

## SAM GUARD – Predictive Analytics for the Process Industry

# Failure Prediction and Predictive Monitoring



## Petrochemical Plant – Heat Exchanger

### Problem

- Partial blockage which leads to reduced heat transfer and potentially higher energy costs, increased fluid velocity leading to potential erosion problems.

### How Product helped

- Alert was given due to substantial differences in temperature, combined with all the parameters measured in the heat exchanger, and other related parts of the plant. All the indications showing an accelerated fouling process indicating of a partial blockage in the heat exchanger and the operational root cause.

### Value

- 23 hours after alert was given, the heat exchanger was cleaned and the partial blockage was removed.
- By fixing a small problem ahead of time, a greater problem causing shutdown and lost production was eliminated.
- Virtual sensors - SAM GUARD's new feature enables to provide an alert when direct measurements are not available.