Reduce unscheduled downtime with SKF Enlight AI

Advanced prognostics for improving machine health and maintenance planning

Use AI-driven industrial analytics to predict and reduce unplanned downtime

Though each industry faces its own unique set of maintenance challenges, one common challenge across industries is unscheduled downtime. When a machine suddenly goes offline, there are significant consequences across the value chain.

First of all, you lose money. It is estimated that the global process industry loses $20 billion annually on unscheduled downtime. Also, your people are at higher risk. Maintenance-related injuries are more likely to occur when repair-professionals are operating under pressure. What's more, you operate under uncertainty. Not knowing when and where the next failure will strike makes it difficult to schedule routine maintenance, order inventory, or bring in experts as needed.

Plants have enough to worry about without dreading how the next machine failure will impact revenue, safety, and OEE. Knowing days, weeks or sometimes even months in advance that an asset failure is evolving gives you the ability to schedule downtime, troubleshoot, order parts, and consult with experts, minimizing overall downtime and loss of revenue.

## Moving from reactive to predictive maintenance

Instead of waiting for assets to breach predetermined thresholds, our predictive maintenance solution applies Automated Machine Learning to big data to uncover data anomalies that indicate an evolving failure. By fixing assets before their issues become acute, plants can

- Increase yield by reducing downtime
- Reduce maintenance costs
- Increase remaining useful life
- Lower worker injuries

When an asset fails unexpectedly, your course of action is dictated by the asset.
**When you foresee an outage, you control your operational strategy.**
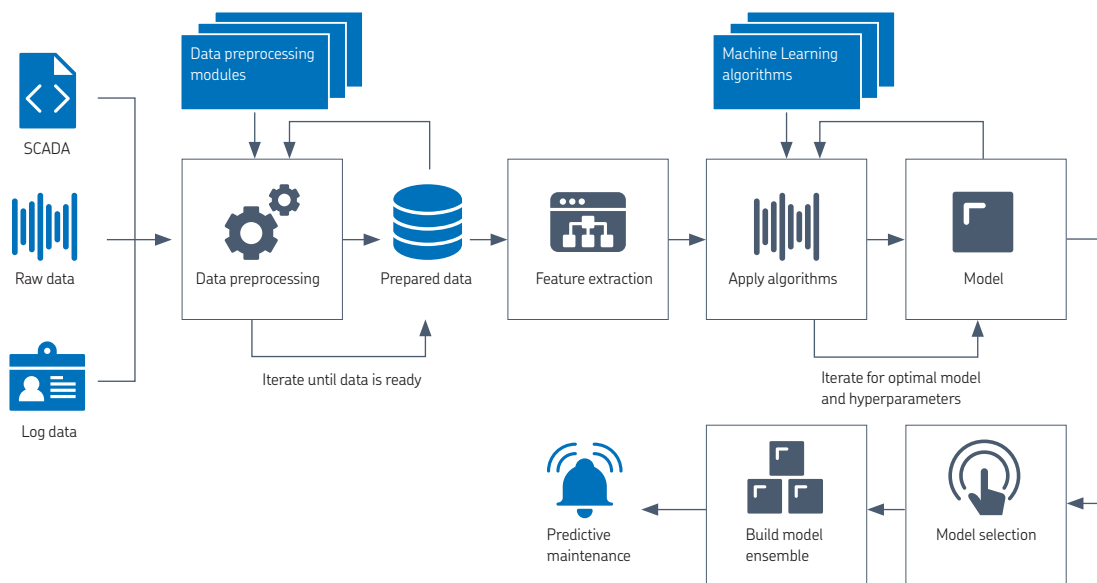
SKF Enlight AI's Automated Machine and deep learning engine

Turning big data into actionable insights

Connecting assets to the cloud is a first, important step in unlocking the insights hidden in the big data. However, it's what you do with this captured data that determines its value. Machine Learning algorithms identify data anomalies within the vast amounts of data generated by a single asset. By automating Machine Learning, these algorithms can easily scale to analyze and identify early failure patterns in data from every critical asset.

