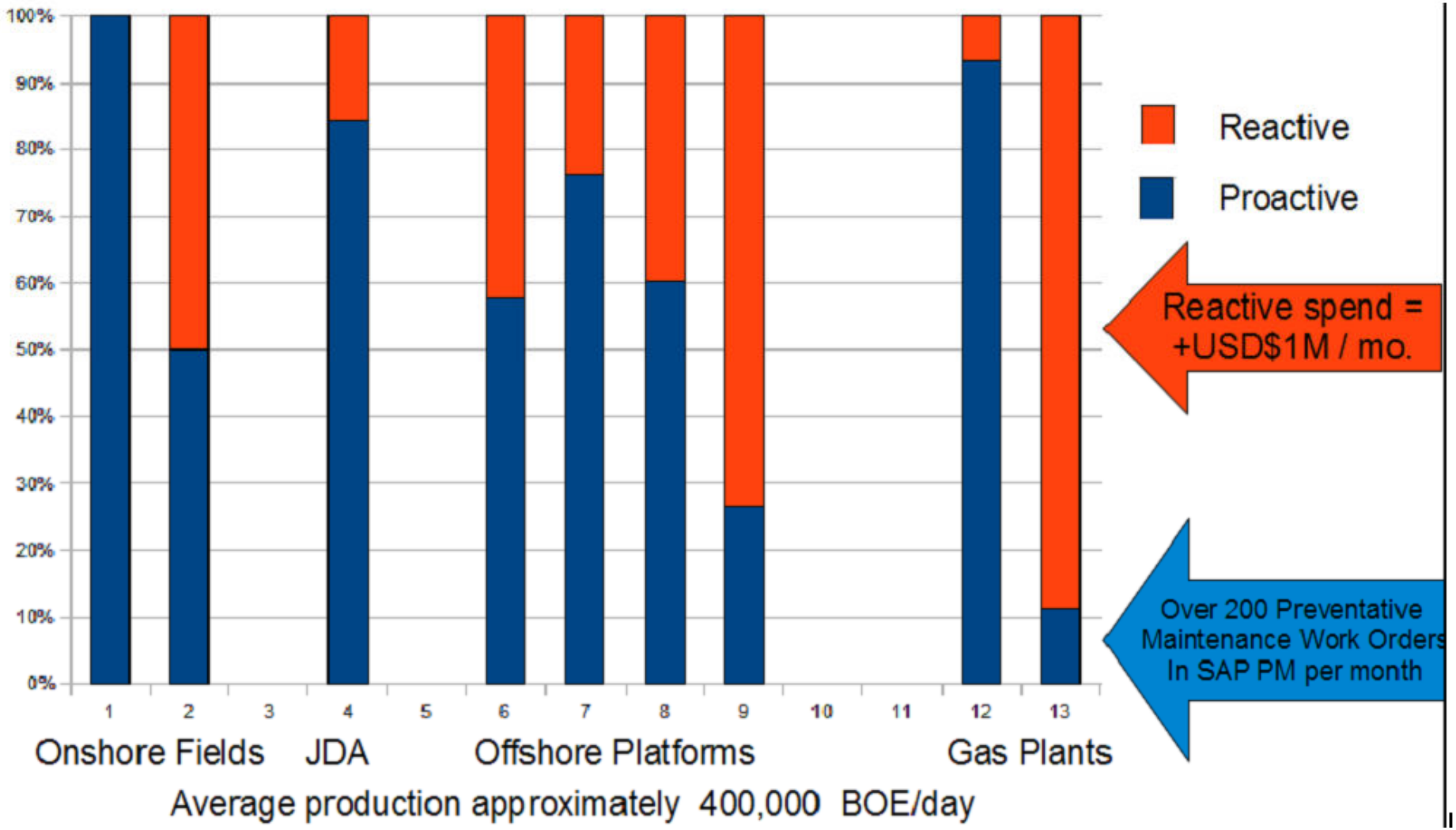
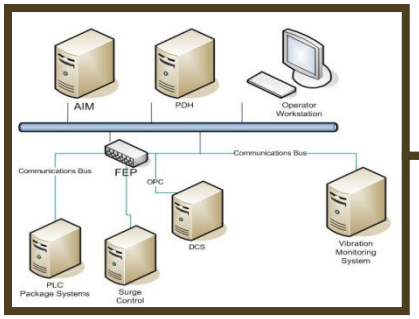
The Industry Issue:



