



**Automated enterprise assets management
system "Digital Assets" ASCOA**

About us

ABiTec - established in 2003, specializes in providing IT services tailored to automate business operations through the utilization of RFID technology. The company has garnered recognition as one of the foremost innovative enterprises in the nation, underscoring its prominence in the field.



The award for the most innovative use of RFID technology

"KazAeronavigation" (USA, Orlando, 2018)
JSC NC "KazMunayGas" (USA Las Vegas 2022)
RFID Journal Live



Software Developer



TOP-4

Innovative companies for automation of business operations



Leader in Development

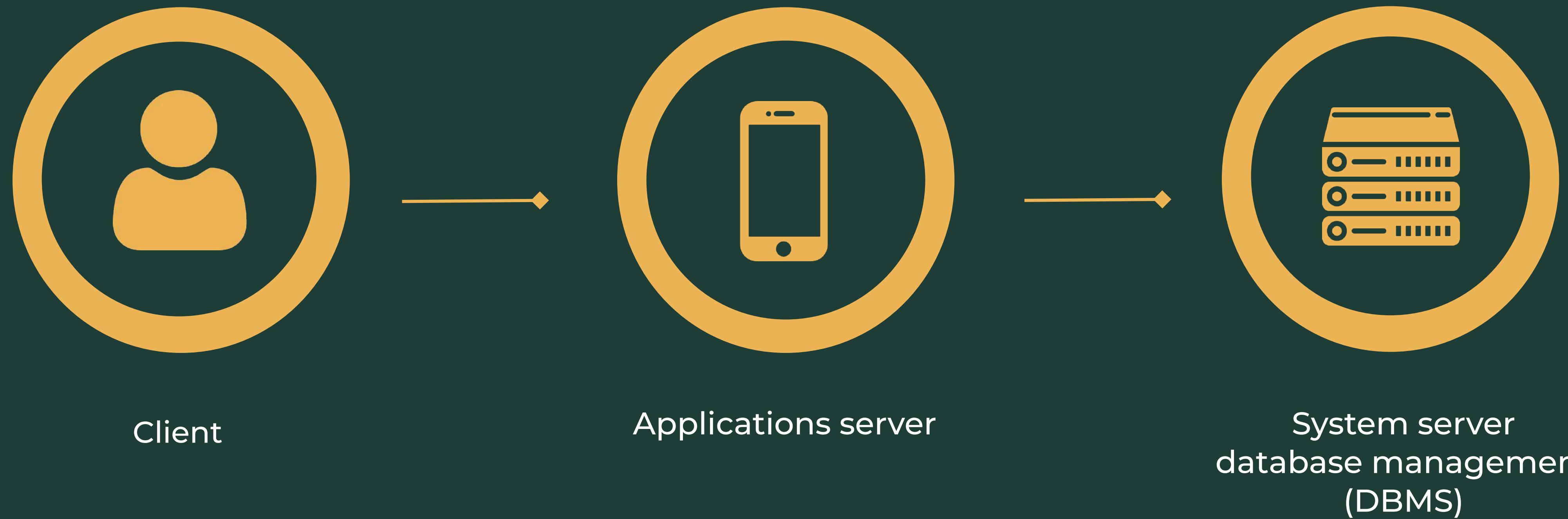
and introduction of digital RFID technologies

Professional Expertise in Various Industries:



ASCOA system architecture

"Digital Assets"

