



.Software development

Company
Presentation



Bielsko-Biała 2023

For over

20 years

we have been providing

software

We are a team united by **a fascination with programming and a passion for modern technologies.** We have been in operation since 2000, and through the successful completion of hundreds of projects, we have gained valuable experience. This enables us to extend our services into new areas of the B2B market.

Our skills are the result of blending our academic expertise with years of practical experience acquired through the execution of innovative and challenging projects, all aimed at the primary objective of enhancing our clients' business profitability.

In 2016, we established a separated company called Mechatronika.net, stemming from our internal R&D department. Its focus is the development and production of various products, including controllers and specialized embedded software solutions.

About us:



Over

700

completed
projects



20+ years
in the IT market



Free

offer consultation

What are the areas of services of e-lan s.c.

In delivering our programming services, we remain mindful of the fact that the demand from our clients is continuously on the rise. As part of our operations, we propose, among other things:



**HARDWARE
SOLUTIONS
CONSULTING**



**BUSINESS
CONSULTING**



DATA BACKUP



**PROGRAMMING
SERVICES**



**ARTIFICIAL
INTELLIGENCE**



HOSTING



**DEDICATED DATABASE
SYSTEMS**



**DEDICATED CRM
SYSTEMS**



**WEB
APPLICATIONS**



**MOBILE
APPLICATIONS**



**CLOUD
APPLICATIONS**

Technologies in which we create

In selecting a programming platform, we prioritize a thorough analysis of your requirements and also consider the potential for project expansion.

BACKEND:



PHP



C#



.Net Framework



C++



ASP.NET



Delphi



PostgreSQL



Skrypty powłoki



MSSQL



MySQL

TOOLS:



GIT



SVN



Visual Studio



Visual Studio Code



SQL Server Management Studio



phpMyAdmin



NetBeans



npm



Unity

FRONTEND:



HTML5



CSS3



JS



TypeScript



Angular



jQuery



Bootstrap



Vue.js

While working within long-term agreements with companies such as:



we have gained experience in the following areas:

- Real-time monitoring of production quality and risk
- measurement and analysis of energy, water consumption, fluid levels, and more
- streamlining the work of both frontline workers and management, improving employee training at workstations, and creating customized IT solutions
- implementation of on-site solutions within the production environment

„Our mission can be summed up in the following statement:

We empower people to build the new modern world of their dreams. With a professional and personalized approach to each project, we are constructing a future-oriented company, built on the solid foundations of trust, customer satisfaction, and loyalty.”

Ph.D.Eng. Rafał Szklarczyk
- owner, chief software architect

Industrial Automation



Following the establishment of Mechatronika.net as a distinct company from our internal R&D department, we offer established and trusted solutions in control, control systems, visualization, measurements, and production process management.

Our solutions are applicable to a wide range of scenarios, from advanced manufacturing processes to smaller-scale projects. Our flexibility and tailored approach allow us to implement automation and management systems for production facilities, power structures, as well as integrated systems for smart homes.





Our

**unique
original solutions**

In the upcoming section of the presentation, we'll showcase real-world examples of our implemented solutions for our clients.



