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moneo

The new IIoT platform for industrial evolution

Agenda:

ifm strategy for IIoT / Industry4.0

moneo outlook

Q & A

ifm company overview

R&D Employees: 1000

Global sales 1Mrd€ (2020)

Portfolio: 10,000 Products

discover ifm

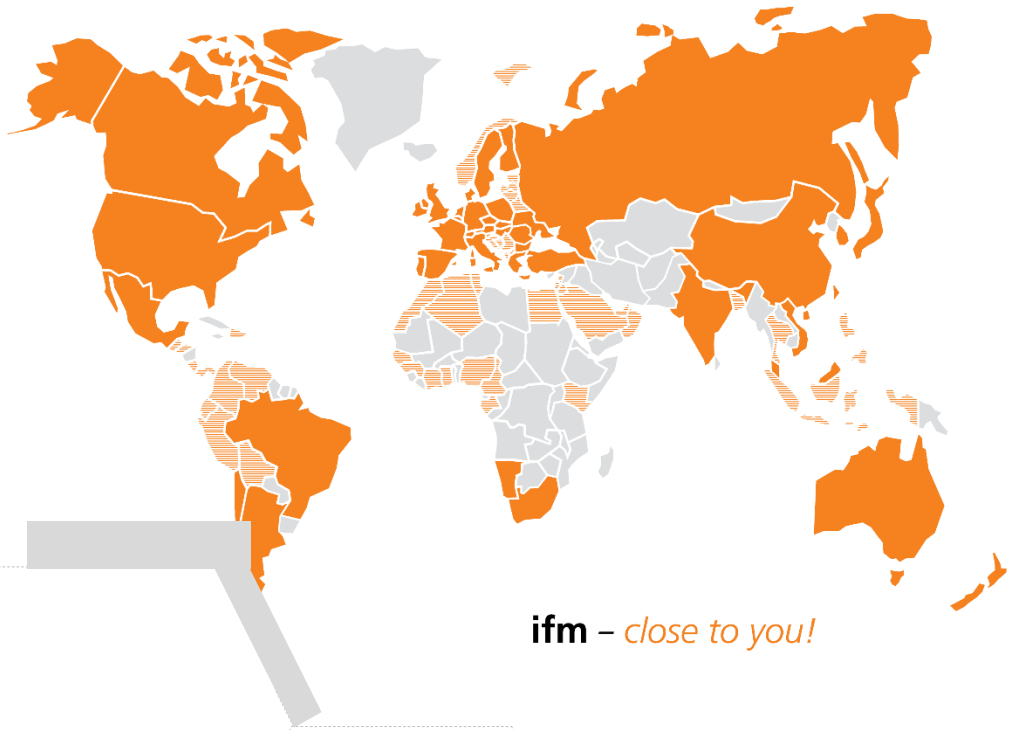
Headquarters: Germany

Employees: 7,300

Founded: 1969

