



# **Putting Performance in Context**

## Keys to Closing The Performance Gap

Maureen Coveney, OSISOFT  
Todd Spencer, SmartSignal  
Michael Saucier, Transpara

# Today's Presentation

- Maureen Coveney
  - Putting Performance in Context, building on the OSIsoft Platform
- Todd Spencer
  - EPI\*Center Early Warning, turning intelligence into action
- Michael Saucier
  - Mobile KPI Alerting, keeping the boss in the know

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# What Happens When Equipment Fails to Perform?

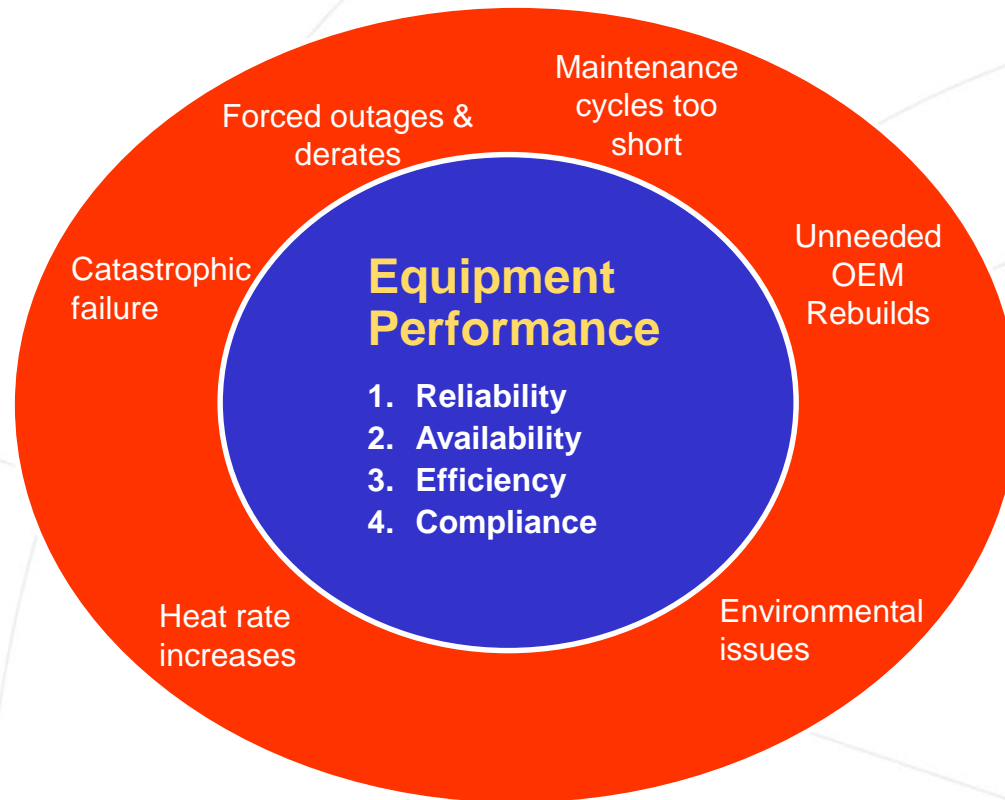
## Equipment Performance

1. Reliability
2. Availability
3. Efficiency
4. Compliance

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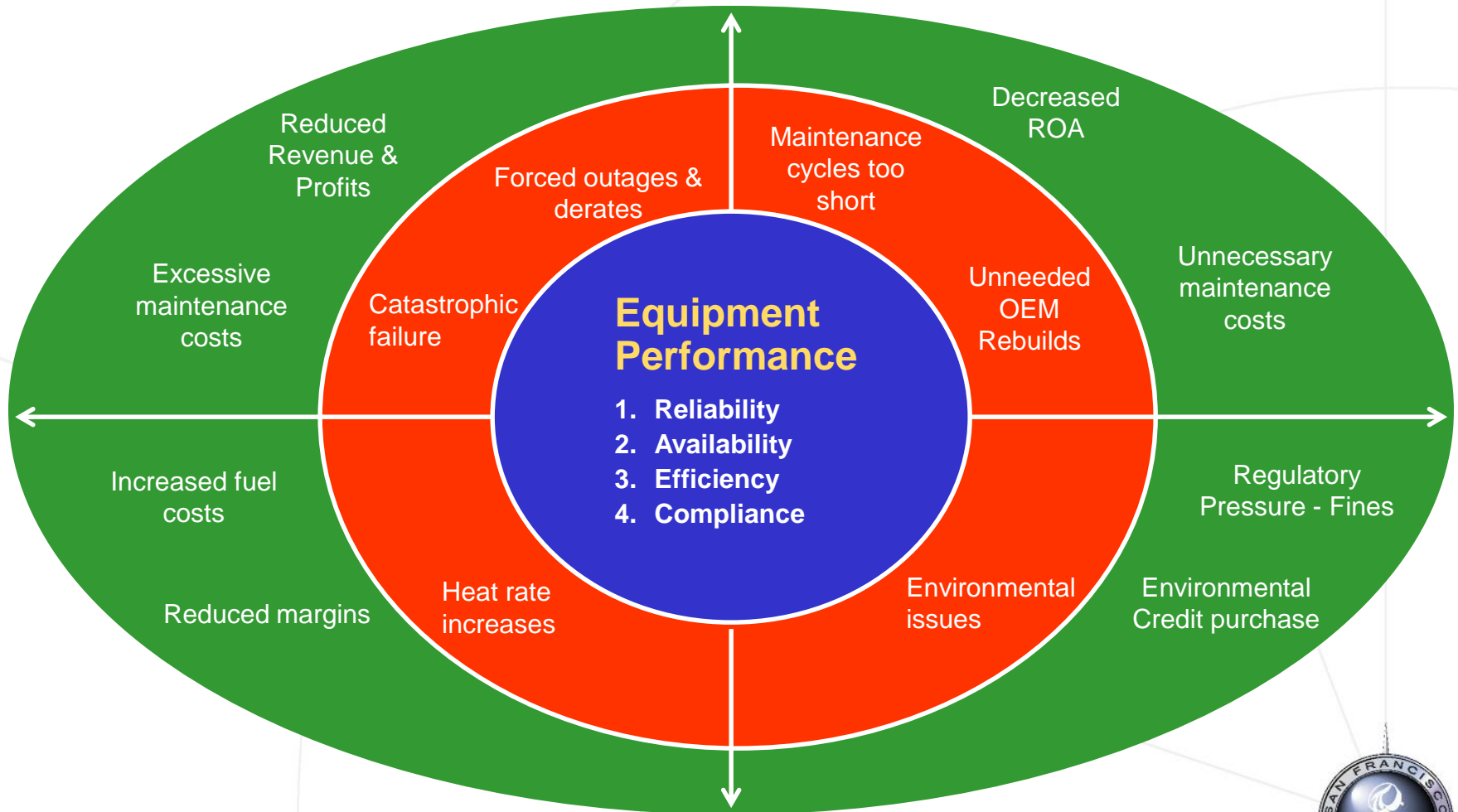
# What Happens When Equipment Fails to Perform?



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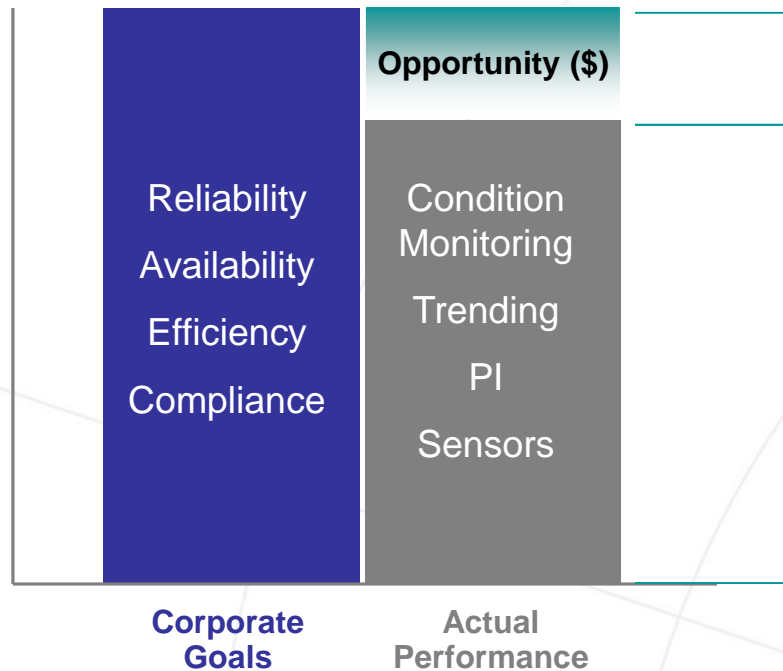
# What Happens When Equipment Fails to Perform?



