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# Enabling Proactive and Predictive Maintenance Using PI System

Anurudh Vinayak - Cyanco

**AVEVA**

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# Agenda

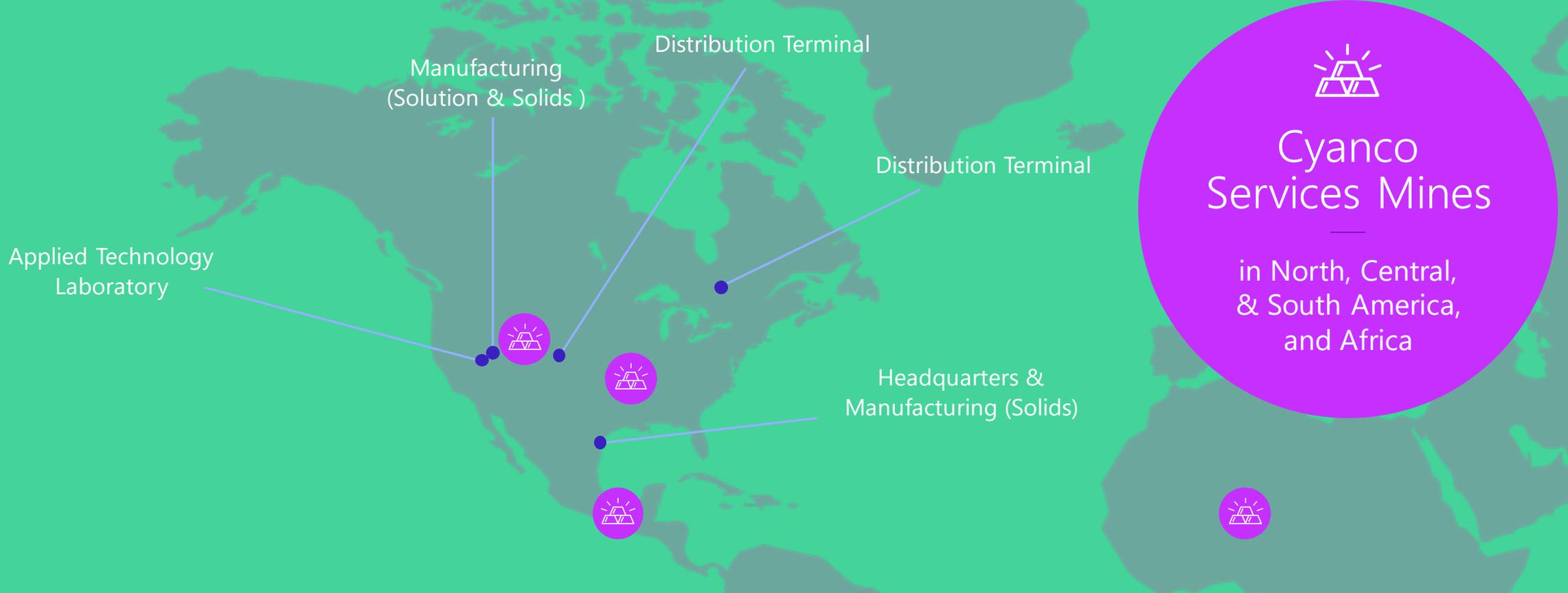
- About Cyanco
- PI System – The Enabler
- How PI System Aligns with Cyanco's Digital Transformation Roadmap
- Cyanco Ecosystem
- Questions

# About Cyanco

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- Cyanco is the global leader in mineral extraction chemicals for the gold and silver mining industries.
- Formed in 1990, Cyanco sells cyanide in both solids and solutions and delivers competitively-priced, quality products and services around the world.
- With manufacturing facilities and distribution terminals located in the heart of key mining regions, Cyanco provides fast, safe and reliable delivery.