Sensors Produced: 18.3m/year

Distribution: 70+ worldwide 45 subsidiaries



ifm – *close to you!*

Industrial automation product portfolio

Process sensors

Condition monitoring systems

Industrial communication

Connection technology

Systems for mobile machines

Identification systems

Industrial imaging

Sensors for motion control

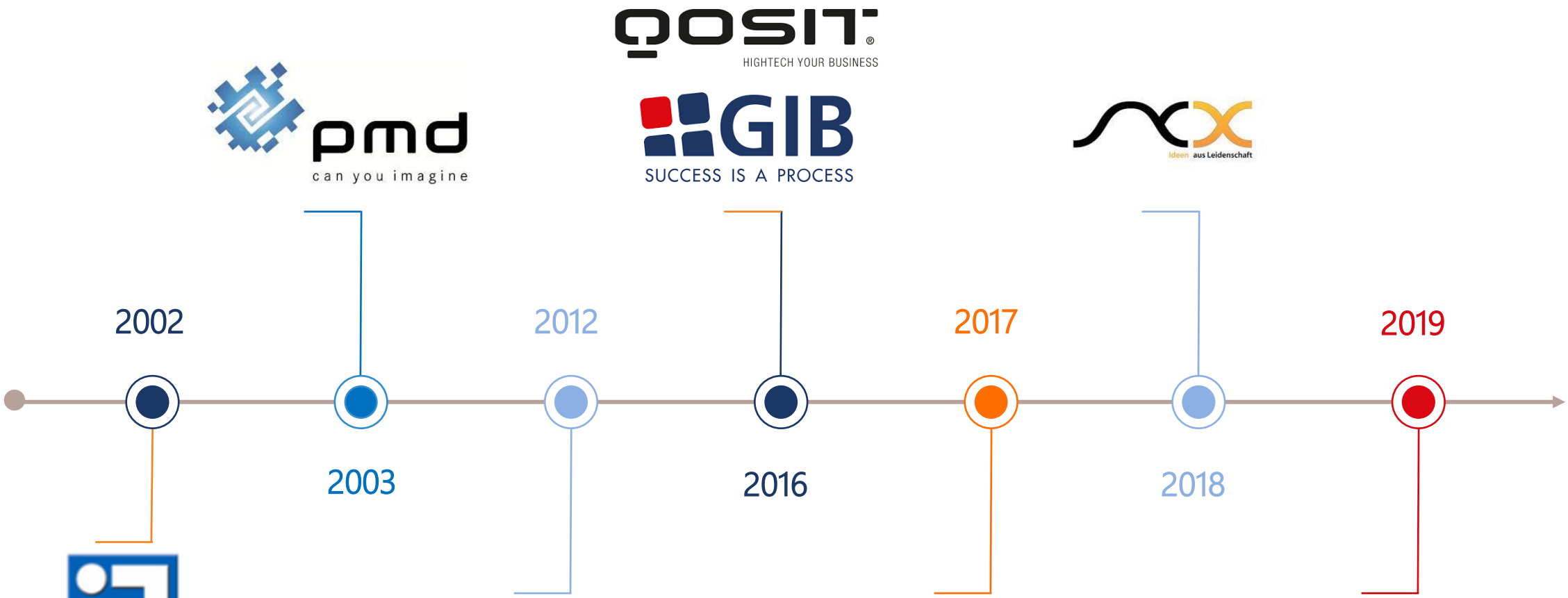
