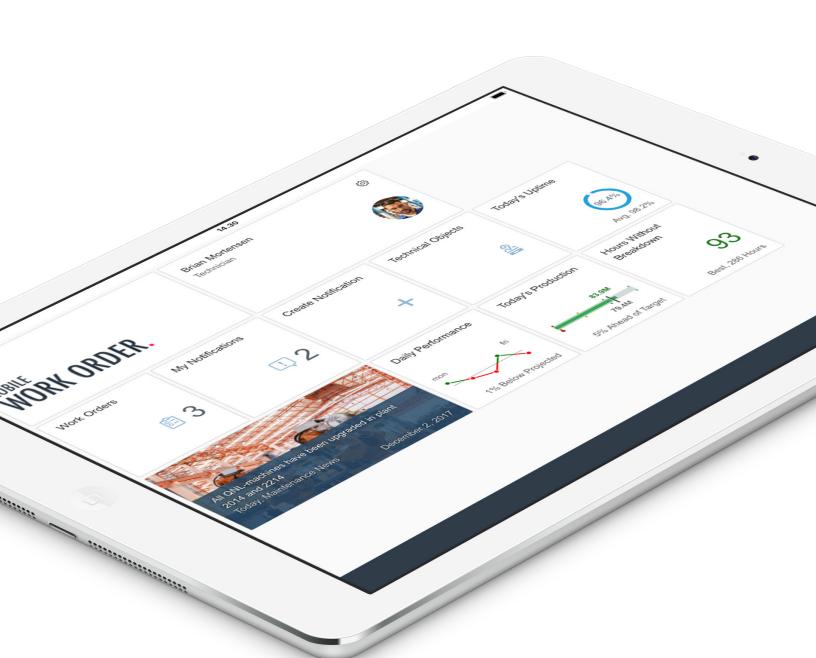
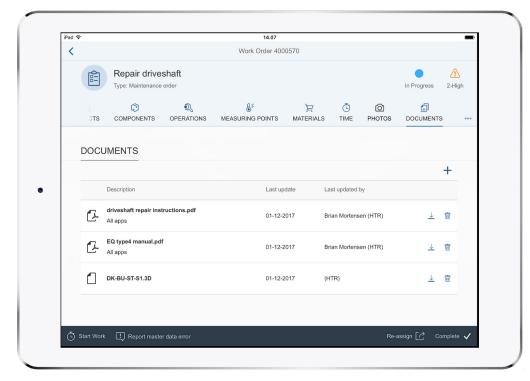
# 2BM MOBILE WORK ORDER.





## ARGUMENT ONE. GET IT RIGHT THE FIRST TIME



2BM Mobile Work Order supports your technicians with the right documentation.

You're under constant cost-pressure from senior management – at the same time you want to ensure that production runs smooth- According to the Aberdeen Group, field serly, and that means minimal downtime. How vice jobs that aren't resolved in a single visit can both objectives be reached?

Mobile Work Order – getting it right, the first first time. time.

### WHY IS FIRST-TIME FIX RATE IMPORTANT?

require an average of 1.5 additional visits to complete. The additional cost-pressure from The answer lies in improving the job-readi- repeat visits, repeat training and instructions, ness of your technicians and increasing your and repeat planning and scheduling, highorganization's first-time fix rate using 2BM lights the importance of getting it right the



### WHAT ARE SOME OBSTACLES TO ACHIEVING A HIGHER FIRST-TIME FIX RATE?

The common problems that 2BM has identified in relation to achieving a high first-time fix rate are:

- 1. Required spare-parts not on hand: The necessary parts may not be available, or the required tools may not be on-site.
- **2. Lack of assistance:** Technicians may not get the assistance and/or information they need to perform the repair.
- **3. Poor maintenance planning:** The maintenance planner may not have allocated enough time for the repair in the scheduling system. Or the technician has received inadequate or incorrect information on the location of the asset.

### WHAT ARE THE REPERCUSSIONS OF LOW FIRST-TIME FIX RATES?

When not getting it right the first time, the benefits of 2BM Mobile Work Order: maintenance organization wastes valuable resources such as technicians' time, as well **Enhanced information-flow:** Geographical as maintenance supervisors having to spend more time and effort on a single repair due to repeat training, instructions, repair guidance, and documentation.

