



INNOVATION FOR
A SMART FUTURE

WE BOOST SAFETY AND PRODUCTIVITY

Innovative software for work safety
and plant productivity.

SOLUTIONS FOR
INDUSTRY



DOMAINS



Machine Learning



Artificial Intelligence



Internet of Things



Augmented Reality



Virtual Reality



Data Visualization

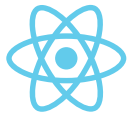


Data Analytics

TECHNOLOGIES



Angular



React



Swift



Java



Kotlin



Objective-C



HTML5



Spring



Kubernetes



.NET



C#



Google Cloud Platform



Azure IoT



AWS



NB-IoT



LoRa



SigFox



Vuforia



TensorFlow



ARKit



Android Things

WHO WE ARE

There were four of us when we founded eMan in 2010.

Our team has more than 100 people today and you can find us both in Europe and in North America. We have over ten years' experience in development, operations, quality assurance, and servicing information systems as well as graphic design.

We develop applications for smartphones, tablets, web, cars, and other smart devices. Our clients include local companies as well as global corporations. Our products have saved users millions of dollars and are used by millions of people every day.

MICHAL KOSEK
COO

TOMAS CERMAK
CMO

JIRI HORYNA
CEO

JAN HORYNA
CSO



WHAT WE DO



WE PROVIDE SOLUTIONS FOR CONNECTIVITY AND MOBILITY

- Connected Worker
- Connected Plant
- Wireless and Cloud Connectivity



WE DEVELOP SOFTWARE WITH TOP USER EXPERIENCE

- Intuitive usability
- Smooth end-user experience
- Streamlined and paperless processes



WE DELIVER THE BEST RESULTS FOR YOUR BUSINESS

- Immediate productivity gains
- Increased safety for the worker and company assets
- Data-Driven-Decision via data visualization, real-time data, AR, AI, etc.



HOW WE WORK

1

IDEA

The customer approaches us with an idea, either a work in progress or a green-field project.

2

FEASIBILITY PHASE

We produce a prototype, POC, MVP, and use existing platforms for fast and effective testing – rough starts pay off in the long run.

3

TESTING LIMITS

We identify the potential hardware challenges and obstacles, e.g. power consumption, wireless range, and connectivity.

4

SOLVING ISSUES

We work on solving the identified hardware and software issues in the most effective, convenient, and proven way.

5

VISUALIZATION

We come up with a visualization of our outputs, provide screenshots of the applications and hardware datasheets.

6

VOICE OF THE CUSTOMER

We collect customer feedback and perform in-field testing in order to achieve the solution that really helps the potential users.

7

CONSULTATION

We provide consulting in order to pass the solution into series production and help to obtain various hardware safety certifications.

8

CONTINUOUS IMPROVEMENT

We continually work on improving the solution with regard to technology development and customer requirements.

WHY CHOOSE US



FLEXIBILITY

Do you need a partner who is able to complete projects and hit milestones?

We offer qualified leads and flexibility to your digital projects.



SKILLS

Do you have trouble getting specifically skilled people for the project?

We have just the right set of skills to define and complete the task.



RESOURCES

Do you need people available at the moment and your team is already engaged?

We fill in your timelines and provide experts just when you need them.



ADMINISTRATION

Do you have to cope with burdens like late POs, lack of approvals, and rushed invoicing?

We support your financial administration and help with decision making.

SELECTED CLIENTS

Honeywell

MND

EAT•N

e-on

**PRAŽSKÁ
PLYNÁRENSKÁ**

MIWE

LINET

JABLOTRON
CREATING ALARMS

**BOHEMIA
ENERGY**

**CSA CZECH
AIRLINES**

We've developed a great partnership with eMan over the past 4 years working together. Their dedication to delivering the best result in a given time is typical for any type of work they deal with. I appreciate their attention to detail and creative approach to bringing our challenging industrial IOT projects to the next level, milestone, or prototype with a great level of professionalism for software development. I was always glad to have the eMan team onboard for my project as it was a sure sign that the job would be done well and fast.