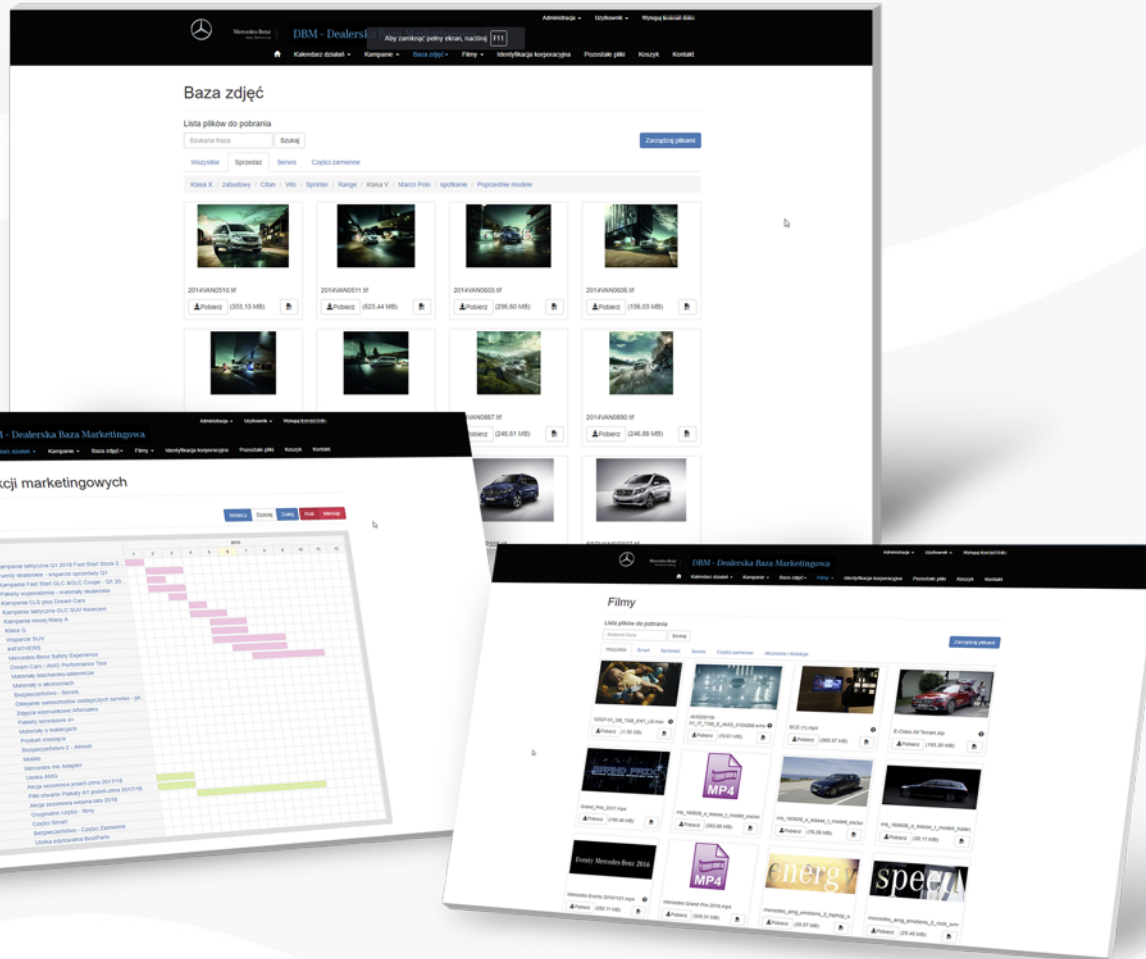
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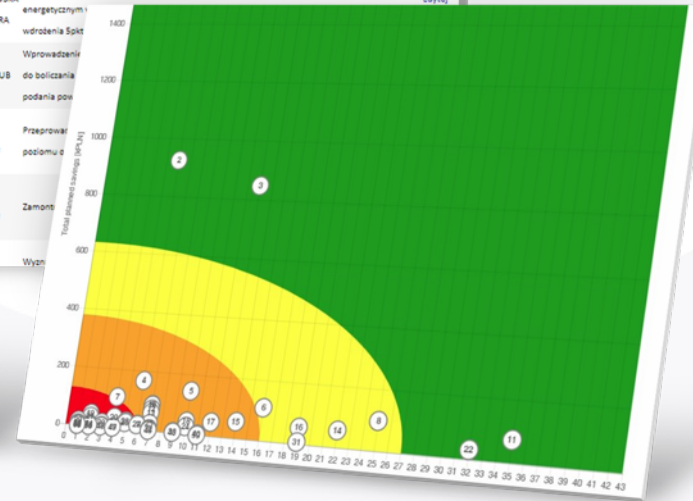
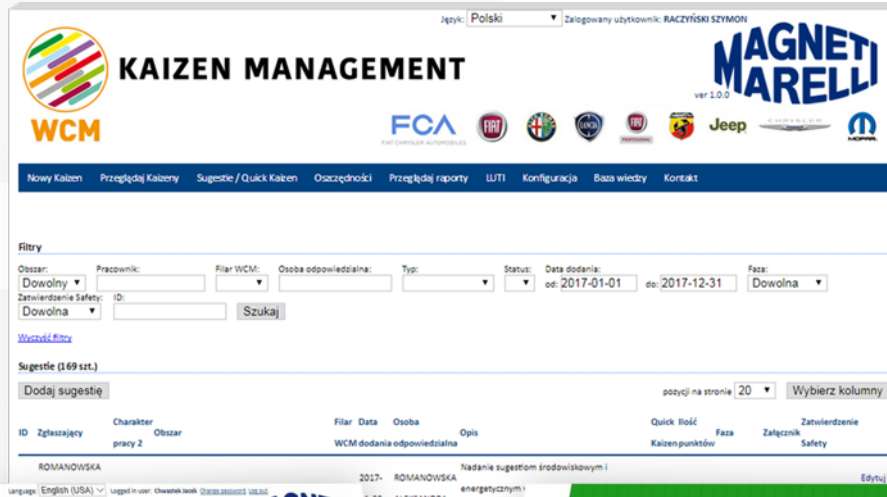
The **Dealer Marketing Database** is tailored for dealers seeking access to a wide range of documents prepared by marketing agencies. The platform supports three divisions: passenger cars, commercial vehicles, and heavy-duty vehicles, enabling seamless information exchange vital for the smooth operation of dealership showrooms. Users can discover details about ongoing campaigns, upcoming promotions, and effortlessly retrieve files from the extensive photo database

TECHNOLOGIES:



Mercedes-Benz





Magneti Marelli

System Kaizen Data Base

DESCRIPTION:

The implementation of the **KAIZEN Data Base** suggestion system empowers employees to proactively submit their ideas and solutions for enhancing work processes and the production cycle. This improvement journey begins with a meticulous analysis of the workstations and a quest to find ways to optimize them. The eagerness to embrace employees' suggestions is rooted in the belief that true strength resides in people, in their day-to-day work environment.