### HOW CAN TECHNICIANS BE SUPPORTED TO GET IT RIGHT THE FIRST TIME?

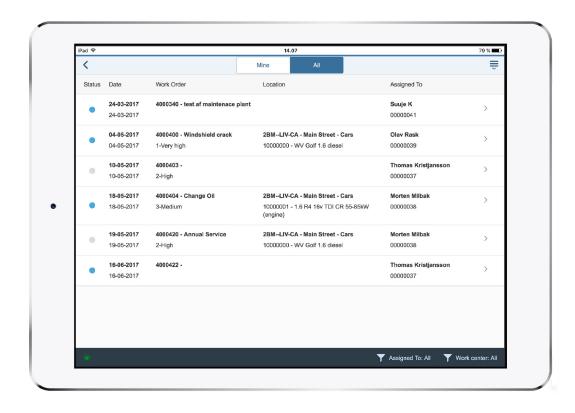
Higher first-time fix rates can be achieved through better repair guidance and documentation to technicians, access to real-time inventory information, and giving technician the ability to order spare-parts from the field.

2BM's 'Mobile Work Order', will be able to provide the technician the necessary information to succeed. Consider these

Information System-based knowledge on repair locations and storage locations where technicians can pick up materials, spare-parts and work tools.

Technical support: Provide technician with up-to-date documentation, schematics, blueprints, and information about known integrity-levels of critical infrastructure and equipment.

Clear instructions: Give maintenance technicians complete check-lists, measuring point details, and easy-to-read work orders with a precise set of operations to perform.





## **ARGUMENT TWO.** ACHIEVE BETTER DATA MANAGEMENT

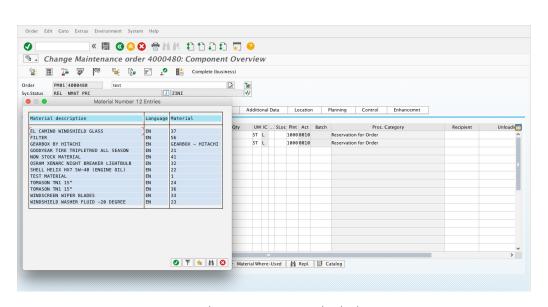
data.

### WHAT ARE THE CONSEQUENCES OF POOR DATA MANAGEMENT?

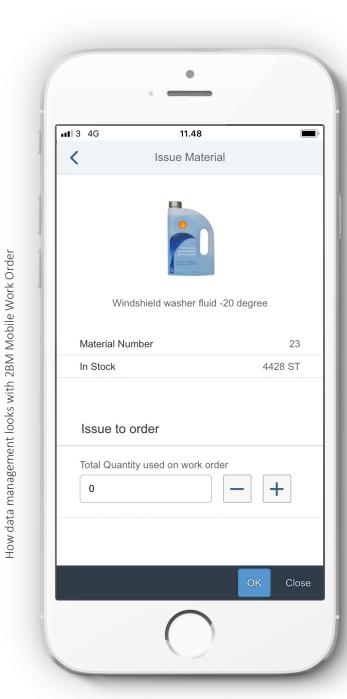
Lacking visibility into work processes, lowquality spare parts management, inventory leakages and poor work scheduling are the results of incomplete or inaccurate data reporting.

SAP Plant Maintenance is focused on the right 
An inefficient and slow field service spare data entering the system. The purpose of 2BM parts ordering system creates difficulties and Mobile Work Order is to facilitate this process hurdles for maintenance-schedulers because by recording relevant cost information, and they have less accurate information on parts document work order completion - while and materials ordered from the field. Spare supporting your technician with real-time parts suppliers are at risk of running late, with deliveries at risk of being damaged or lost.

> Poor parts management adversely affects first-time fix rates because technicians do not have the right tools at the right times to perform the work order.



How data management used to look.



### WHY A MOBILE SOLUTION WINS.

Perhaps your technicians might write down incomplete information on their job cards because they find data entry burdensome and timeconsuming.

With 2BM Mobile Work Order, easyto-fill-out and pre-defined fields allow for complete data on materials used to be entered into the system.

This allows your maintenance supervisors to view in real-time exactly what materials are being used, or requested in the field.