FRANTISEK KUST

2014–2018 Innovation Program Lead
Honeywell

WE MAKE BOILER MAINTENANCE SAFER AND EASIER

Perform service maintenance of boilers safely and effectively

Before

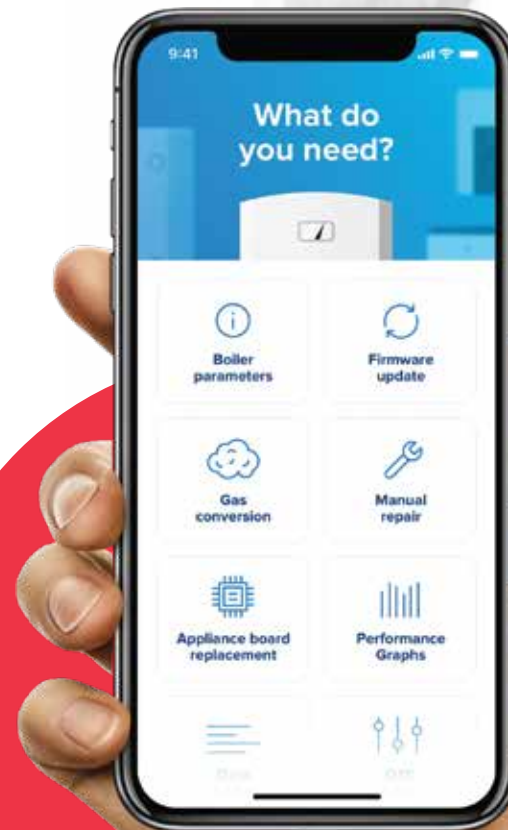
The technicians used a handheld device requiring a wired connection which could be dangerous in hazardous areas. They filled out paper forms and no data was stored.

Our Solution

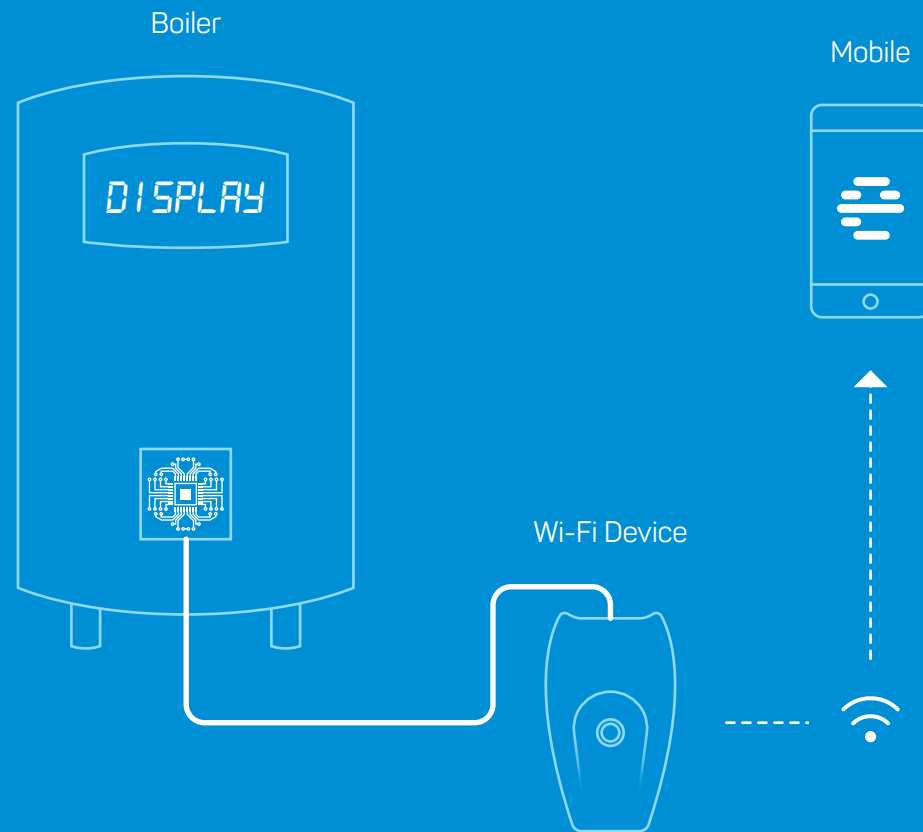
The technicians use a smartphone with a mobile app connected via Wi-Fi to the small gadget attached to the boiler. The servicing is easy – from initial setup to advanced operations.