TECHNOLOGIES:

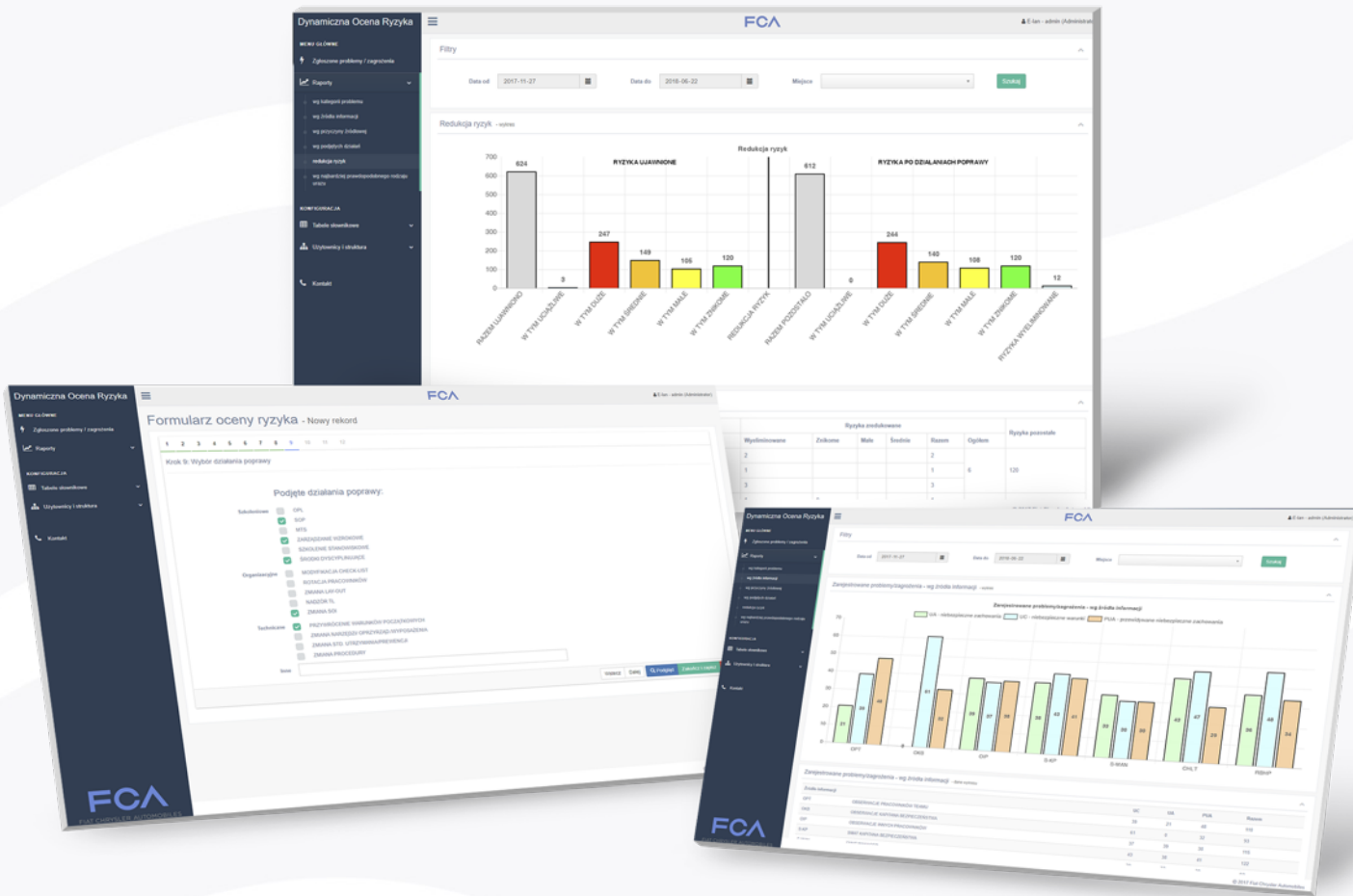


Webforms



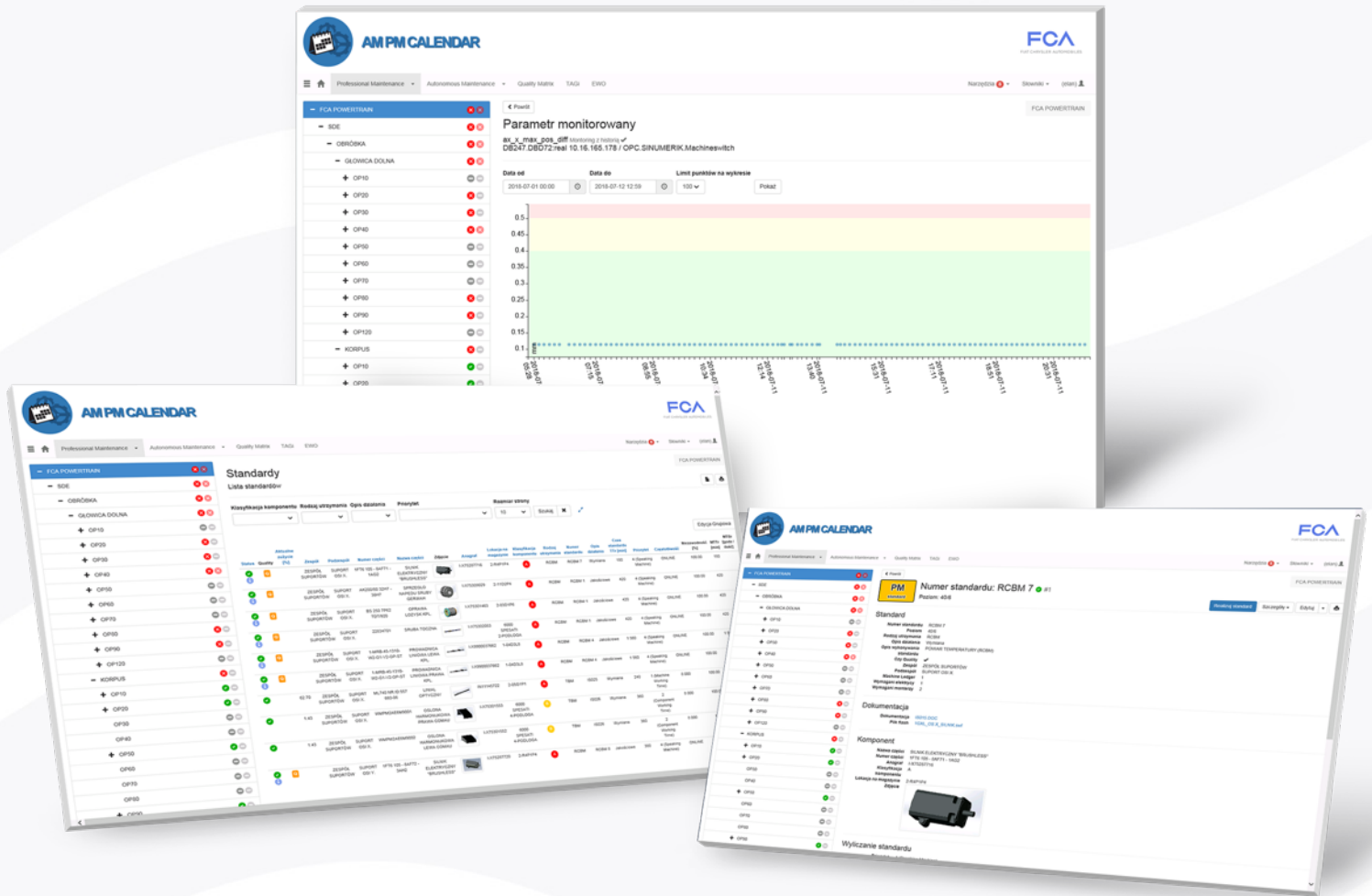
DESCRIPTION:

The Dynamic Risk Assessment System (Safety Tag) empowers employees to document safety observations, including hazardous workplace conditions, unsafe behaviors by colleagues, and challenging work conditions on-site. These recorded incidents undergo comprehensive analysis, enabling the identification and implementation of effective measures to mitigate risks and improve working conditions.



TECHNOLOGIES:





