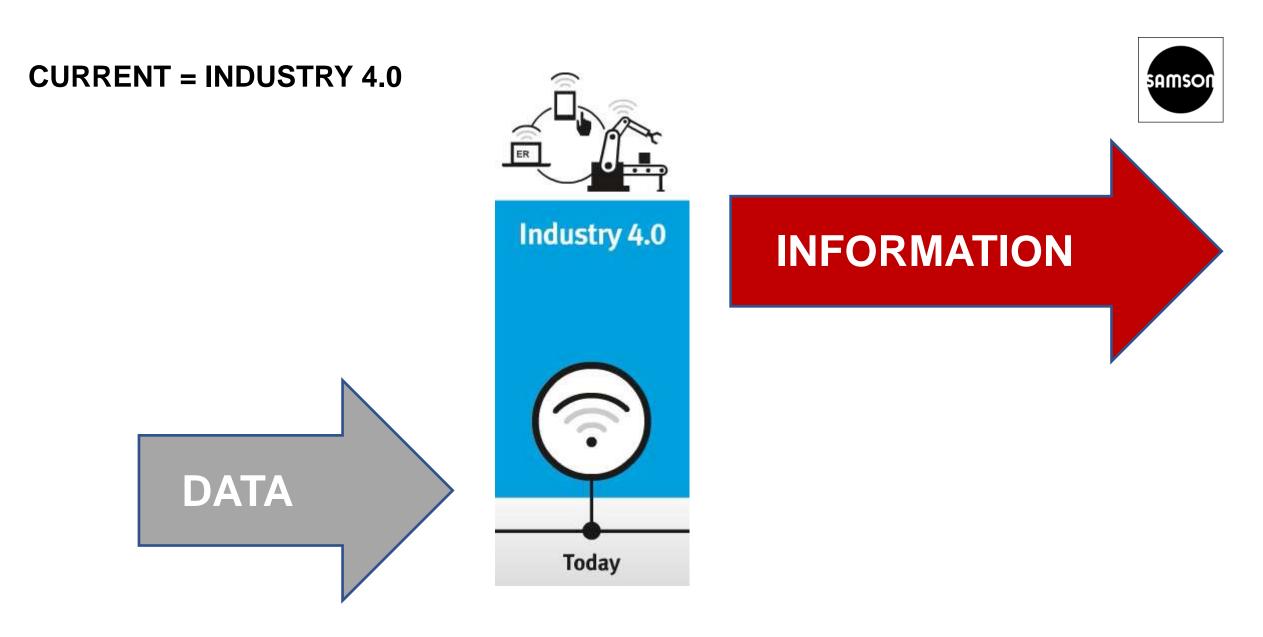


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MET DATAGEDREVEN ONDERHOUDSSTRATEGIEËN? AN DATA. LESS IS MORE?

SMART IN FLOW CONTROL







CONTROL VALVE RELATED DATA SOURCES





WHY....



WHAT





DIGITAL POSITIONER

- Why underperforming?
- Why the wearing?
- Replace at plant stop?
- Requires connectivity







CONTROL VALVE RELATED DATA SOURCES

samson

- Early failure detection
- 24/7 observing the process
- All control valves
- All assets
- Requires existing data, no infrastructure





PREDICTIVE MAINTENANCE SAVINGS





Lower maintenance costs

Value of additional production



Reactive **Condition-Based** Predictive Prescriptive Preventative Maintenance Maintenance Maintenance Maintenance Maintenance The Evolution of Maintenance Data Needed ٠ ٠ . ٠