Result

The technicians are safe and mobile. The process is standardized – thanks to great UX/UI design the same app is valid for multiple models; data are similarly visualized and less training is needed. The data of each boiler is stored which allows for thorough diagnostics.



HOW DOES IT WORK



WE MAKE YOUR SMART EARMUFFS EVEN SMARTER

Ensure the overall safety of workers in a noisy environment

Before

The workers wore headphones with passive or frequency-based active noise cancellation. They did not hear alarms or other signs of danger which conflicted with their physical safety.

Our Solution

The earmuff is connected to the private cloud where a machine learning module processes real work-life data and detects audio events such as alarms.

The data is then copied to all earmuffs in the workplace.

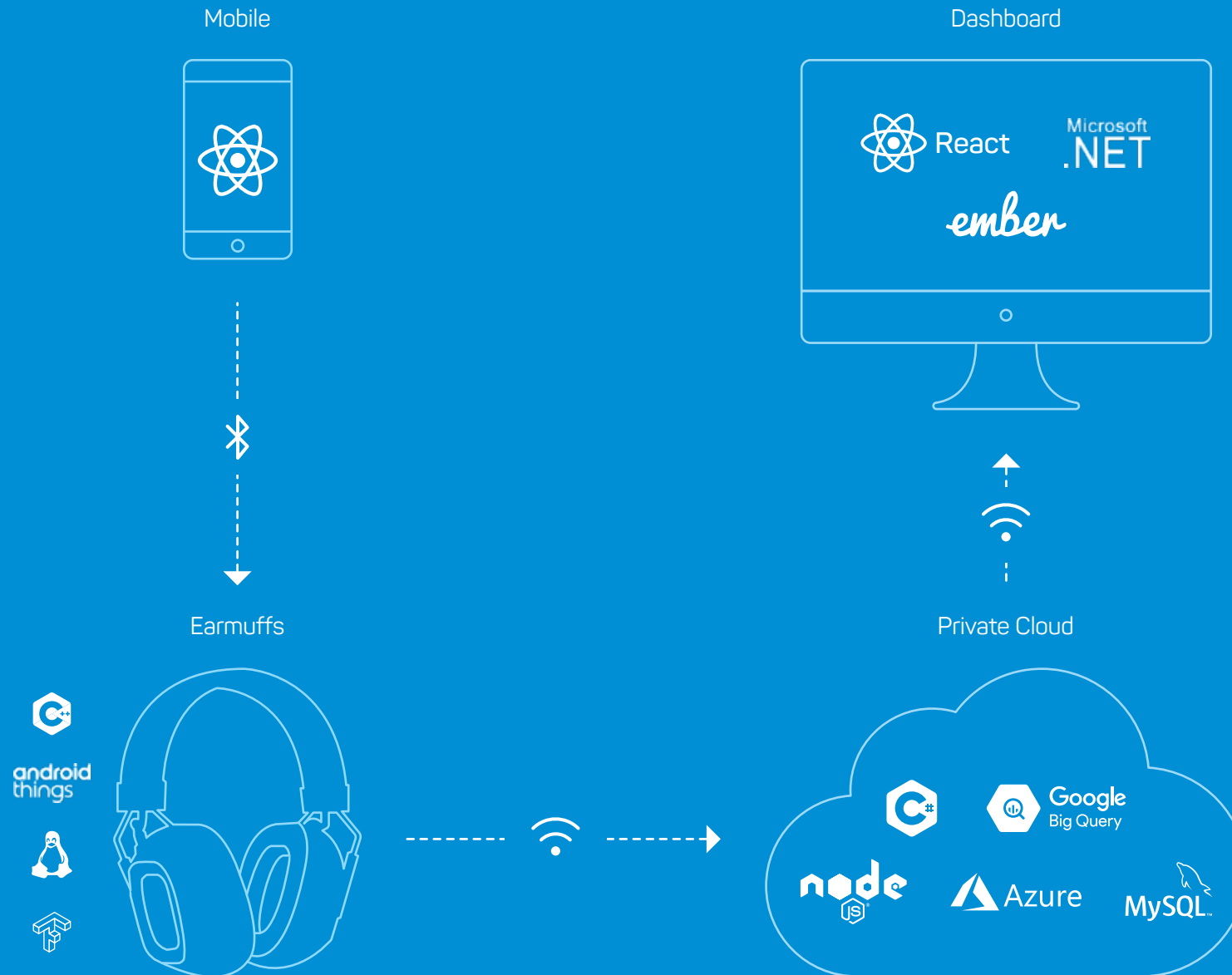


Result

The workers hear important sound signals allowing them to wear the earmuffs all the time. The solution controls the exposure time of individual workers and maps the noise location and frequency of events. The data is stored and can be used for safety enhancement.



HOW DOES IT WORK



WE USE AUGMENTED REALITY TO INCREASE PRODUCTIVITY

Repair the aircraft using both hands and no paper manual

Before

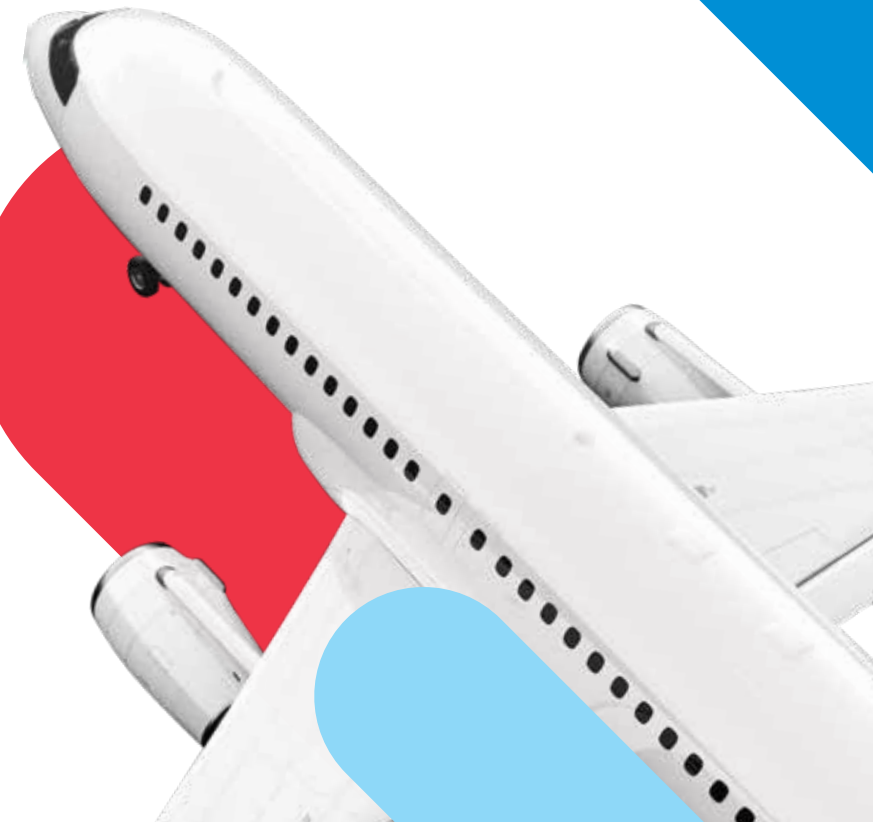
The operators used paper checklists and heavy maintenance manuals. There was a risk of unintentional task omission, data was not organized, and the productivity was lower.

