INFOTECH
GROUP
Digital business
transformation

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INFOTECH GROUP

Infotech Group develops application solutions of any level of complexity on the basis of its in-house innovative software platform INFOTECH

A Russian company – a software developer for government agencies, large corporations and SME.

Infotech Group has extensive experience in project implementation for innovative Russian companies.

Our clients are: FSUE Okhrana of Rosgvardia, United Energy Company, PhosAgro, Russian Railways, Rosenergoatom, Uralchem, Uralkali, Moscow Region Forest Committee, Lenenergo, Mosoblenergo, Avtodor, Moslift, the Government of the Republic of Tatarstan, etc.

The company employs

over 300 developers

more than 100 analysts

and the leading industry experts

We offer comprehensive automation solutions for all activities of the customer company, customized industry solutions and unique IT options for the targeted solution of the customer's tasks.

Development is conducted in-house. If necessary, the company has the capacity to outsource resources.

We automate a broad range of industries:

- Electric power industry
- Safety and security
- Municipal facilities, and housing and public utilities services
- Industry
- Transport
- Forestry

Our products are used to automate technological, functional and business processes.

Infotech Group solutions provide:

- Reduction of the cost of equipment and IT
- Effective management of a company's employees and resources
- Convenient data management tools
- Quick centralized access to operational information and documents
- Effective monitoring of infrastructure and all work processes
- Detailed and extended analytics
- Convenient customization of working systems
- Easy integration with any company's software
- Reduction of staff costs

Recently implemented projects

United Energy Company

Automated management of key processes

12 power distribution centers

3 100 substations

>30 000 km of power lines

PhosAgro

The system of planning the repairs of equipment, taking into account prediction of its condition

up to 150 000 tons of product are additionally extracted every year

FSUE Okhrana of Rosgvardia

Comprehensive automation of enterprise activity

9 areas

82 branches

66 000 employees

State Company Avtodor

The control system for motor road maintenance

8 divisions

2668 km of roads under control

Mosoblenergo

The system of the repair and maintenance service coordination

>41 000
km of overhead and underground power lines

>13 000
substations

Lenenergo

The system of the repair and maintenance service coordination

>67 000
km of overhead and underground power lines

>18 000
substations

Moslift

A unified information management system for applications

70 000
elevators

>3 000
employees

Forestry Committee of Moscow Region

Upgrade of the forest fire operational management system (FFOMS)

19
branches

>2 mln ha
of forests under the control of the system

Complex of Moscow municipal economy

Automated management of road facilities and off-street areas

>12 000
vehicles

>150
organizations

POWER INDUSTRY

INFOTECH.RESULTAT

Task management and work planning

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INDUSTRY

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Prediction of equipment status and failures

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SAFETY AND SECURITY

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URBAN ECONOMY

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Products

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and management

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All the products
are developed on the basis
of the innovative
INFOTECH platform

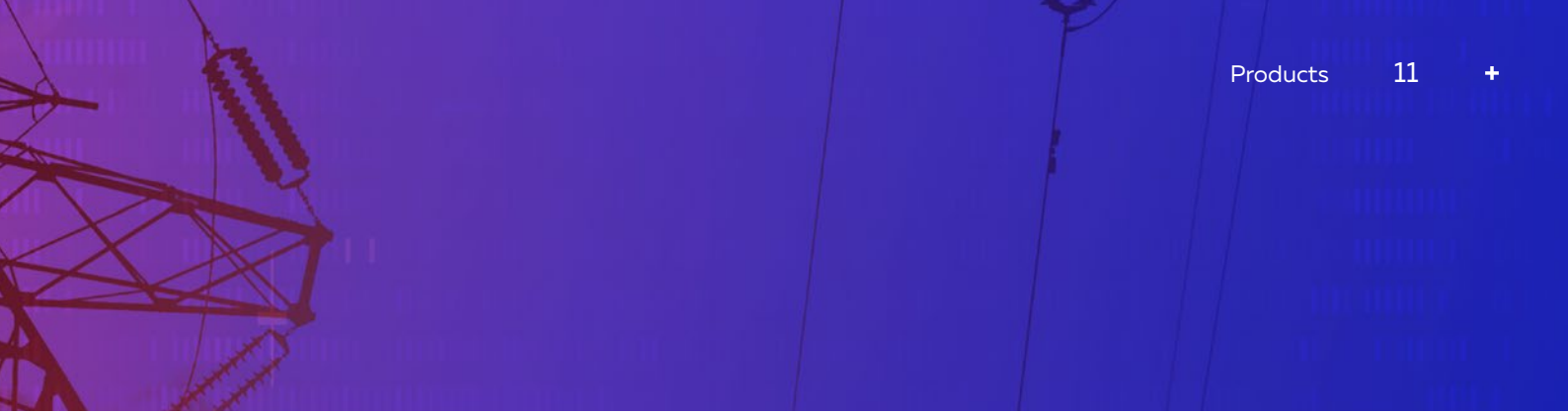
INFOTECH.RESULTAT

An integrated automation system for energy providers

INFOTECH.RESULTAT® is the first Russian software combining the functions of the Outage Management System (OMS) and the equipment maintenance management system for power grid companies which integrates the processes of individual divisions into the end-to-end processes of the power grid company.