Traditional

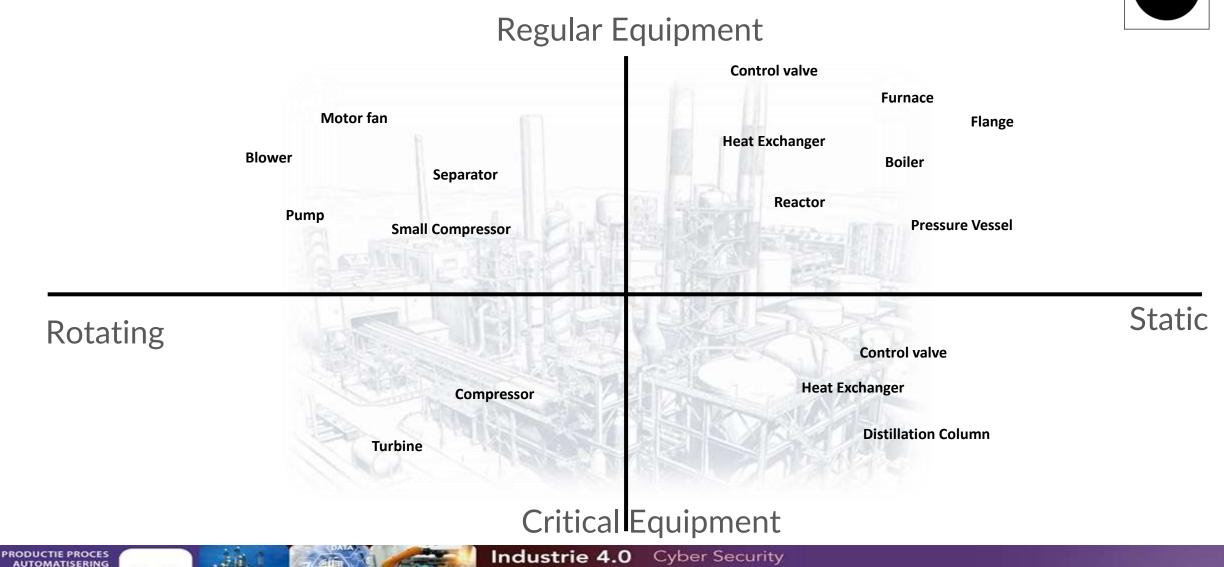
MAINTENANCE STRATEGIES



AI and ML based

Industrie 4.0 Cyber Security Industrial Internet of Things Data Cloud IT/OT Integration