Automated Machine Learning uses AI algorithms to choose the best Machine Learning models for analysing different datasets and is continuously evaluating its own performance to ensure the right models are always being used.

This automation enables SKF Enlight AI to offer an off-the-shelf predictive maintenance solution that is simple to scale, deploy and act on, without the need for extra software, hardware, or on-site data scientists.
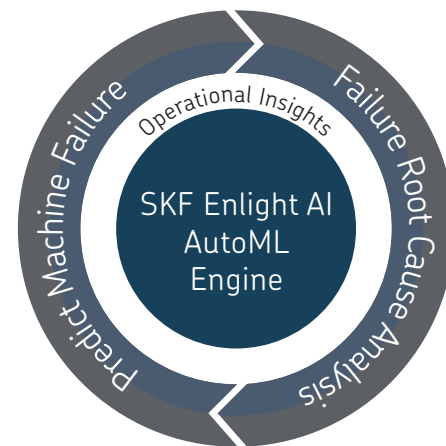
Benefits

- No plant-level AI expertise required
- Early alerts of evolving failure based on AI
- Intuitive dashboard visualizes asset health
- Learning algorithms automatically improve detection capabilities
- Assists in performing root cause analysis

The world of reliable rotation
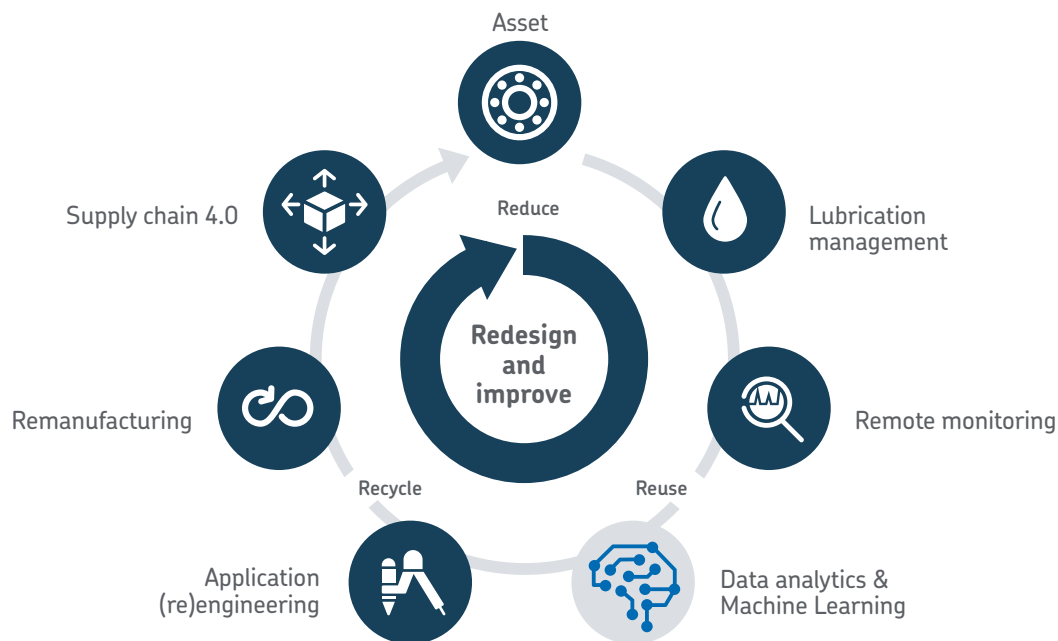
AI can be the hero of your operation

SKF's Rotating Equipment Performance program aims to maximise reliability and output from your machinery and your production processes while reducing the total cost of ownership. By providing easy access to application insights, together with the right products, connected technologies and solutions, SKF can help you to improve the performance of your rotating equipment. With a fee-based package, you receive services and technologies that can improve your operation and outcomes.

SKF Enlight AI harnesses the future to better your present.

You don't have to tackle asset performance on your own. As part of SKF's fee-based model, you pay for SKF Enlight AI to draw actionable conclusions from big data and help to achieve reliable rotation in real time. Your success is our success.