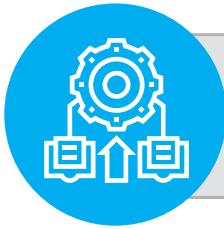


# Syndrome Diagnostics

- Causation-based AI
- Real-time Fault Detection & Isolation (FDI)
- Incipient Failure Identification
- Optimized System Availability
- Industry 4.x ready

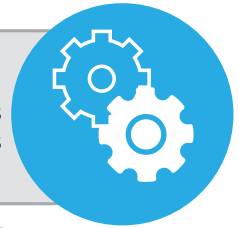


Syndrome Diagnostics (SD) is a Causation-based AI (Cb-AI) tool that delivers real-time Fault Detection and Isolation (FDI) capability. Designed for complex, safety & mission critical systems, SD identifies incipient failures with a reliability, speed and confidence not possible with correlation-based AI tools. SD is the industry standard in predictive maintenance technology.



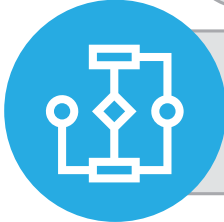
### Causation-based AI (Cb-AI)

SD sets new standards in delivering rapid and reliable FDI analysis not achievable from competing systems. Our Causation-based AI identifies the true cause of a failure, not only the symptoms.



### Digital Risk Twin

SD leverages the Digital Risk Twin (DRT) to understand how a system is designed to operate, and identify all its potential failures. This ensures consistency between design and operations.



### Avoid Overfit

Avoid incorrectly attributing failures based on an incomplete training set of data and lack of domain knowledge because SD utilizes a Causation-based approach.

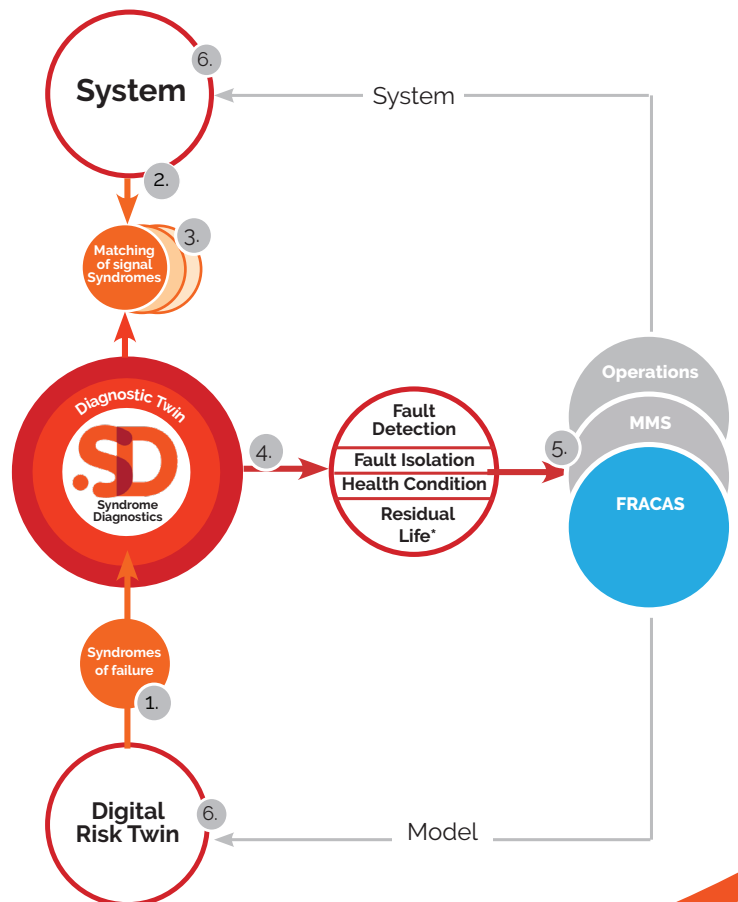


### Understand Why Your System Fails

The combination of the DRT and our Causation-based AI approach within SD means that you better understand the health state of your system and the possible failures that can occur.

## How Does It Work?

- Analyses from the DRT establish syndromes of failure.
- Data from the monitored system is extracted and processed to clean data.
- Autonomous analyser algorithms are used to identify anomalies in the data.
- Matching of the syndromes of failure with the identified syndromes of failure from the DRT.
- Identified faults are communicated for corrective actions, closing the loop in the w process.
- Updates the DRT to enable continuous improvement of the system based on technical analyses.



\* In planning & development stage