PRODUCTIE PROCES AUTOMATISERING



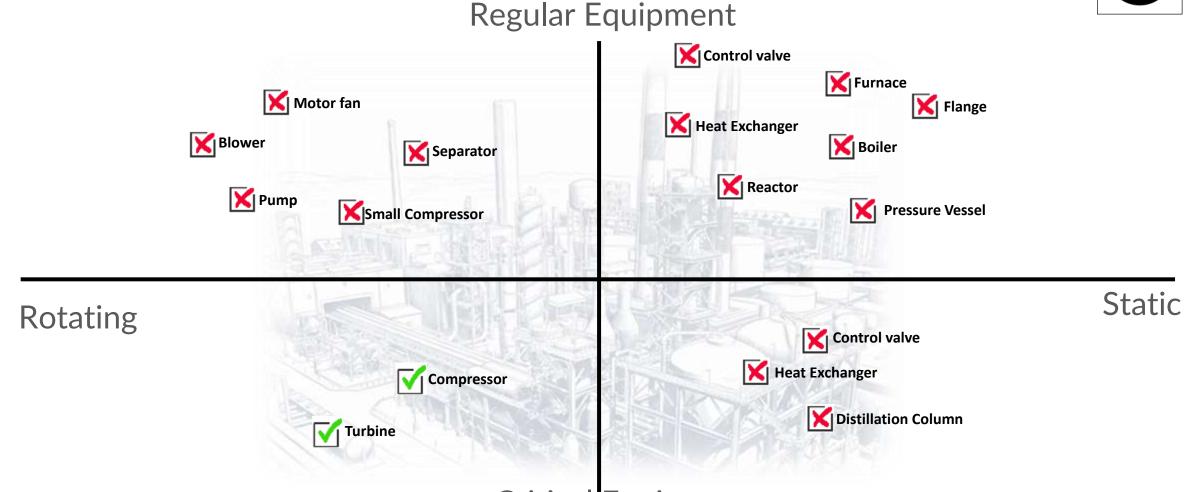
EXAMPLE OF ASSETS



Industrial Internet of Things Data Cloud IT/OT Integration

WHAT IS ALREADY BEING WATCHED





Critical Equipment

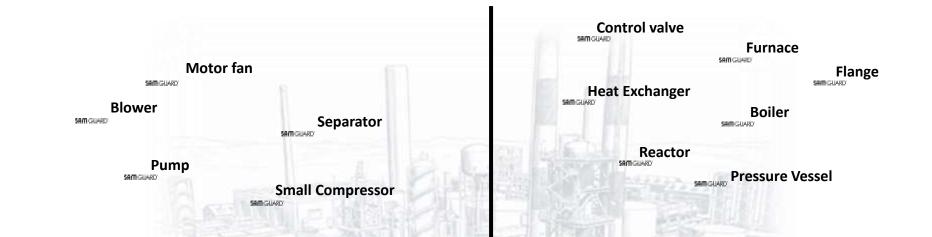


FEW EXAMPLES OF ASSETS



Static

Regular Equipment



Rotating

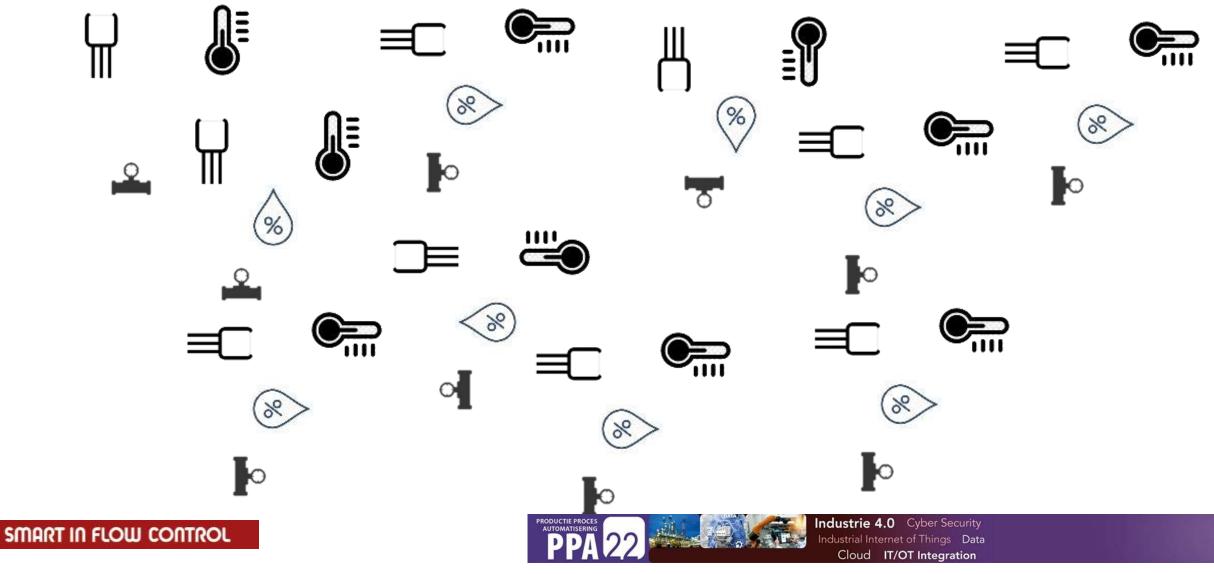
samiguage Control valve samcuar Heat Exchanger sam Guardo Compressor semcuter Distillation Column sam GLARD' Turbine