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# The Performance Gap



**...but there is still more benefit to realize!**

**Best practices take you a good portion of the way...**

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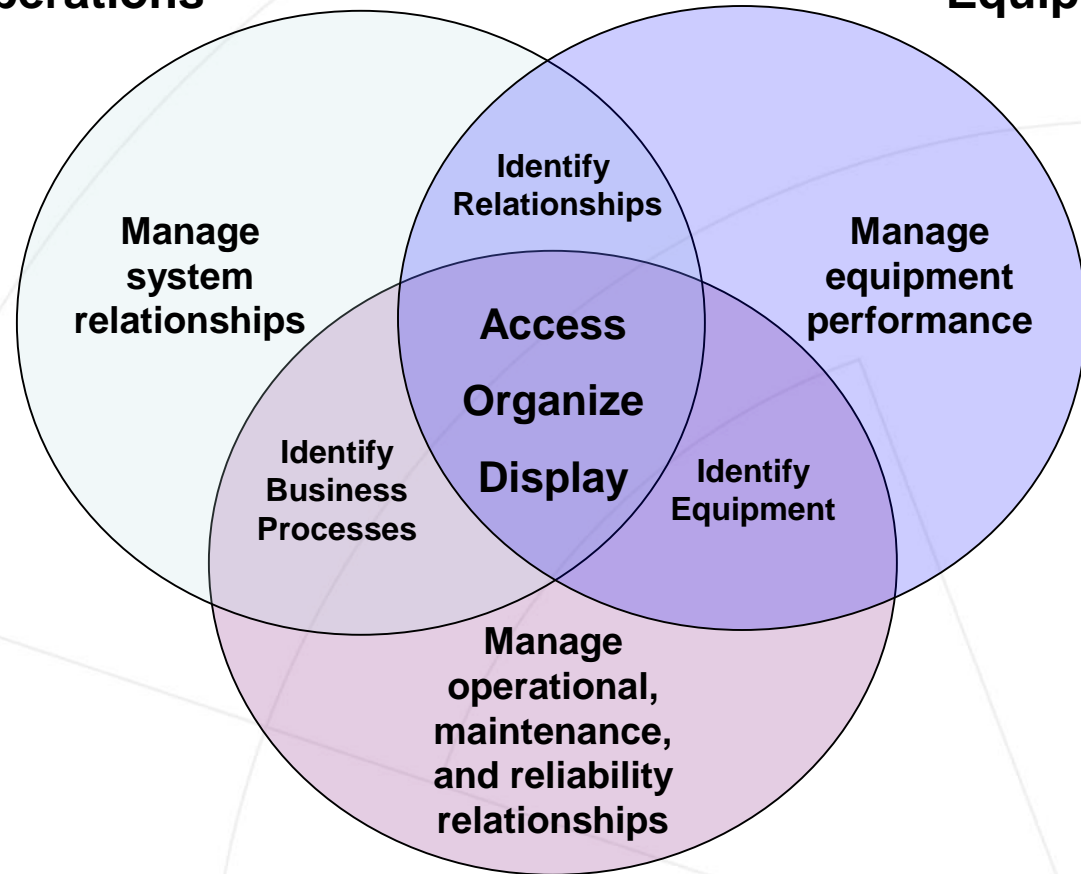


# Meeting the Challenge



**Operations**

**Equipment**



**Enterprise**

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# Scenario in Action...