INFOTECH.RESULTAT components

- Network portal
- Smart equipment condition monitoring system
- Fleet management system
- Equipment certification system
- Planning system
- Maintenance and repair management system
  - Moblie application
- Dispatch control system
  - Moblie application
- Electronic journals



Implementation effects

up to 12%
reduction in network recovery time

up to 30%
increase in the efficiency of labor resources

up to 20%
minimization of risk of planning errors

about 2%
reduction in the maintenance and repair costs

Application areas

Grid companies

Service Companies

INFOTECH. RESULTAT

An integrated automation system for energy providers

System features

01.
Request Dispatch

02.
Field team monitoring

03.
Multi-Resource Scheduling

04.
Work execution

05.
Online reporting

06.
Route control

07.
Logging

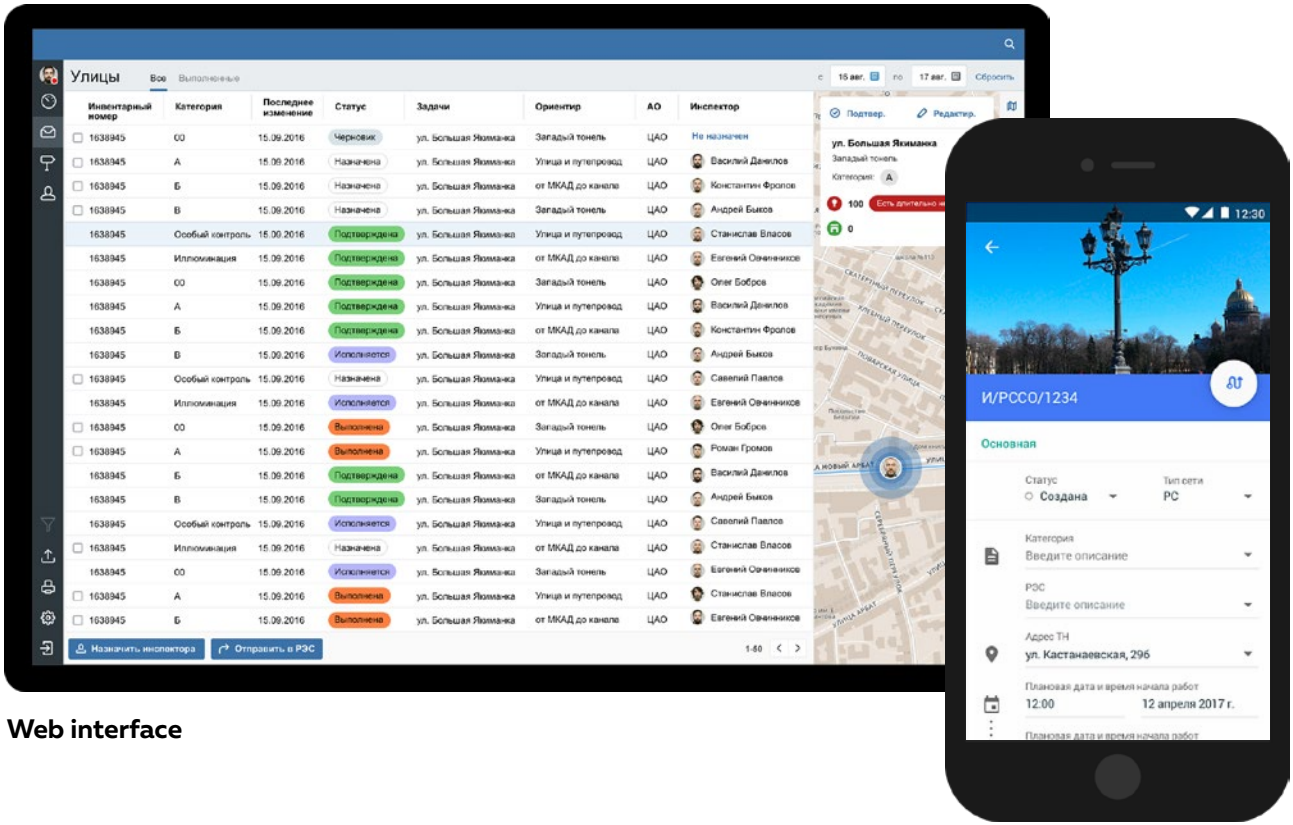
08.
Updating of facilities handbooks

09.
Provision of field teams with material assets and vehicles

10.
Cost reduction

11.
Integration with city service portals, Unified Dispatch Center

12.
Security Compliance Monitoring



Web interface

Mobile application

INFOTECH.RESULTAT

An example of implementation at a power grid company

INFOTECH.RESULTAT has successfully been applied at United Energy Company

Vladimir Azarnov

Chief of the Service for monitoring the status of outdoor lighting installations

"The system developed by the Infotech Group has significantly optimized work of the Unit's employees in monitoring the status of outdoor lighting and the Unit's interaction with the other divisions of United Energy Company. Automation of the key business processes made it possible to raise the productivity of inspectors by 30%".

INFOTECH.RESULTAT is successfully used by the Avtodor Company

The system of road maintenance quality control.