FCA Group

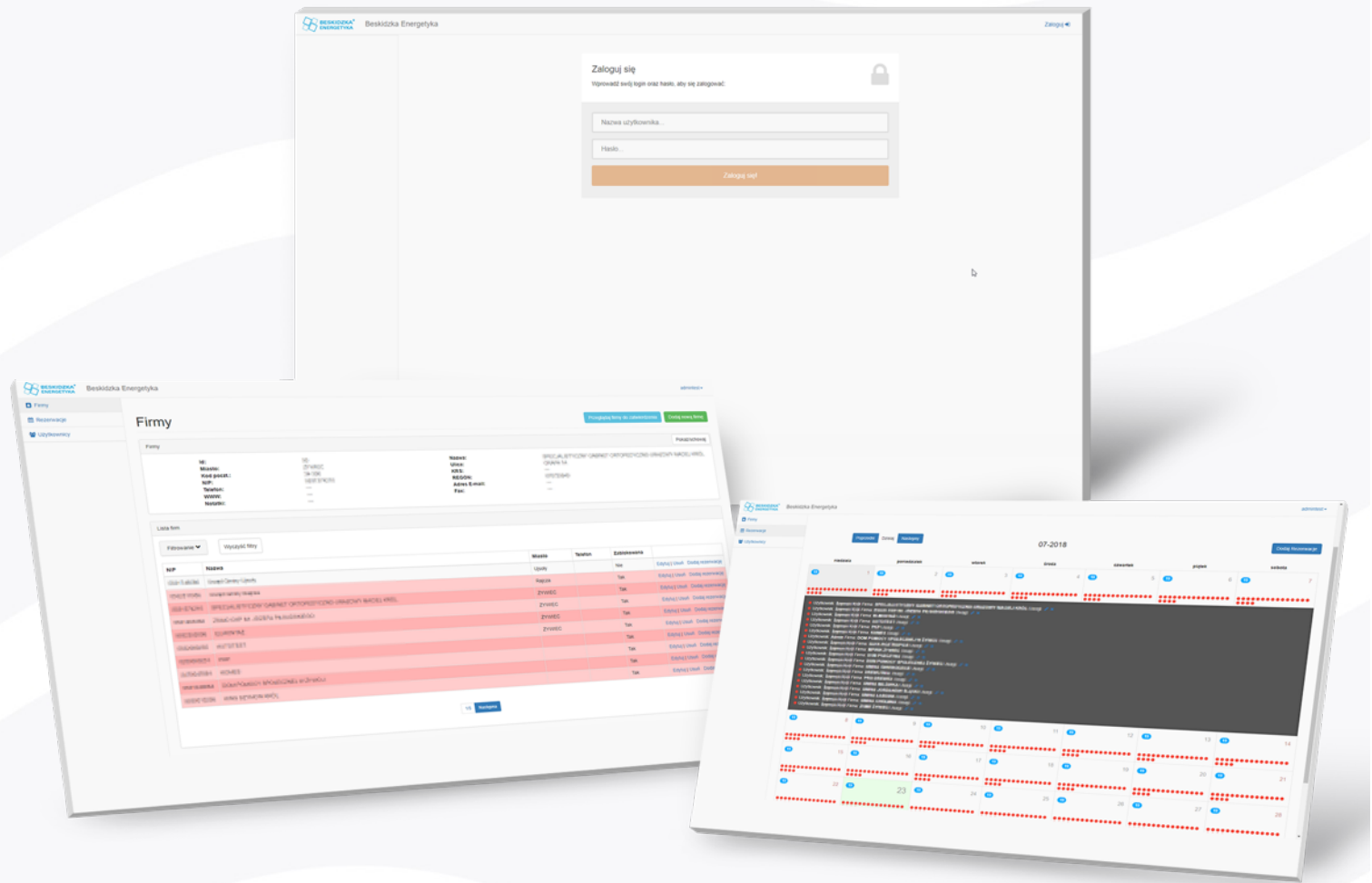
System AM/PM

DESCRIPTION:

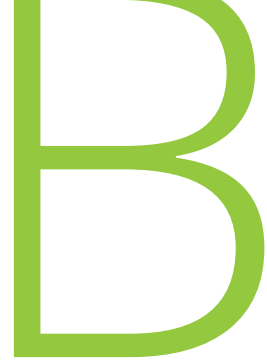
This system offers continuous monitoring of component consumption, resulting in cost savings by transitioning from fixed component replacement schedules to a dynamic approach that considers actual part usage. It takes into account factors such as machine uptime, cycle quantities, and any unexpected anomalies, enabling more efficient resource management.

TECHNOLOGIES:





Beskidzka Energetyka



CRM

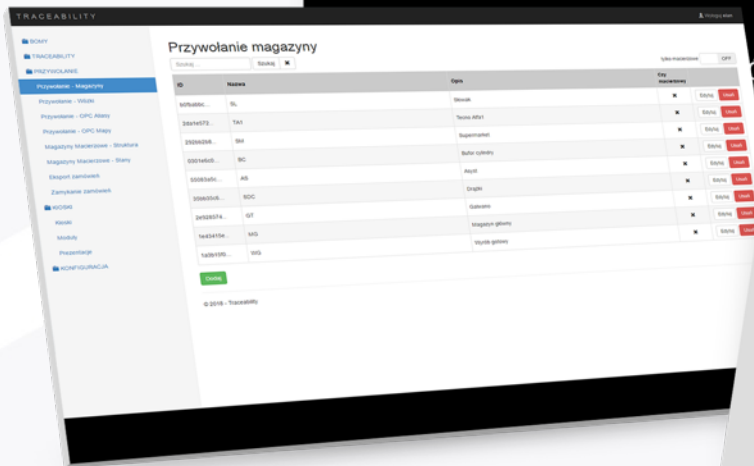
DESCRIPTION:

This system is designed to streamline the workflow of sales representatives. Its fundamental objective is to prevent the redundancy of negotiations for the same service with the same customer. Furthermore, it facilitates the harmonization of customer acquisition processes.