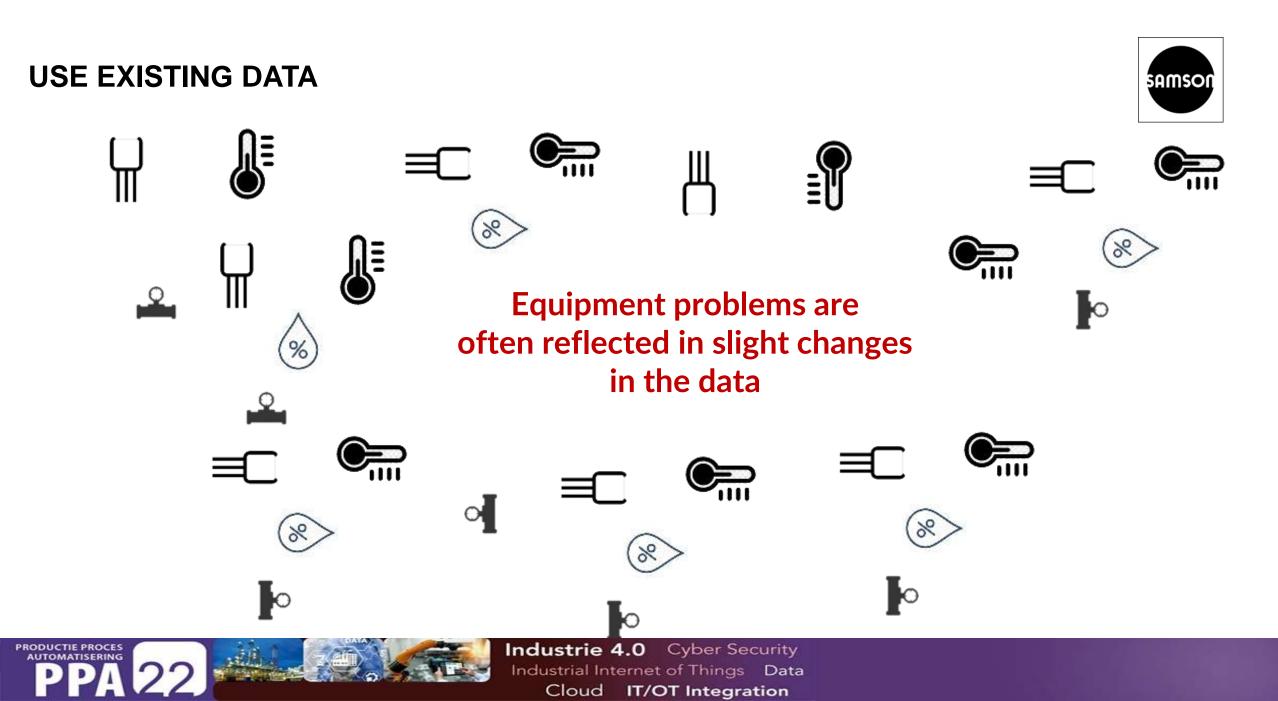
Critical Equipment



SENSORDATA IN HISTORIANS

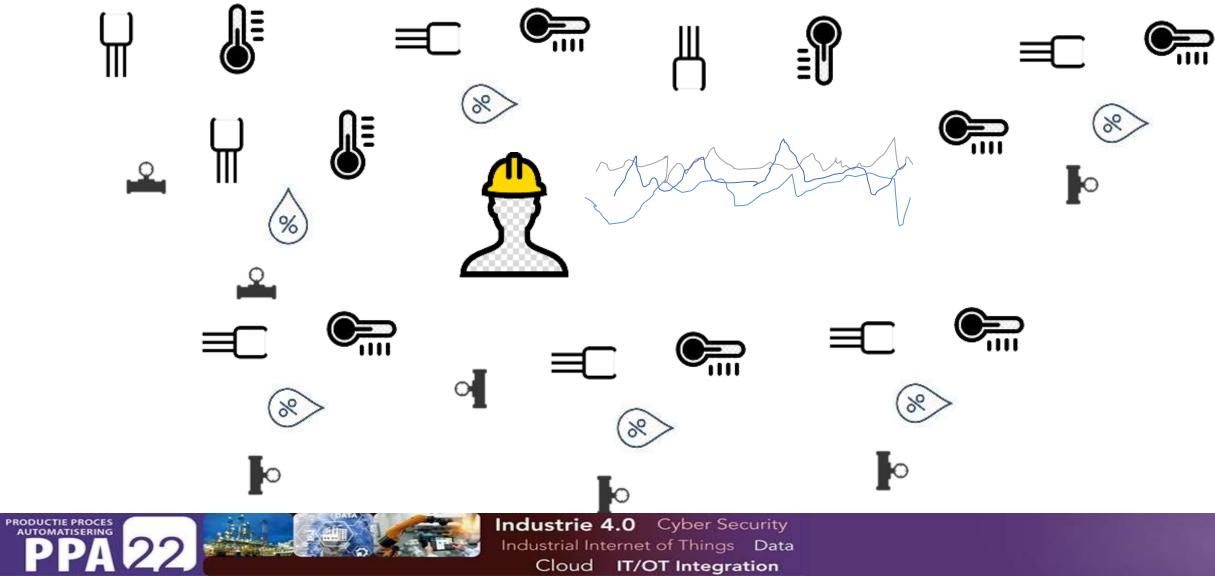


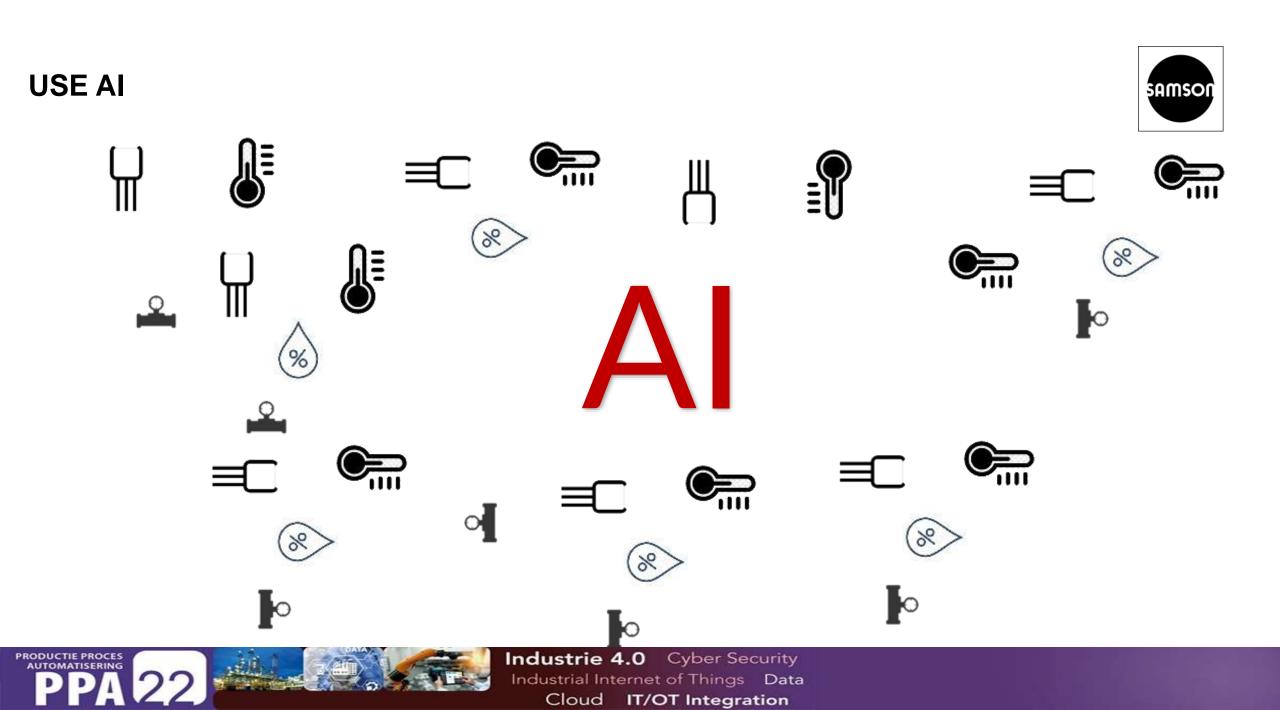