- *Setting* - “True to life” industrial operation
- *Characters*
  - Bob – Operations Analyst
  - Marla – Component Health Expert
  - Tyler – Plant Manager
- *Scenario* - early warning systems detect potential failure communicated to the characters throughout the organization
- ...*let us see what happens...*

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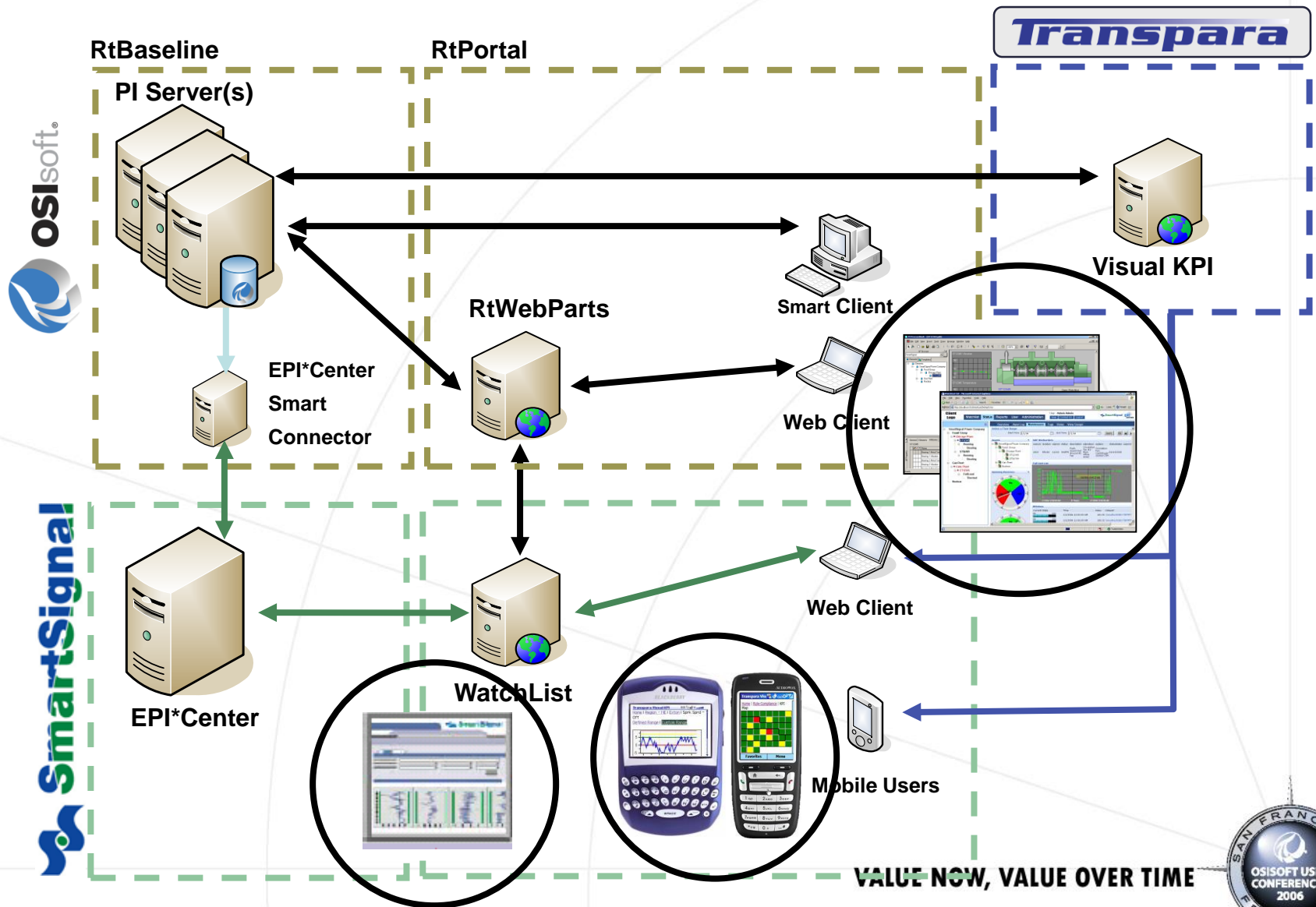
# What You Saw

- The OSIsoft Platform supplies the sensory data and drill down for additional analysis
- To this we add the power of EPI\*Center early warning and Transpara KPI monitoring, both of which leverage key OSIsoft Platform components

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# Performance in Context: Solution Architecture



# Enabling Infrastructure

- EPI\*Center leverages
  - PI
  - Analysis Framework
  - SmartSignal  
SmartConnector
  - ProcessBook
  - RtWebParts
- Visual KPI leverages
  - PI
  - Module Database
  - PEs, AF, ACE calcs
  - SDK

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# Putting Performance in Context

- ...is as simple as
  - Importing an asset structure into AF and remaining synchronized with the system of record
  - Configuring asset attributes
  - Organizing process objects
  - Defining and configuring role-based information views and KPIs