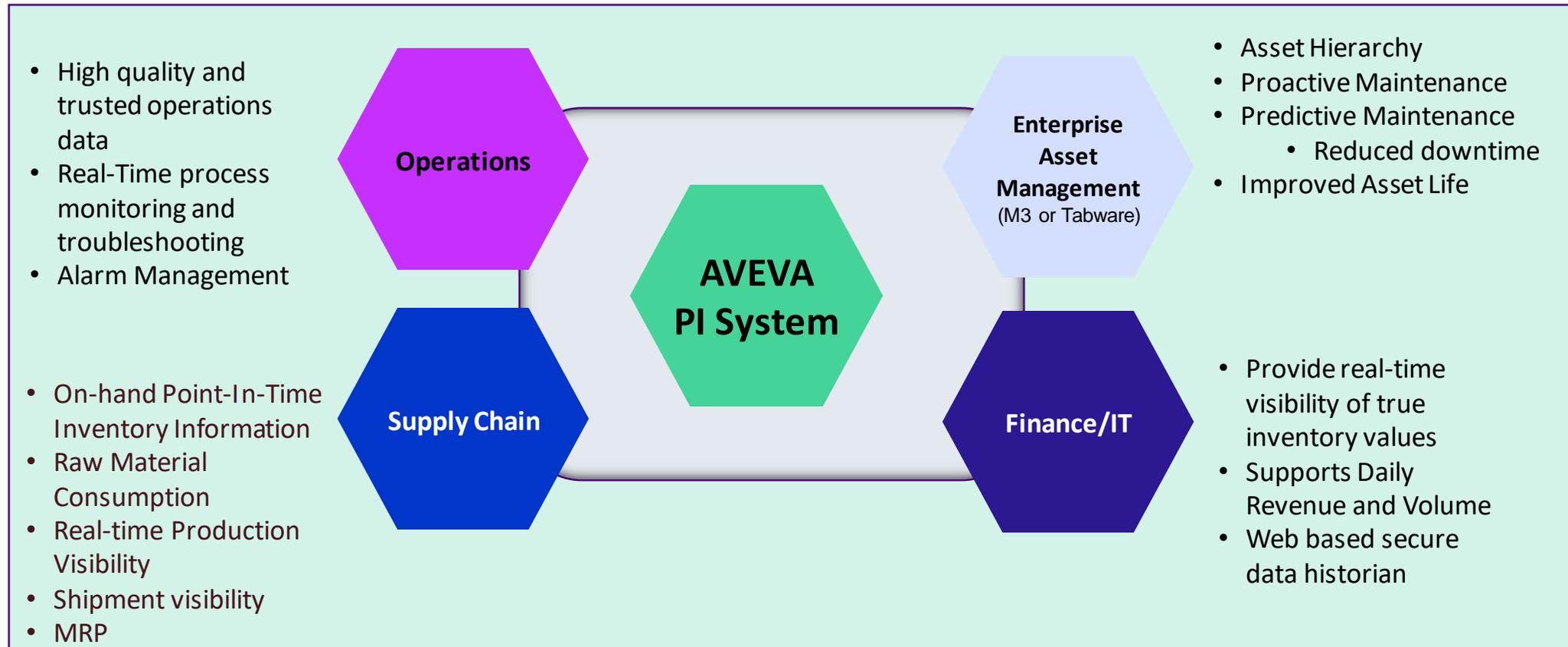


## Logistical advantages for Nevada Mines

- The only Tier 1+ sodium cyanide producer in Nevada
- Large plant capacity is supported by a robust supply chain, delivering cyanide safely and consistently.
- Proximity to customers enables a differentiated, fully-managed service with efficient, just-in-time delivery

# AVEVA PI System – The Enabler

- Moved from Legacy historian to AVEVA PI System
- Project started on Jan 18<sup>th</sup> and went live on March 1<sup>st</sup>
- PI System is critical to Cyanco and plays a pivot role supporting all business functions



