PROMETHEUS GROUP EUROPEAN | USER CONFERENCE

Asset Performance Management

How does it actually work?

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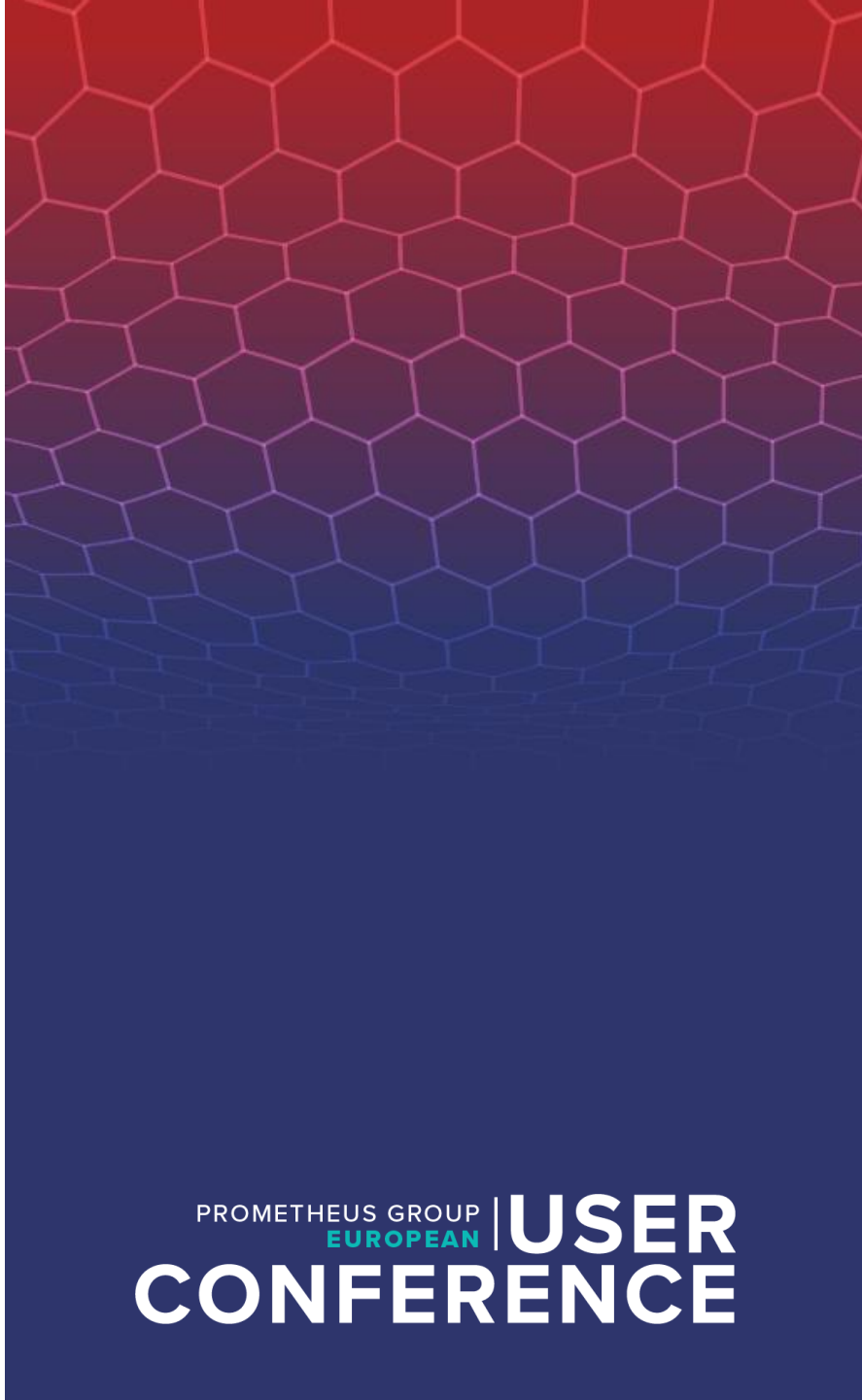
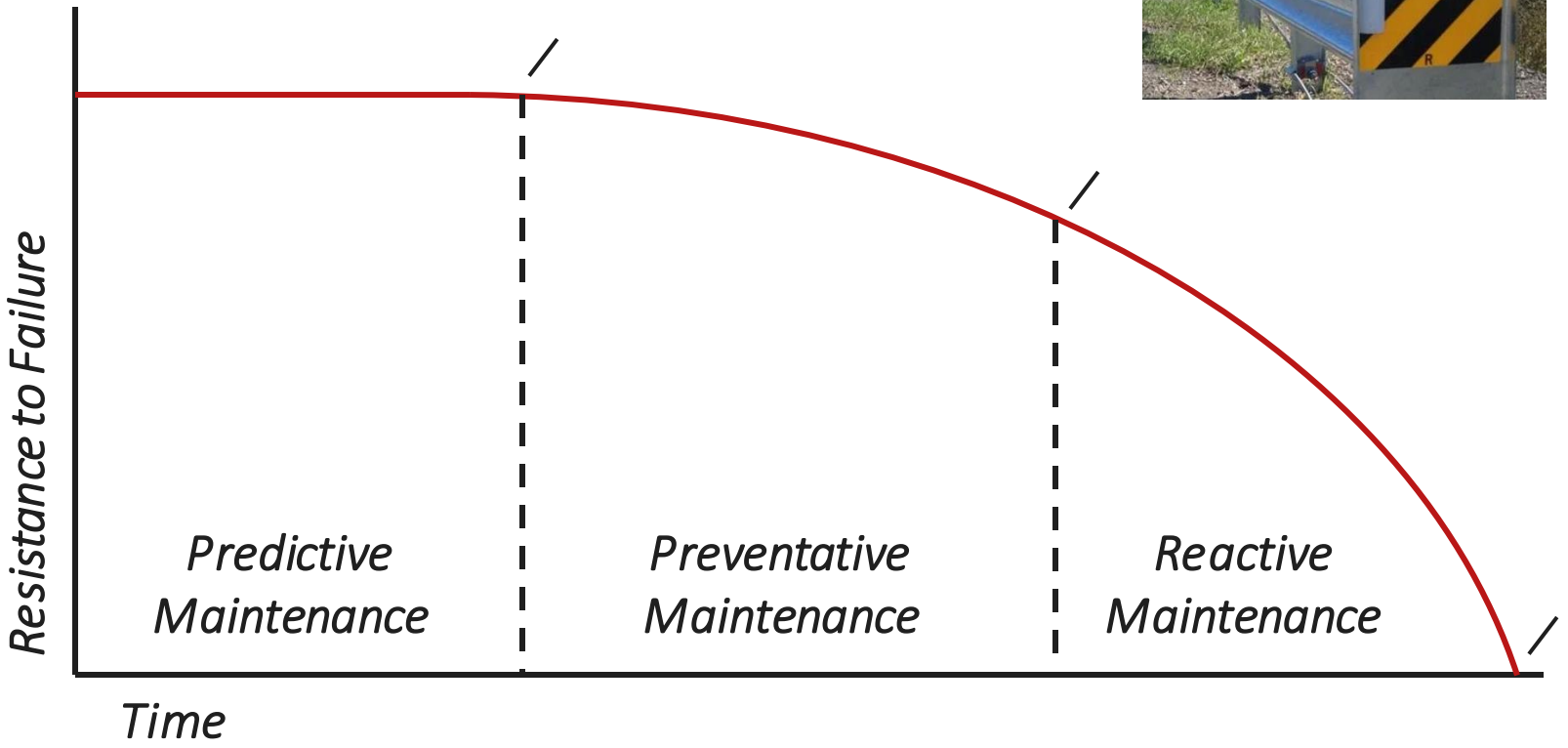
Agenda