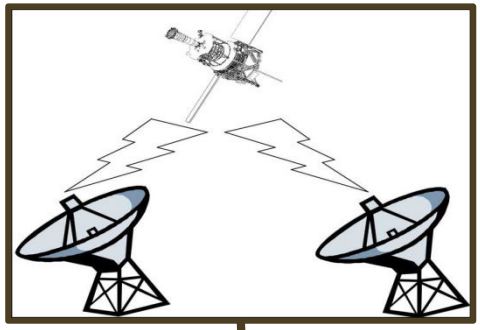
How it Works:

New & existing sensors

Data collection & filtering

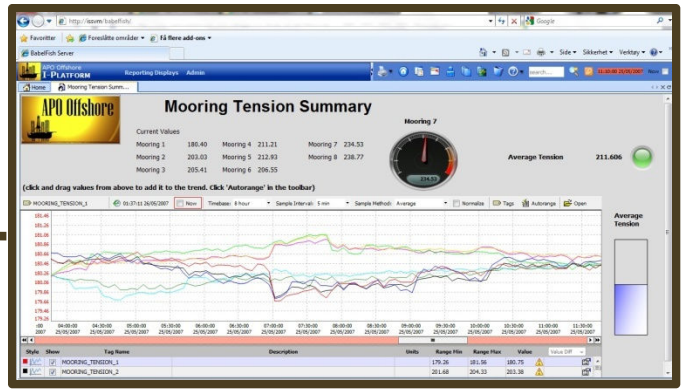


Communication Uplink



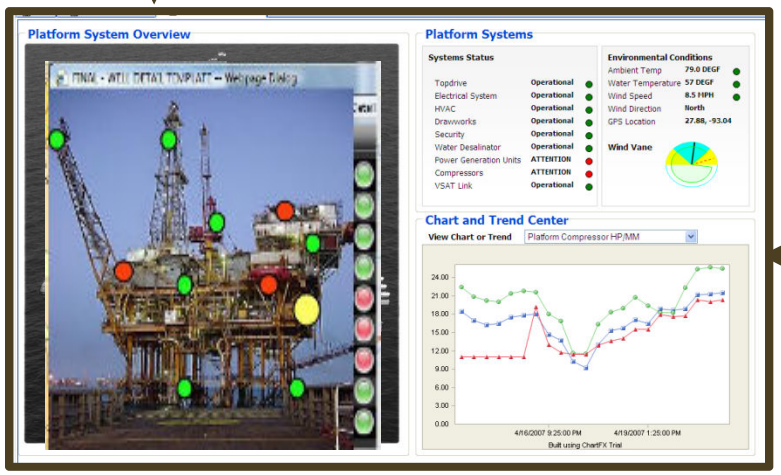
END TO END SERVICE:
Rapid information from the sensor to the desktop

