senzoro

IOT on Demand

Instant Machine Status Tracking with Smartphones

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Senzoro uses smartphones to detect downtimes of machines. We do this by just laying a smartphone on top of it. A live dashboard of all machines is up and running within one business day.

Problem

Automotive companies manage a huge supplier network of up to 10 000 different suppliers

Delivery problems at one supplier put the entire chain at risk

Specialized teams called “Task Forces“ are deployed on site to suppliers if delivery problems occur

All Task Forces face the same problem: Once at the supplier, understanding the situation on the manufacturing site as fast as possible is crucial

Currently, understanding the situation is a time consuming process

without adequate support by modern Technology

Problem

Understanding the situation relies on three sources

1. talking to many people
2. working through big data jungles of machine data
3. spending a lot of time standing in front of machines and "watching them"

Getting an accurate understanding of the situation takes 3 to 6 weeks

Current solution is inefficient and "manual" methodology has been unchanged for centuries

Solution

1

Place smartphone on top of each machine

2

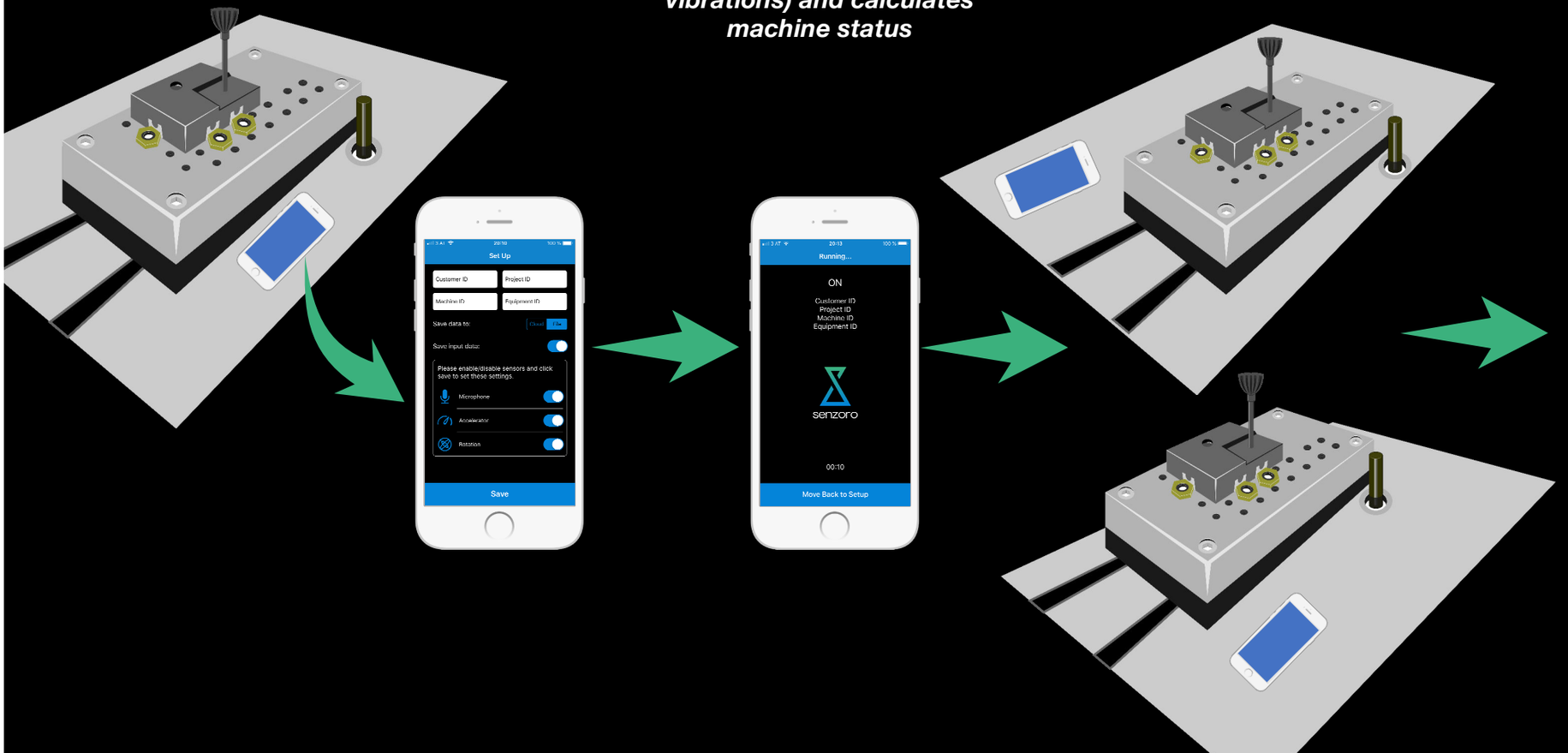
Start the app which then reads the sensor data (e.g. sound, vibrations) and calculates machine status