Before implementation

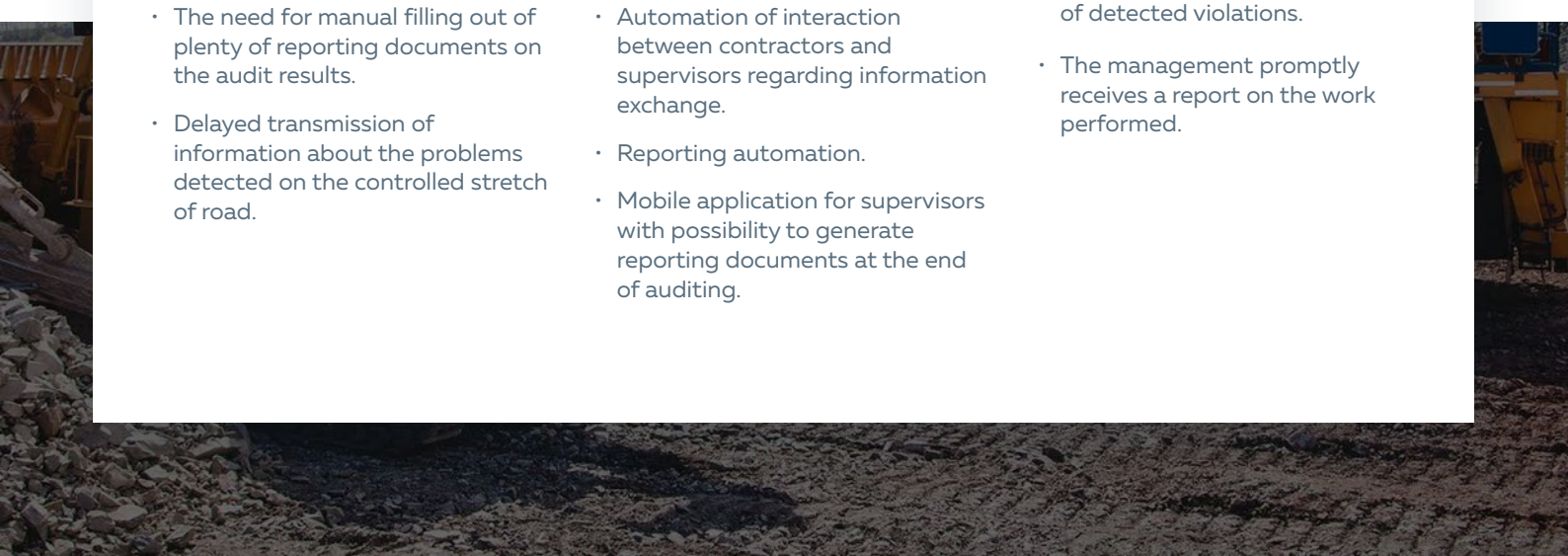
- During their visits, supervisors were writing down in their paper notebooks the violations they revealed in road maintenance, and then manually transferred the data to Excel.
- The need for manual filling out of plenty of reporting documents on the audit results.
- Delayed transmission of information about the problems detected on the controlled stretch of road.

Solution

- Automation of monitoring and supervision of technology, quality, scope and timing of work, performance characteristics of federal roads and their engineering structures
- Automation of interaction between contractors and supervisors regarding information exchange.
- Reporting automation.
- Mobile application for supervisors with possibility to generate reporting documents at the end of auditing.

Result

- Supervisors do not spend their time on paper work.
- Contractors receive information about defects in real time.
- Maintenance of a single registry of detected violations.
- The management promptly receives a report on the work performed.



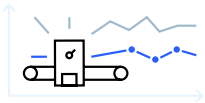
INFOTECH.ESTATE

System for predicting industrial equipment condition and its failures

A comprehensive solution which makes it possible to reveal the defects in equipment units at an early stage of their development and predict development of defects over time.

This helps the repair department staff to plan work taking into account the actual and predicted condition of equipment.

Key benefits



Turnkey models for more than 30 types of defects in electromechanical units (bearings, gears, shafts, foundations, motors, etc.)

A tool-adviser on optimization of repair work, planning, taking into account the actual and projected state of equipment.

Man-machine interface minimizing user's routine actions in the system

Tools of integration with EAM/CMMS Class Systems

The delivered solution is turnkey and includes supply and installation of sensors, setting up of predictive models, and integration with client systems and consulting.

Interfacing with any sensors and equipment

Single analytics dashboard

Effects of implementation

- Optimization of the infrastructure operation costs
- Optimization of the infrastructure operation costs
- Organization of the condition-based maintenance and repair of equipment
- Identification of bottlenecks in the process chain

INFOTECH.ESTATE is used by

PHOSAGRO

INFOTECH.ESTATE

System for predicting industrial equipment condition and its failures

System features

01.
Automatic monitoring of mechanical and electromechanical equipment units. Identification and classification of defects at an early stage of their development.

02.
Prediction of the dynamics of development of defects over time. Determination of the time a defect transits into a critical state.

03.
Automatic distribution of notifications about the revealed defects to the employees responsible for the corresponding equipment, units and types of defects.