Furthermore, 2BM Mobile Work Order's advanced material look-up functionality makes it easy for the technician to find materials needed for a repair and request it from head office if it's not in stock.

The result is increased reliability of data, with maintenance-planners receiving the same quality and quantity of information on a day-today basis.



### **IMPROVE DATA MANAGEMENT** WITH 2BM MOBILE WORK ORDER.

2BM Mobile Work Order will allow your maintenance organization to receive the right data, which will lead to betterquality costing, budgeting, and forecasting.

### TECHNICAL OBJECTS

you record and identify the correct to record measuring-point data, and technical object data from SAP PM because the app will synchronize rapidly including which factory and plant the with head office, your maintenance maintenance work has been performed supervisors will have instant access to at, and which machines and equipment data direct from the field. were inspected or repaired.

### **MEASURING POINTS**

2BM Mobile Work Order can help 2BM Mobile Work Order makes it easier

### TIME REGISTRATION

app itself, instead of first recording it on their job cards and then later entering the information into a head-office SAP PM workstation.

### MATERIALS MANAGEMENT

With 2BM Mobile Work Order, 2BM Mobile Work Order records technicians can record time used in the materials and tools used and thereby enabling higher-quality costing and itemization – facilitating better-quality procurement and sourcing, improving warehouse and logistical processes.





### TO SUM UP.

With 2BM Mobile Work Order your maintenance-planners can correctly add items to bill of materials, and they can more accurately gauge the performance of maintenance work performed on the asset. This will allow you to benchmark technician performance and help your maintenance-schedulers pinpoint qualification gaps.

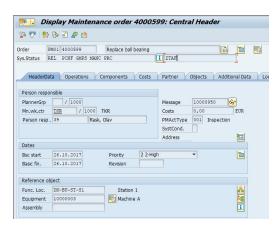
# **ARGUMENT THREE.**ACHIEVE A GREAT USER EXPERIENCE

Changing social environments and higher requirements for user-centric and simplified design, means that a good user experience is a critical parameter for the success of mobile asset management.

# WHAT ARE THE CONSEQUENCES OF POOR USER EXPERIENCES?

Without a good user experience, your employees will resort to workarounds to avoid using the solution, which means a diminished business case realization.

If user experience is poor, employees will feel disgruntled and feel that the mobile solution was 'forced' on them, and this will lead to poor productivity because of the fall in morale.



Handling SAP PM in the classic SAP GUI

### WHAT IS A GOOD USER EXPERIENCE?

A good asset management user experience is based on a simplified, smooth, and enjoyable work process – 2BM Mobile Work Order achieves this with intelligent layout of buttons and a streamlined approach for clicking between pages for swift and intuitive navigation.

2BM has discovered that maintenance workers want reduced complexity in a mobile solution because it enables them to focus their attention on the work they're performing, without having to exert disproportionate effort on time-consuming documentation.

We have learned that ease of use and simplicity enhances an organisation's ability to promote repeatability of time-saving work patterns, and that workers prefer a predictable user experience.

2BM Mobile Work Order enables a predictable user experience, helping you standardize work processes, without compromising responsiveness to changing circumstances.

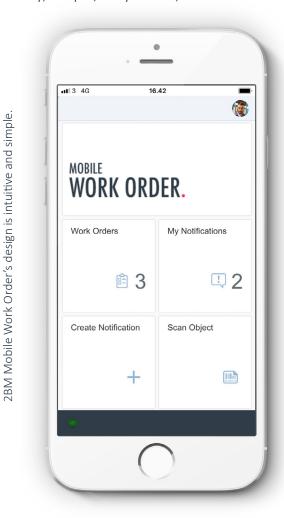
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### WHY IS USER EXPERIENCE IMPORTANT?

A good UX impacts business value – the benefits of a good UX are derived from: • Higher productivity • Increased user adoption • Decreased user errors • Saving costs on training

A good user experience drives user adoption and engagement. Bringing a business case for mobilizing plant maintenance to life is achievable, but it requires that your technicians are onboarded on the new solution.

Onboarding of technicians can be facilitated by 2BM Mobile Work Order because it is user-friendly, simple, easy to use, and eliminates unnecessary processes.