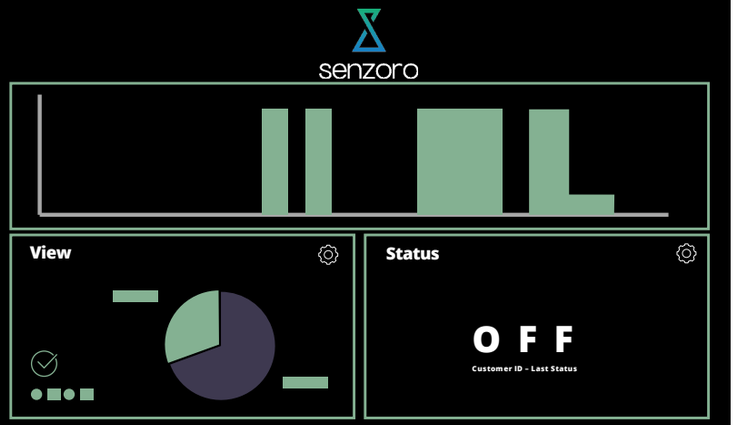
3

Repeat step 1 and 2 for as many machines as you want to track

4

Watch, analyse and customize your overview of all machine status





Why now

Recent advancements in Machine Learning lower the barrier to create highly accurate algorithms

Smartphones have become a highly reliable and unique piece of Hard- and Software

- Very reliable sensors which perform on par with high end industrial sensors
- High processing power to process data on the phone itself
- All major transmittingfunctions are integrated and offer highest flexibility for data transmission
- All pieces of Hard- and Software are made to perfectly work with each other

Mobile networks will further advance and reduce the effort to connect to cloud services