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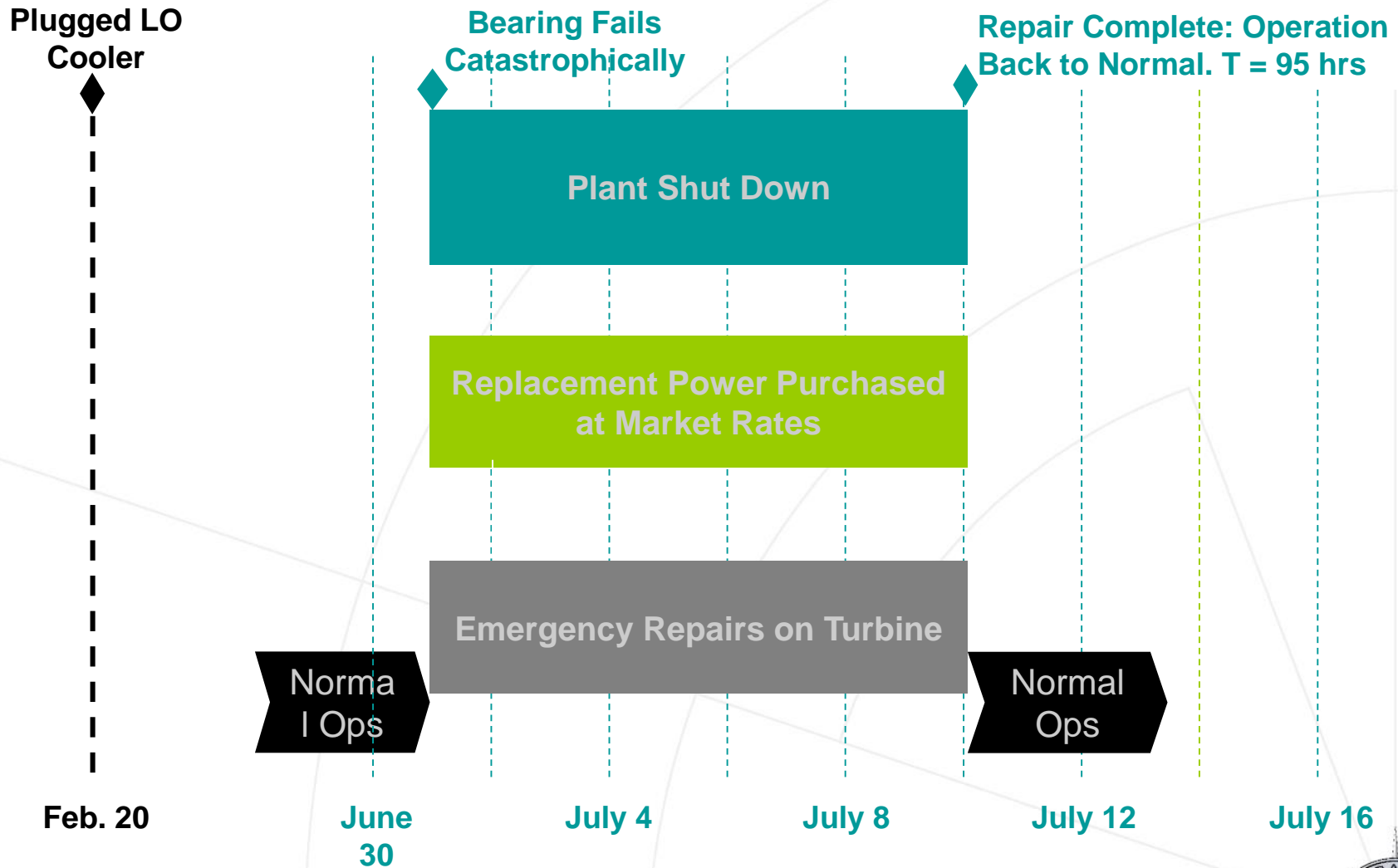
# Platform Roadmap Concepts at Work

- Simple
  - User experience is configuration-oriented, intuitive (drag and drop for process views), role-based
- Enterprise Aware
  - SmartConnector ensures synchronization with Enterprise systems of record
  - Easy to deploy and manage
- Highly Available
  - Context fidelity is ensured through replicated data sets