# HOW CAN YOU ACHIEVE 'CONSUMER GRADE' USER EXPERIENCES?

We have made it our mission that 2BM Mobile Work Order's user experience is improved by faster app load and rendering times, making sure the interface is not text heavy, and ensuring that it features intuitive navigation and button placement.

A good user experience should be realized for all roles, backgrounds, educational levels, languages, working styles, geographical climates, etc. 2BM has achieved this with 2BM Mobile Work Order by using Design Thinking in the planning and design phase, and including maintenance technicians in this process.

### TO SUM UP.

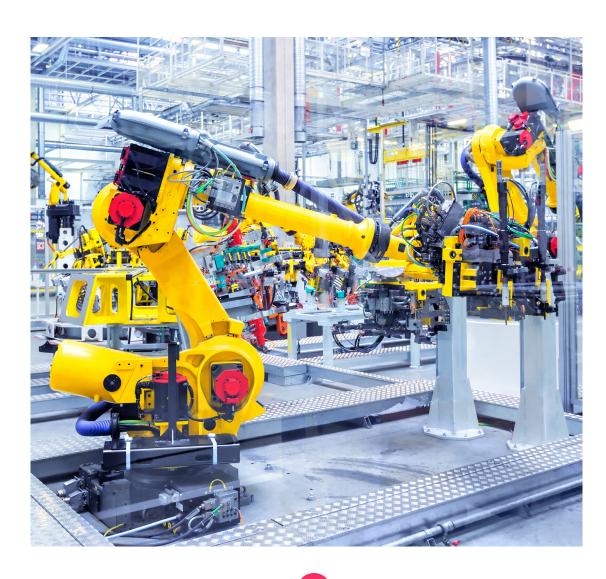
A good user experience will increase your technicians' motivation. Furthermore, your technicians will take ownership of the maintenance work process and become ambassadors for the new mobile solution and consequent new way of working — with reduced errors in data registration and reporting.

# ARGUMENT FOUR.

### **Enhance your maintenance with the Internet of Things**

In the era of digital transformation, it is be- the challenges of stepping into industry 4.0? growth in efficiency – how will you confront

coming more important to keep up with a The answer lies in taking your first step tochanging competitive landscape in asset wards true Predictive Maintenance through management and production. Organisations the use of Internet of Things (IoT) detoday face the dual challenges of escalat- vices, using Machine Learning and Artifiing costs, and a demand for exponential cial Intelligence. Read on to find out why.



### THE WHY.

organizations today employ maintenance. replacements of equipment, machinery, failures, before they happen. and components. This is furthermore combined with a reactive approach to asset Using 2BM Mobile Work Order's IoT management, wherein asset integrity levels module, maintenance notifications can be are not monitored, resulting in repair work performed after the machinery has broken specified conditions and thresholds. When down.

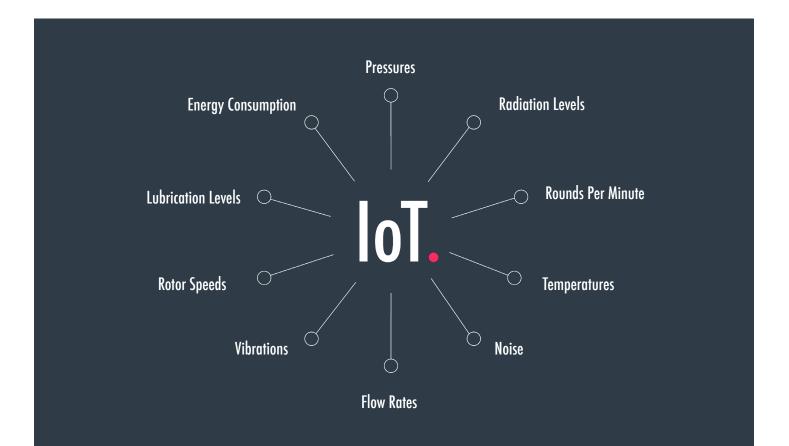
moves your asset management from reactive automatically. or planned to predictive maintenance, and allows you to reap the benefits of sensor- 2BM's sensor technology will analyze KPIs' based condition monitoring. 2BM Mobile Work Order with its sensor-based IoT module machine level by measuring attributes of the represents such a solution.