TECHNOLOGIES:



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WYKONANIA OBSŁUGIWANE: 2



.Software development

Magneti Marelli

Components calling

DESCRIPTION:

The system plays a pivotal role in enhancing internal logistics processes within a manufacturing enterprise. Prior to its implementation, the internal logistics department lacked real-time information about component shortages at specific production stations, leading to the dispatch of 'trains' carrying components for all concurrently produced items. Presently, the system has substantially reduced the idle wait time of the production lines caused by a lack of components.

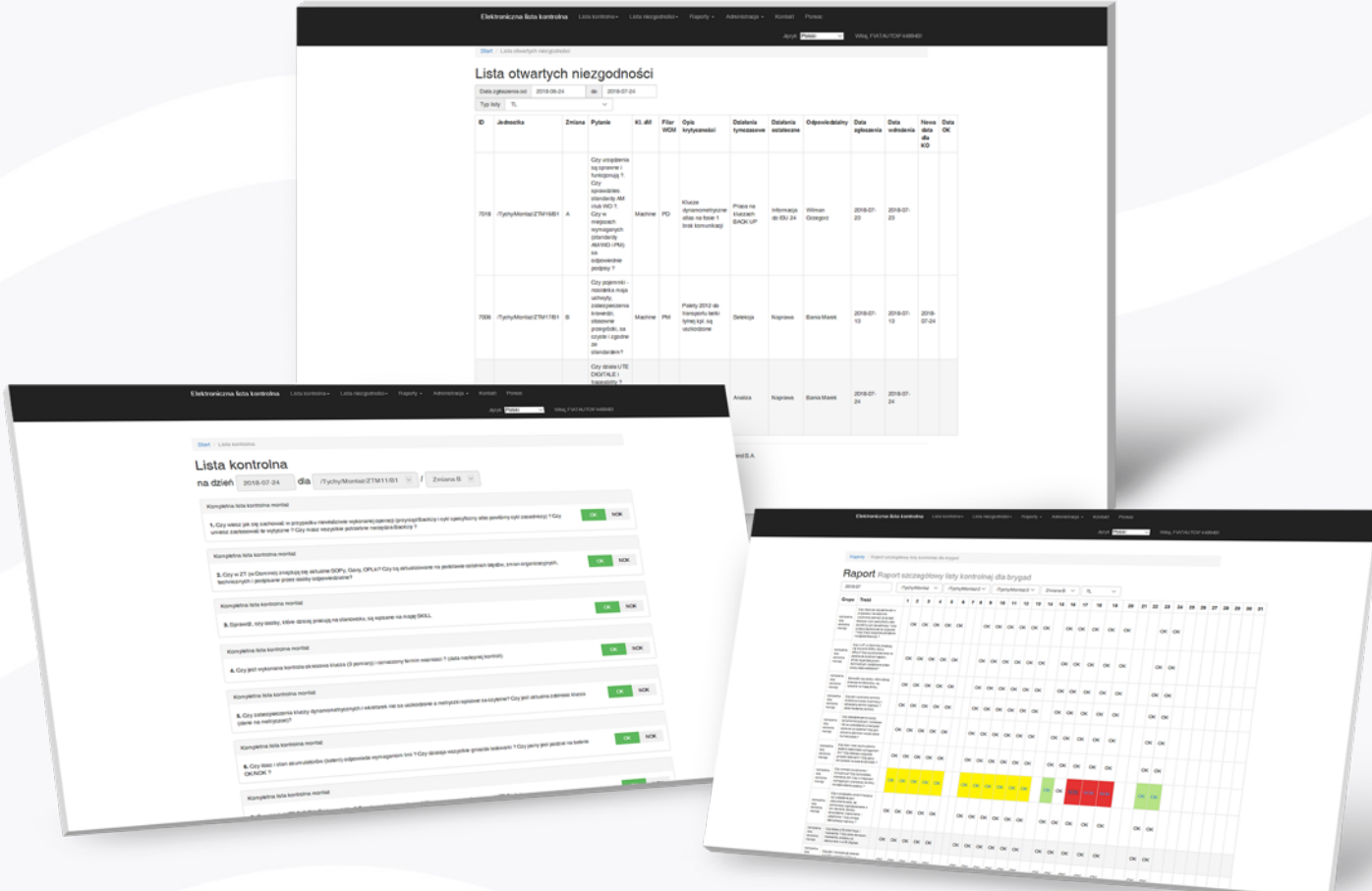
TECHNOLOGIES:



DESCRIPTION:

The **Check List System** pertains to Layered Process Audits (LPA), which are conducted to verify compliance with operational standards and operator competencies. Through the centralized database of line issues, this system has not only streamlined processes but also substantially reduced costs. Simultaneously, it has elevated process quality and fostered improved internal communication. In the past, employees had to manually gather data from production units, compile summaries, and generate reports using Excel. Now, it's an automated system that grants access to anyone for convenient report viewing.