Position sensors

Safety technology

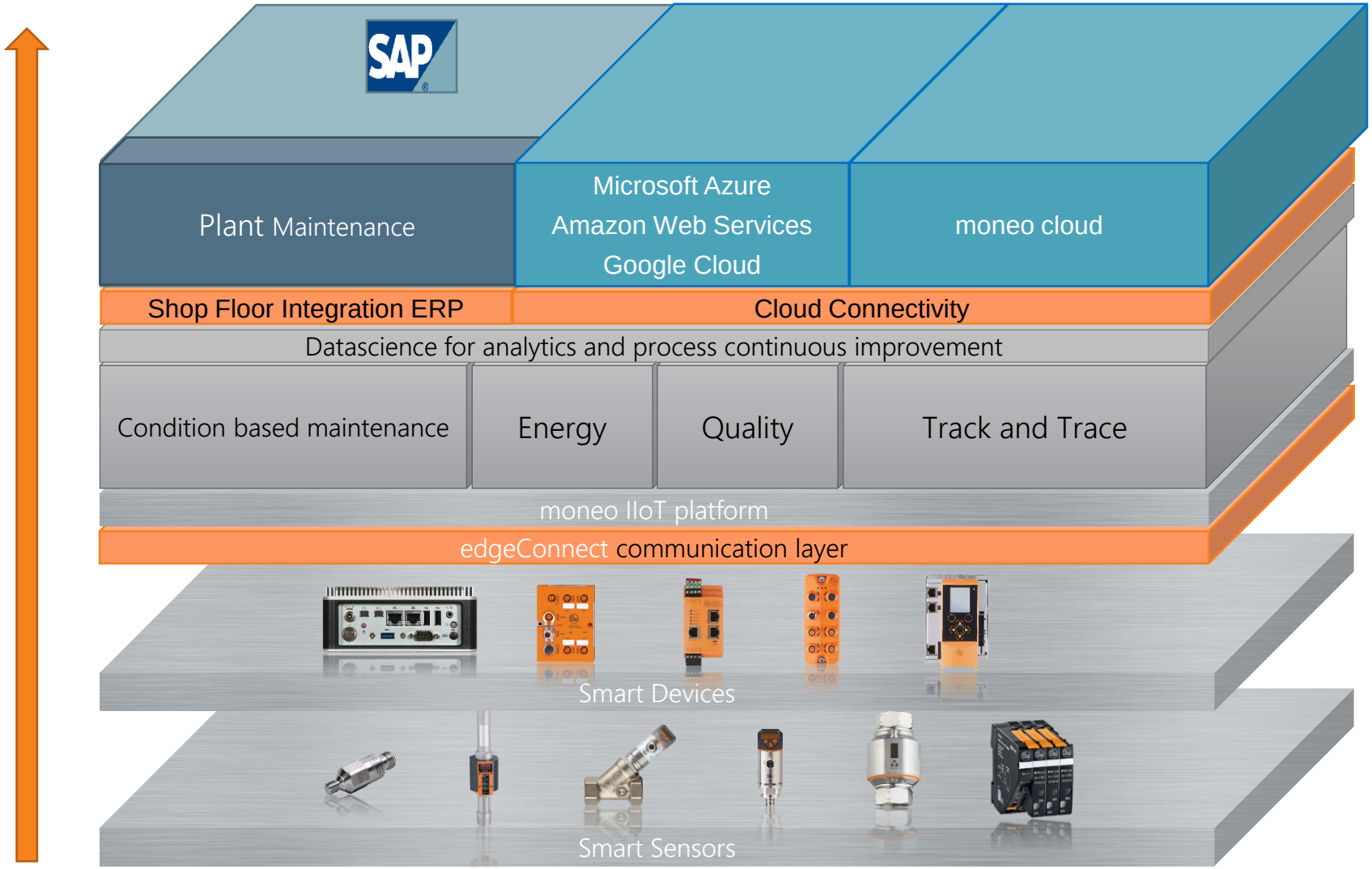
Accessories

Software solutions

Acquisition of I4.0 core technologies



From sensor to business processes



Azure

aws

Google Cloud

MQTT

OPC UA

JSON

TCP/IP

Modbus

EtherCAT

PROFINET

EtherNet/IP

IO-Link

IO-LINK : the digital path to sensors and actuators

Standardized IEC61131-9

> 300 manufacturers