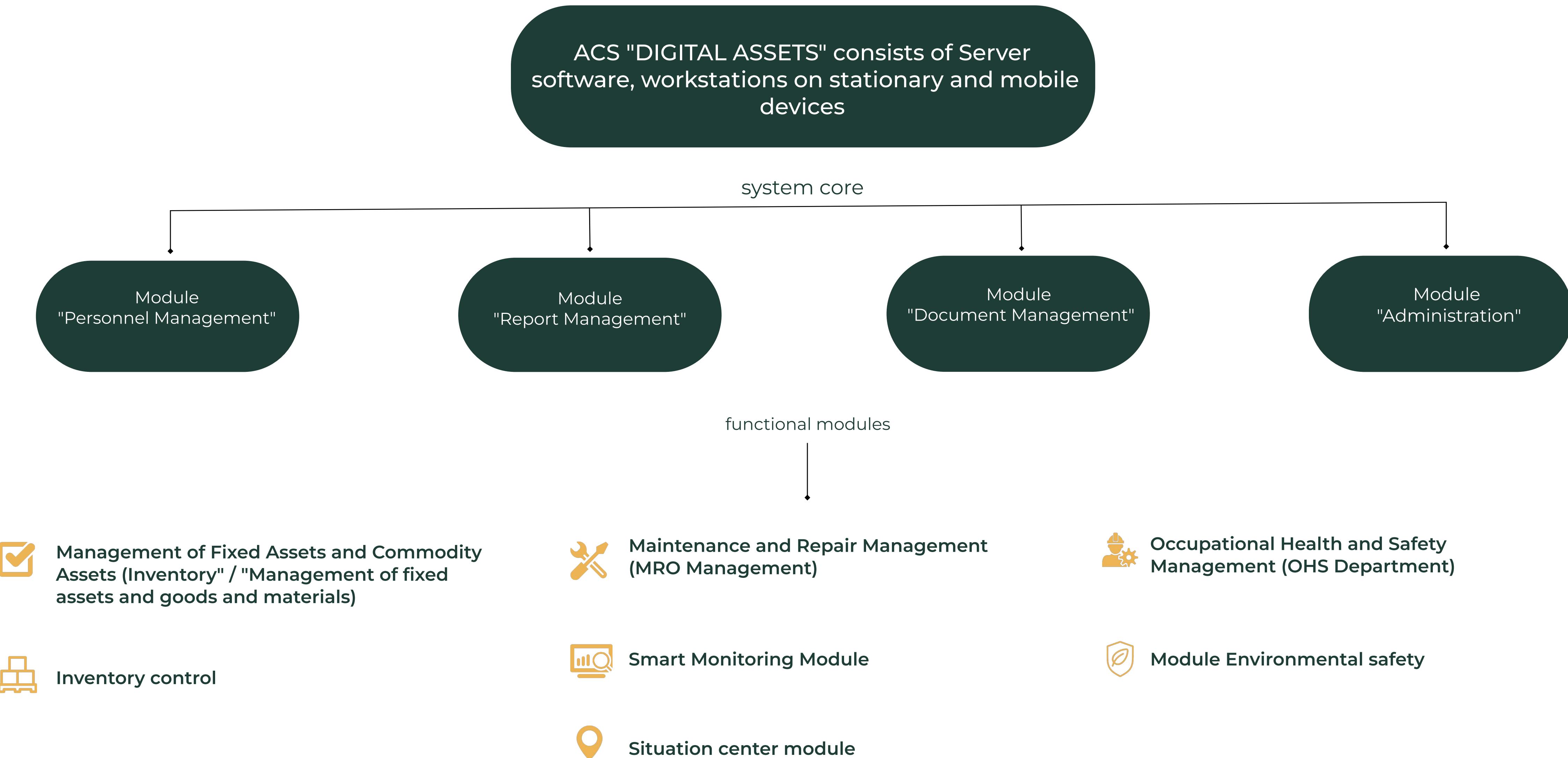


Advantages

Digital assets

- Consolidating the core system logic onto the application server.
- System scalability
- Compensation for the challenges associated with maintaining development within a three-tier framework using development tools.
- Compensation for the challenges of maintaining development in a three-tier scheme with development tools
- Simplicity of maintenance.
- Web client response speed (0.5 seconds average in the field)

Composition of the automated control system "DIGITAL ASSETS"



The core of the automated control system

"Digital Assets"

Module "Administration"

Provides the correct configuration of objects and subjects of management and includes:

- Maintaining the system's organizational framework;
- Maintaining a list of employee positions;
- Maintaining roles that provide users of the system with the necessary powers for functionality and data access rights;
- Control over users of the system;
- Preparation and distribution of reports;
- Managing the system's log file;
- Maintenance of OS (hardware) directory.

Human Resources Module

- Filling in personal data of users and employees;
- Directory of employees; users; positions;
- Maintaining a list of employee positions;
- Control over users of the system, providing them with passwords, necessary powers and restrictions.

The core of the automated control system

"Digital Assets"

Report management Module

- Formation of reports;
- Frequency of mailings;
- Detailed reporting;
- Providing employer with timely reports.

Document Management Module

- Set up route types for the main documents of the system;
- Configure access roles / users;
- Maintaining the history of the passage of the document.



Module "Inventory" / "Management of fixed assets and goods and materials"

Implementation effect

Reduction of inventory time by 3-5 times

Reduction of time for the formation of acts of inventory;

Reducing the time to search for assets

Ensuring transparency of liability by detailing accounting



Minimization of the human factor and the corresponding errors in assets identification



Keeping records of MOTs and assets users



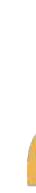
Convenient and complete reporting on the movement and inventory of fixed assets



Maintenance and Repair Management Module

Implementation effect

-  Reduce the downtime for personnel and equipment
-  Reducing the time and cost of maintenance and repairs
-  Ensuring automatic work planning
-  Up to 50% reduction in maintenance and repair costs
-  Timely supply of materials and special equipment
-  More than 5% increase in labor productivity
-  100% control over the execution of scheduled and unscheduled work



OHS Management Module

Implementation effect



Reducing the time for briefings



Electronic confirmation and control of the briefings



Checking knowledge on safety and labor protection



Staff development



Control of the briefing



Evaluation of the work of managers and specialists, personnel in the prevention of accidents, injuries and occupational diseases, as well as the creation of incentives for the positive results of this work



"Smart Monitoring" Module

Implementation effect

 Monitoring the status of equipment and facilities and automatic notification of critical situations

 Reducing the number of critical situations

 Reduction of time for liquidation of critical situations

 Instant Notification to responsible specialists about the need to perform routine maintenance, emergency or pre-emergency work



Module "Environmental safety"

Implementation effect

 Control of emissions to the environment

 Automated data transmission to the supervisory authority

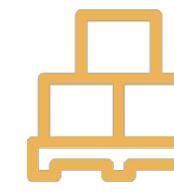
 Instant Notification to those responsible about deviations in emission standards



Reduction of time for liquidation of critical situations



Reducing the number of critical situations



Warehouse Management Module

Implementation effect



Automated warehouse accounting system;



Minimization of operational accounting costs



Optimization of operational control by management



Ensuring transparency of management;
- reduction of commercial losses



Minimization of losses at all stages of the supply chain



Obtaining reliable information;



Increasing the speed of obtaining and processing efficiency of operational information at all controlled levels.