TECHNOLOGIES:





Magneti Marelli

Product labeling system

DESCRIPTION:

This solution serves the purpose of generating labels for products placed within bulk containers, aiding in the effective management of material flow within a 'just in time' system. It achieves its maximum utility when seamlessly integrated with Traceability and Component Retrieval systems.

TECHNOLOGIES:



BORLAND



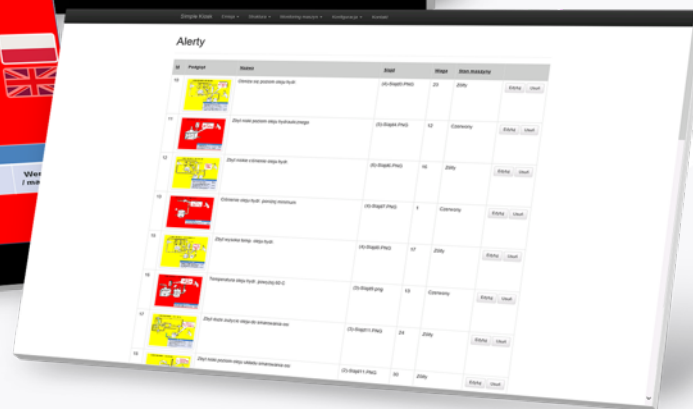
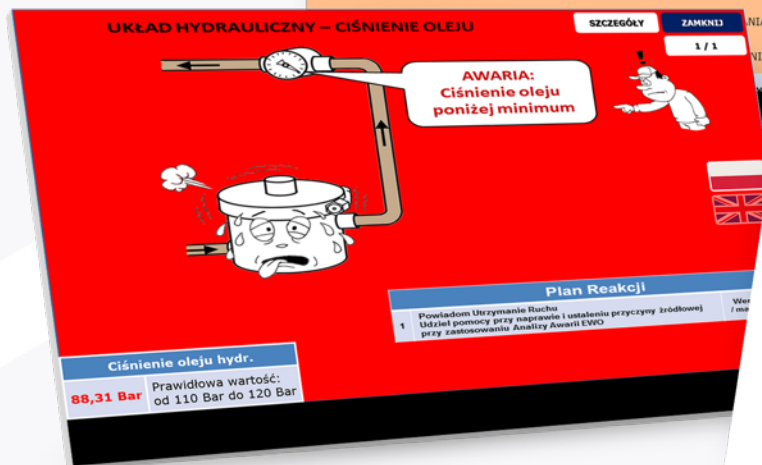
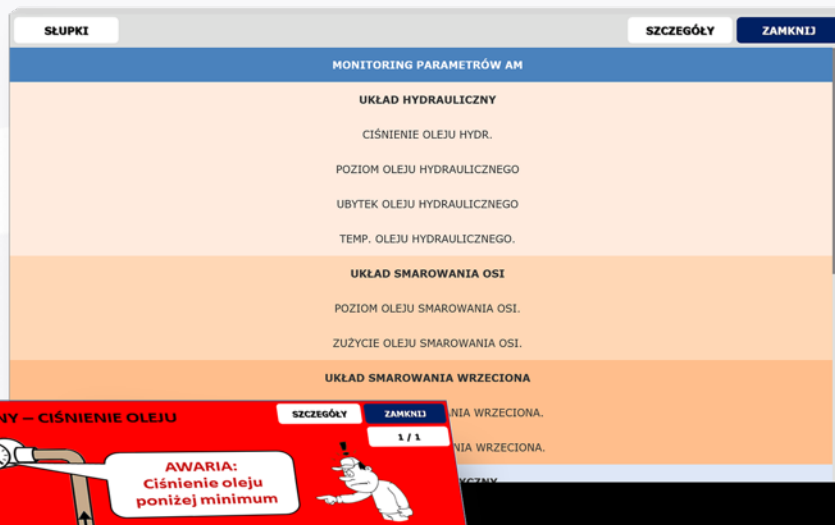
DESCRIPTION:

The system is purpose-built to streamline the logistics of electronic equipment within a facility. At its heart, it focuses on meticulously tracking the issuance of equipment to users and overseeing leasing agreements for devices. This versatile solution also allows for the precise definition of software configurations for individual devices, serving as a valuable guide for ICT department personnel tasked with equipment preparation prior to deployment.