### THE HOW.

Asset-intensive organisations lose millions 2BM Mobile Work Order supports your everyday due to breakdown, line stops, technicians to get it right the first time. At and inefficient utilization of assets. Many 2BM, we have taken it one step further by planned integrating advanced state of the art IoT on scheduled functionality, for organizations to prevent

generated automatically in SAP based on the notifications are received a planner can convert them to work orders or the system This can be prevented by an IoT solution that can take care of the entire process and do this

> (Key Performance Indicators) down to the Digital Twin.

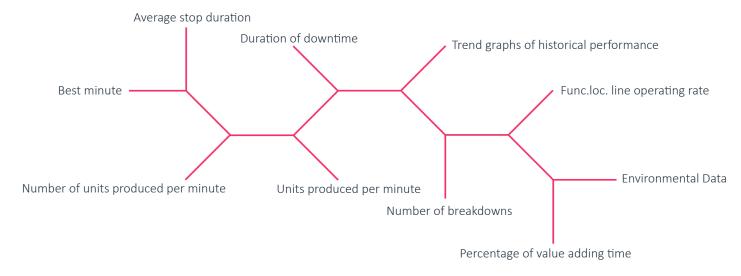


#### 2BM MOBILE WORK ORDER'S IOT MODULE.

2BM's IoT functionality comes with Virtual according to severity and criticality. The alerts Inspections using video-feeds. The technicians are created when KPI thresholds are breached. will use the time-stamp of machine breakdown These thresholds are based on machine and and scroll to that exact time in the video equipment conditions, or the production line. recording to see what actually happened at the time of failure.

Furthermore, 2BM Mobile Work Order's IoT Finally, the IoT module contains KPIs using and weather circumstances, categorized including:

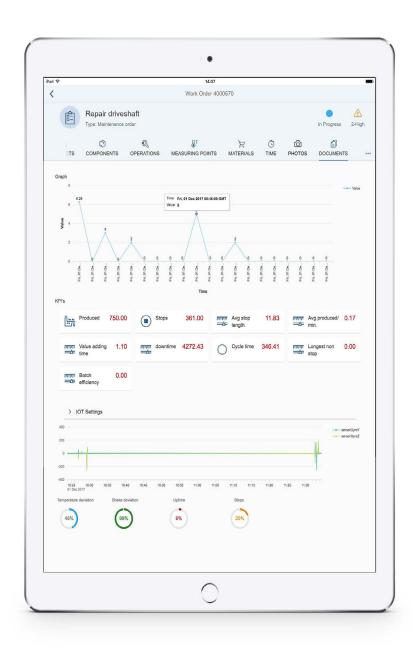
module includes alerts, thermal conditions data visualization through graphs and charts