Our Solution

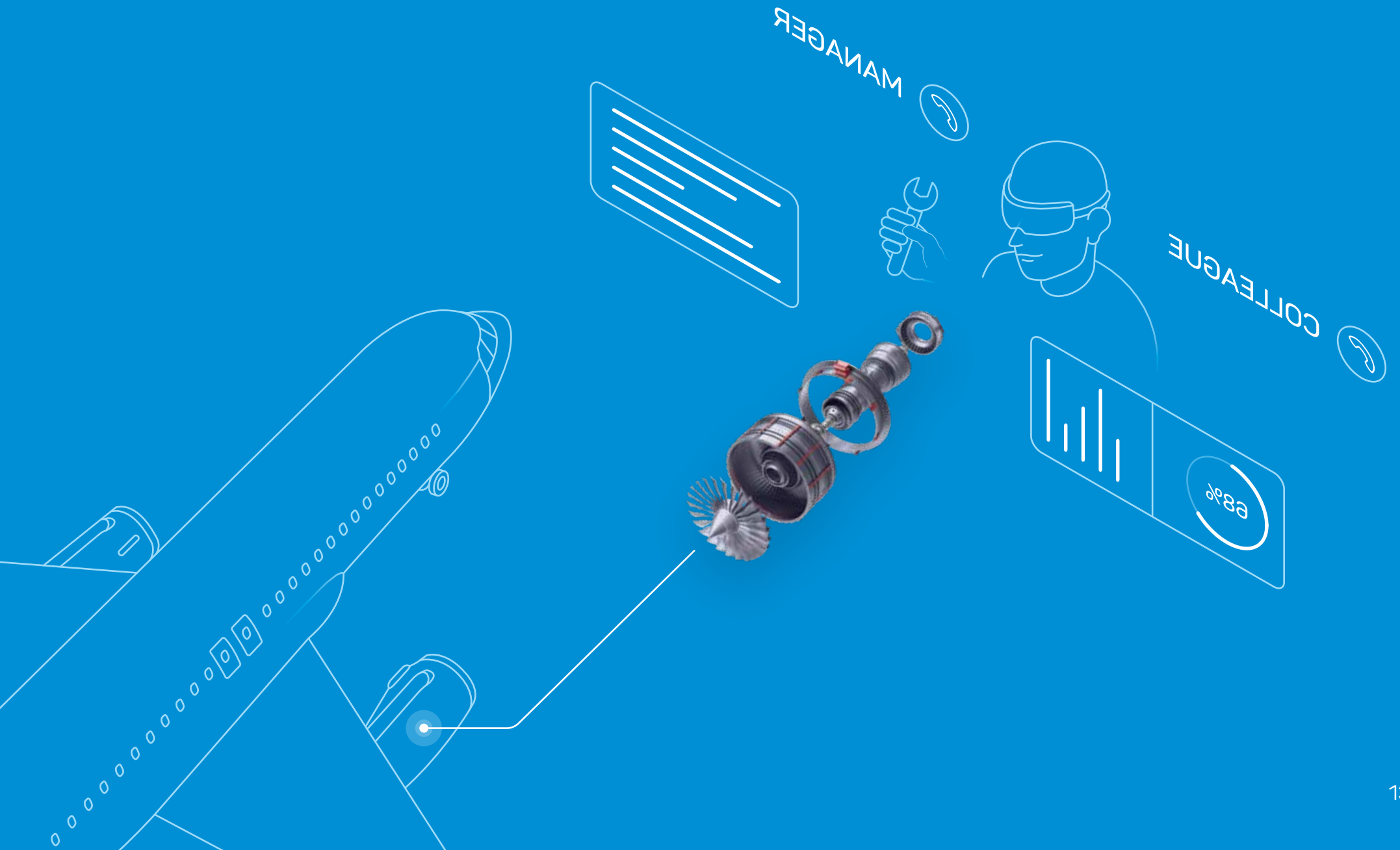
The operators receive all information on a single dashboard – about the maintenance or repair tasks, the list of needed tools, and controls to be performed. The solution is connected to the cloud and contains several AR features.

Result

Both productivity and safety are massively enhanced. The operators have all the information they need and tasks take less time because of AR support. Also, the training is more efficient and processes are standardized.



HOW DOES IT WORK



WE DIGITALIZE THE JOURNEY OF YOUR CUSTOMER

Help your customer to buy your service at ease

Before

Never-ending phone calls, piles of paper, and entering data in SAP or other software manually – that was the daily agenda of customer care specialists. No data was stored and it was nearly impossible to track anything.

