# Power Up Your Reliability Centered Maintenance with IIoT

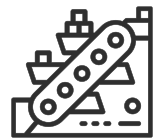**February 23, 2021**

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# Prometheus Group

- Founded in 1998
- Headquartered in Raleigh, NC, USA
- 13 global offices
- Integrated and intuitive software
- Partnerships with industry leading companies
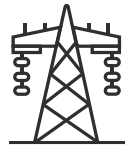
**TOP 8**
Oil & Gas

**TOP 7**
Mining & Metals

**TOP 7**
Pulp & Paper

**TOP 6**
Chemical

**TOP 6**
Utilities

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SAP® Certified
Integration with SAP S/4HANA®

SAP Partner

ORACLE Gold Partner

IBM Business Partner

# Key Customers

# The Prometheus Platform



- Planning & Scheduling
- Master Data Governance
- Shutdown, Turnaround & Outage
- Contractor Management
- Mobility
- Permitting & Safety
- Reporting & Analytics

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# Reliability Centered Maintenance

An analytical approach to establishing a strategy that drives maintenance excellence

- Keep assets reliable and operating
- Continuous learning
- Conditional based actions
- Optimize maintenance programs



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# Where is Asset Management Going

- Reduce
  - Paper-based processes
  - Solely calendar-based cycles
  - Manual readings and alerts
- Digitized and actionable asset information
- Connected systems
- Reliability centered maintenance strategies
  - Analytics
  - Initiatives

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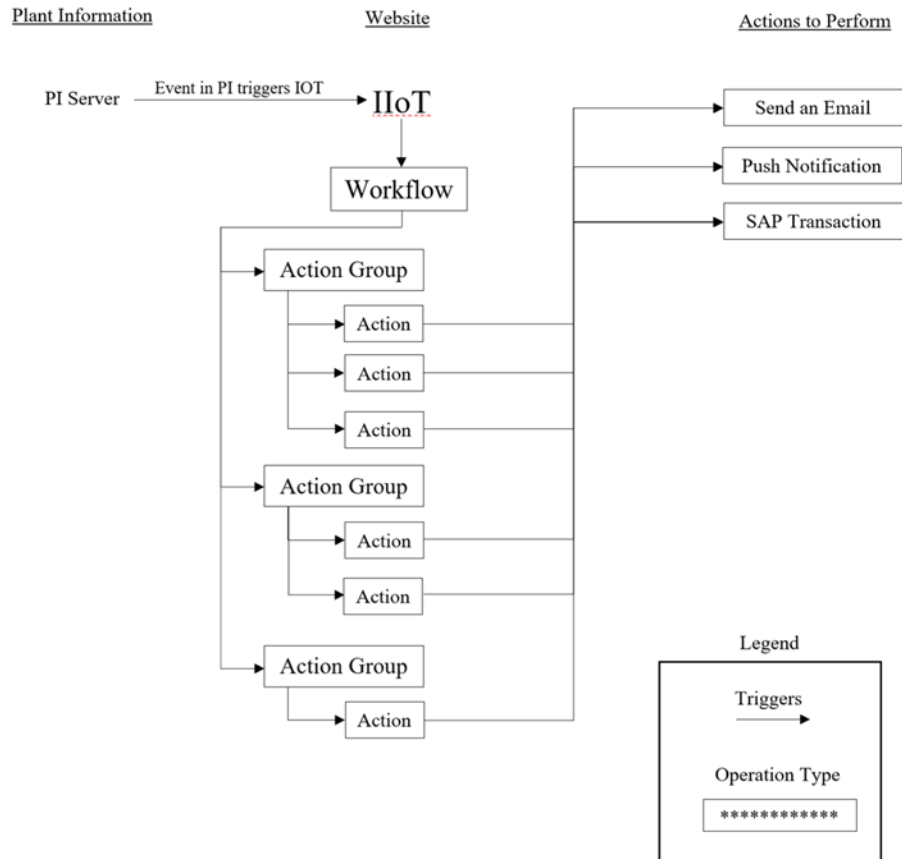
# Asset Management in a Digital Age