IOT taking off

First learning curve on “what works and what doesn’t“ behind us

Market

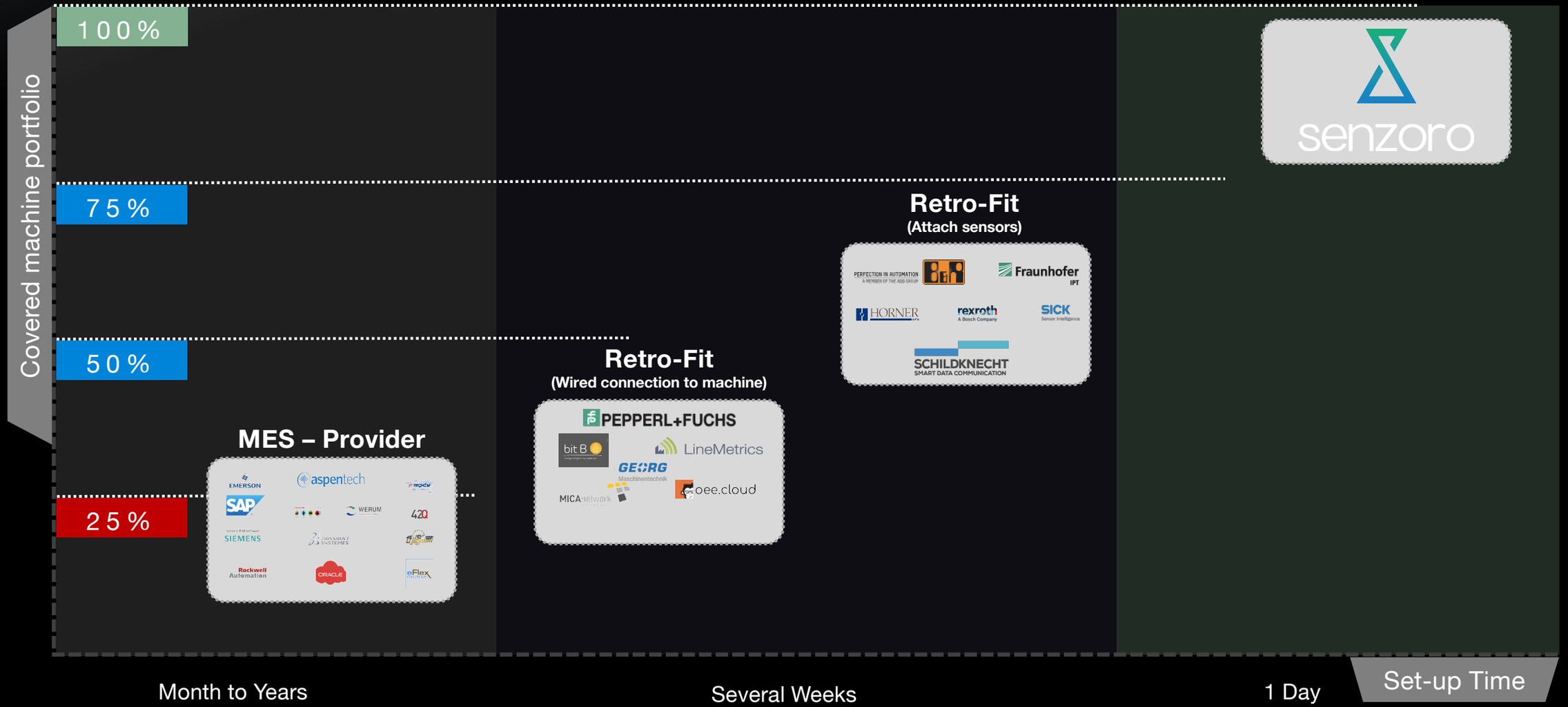
Global Market

Europe

Market Share

We charge a usage-based fee

Competition



No vendor in the market can install a system in one business day… Except Sensoro

No system is compatible with all machines in this world… Except Sensoro

Highlights

- *Rapid fast Implementation within one business day*
- *Hardware comes with all necessary certificates*
- *No critical (sensor) data sent to the cloud*
- *Approach is independent of machine type*
- *No wired connection to machine needed (Senzoro only attaches smartphones to encasing of machines)*
- *Small and lightweight hardware (smartphones)*
- *Full offline capabilities if cloud needs to be avoided*
- *Forward-looking: Unique data gathered for a totally new approach to predictive maintenance*

Markus Loinig

Chief Executive Officer

+10 Years of Automotive Exerience

Booz&Company
(Senior Manager Operations)

Daimler AG
(Lean Manufacturing Expert)

Ivan Vican

Head of Data Science

+5 Years of Experience

Bellabeat Inc.
(Lead data engineer for #1 ranked App)

INETEC
(R&D Data Engineer)

Ivan Fabijanović

Head of Technology

+8 Years of Experience

Bellabeat Inc.
(Lead iOS Developer for #1 ranked App)

Ekobit, Telegra d.o.o.,
ShoutEm, Muvr Labs
(Android, iOS, Backend)

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