- The APM Value
- Data Science + Asset Expertise
- The Prometheus APM Difference
- People + Process + Technology
- Prometheus APM In Action (Deep Dive)
- Q&A



Asset Performance Management Intro



Just Build Some Data Science Models…

Modeling Process	Identify the Problem	Collect the Data	Clean the Data	Select the Features	Select the Model Type	Deploy and Alert
Traditional Approach	Only critical assets and critical failure modes	Op expert determines inputs	Visual inspection of long-term trends	Correlation matrices and scatter plots	Experiment	Manually determine sensitivity
Automated Approach	Library of Failure Modes for all assets and systems	Templates select appropriate inputs	Use Rules to Clean the Data	Correlation scoring of all combinations of inputs	Scoring algorithm to determine best math type	Relative Alerting Logic with multiple time horizons

How it Works

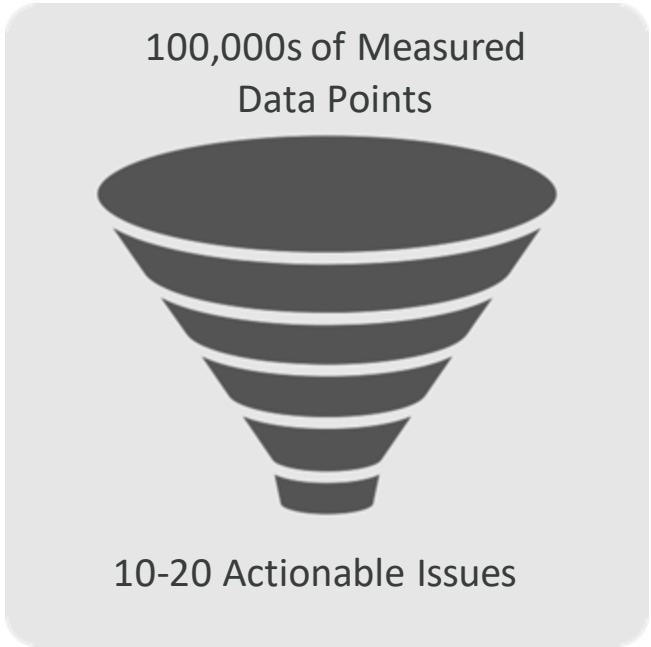
The Prometheus APM Solution reduces massive amounts of operating data to a few actionable issues

Connect

Detect

Diagnose

Resolve



Why Prometheus APM

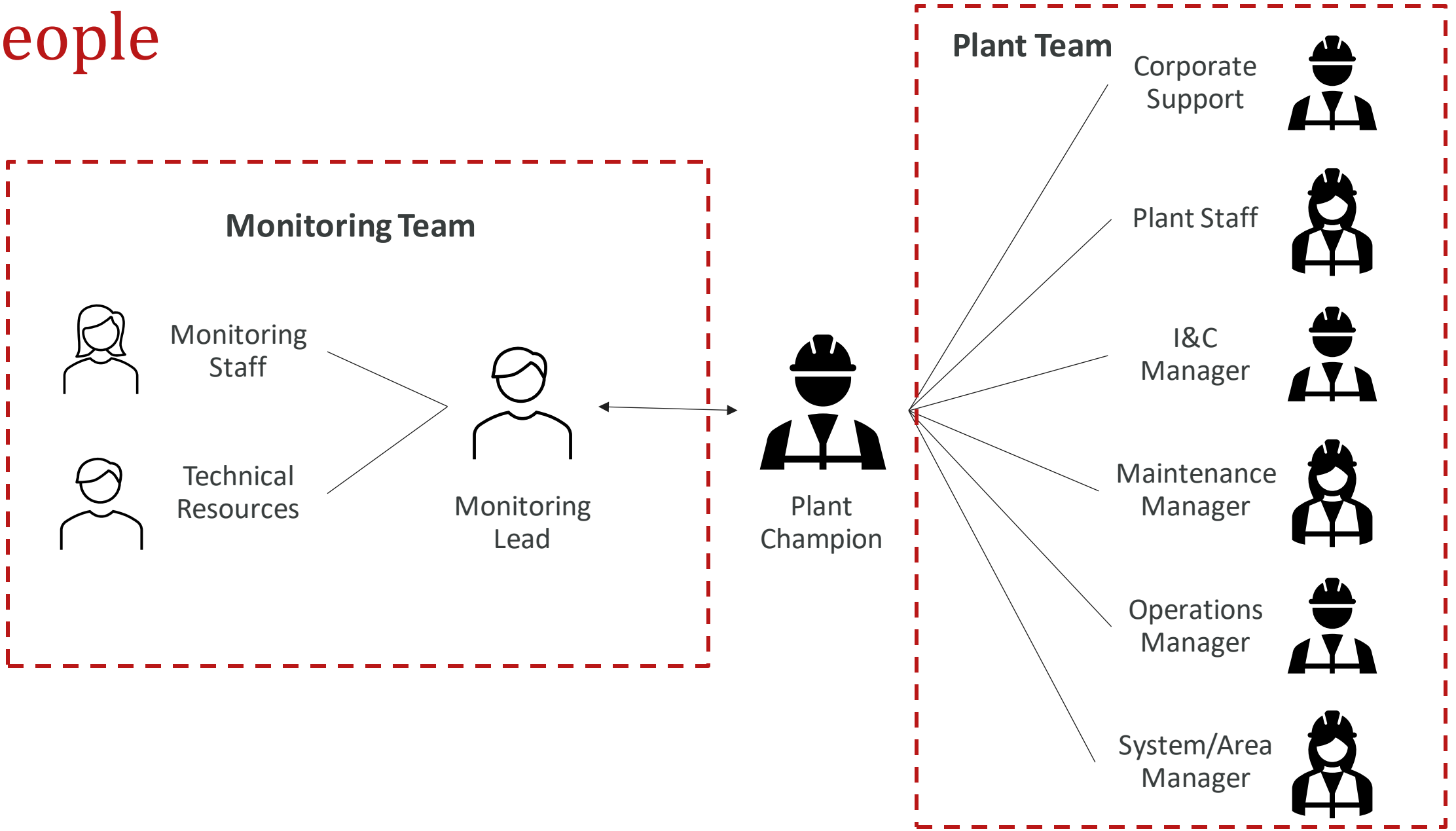
We drive action with a Detect, Diagnose, and Resolve process.