### WHAT YOU WILL ACHIEVE WITH 2BM MOBILE WORK ORDER 10T.

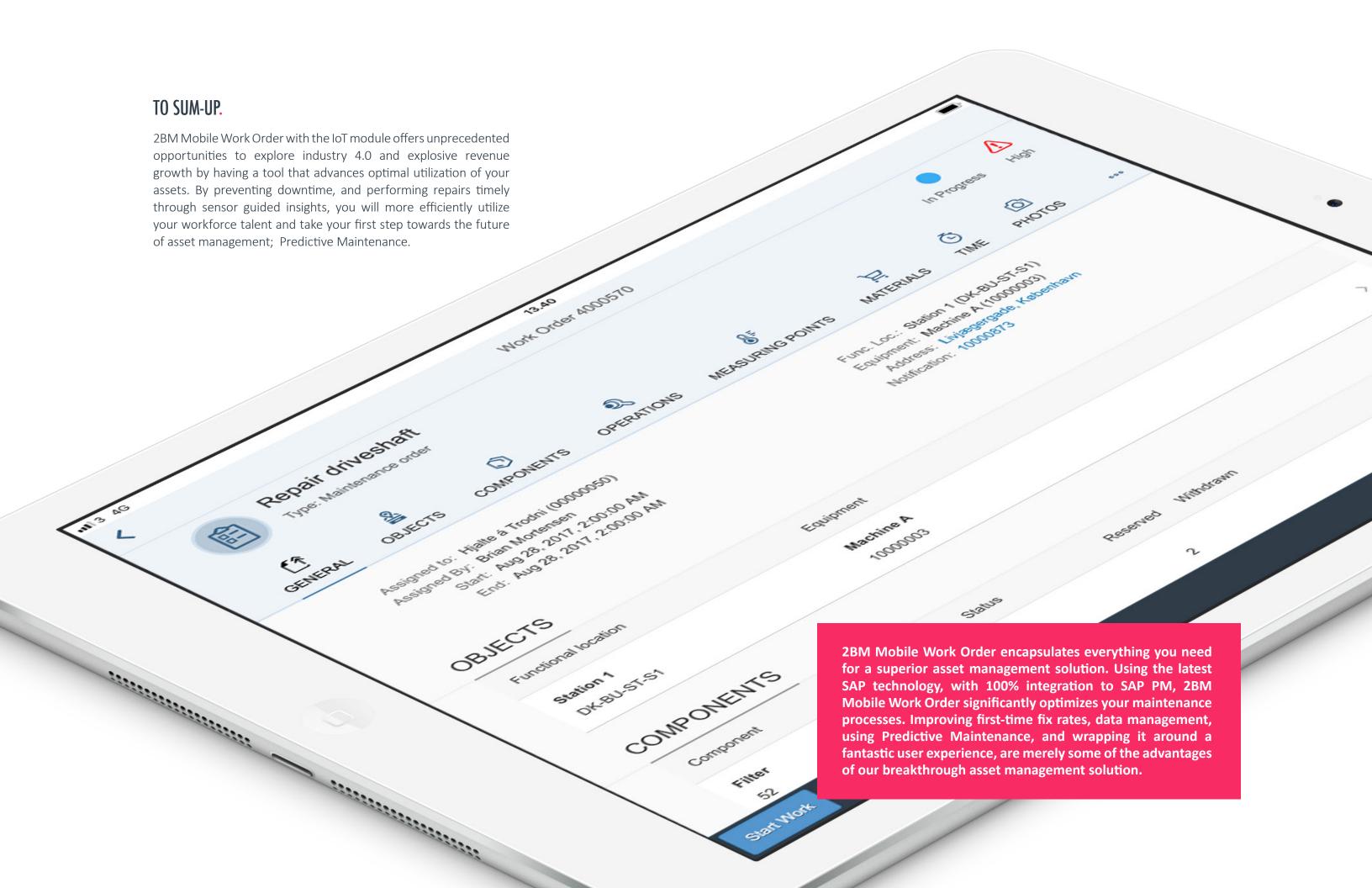
2BM Mobile Work Order's IoT functionalities allow you to improve response time to failures, as well as enhance documentation of technicians' response times through accurate time registration. By augmenting SAP PM functionality, 2BM Mobile Work Order improves maintenance planning with insights from IoT sensor data. 2BM Mobile Work Order's IoT module provides the following competitive advantages:

- Activate safety protocols for technician based on asset condition including protective gear and which safety checklist to follow.
- Using KPIs, video feeds and alerts, maintenance planner will target which sensors and data to analyze.
- Decrease investigation time into malfunction as technicians will know which component to replace, and has the necessary documentation.
- Benchmark response quality and speed for failure correction.



#### **IOT HARDWARE**

2BM Mobile Work Order IoT Module uses an In addition, machine learning algorithms industrial-grade sensor technology that easily do the investigative work for you, analyzes is installed in your machinery and equipment. the data, look for patterns and create new The sensor data is relayed to a Cloud Server, notifications and work orders that are directly which contains sophisticated machine relayed to your SAP PM system. learning algorithms that turn the data into actionable insights, e.g. KPI's and dashboard visuals (graphs, charts).





### ABOUT 2BM.

2BM is a leading SAP consulting and software development company that brings tomorrow's technology into today's business practices. In 2000, the company was founded with the purpose to support forward- thinking and quality-conscious companies and organizations, primarily with mobile Enterprise solutions. Since then, the company has grown from being one of Denmark's and the Nordic region's leading specialist companies to being a strategic full service provider, delivering optimized business value across technologies, platforms, and products.

2BM is a member of the United VARs network – the largest global alliance of SAP channel partners. The network covers more than 80 countries and gives our clients access to more than 7,500 highly qualified and experienced SAP consultants.

Find the Mobile Work Order app in your app store and experience the future of maintenance yourself