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# Failure Scenario: No Early Warning



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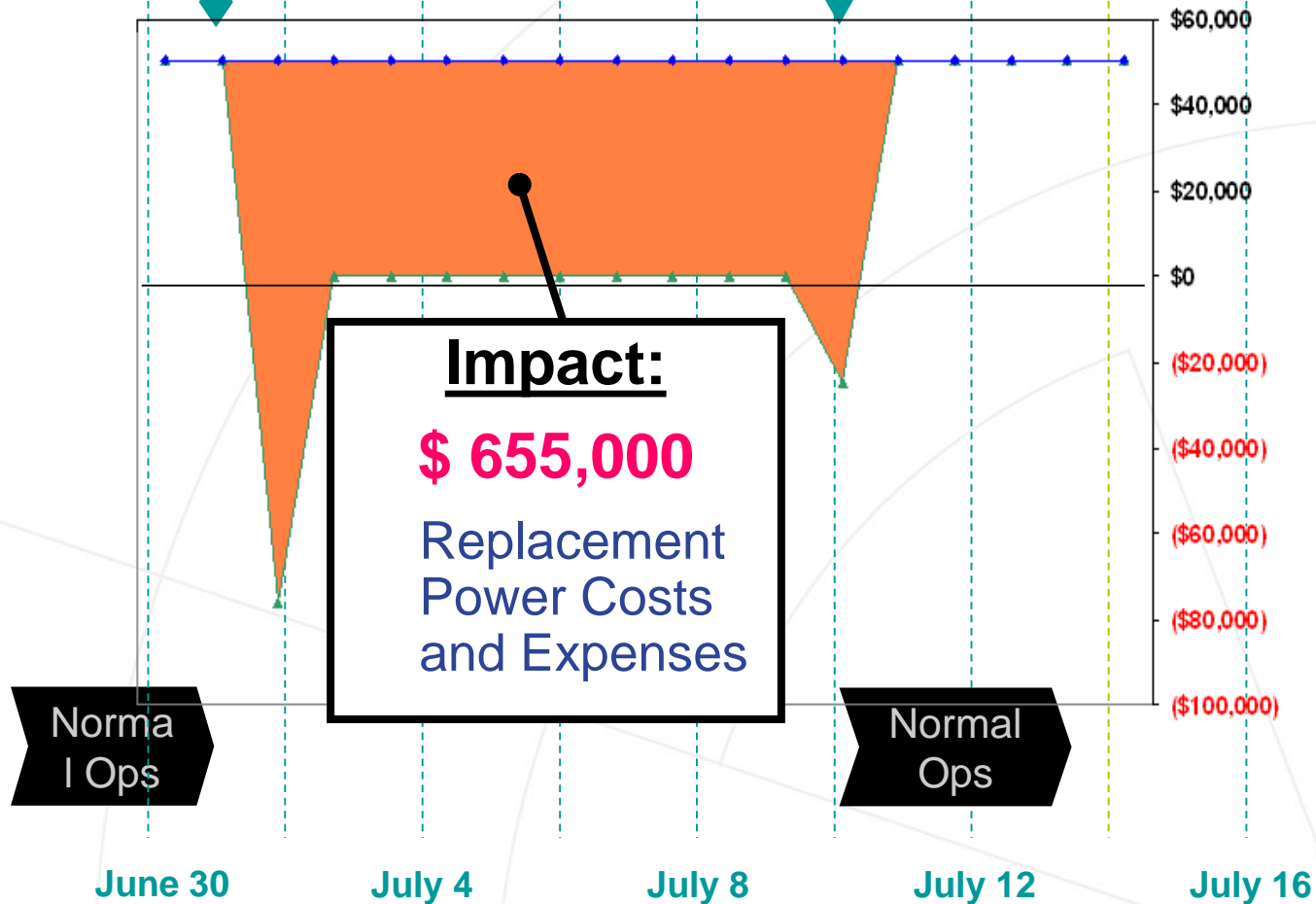