BEYOND HUMAN CAPABILITIES

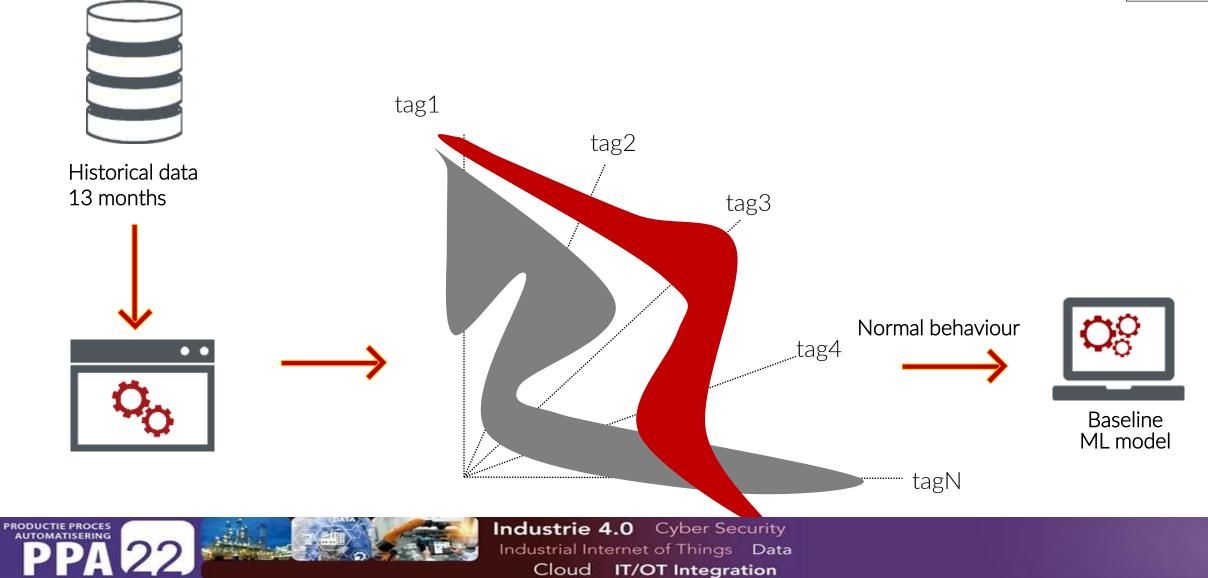






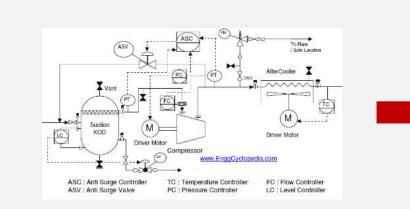
NORMAL PLANT BEHAVIOUR



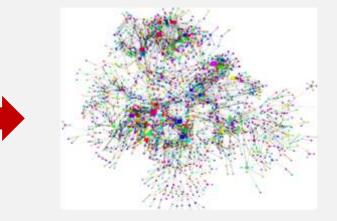