No-code model configuration makes complex math simple for asset experts.

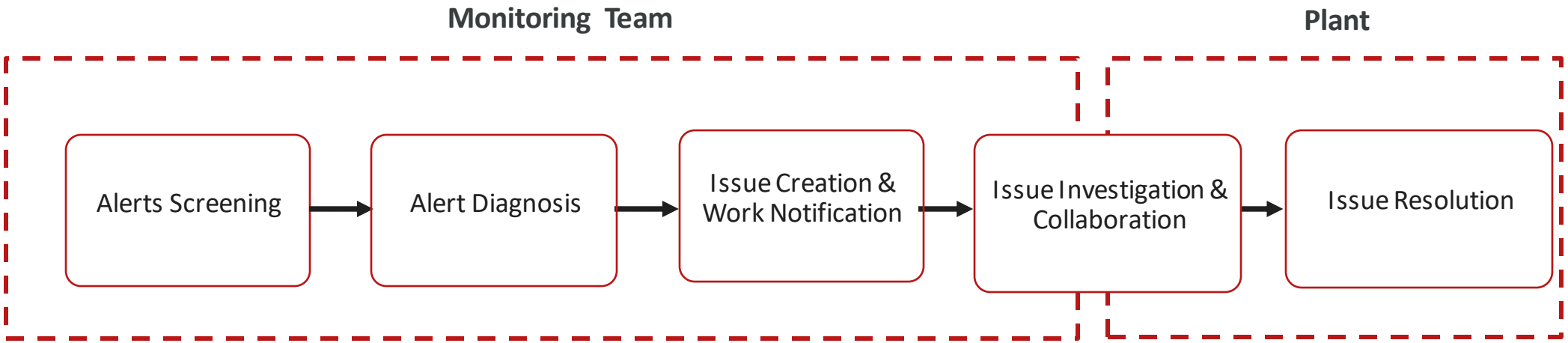
In-product domain expertise provides performance insight and rapid diagnosis.

Our software is much faster to implement than the competition.

People


Monitoring Team
Monitoring Staff
Technical Resources
Monitoring Lead
Plant Champion
Plant Team
Corporate Support
Plant Staff
I&C Manager
Maintenance Manager
Operations Manager
System/Area Manager

Process


Monitoring Team
Plant
Alerts Screening
Alert Diagnosis
Issue Creation & Work Notification
Issue Investigation & Collaboration
Issue Resolution
Detect
Diagnose
Resolve

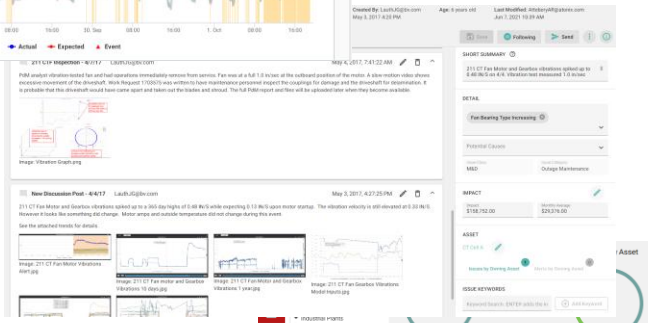
Technology

Model Configuration

- Previous 1 year of process data backfilled in PG APM Platform
- Prometheus APM Process Engineers configure all plant ML Models across process + reliability + performance

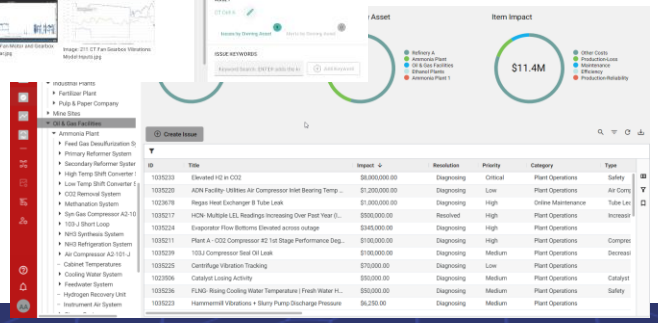
Alerts

- Common aggregated alert screening environment to manage model screening at scale
- Embedded diagnostics guide asset expert to potential root cause before escalation to operations and maintenance



Resolve- Issue + Work Notification

- Low to no burden engagement model with plant + integration into SAP + full issue lifecycle management



Resolve- Summary

- Aggregated Issue Summary + ROI Calculator
- Automatically builds the business case

Prometheus APM In Action

Questions?

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