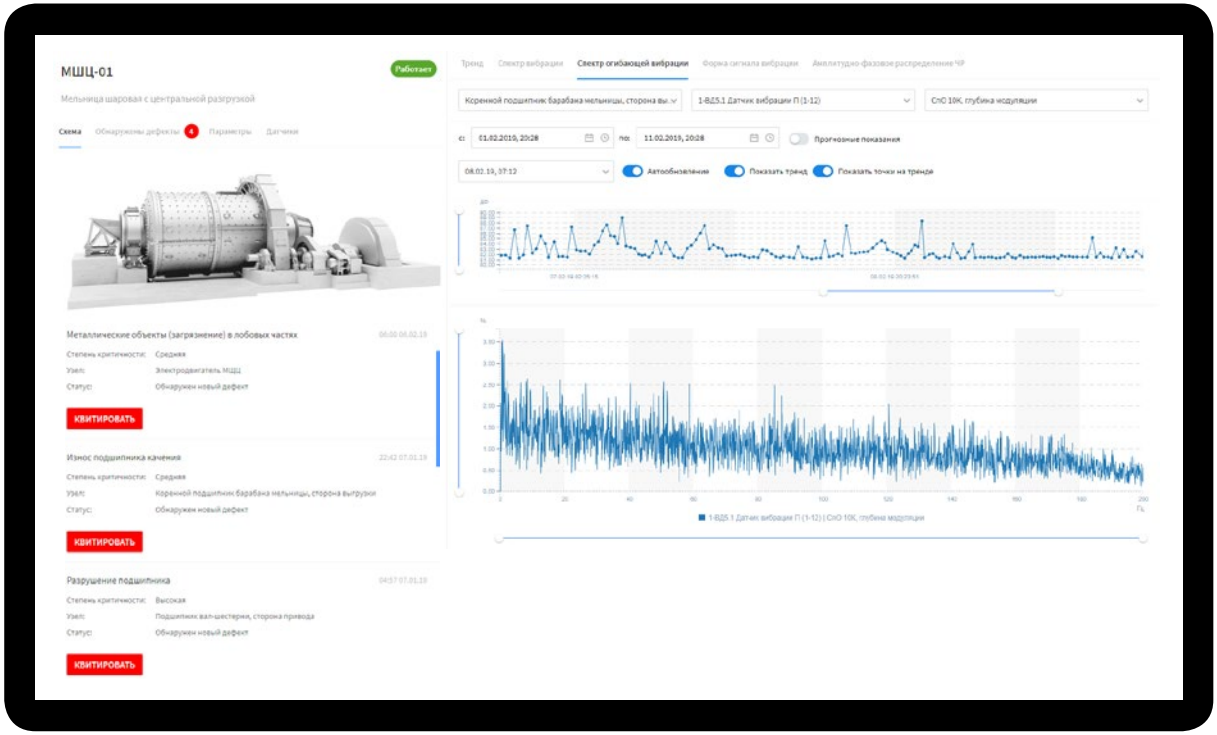
04.
A customized, automated process to schedule checks and eliminate defects.

05.
The use of turnkey models to reveal the defects in units of low-speed equipment.

06.
Provision with recommendations for repair work within the framework of the scheduled shutdowns.

07.
Provision of diagnostic service with typical analysis graphs of defects.

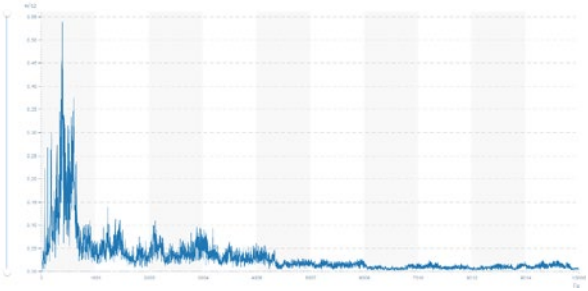
08.
The means of integration with diagnostic sensors, automated process control systems, EAM/CMMS, ERP systems.



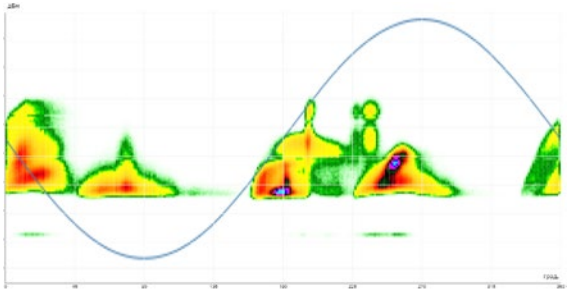
Web interface

INFOTECH.ESTATE

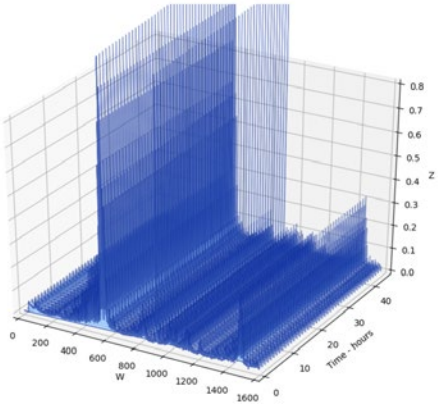
System for predicting industrial equipment condition and its failures



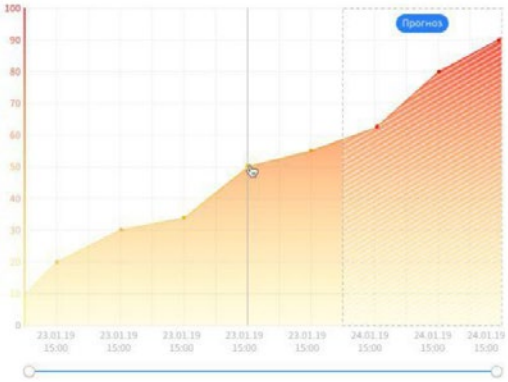
Vibration spectrum



AF distribution of partial discharges



Vibration prediction



Defect development prediction

An example of INFOTECH.ESTATE implementation at a mining and processing plant

Problem

- Equipment of the mill and flotation division of the plant was not redundant. Equipment shutdown for repairs results in the customer's benefit loss — a product loss of more than 250,000 tons per year.