REFINE DATA









Your P&ID Your knowledge SAM GUARD Studio

Al Causality Model



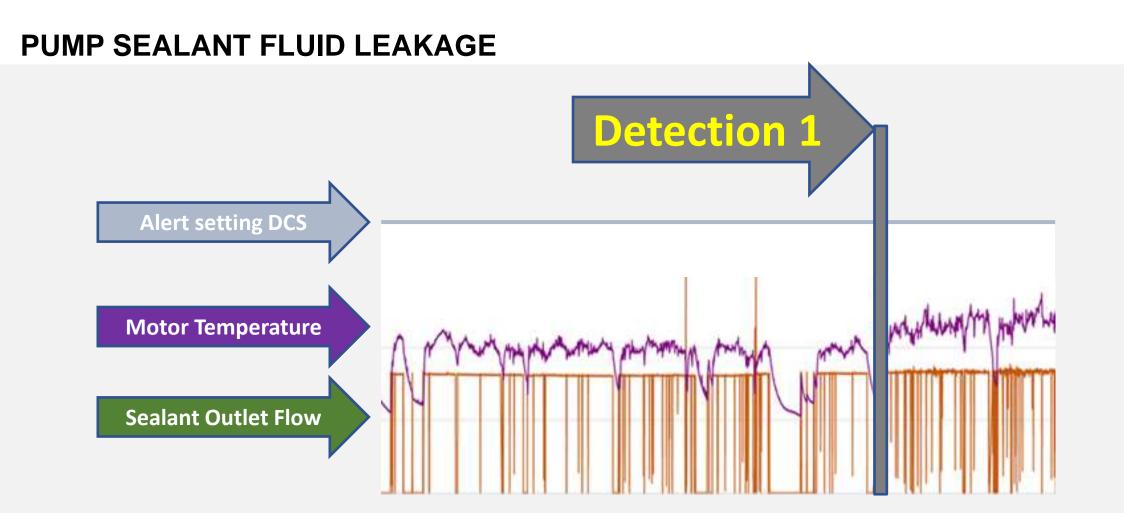
GOAL = NO ALERT FATIQUE!