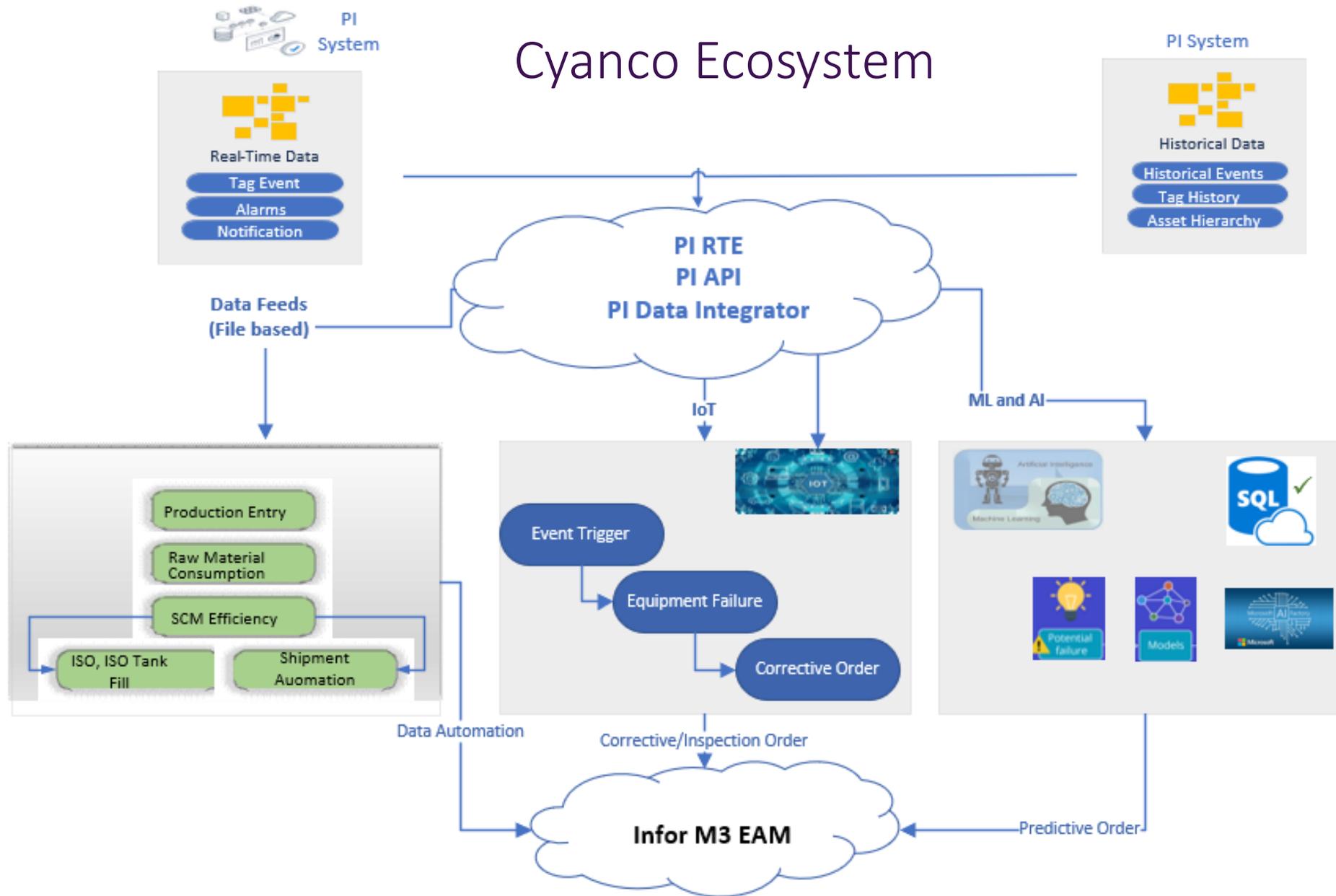
# How PI System Aligns with Cyanco's Digital Transformation Roadmap

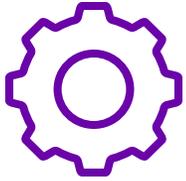
- PI System has helped Cyanco start digital journey and embark on digital transformation and move to IoT, ML, AI and Automation. It is the key driver that has helped us move provided insight on raw material and production and now will be enabling Cyanco to forecast and predict maintenance related breakdowns and cost

- Real-Time Data Processing
  - Inventory, Raw Material. Environmental
- Automated Data Feeds to DW
  - Better Data -> Better Reporting
- Automated Order Processing

- Proactive/Inspective Maintenance
- Predictive Maintenance
- Asset Tracking
- Alarm Monitoring
  - Real-Time Event
    - Equipment Failure
    - Environmental Alarms

# Cyanco Ecosystem





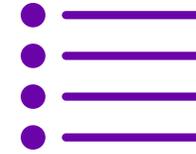
## Challenge

- Technology stack not supporting Cyanco's vision and digital journey
- No-real time visibility into Plant health and operations
- Increasing cost of Plant maintenance
- Lack of visibility to production and raw material consumptions



## Solution

- Implemented AVEVA PI System technology including PI AF and PI Vision to server as a foundation for Cyanco's digital transformation
- Moved to a web based tool to provide plant health and productivity anytime and anywhere
- Implemented PI Notifications to provide insight of real-time events



## Benefits

- Real-time visibility to plant operations and health by utilizing PI Vision dashboard
- Foundation for Proactive (PI Notification) and Predictive Maintenance (PI Data Integrator)
- Provided real-time visibility into Production and Raw Material consumption and cost
- Helped forecasting raw material usages



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# Questions?

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State your name and company.



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Navigate to this session in the mobile app to complete the survey.



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