The solution

- Eleven ball mills are equipped with diagnostic sensors integrated into the system.
- The system monitors over 30 mechanical defects of the pinion shaft, bearings, gears, foundations and five defects in insulation of the motor.
- The system predicts development of criticality of defects for a month and makes it possible to schedule checks and eliminate the defects, depending on the prediction made.

The result

up to 150,000 tons
of the product is additionally extracted annually due to reduction of the unscheduled equipment shutdowns for repairs, as well as optimization of the scheduled repairs.

INFOTECH.GARNIZON

Smart security management system

A unified information and analytical system is designed for integrated automation of security companies.

The system includes nine subsystems covering the key business processes: quality control of service delivery, interaction with customers, company internal processes.

INFOTECH.GARNIZON components

The subsystem for interaction with customers and quality control of service delivery (subclass CRM)	The subsystem for monitoring and control of mobile objects	The subsystem of maintenance and preventive maintenance of process equipment
The subsystem for security infrastructure monitoring	The subsystem for monitoring the engineering and technological infrastructure of the secured facilities	The subsystem for organization and conduct of tender procedures
The subsystem of accounting and flow of supplies	The subsystem for coordination and control of the situation at security sites	The subsystem of the unified centralized security center

INFOTECH GARNIZON is used by:

federal state unitary agency Okhrana of the National Guard of Russia (Rosgvardia)

Alfa SB-7 Private Security Company

Key benefits

The only software product in the Russian market for comprehensive solution of security companies tasks.

Effects of implementation

- Transparency of the use of security resources, forces and equipment
- Improvement of the quality of the provided services
- Provision of control over performance of official duties
- Management Automation

INFOTECH.GARNIZON

Smart security management system

Application areas:

- Departmental and private security
- Private security companies and organizations (PSC/PSO)
- Emergency services

System features

01. The Employee and Task Management

02. Interaction with customers, and the service quality control

03. Accounting of forces and means

04. Coordination and control of the situation at security sites

05. Monitoring of mobile objects and security infrastructure facilities

06. Coordination and control of the situation at security sites

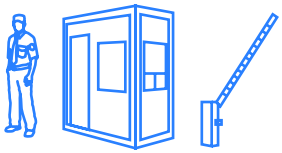
07. Organization and conduct of tenders

08. Monitoring of the engineering and technological infrastructure

Monitoring of mobile objects:

Vehicle monitoring

Vehicle tracking with special tracking devices



Control of the security personnel and transported goods

Control of the security personnel's location using electronic devices, including portables

Transport

- Operational readiness monitoring
- Location and route monitoring
- Calculation of traveling time to the security site
- Control of operating costs

Mobile teams, and response guards

- Monitoring of location and routes
- Dispatching
- Alarm button

Guard posts

- Monitoring of employee's presence at the guard post
- Monitoring the employee location inside the facility
- Alarm button

INFOTECH.CITY

The system of the repair and maintenance service coordination

The system of automation of the service company main business processes.

The system makes possible efficient planning of routine maintenance, monitoring of the mobile personnel activities, keeping centrally the records of equipment and vehicles, generation of operational and strategic reports, and financial performance evaluation.

Key benefits

Setting up of a turnkey system, taking into account the company regulations and the equipment operated

Availability of tools for integration with geo-information systems.

All information for an online response and planning is available in one system.

The most convenient and intuitive interface.

Effects of implementation

- Improvement of quality of the services provided
- Cost control and reporting
- Online incident response
- Centralized database of the serviced facilities and work performed on them
- Reduction of routine actions when planning and organizing work

Application areas

Elevator companies

The organizations serving the housing and public utilities

Service Companies

INFOTECH.CITY

The system of the repair and maintenance service coordination

System features

01.
Accounting of the serviced equipment

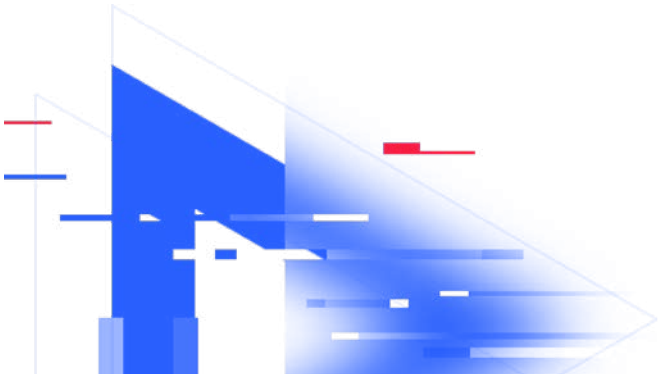
02.
Automated planning and organization of maintenance work

03.
Provision of mobile personnel with necessary information for work

04.
Monitoring of execution of tasks: notification of progress and status

05.
Integration with geo-information systems, city service portals, enterprise systems

06.
Monitoring, analysis and prediction with sensors of equipment state



An example of the use of INFOTECH.CITY in an elevator company

Problem

- A large number of citizens' complaints to superior bodies on the quality of the company services

