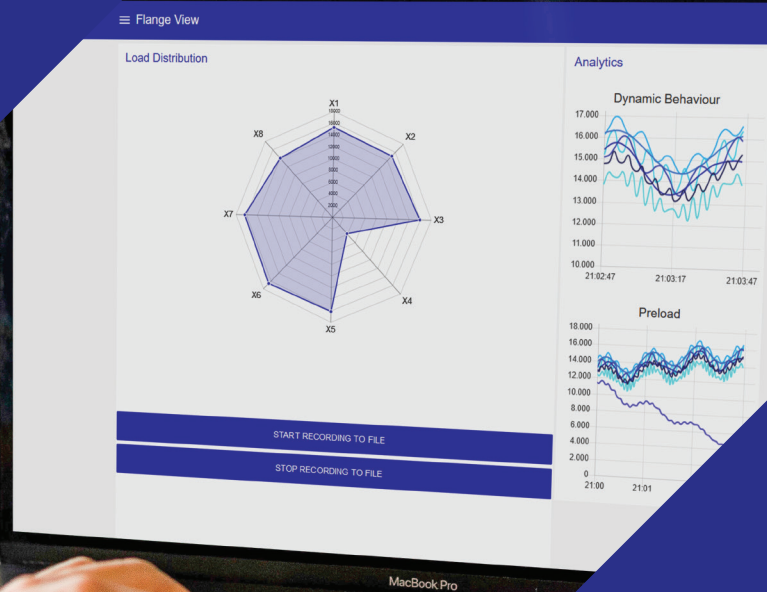# Sensorise
# SmartAnalytics

The Sensorise team specializes in analyzing time series data, extracting meaningful information from raw sensor data, and building application-specific solutions.

We cover a wide range of industrial applications: from energy generation to civil engineering to space travel – the possibilities are infinite. Solutions are deployable on-site or in the cloud.

# Industrial analytics

After a sensor system has been installed and some data collected, a workshop is held. Sensorise's data scientists and mechanical engineers help visualise, explore and explain the sensor data, while the domain experts can interpret the results. The collaboration creates common understanding and reduces the cost of further integrations and software development. Whenever possible and feasible the solution is developed based on engineering knowledge.  Sometimes, however, there are too many variables to construct accurate physics-based models, in which case data-based models could be created by using a suitable machine learning technique.

## Beautiful and meaningful visualisation

The human optic nerve has a bandwidth of 1 Mbit/sec. Dashboards and interactive visualisations of sensor readings enable a better understanding of the assets' condition:

> Time domain representation
> Frequency domain representation
> Order analysis plots
> Correlation plots
> Statistics / KPIs, including evolution over time

## Our partners

JUNGEBLODT
KEIN RAUM FÜR KOMPROMISSE

PROEKSPERT

fischer

## Building application-specific models

When raw data is not enough: Anomaly or novelty detection solutions generate warnings for further analysis. The following algorithms have proven to be useful:

> Local Outlier Factor
> LSTM (Neural) Networks

Additional data sources are often included for improving analysis results and performance of data-driven models:

> Signals from SCADA system
> Information from weather stations or forecasts
> Satellite data

Since these solutions are often needed in the industry, Sensorise engineers have developed internal tools which allow developing quick and cheap prototypes for initial technical validation of such solutions, while also providing skills to implement these solutions in production.

# Contact

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