Situation center module

Implementation effect

% The percentage of equipment service rate.

⌚ Timely display of information on completed and overdue tasks.



Instant retrieval of information regarding overdue tasks.



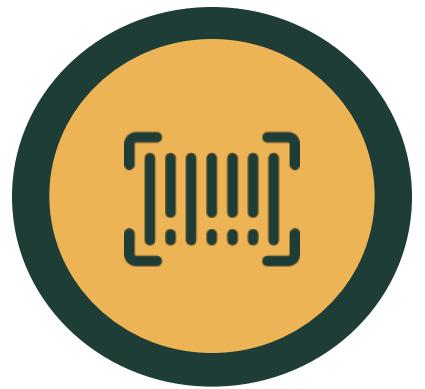
Capability to display descriptions of recent tasks completed on a "heat" map.

Digital identity

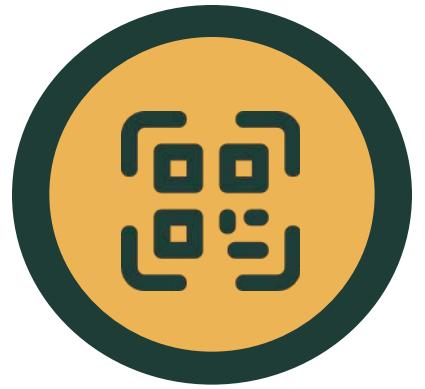
3 types of digital asset identification



RFID identification for frequently used and expensive fixed assets and goods and materials. Examples: Oil and gas industry - wells, underground equipment, special vehicles, drilling equipment, etc. Railway: rails and sleepers, traffic lights and turnouts, wagons and their components, locomotives and their components, etc. Aviation: aircraft and their components, ground equipment and inventory of airports, navigation and meteorological equipment, etc.



Barcode identification for low-value goods and materials and the use of factory, unique barcodes for goods and materials and fixed assets.



QR code identification for different types of equipment and goods and materials and the use of factory, unique QR codes.

Mobile features

The mobile client of ASCOA "Digital Assets" provides

- the user's work with received tasks on a mobile device
- linking a specific identifier to a fixed asset or goods and materials
- reading the identifier and displaying the parameters of the product
- fixing information about mounting and dismounting the identifier
- fixing information about the beginning of the suspension or the end of the assigned work
- photographic work done
- making notes while doing work
- the ability to view reference and regulatory information while performing work



Integration bus

The integration bus is designed for flexible data exchange between external systems and the Digital Assets ASCOA system when performing data exchange at the level of web services and/or file exchange. Integration at the level of web services allows you to exchange between systems online.

Application of ASCOA "Digital Assets" integrated into the ERP system

01

Increases the efficiency of the corporate information system

02

Gives operational control and accounting at all levels of the technological process

03

Increases management efficiency at constant running costs

04

Reduces technical support costs

The impact of ASCOA system implementation.

- Improving the swiftness in obtaining and processing operational data across all monitored levels.
- optimization of operational control by management.
- minimization of losses at all stages of the supply chain
- reduction in operating personnel costs
- minimization of operational accounting costs
- ensuring transparency of management
- raising the status of the company through the introduction of new technologies obtaining reliable information

The outcome of deploying the ASCOA "Digital Assets" automated control system.

- Automated scheduling of tasks and setting tolerances for their completion, along with monitoring their execution.
- Timely maintenance and repair of equipment
- Write-off of goods and materials when performing repair work and maintenance
- Monitoring the performance of in-house specialists and service companies
- Reducing accidents and costs
- Reduction of general production costs (MRO, goods and materials)



Project implementation period from 6 months

Product Features

Key advantage

The possibility of mobile work of the Customer's personnel with the binding of maintenance and repair processes to RFID tags (use as an object identifier)

PROJECT TEAM

Fully provided with specialists with competencies in collecting user requirements, business and system analysis, developing, testing and unloading the product to the customer

THE SYSTEM ALLOWS

Use geo-data and photo-fixation data
Form a set of key indicators
Assess the status of work in a short time

KEY FOCUS IN PRODUCT CREATION

Choosing a system platform
Mobile Solutions
Synchronization and visualization technologies
Use of libraries and applications (made on the principle of "open source" with equal functionality)

Areas of implementation



Government sector



Oil and gas sector



Culture and art



Telecommunication sector



Industrial sector



Energy sector



Transport and aviation



Hotel and retail and entertainment industry



Construction and service



Environmental Safety



Manufacturing sector



Housing sector

Implemented



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