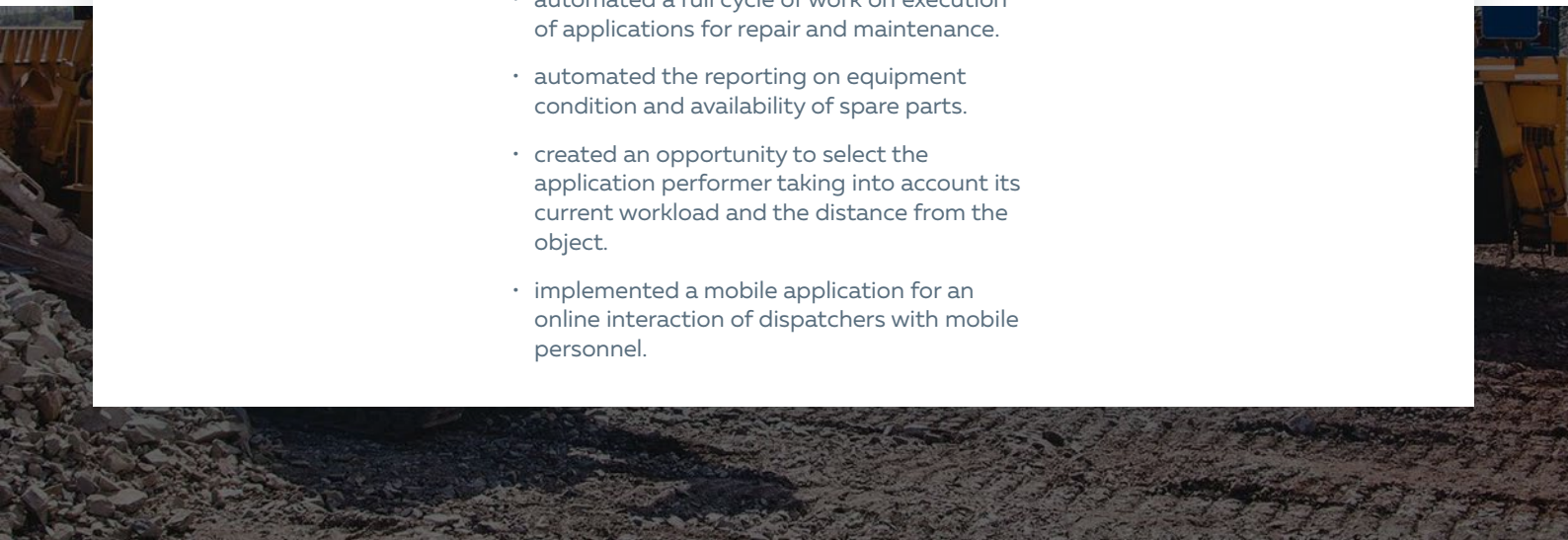
The solution

There has been:

- developed the system for handling the requests; as a result, the number of channels for receiving calls to the service company increased,
- implemented integration with city services and portals
- automated a full cycle of work on execution of applications for repair and maintenance.
- automated the reporting on equipment condition and availability of spare parts.
- created an opportunity to select the application performer taking into account its current workload and the distance from the object.
- implemented a mobile application for an online interaction of dispatchers with mobile personnel.