0000100010
0001111001
0010100011

No external influence of the signal

No measured value losses

Easy sensor replacement

Tamper free

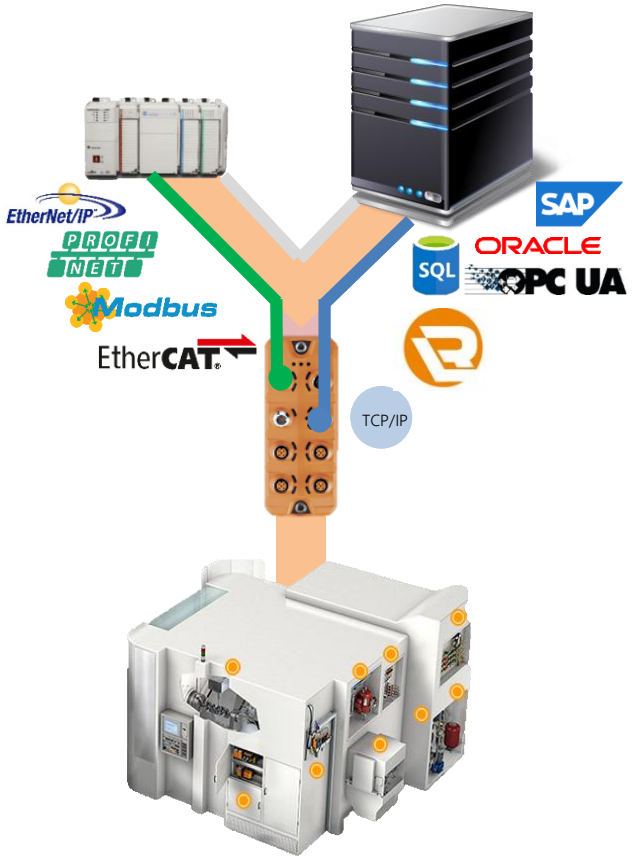
Identification

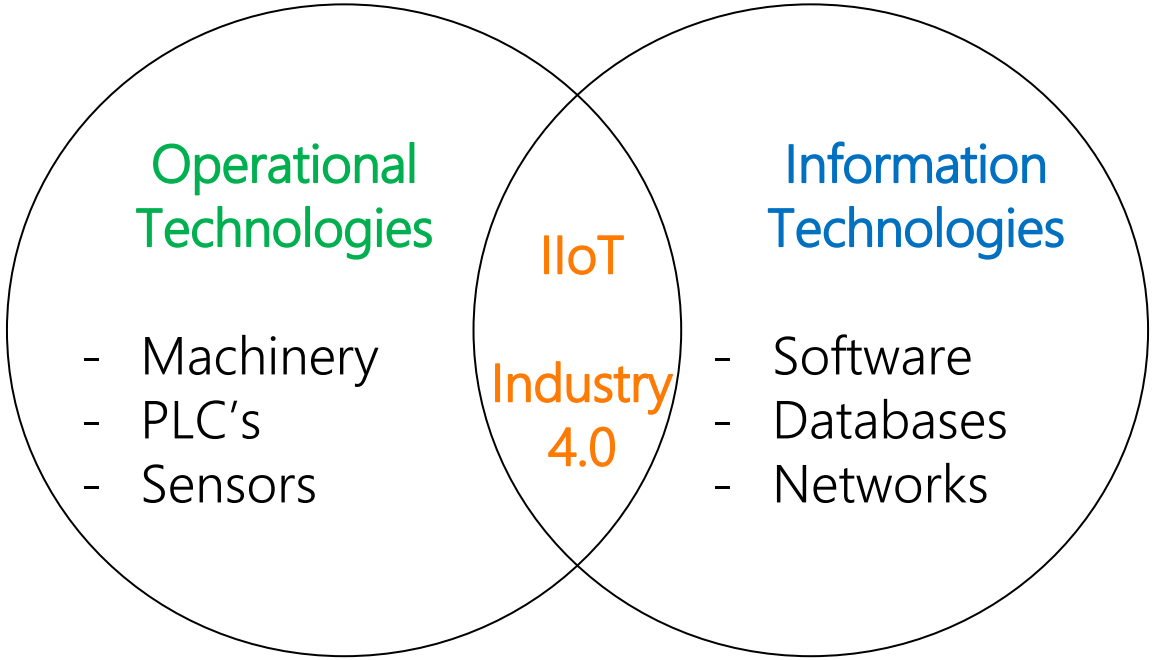
Wire break detection / diagnosis

FLEXIBILITY, INTEROPERABILITY

Flexible communication across a variety of hardware and software platforms:

