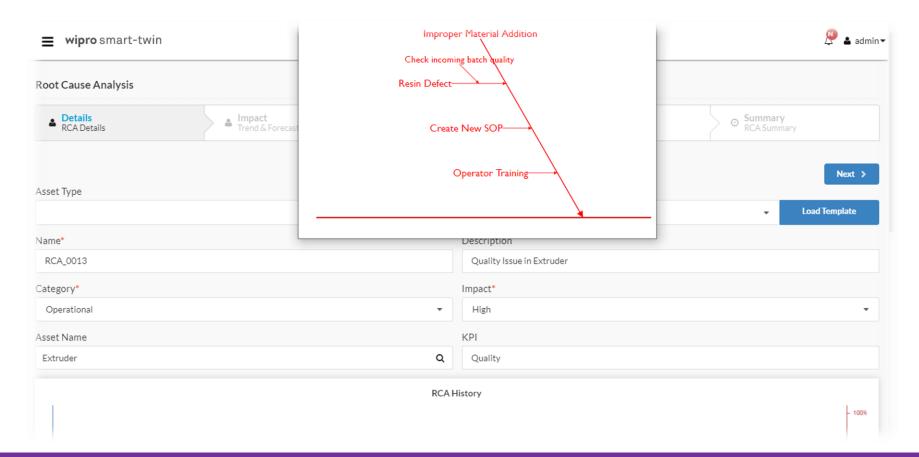
Leverage a library of triages and expert knowledge to troubleshoot events





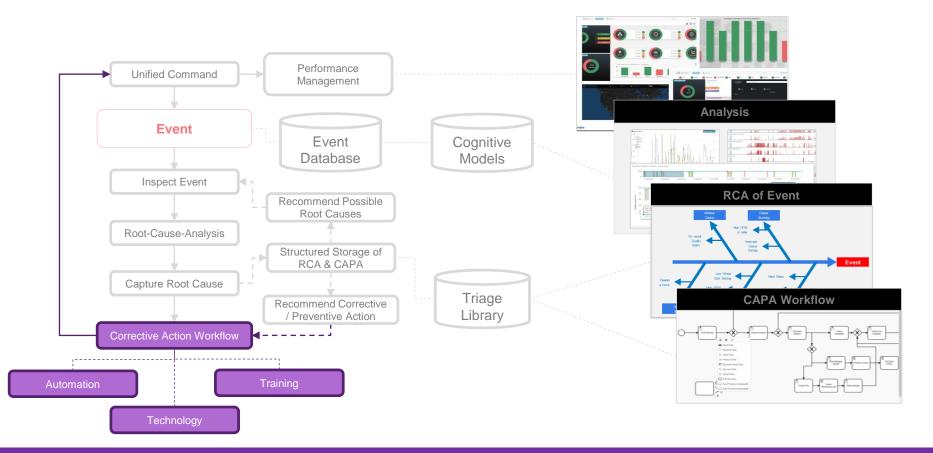
Contextualized real-time data, engineering data and transactional data





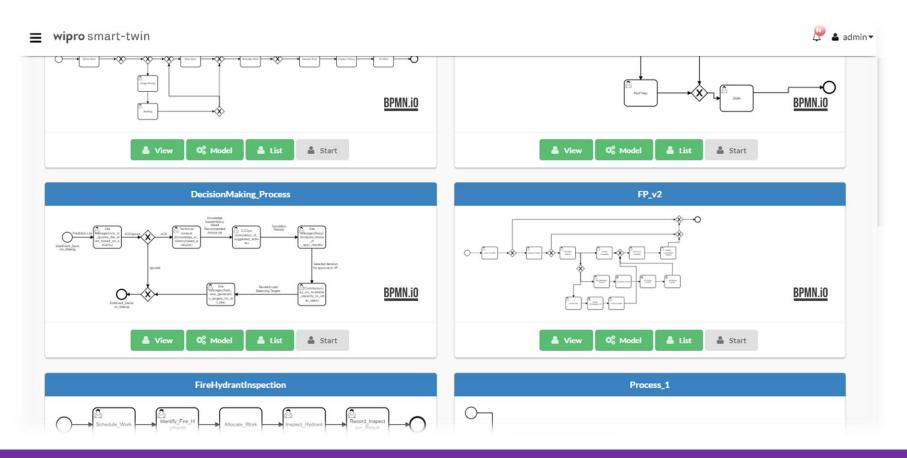
Guided flow to capture root-cause of an event with contextualized data





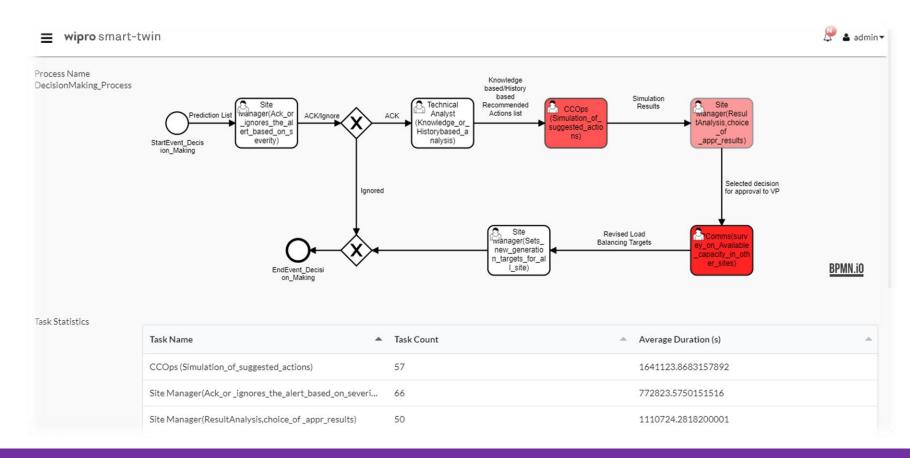
Corrective action/ Preventive action recommendation





Close the performance management loop with an automated workflow





Optimize Operational Processes with insights on Process Bottlenecks



Thank You.

