

# Condition Monitoring

## System monitoring for cement plants

### Condition Monitoring:

Data transparency increases availability.

### Data analysis and trend forecasting

Diagrams present measurement data and the status of all devices in your plant in a clear and understandable way within the dashboard.

### High plant availability

Early fault detection reduces unplanned downtimes and ensures your analyzers run smoothly.

### Quick response

Automatic alerts in e-mails or text messages enable timely action when anomalies or deviations are detected. Solutions and recommended actions are displayed directly.

### Predictive maintenance

Verification and evaluation of historical data make it possible to schedule maintenance work and optimize the lifetime of spare and wear parts. This saves time and money.



# Know today what will happen tomorrow

Gas analysis systems are crucial tools in cement plants, for instance for optimizing the combustion process at the kiln inlet, for increasing product quality and for reducing emissions. Downtime often results in high costs. To prevent it, monitoring the condition of these extremely important measuring devices is essential for achieving the best

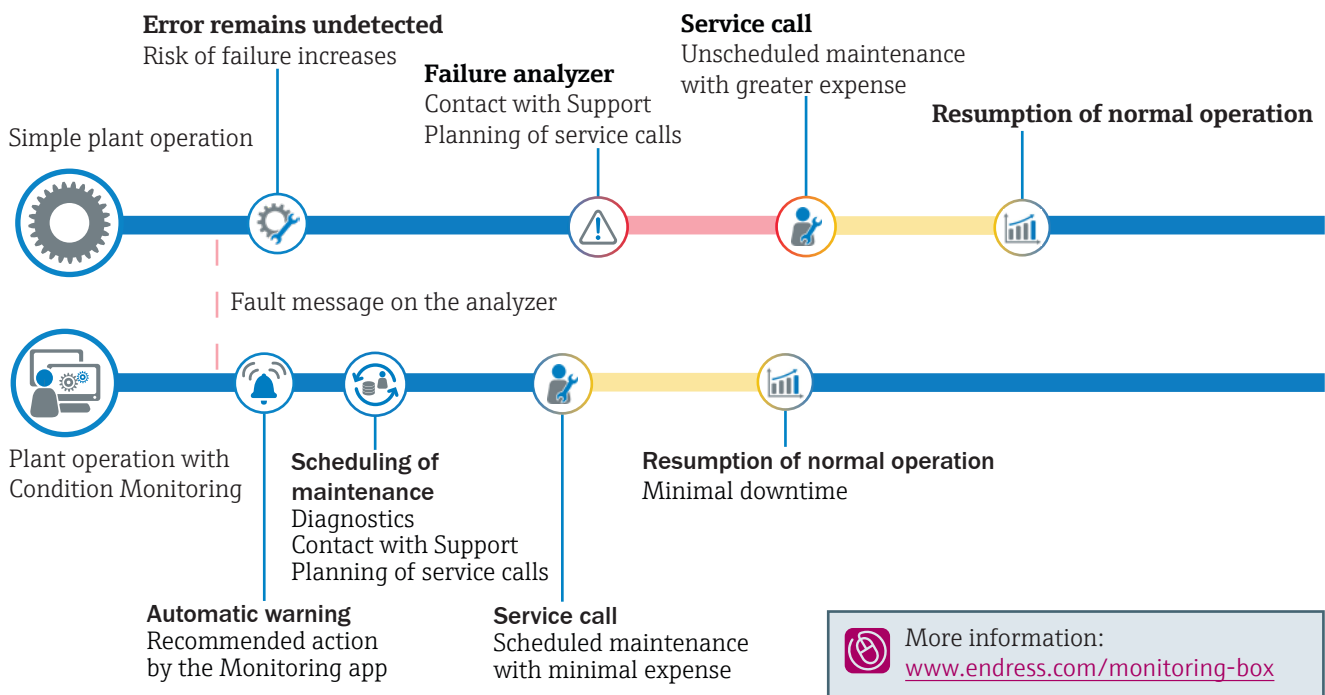
possible plant availability and product quality. With Condition Monitoring operating entities of cement plants have the option of visualizing and evaluating the condition data of their analyzers and measuring devices anytime and anywhere.



The sensors are connected to a Smart Service Gateway via standard interfaces. The data is collected and pre-processed in the gateway.

The Smart Service Gateway is the connection to the Cloud. It encrypts the data and then uploads it.

The data is loaded from the cloud into a browser-based application. The app handles analysis and visualization of this data for the user.



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