# Failure Scenario (\$): No Early Warning

Plugged LO  
Cooler

Bearing Fails  
Catastrophically

Repair Complete:  
Operation Back to Normal



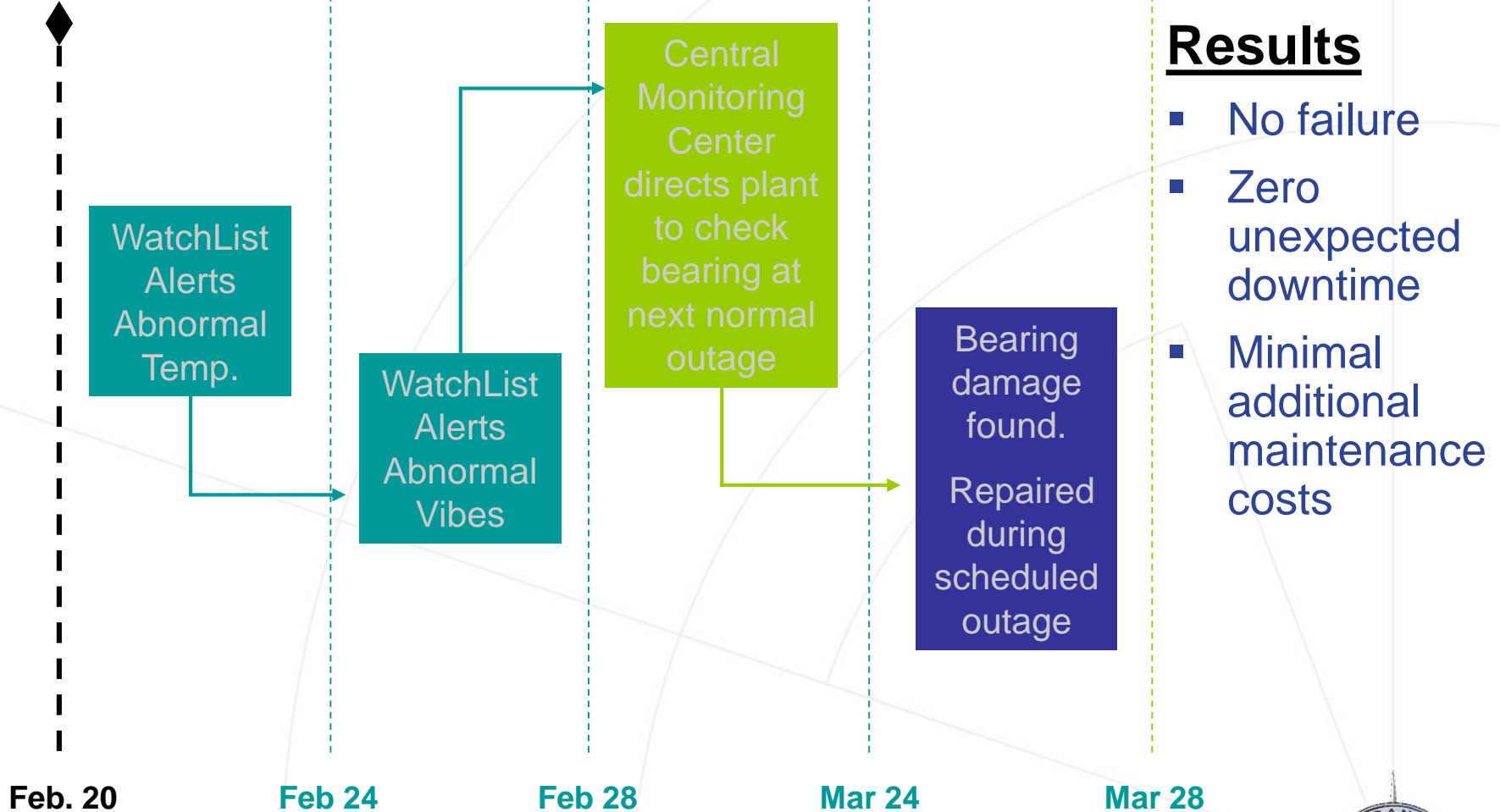
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# Result of Real-time Performance Management