Our Solution

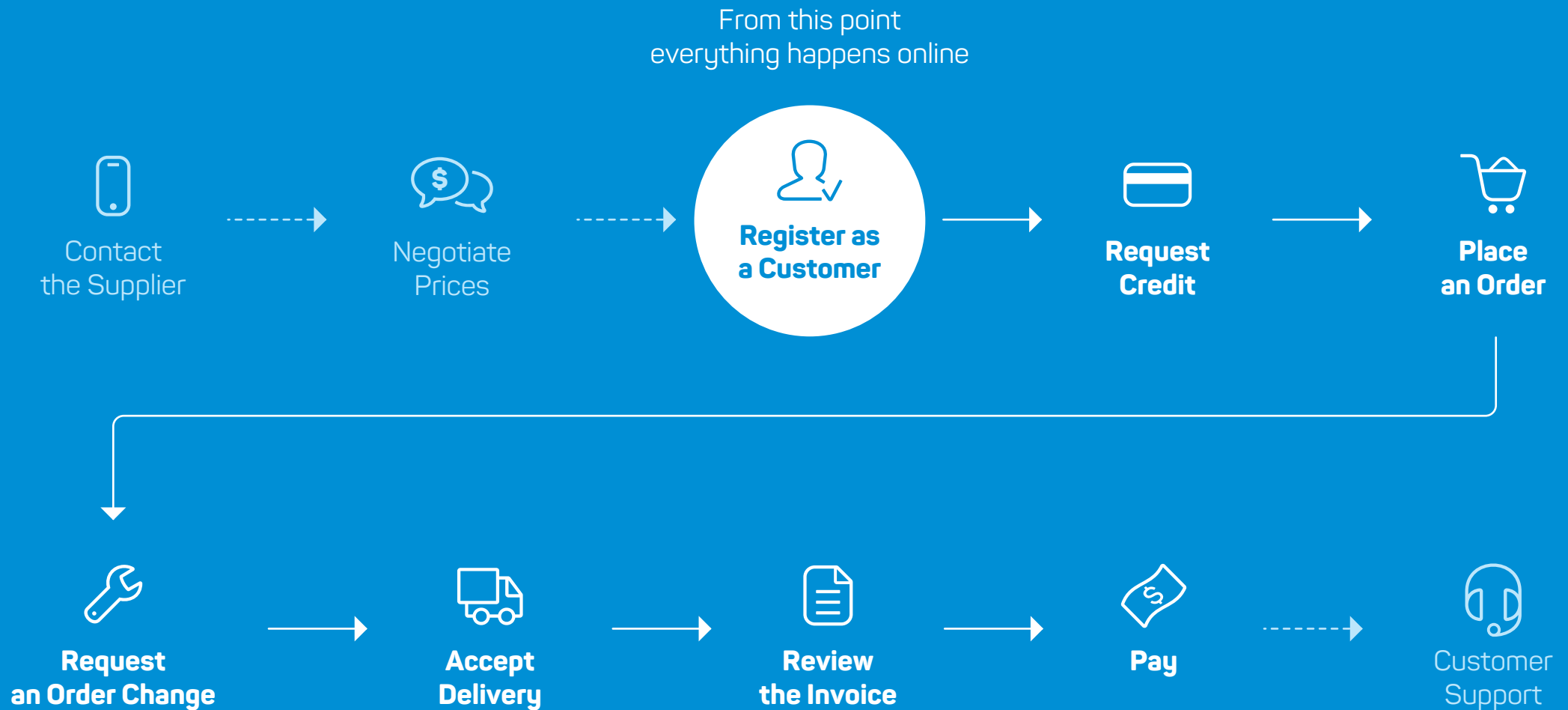
The customer journey is managed via software – from the service request to the actual delivery including the fleet management module. All data is collected and stored.

Result

The whole process is faster and leaner. Analysis of the collected data can be used for optimization of routes, loads, customer needs, or priorities. Top-notch UX/UI design makes tasks easier for customers as well as employees.