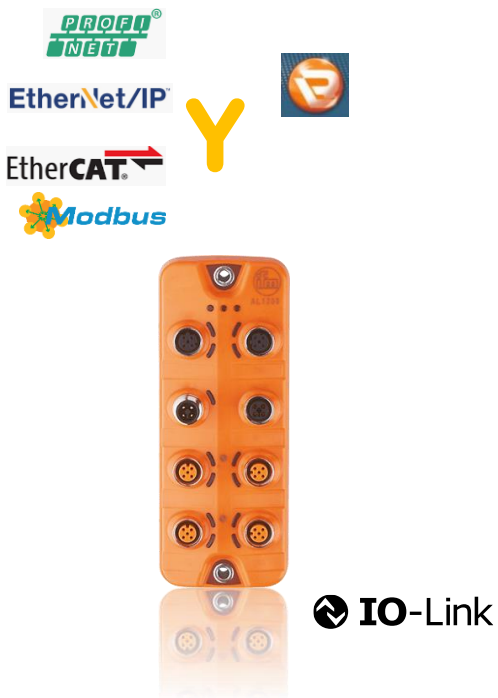
Conventional
IT Architecture





Smart devices using the Y path

Large choice of smart devices for pre-processing operations



IO-Link masters

Vibration diagnostic

Smart PLC

RFID Hubs

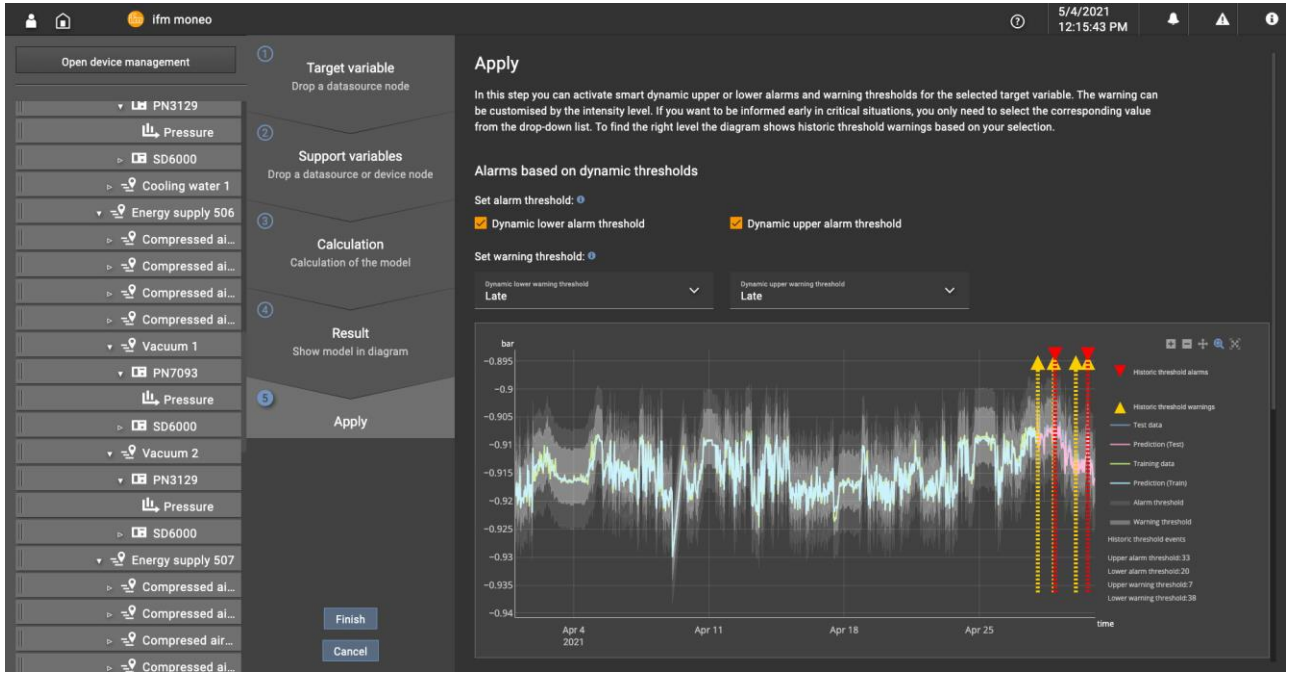
One platform for all requirements.

- Convenient real-time maintenance, energy and quality monitoring
- Simple plant monitoring with data flow modeler for calculated values / KPI
- User-friendly IO-Link sensor parameter setting
- Intelligent warning and alarm system using data science tools
- Easy diagnostic of vibration data with analytical tools

moneo DataScience toolbox : SmartLimitWatcher

5 Steps Setup Process

1. Selection of desired target variable for monitoring
2. Add support variables, which are suitable to control the process behavior of the target
3. Training of models (non-linear/linear)
4. Result evaluation and best-fit model selection
5. Set and activate the dynamic lower and upper alarms



moneo benefits

Easy installation and implementation

- Delivered as a package for Windows10 or as an appliance (virtual or physical)
- No code, only parametrization using a web interface

Easy creation and customization of dashboards

- On-line contextual help in 10 languages
- User-friendly interface, drag and drop, copy and paste functions
- No training needed, no need for automation engineering resources

Easy set-up of calculated values and KPI

- Extensive library of operators, templates defined by users

Quick and easy extension

- Scalable by just adding datapoints and connectors - southbound connectors with 65+ libraries (LR-Agent)
- Easy on-boarding of additional ifm devices (Vibration diagnostic unit, IO-Link masters) in 3 clics

Easy integration in IT environment

- Northbound connectors : http, MQTT and OPC UA

Solution for all

- Solution for all kind of users, for maintenance, quality, energy, production monitoring

Thank You & Any Questions