TECHNOLOGIES:

Microsoft ASP.net Webforms JS





.Software development

FCA Group

Machina che parla

DESCRIPTION:

The 'Talking Machine' is an innovative solution tailored to provide real-time visualization of a machine's status. In the absence of error visualization on the production line, which often led to operators being unaware of machine-related issues, this technology has had a profound impact on production efficiency. With the Simple Kiosk solution, it becomes possible to diagnose specific machine errors by establishing direct communication with the controller, empowering swift and effective maintenance responses.

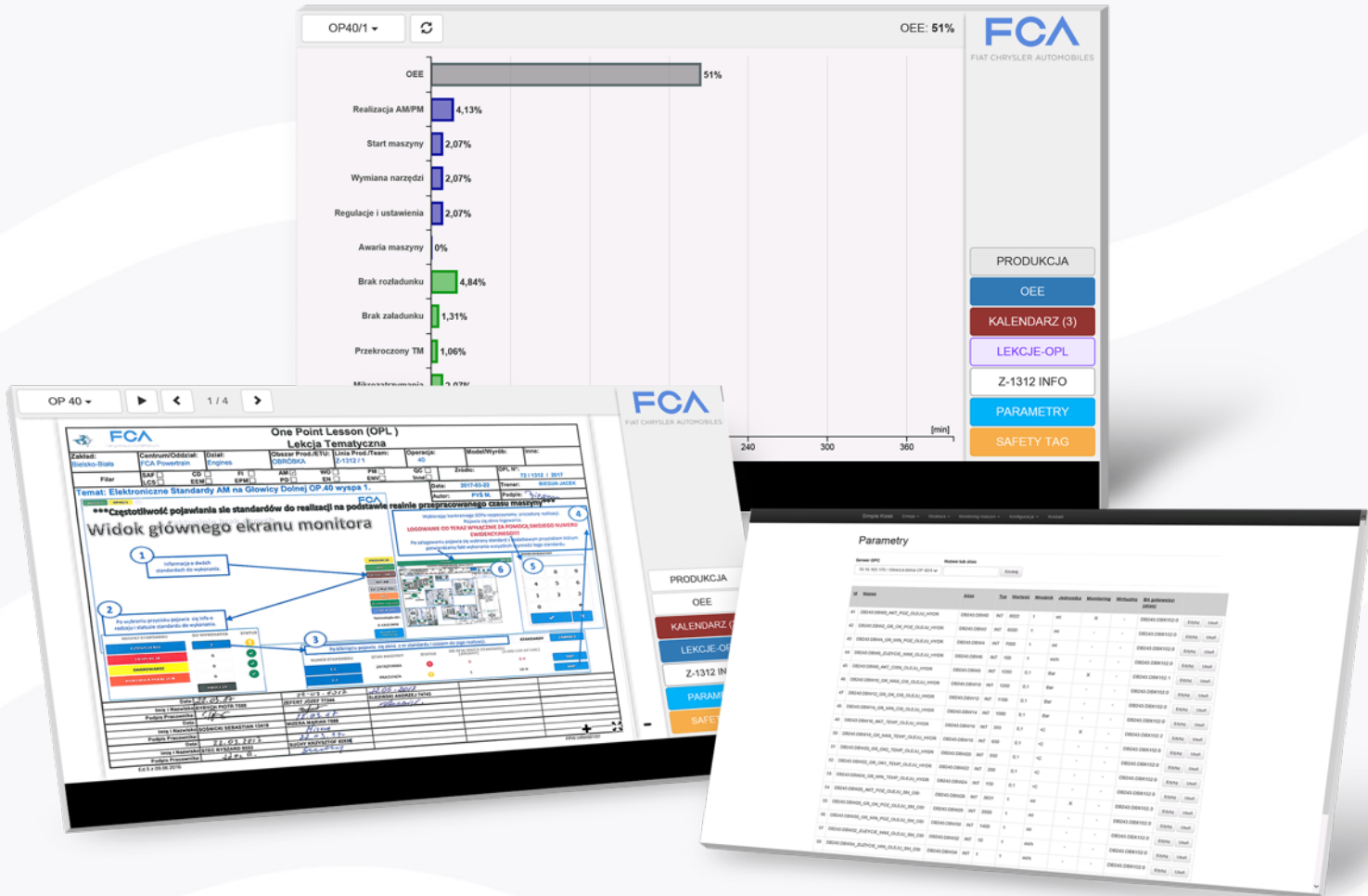
TECHNOLOGIES:



DESCRIPTION:

Simple Kiosk stands as a comprehensive multi-module system designed to optimize production workflows. The Production module offers real-time visibility into the planned production schedule and its progress. Simultaneously, the OEE module presents a visual breakdown of time spent on production tasks. Furthermore, the system provides easy access to Standard Operating Procedures (SOP) right at the workstation and incorporates a streamlined fault reporting mechanism.

TECHNOLOGIES:



Thank you
For your
attention

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