Plugged LO  
Cooler



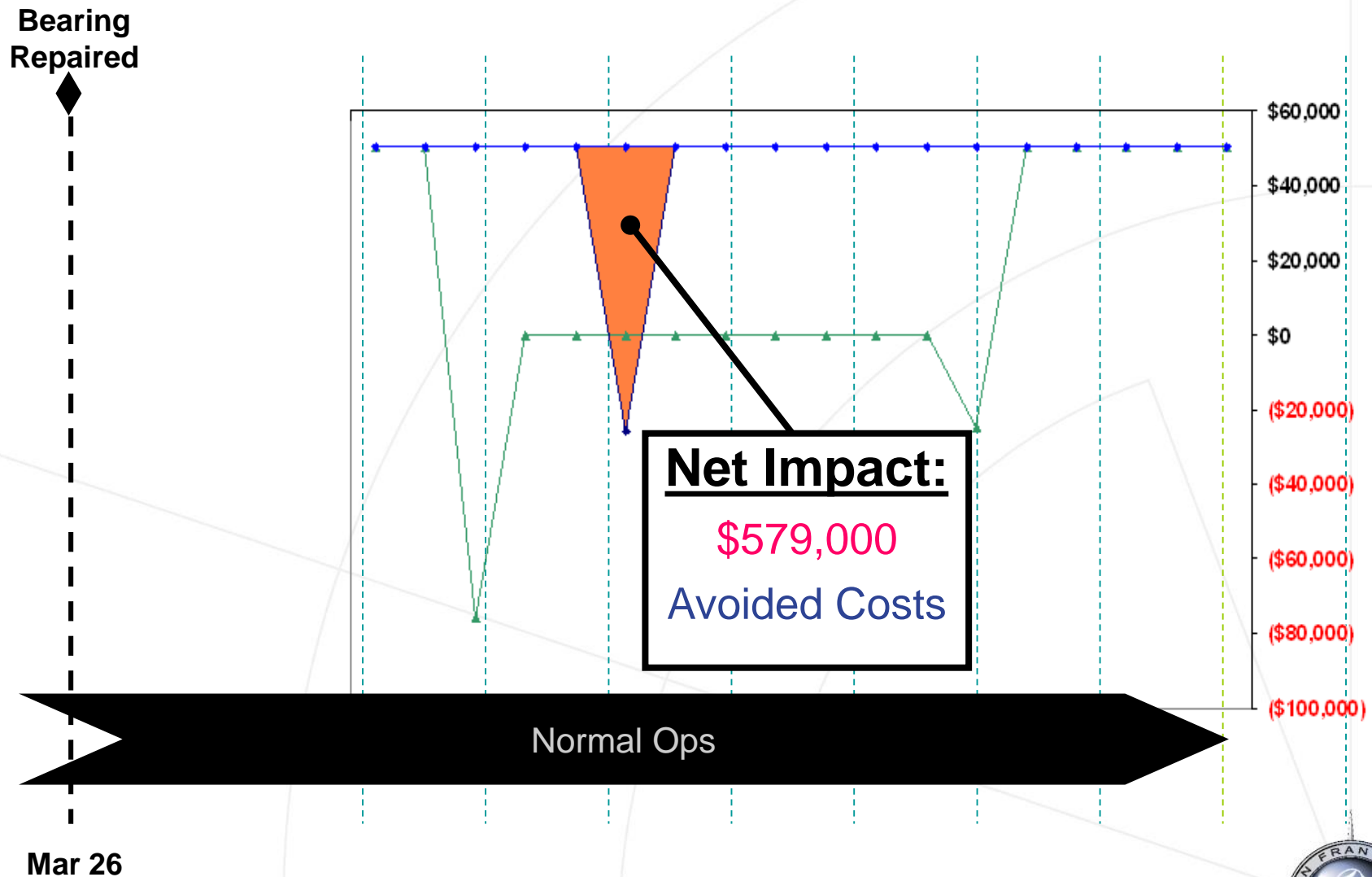
## Results

- No failure
- Zero unexpected downtime
- Minimal additional maintenance costs

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# Failure Scenario (\$): With Early Warning



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# Putting Performance in Context

- Moves an industrial operation from *reactive* to *proactive*, increasing effectiveness and minimizing manpower and material costs
- Extends benefits throughout the organization
  - Process Optimization, Dispatching, Trading
- “Builds upon the Foundation, *leveraging your investment in PI*”

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# For More Information

- Visit SmartSignal's exhibit pod
- Visit Transpara's exhibit pod
- Experience Analysis Framework, iViews, and RtWebParts at the Learning Lab
- Attend sessions on Wednesday
  - Foundation, 1:00 pm
  - iViews, 10:00 am
  - RtWebParts, 2:00 pm
- Visit OSIsoft Developers at the Product Expo

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# Questions?

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