HOW DOES IT WORK



WE DEVELOP FIRMWARE FOR GAS-LEAK DETECTORS

Be notified of any leak you cannot see or hear

Before

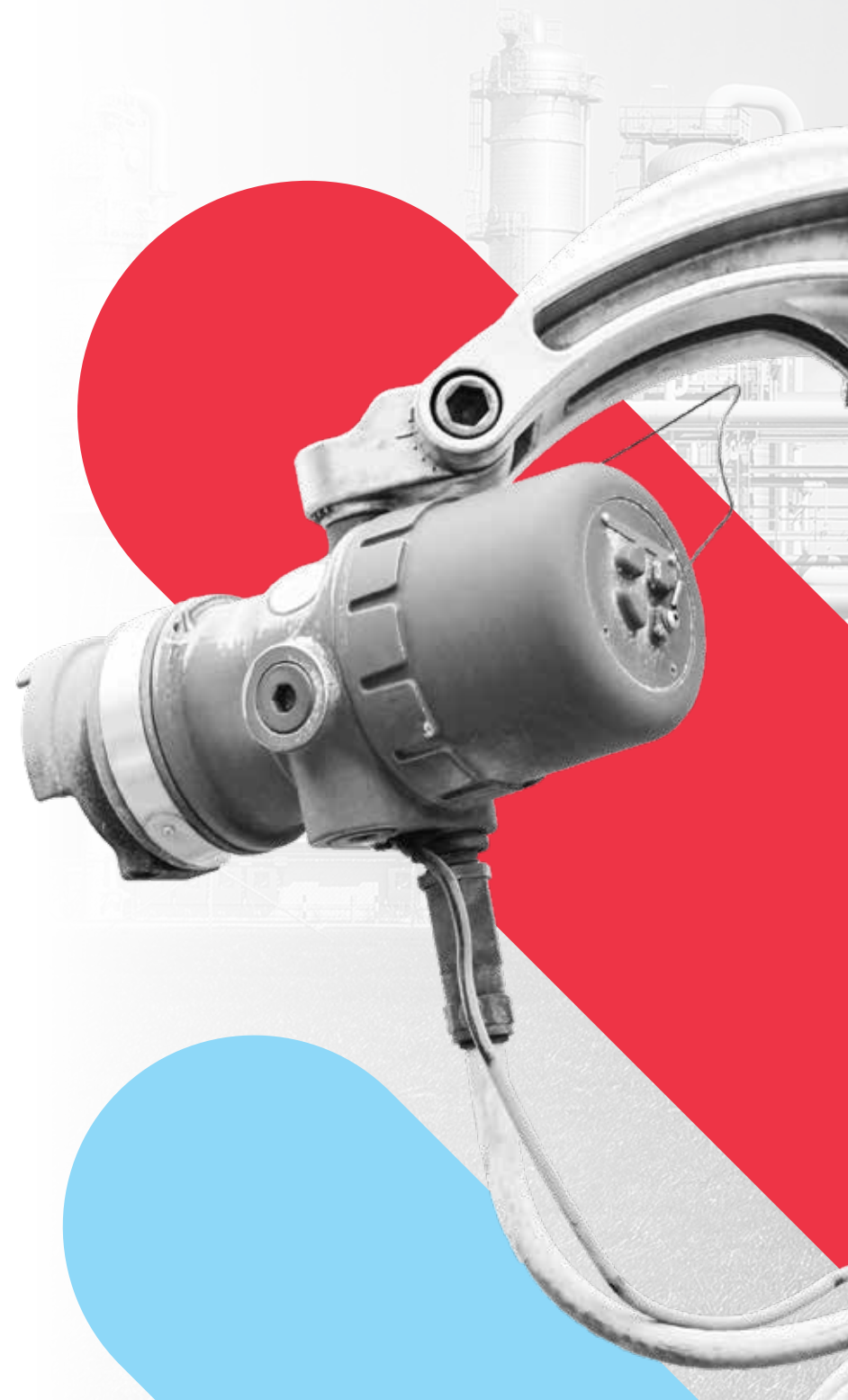
Each area was controlled by a wired device. The overall safety thus relied on a single wire and provided power source. No data was stored, and installation and access were quite difficult.

Our Solution

The acoustic sensors of the ultrasonic gas detector identify fluctuations in noise that are imperceptible to the human ear. The device includes a wireless module, is extra reliable, and its explosion-proof case meets the industry standard.