Predictive Analytic Software

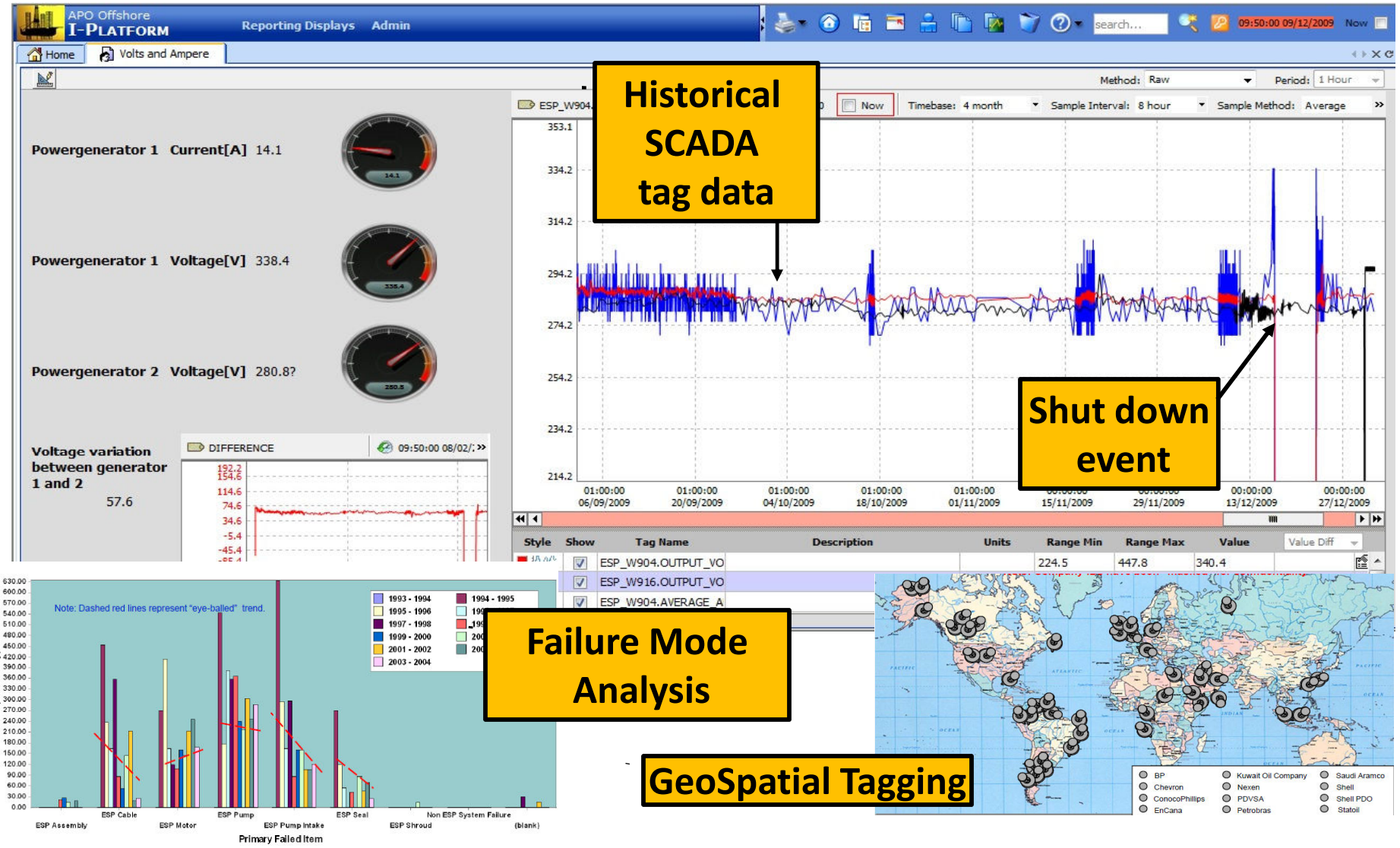


Global view

for SME

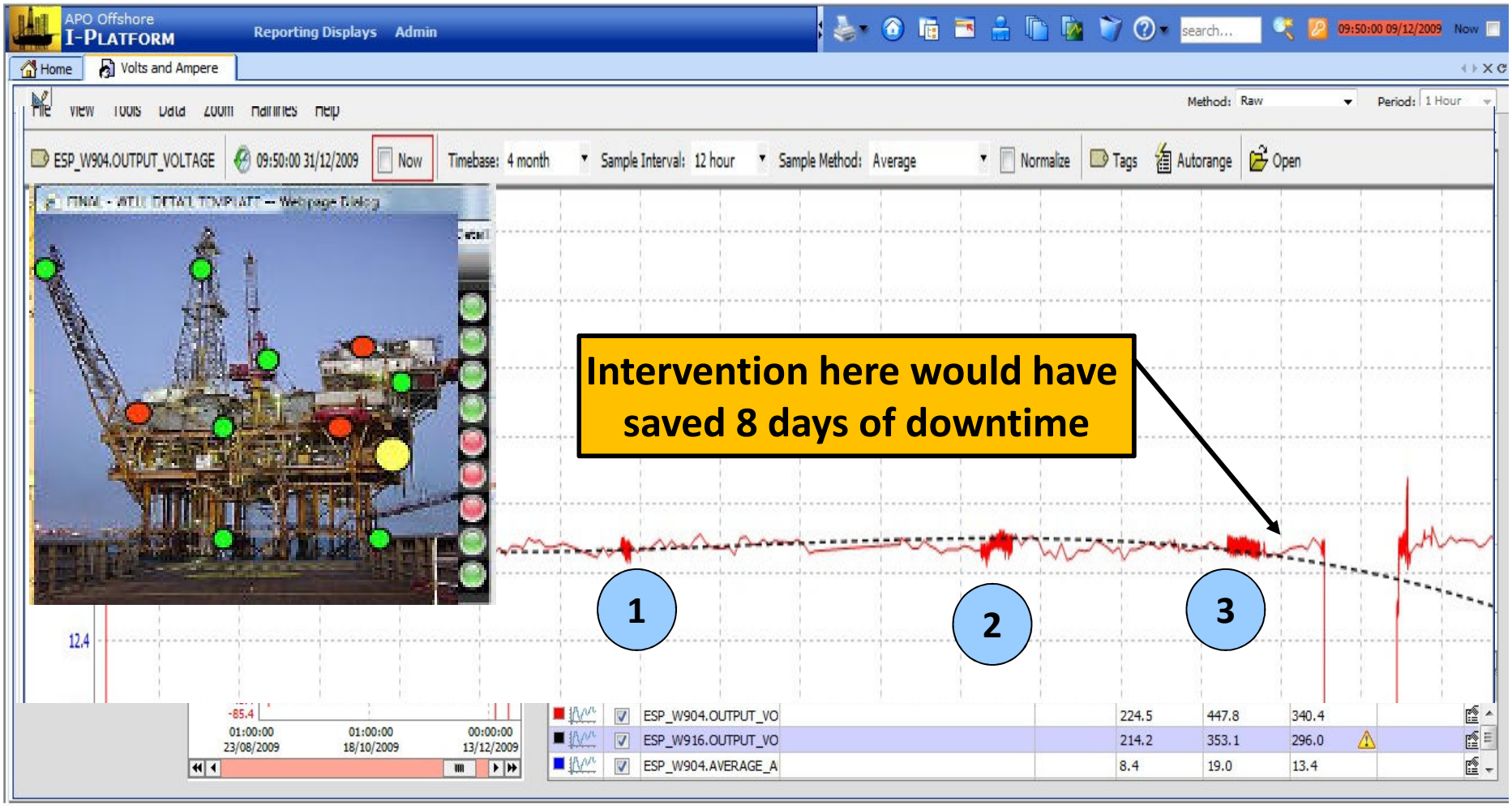


Case Study: ESP