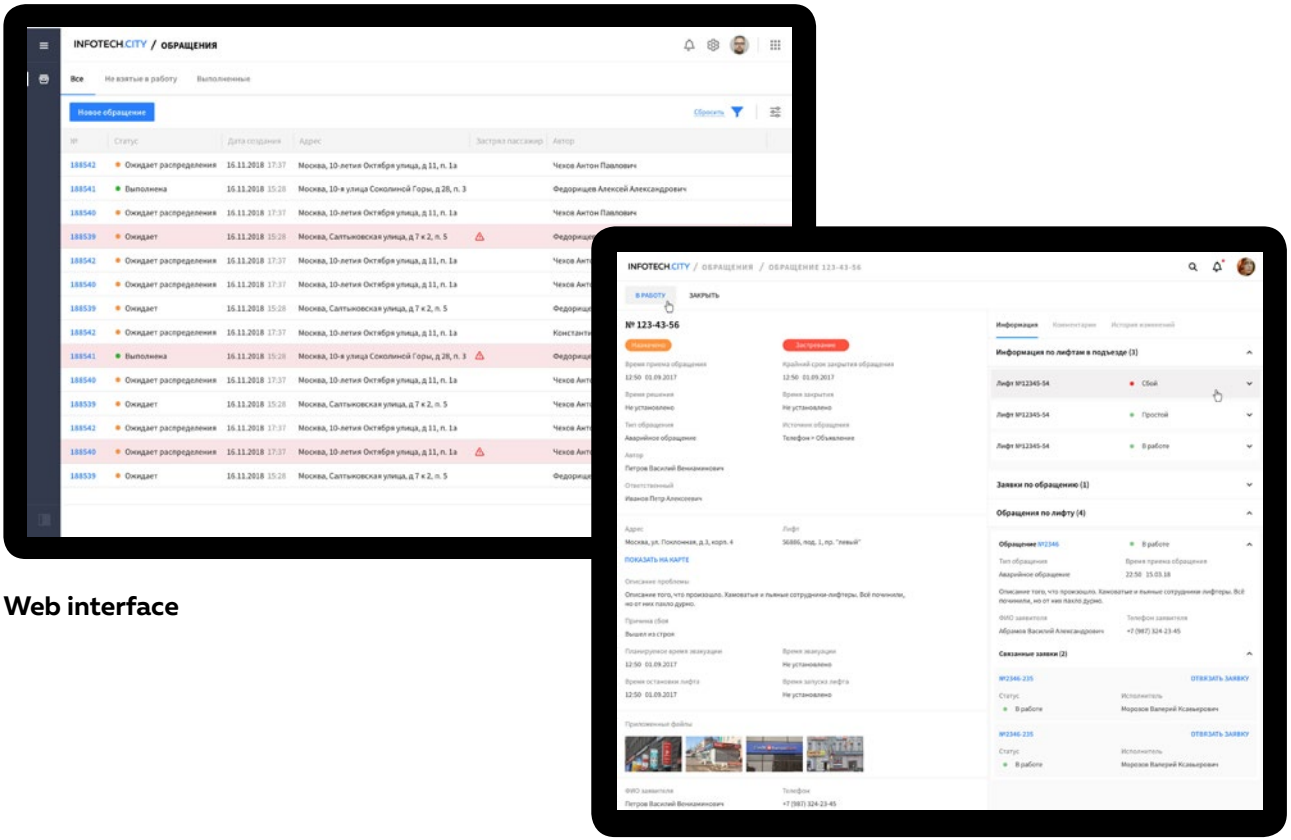
The result

- reduced **by 20%** the number of complaints to administrative authorities
- reduced a reputational risk.
- **three times** reduced an incident response time

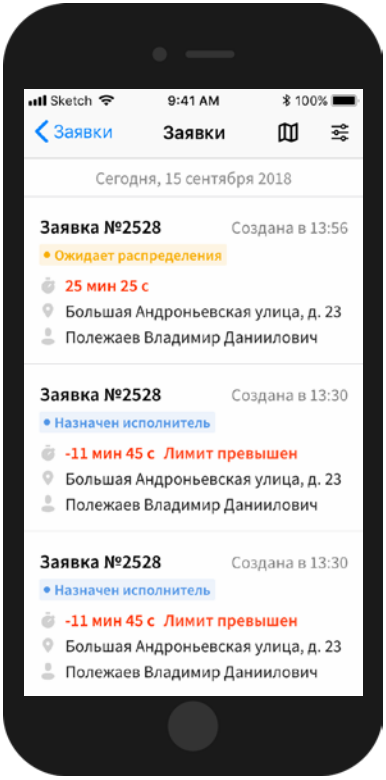


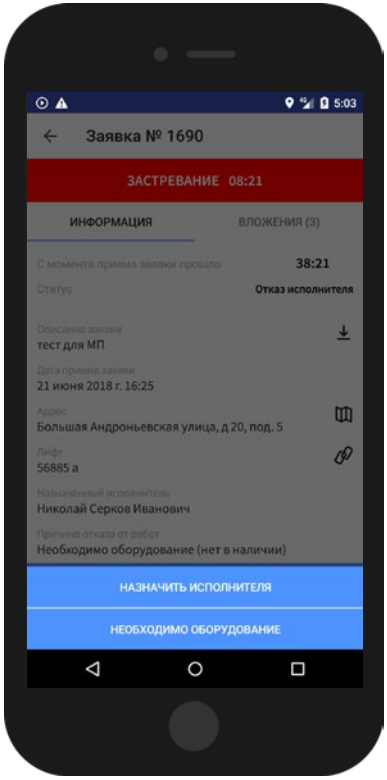
INFOTECH.CITY

The system of the repair and maintenance service coordination



Web interface





Mobile application

INFOTECH.AUTO

Vehicle monitoring system for medium and large enterprises

The system is designed to account and monitor vehicles, monitor the operating costs of a fleet and generate the reporting documentation.

Features

01.

Monitoring of vehicle location and movement

02.

Exclusion of unauthorized departures

03.

Rational distribution of tasks among drivers

04.

Monitoring of the departure plan implementation

05.

Accounting for car refuel and identification of fuel drains

Effects of implementation

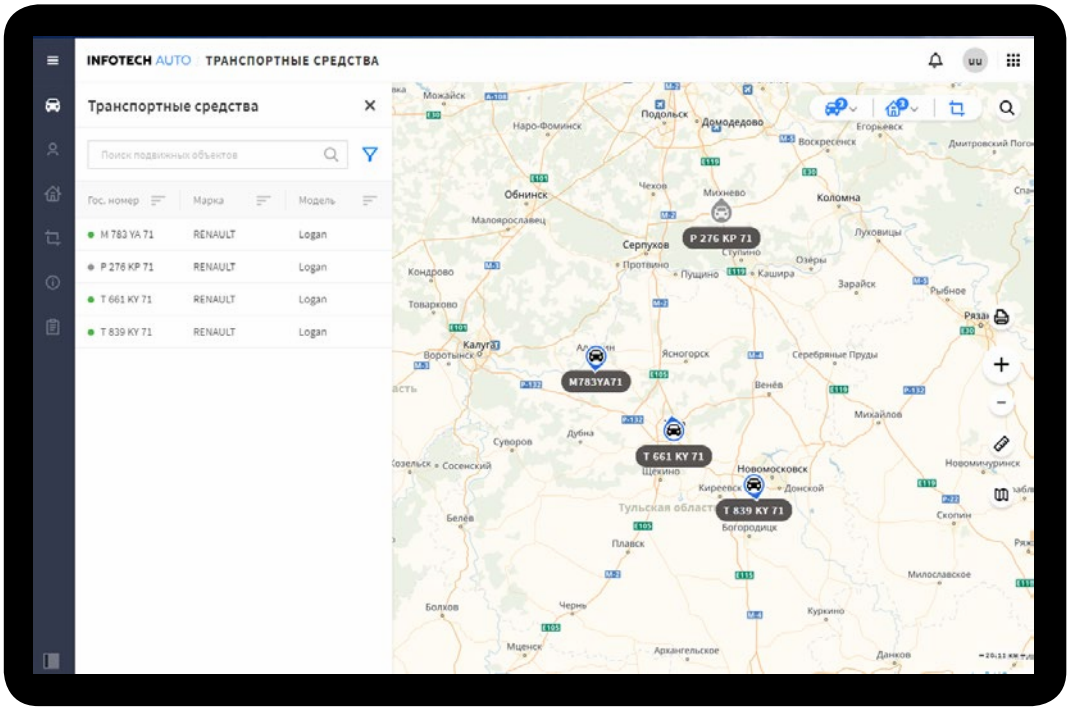
- Optimization of fuel and lubricants costs **by 30%**
- Downtime prevention
- A detailed situation with the fleet workload 24/7