Result

This safety device improves overall safety because of enhanced connectivity. The installation, operation, and maintenance are smart and easily performed. Stored data leads to data-driven decisions.



WE TRANSFER SPOKEN SPEECH TO WRITTEN TEXT

Enhance safety on planes with modern technology

Before

The conversations inside the cockpit, with flight controllers, and airport towers, were recorded in a basic audio flight recorder. The crew experienced difficulties understanding because of background noise, rate of speech, and accents.

Our Solution

The audio from the intercom is captured onto a tablet, the background noise is filtered out, and the speech is transcribed. The pilot and copilot see the conversation in writing and the outstanding UX/UI design allows for easy use.

Result

The safety is improved as the pilot and copilot can validate the ongoing communication with each other, the tower, and the flight controllers, visually. There is an opportunity for future pre-flight checklist automation.



OTHER PROJECTS



SMART CARS



SMART HOME



SMART SPORT



IOT CLOUD



GEOLOCATION



SECURITY SYSTEMS

IT PROFESSIONALS BODYSHOP

We provide IT Specialist Outsourcing

- Onsite (Europe, US) and remote specialists
- Legal compliance and turnkey paperwork

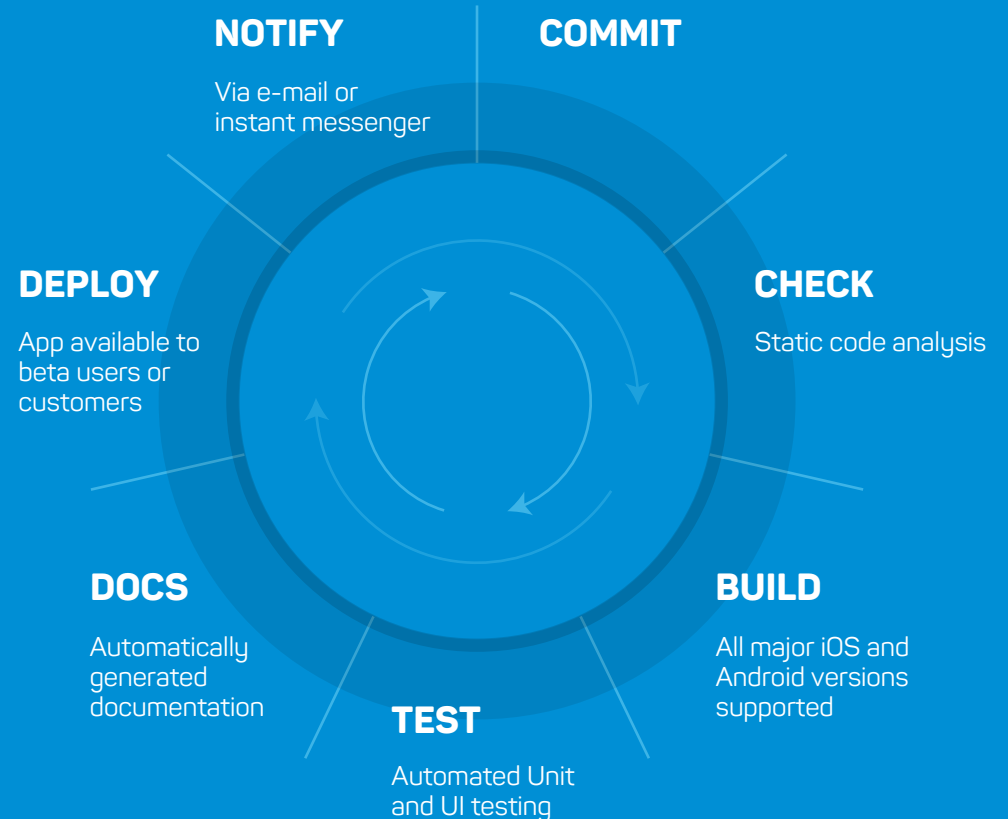
We handle applications meant for end users

Our experts work on-site and ensure the CI/CD process and code review of all clients' applications. They also provide analysis and track trends in the technological world.

We help digitalize companies

The eMan team makes processes easier and eliminates useless paperwork. Our onsite experts implement web and portal applications which gather all information the users may need.

CI/CD Process





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