Causality model



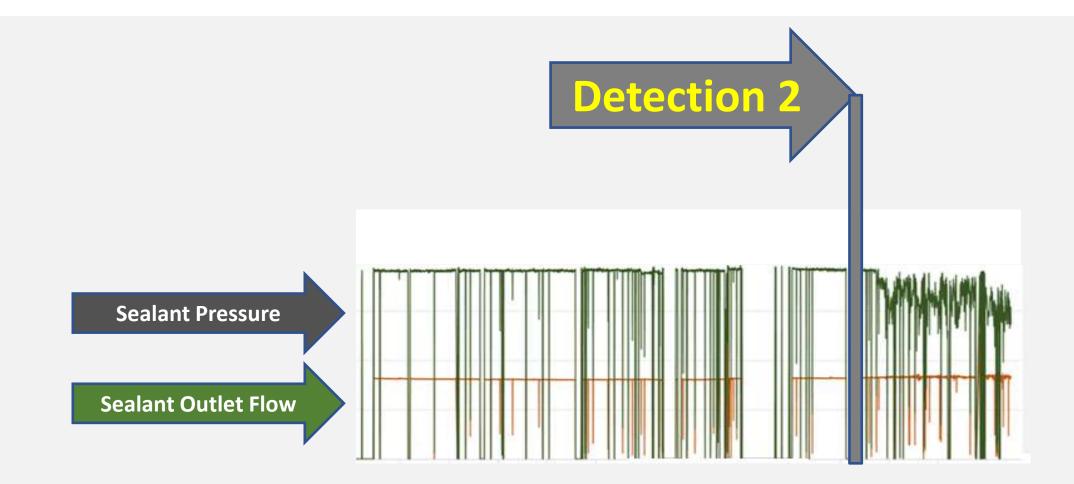




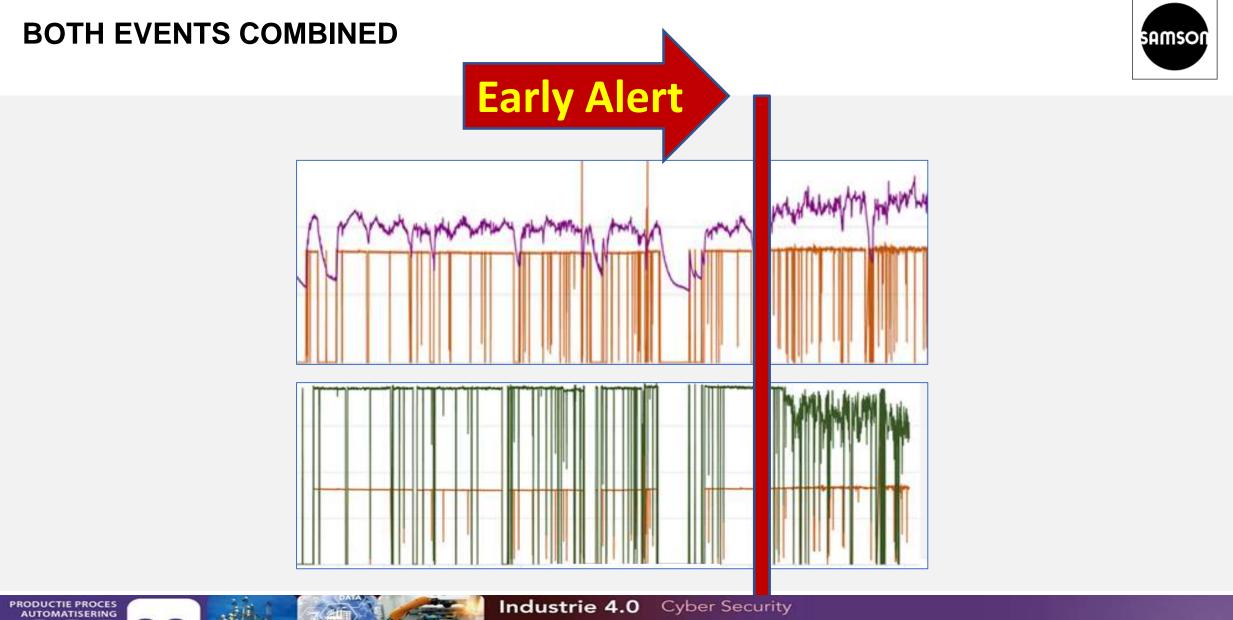


PUMP SEALANT FLUID LEAKAGE





PRODUCTIE PROCES AUTOMATISERING PPA 22



P

OUR EXPERIENCES



- 'Reacting' to upcoming events is a whole new perspective for operations
- Acceptance of predictive software
- Time pressure
- Business case thinking
- Focus on getting more data



ANALYTICAL MONITORING SERVICE

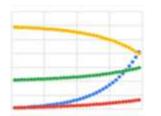


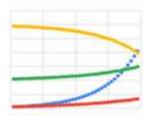


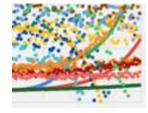




PDM AS A SERVICE OFFERS AN ALTERNATIVE







samso

Predictive maintenance

PdM as a service

Prescriptive

Preventive actions prescribed by consultants

Preventive actions prescribed by data





SUMMARY

Know where to stop in gathering data



Historians contain relevant data No extra data needed



Understand your goals Clear goals as a starting point



Predictive Maintenance as a service is an alternative Combines the best of predictive and prescriptive maintenance



No additional hardware required

Prevent extra costs





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. . DATA. LESS IS MORE? K VOOR UW AANDACHT!





Wilt u meer weten?



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