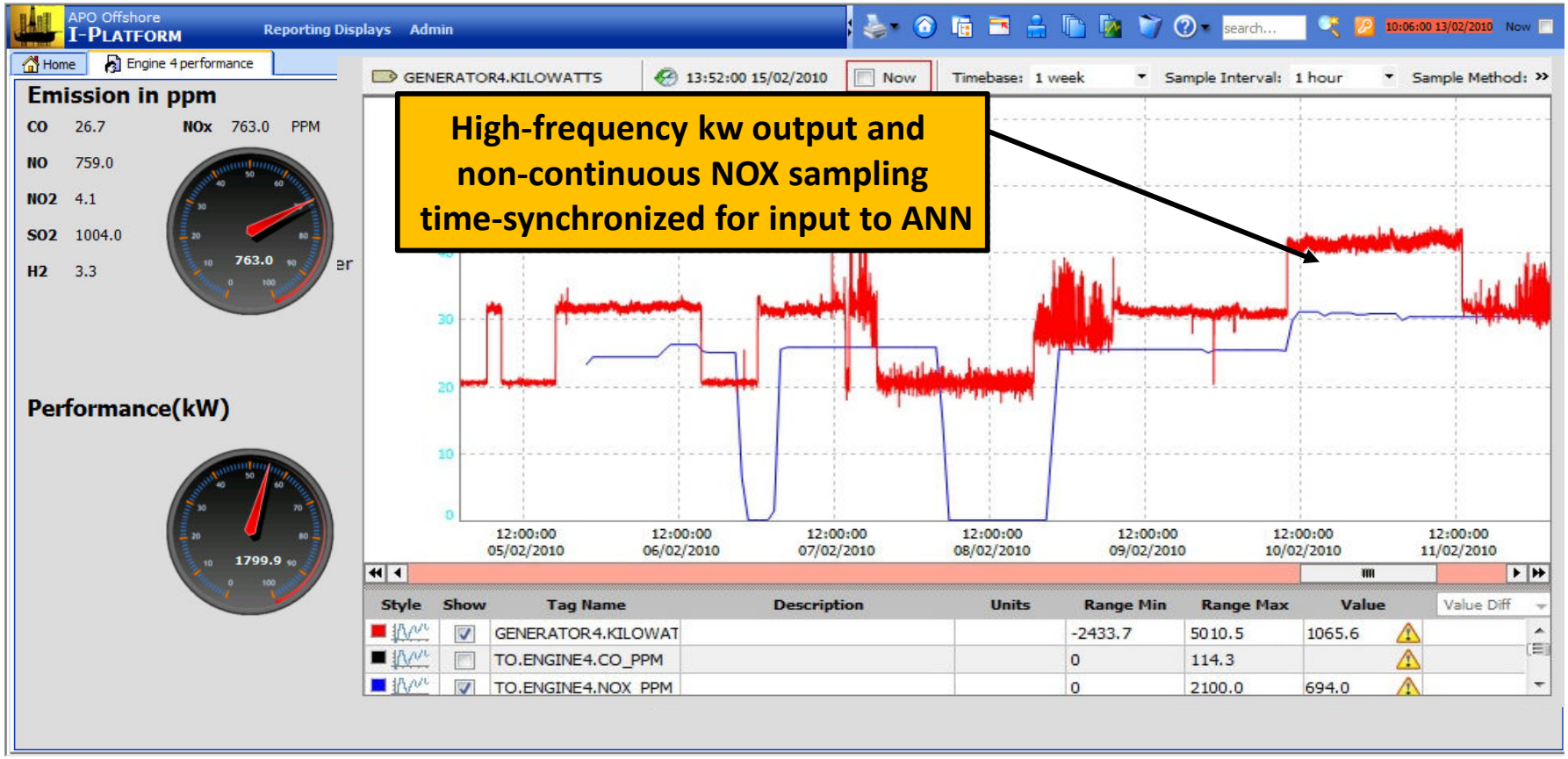
Goal: Extend ESP run life from 180 to 720 days, decrease workover costs by 4% = ***USD$20M / year***