- The Digital Transformation Includes:
  - Data historians
  - Integrated meters
  - Connected systems
- This is a huge undertaking
- No need to be intimidated
- Prometheus IIoT facilitates the transition
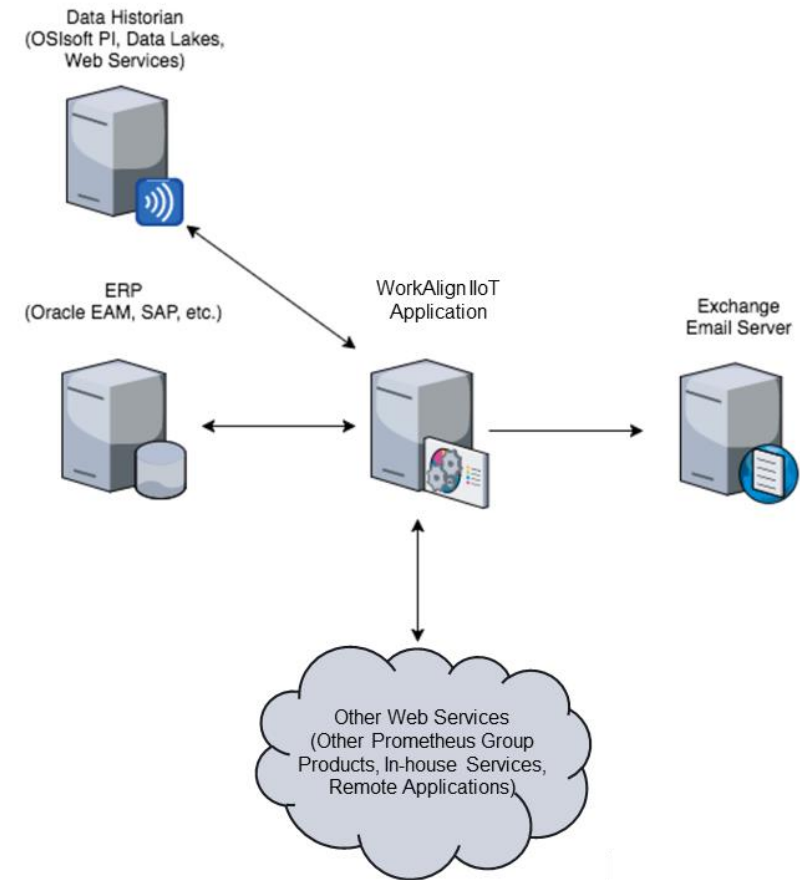  - Enabling data flow and communication



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# Next Level RCM with IIoT

- Immediate feedback
- Triggering actions based on:
  - Reliability-centered thresholds
  - Conditions
  - Events
- Configurable actions and workflows
- Links Operations and Maintenance

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# High Level Architecture

# Demonstration

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# The Impact of Automation

- Avoid missed observations
- Automation of data flow is more than one dimensional i.e., notifications
  - Bi-directional
  - Multiple sources of data
- Automated actions created around RCM principles, business rules, conditions, etc.
- PM Enablement
- Predictive Maintenance

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# PM Enablement with IIoT

- Trigger the next Preventive Maintenance occurrence

- Complex workflows

- Templated actions

- Conditional maintenance

- True PM Enablement with Prometheus goes beyond triggering the next occurrence

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# IIoT Across the Platform

- PM Enablement managed by PMM
- Rounds for conditions and inspections
- Analytics
  - RCM Analysis
  - PM Optimization Analysis
  - Predictive Maintenance Analysis
  - Industry Best Practice
- Entire Prometheus Platform

# The Big Picture

- Conditional feedback impacting PM
  - Predictive factors
  - Lowers threshold
  - Machine learning
- In order to avoid a breakdown, the next PM is triggered
- Operations or technician's feedback impacts the PM frequency
- Conditional feedback can prompt other actions

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# Demonstration

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# Control Your Process with IIoT

- Maximize your smart technology

- Respond to RCM lessons and incorporate them into your process

- Automate your process

- PM Enablement

- Connect systems; data historian and CMMS

- Connect teams; Operations and Maintenance

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# Questions?

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Thank you

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