Diagnostic Precursor Events, ESP Study



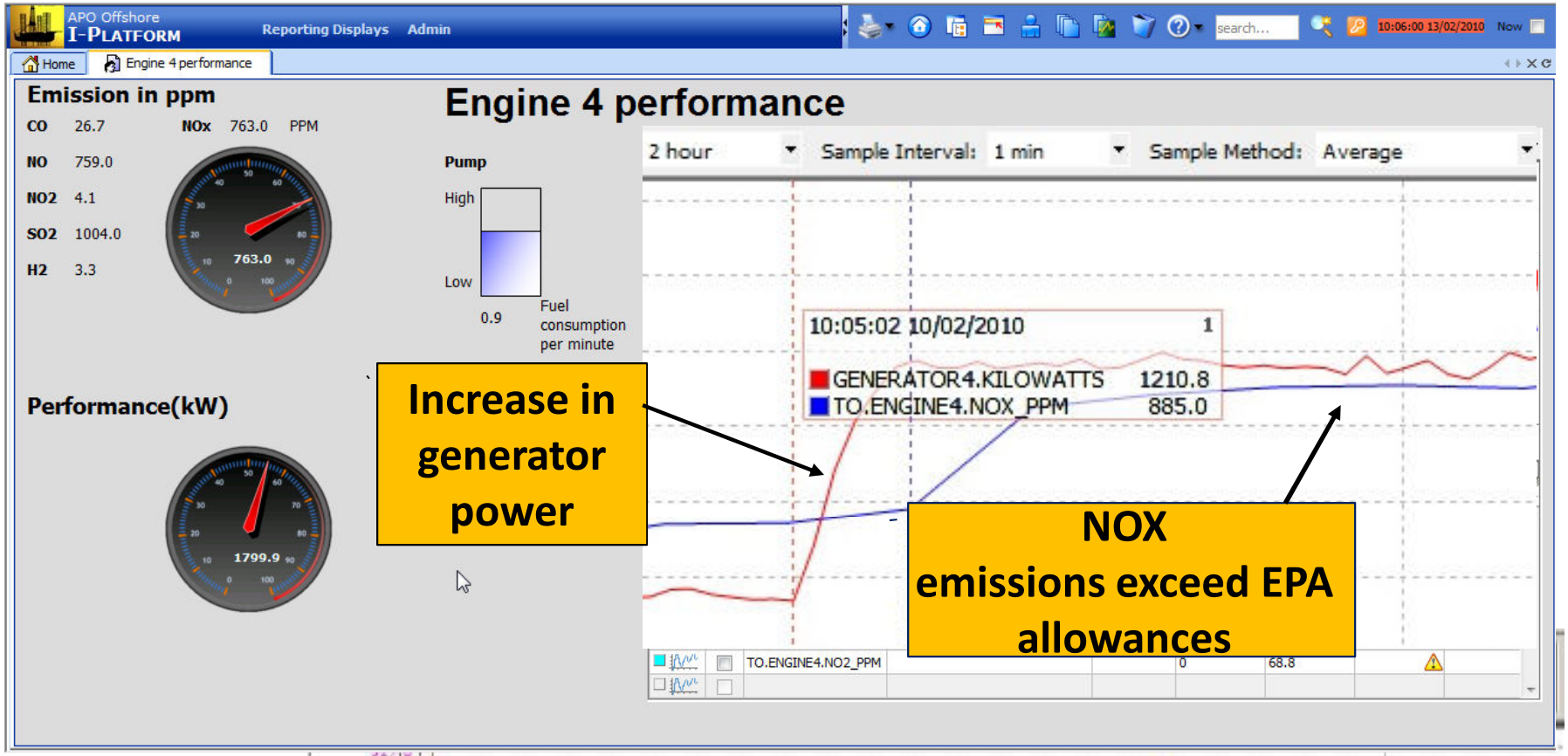
Pattern recognition by the neural network identified a complex series of events that did not exceed operator thresholds for current, temperature, or voltage, but when compared with a cubic trend line for two months before the event, were able to predict downtime in over 70% of failure cases in a given environment.

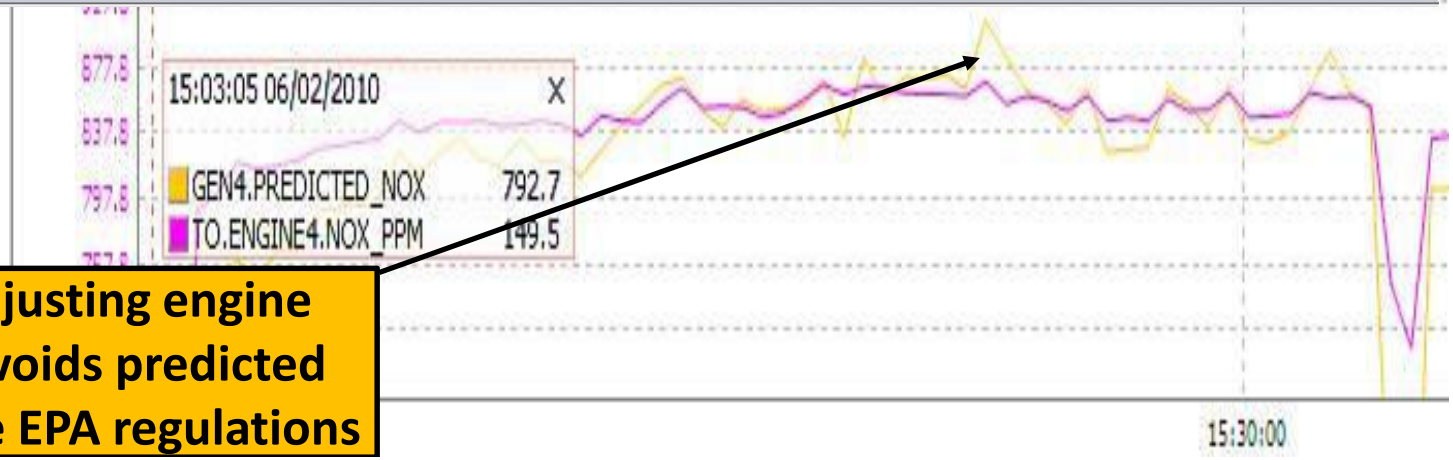
Case Study: Power Generation and Emissions



Objective: Run generators at maximum efficiency without exceeding EPA NOX emission levels, predict new optimum performance parameters when rigs move to new locales. Input to Artificial Neural Network: Generator Performance, Temperature, Pump Performance, Battery Voltage.

Avoiding an emissions event:





Proactively adjusting engine performance avoids predicted emissions above EPA regulations

Predictive Analytics with GeoTagging