Application areas

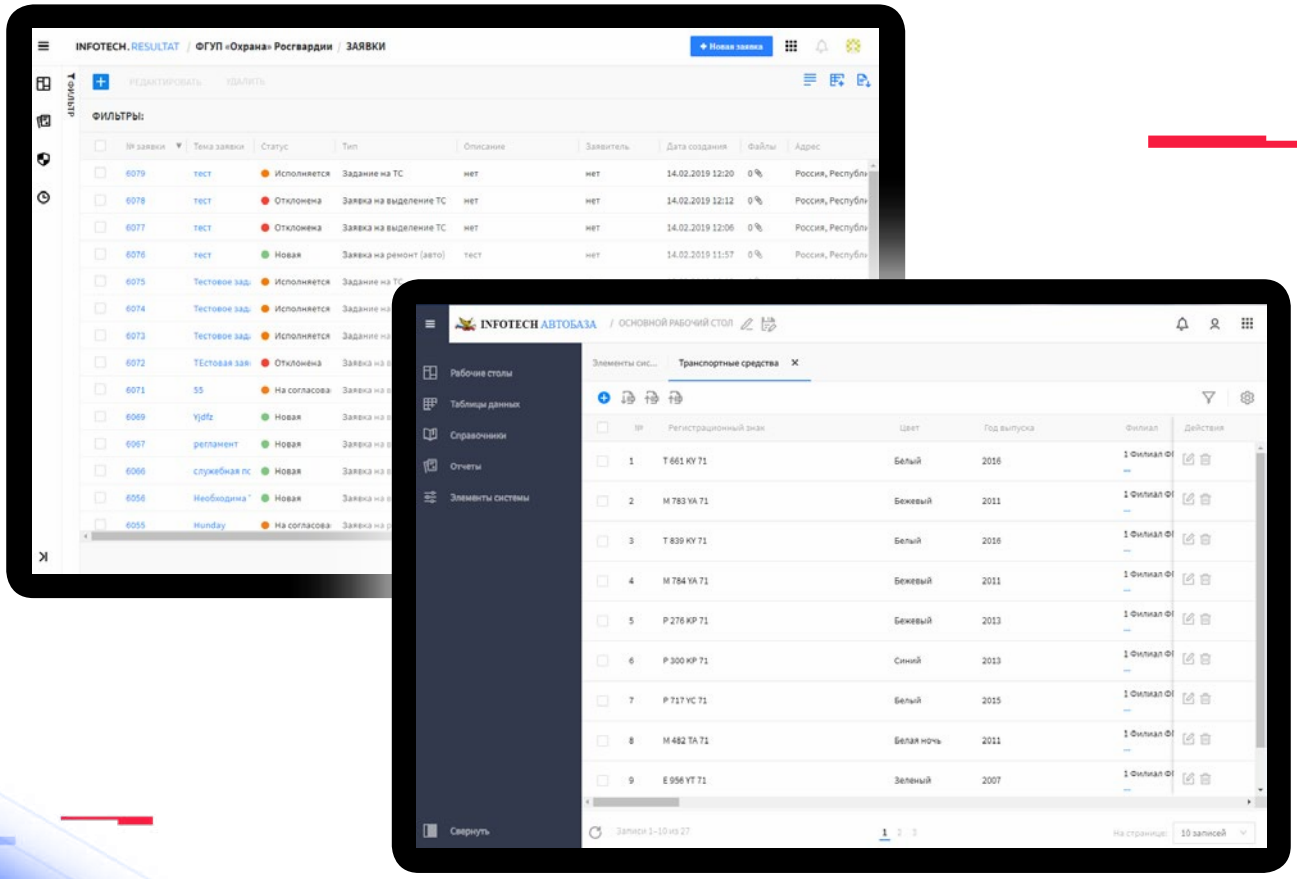
- Engineering and utilities services
- Construction and installation organizations
- Road maintenance services
- Solid municipal waste disposal services
- Shipping services
- Agricultural enterprises
- Security companies

INFOTECH.AUTO

Vehicle monitoring system for medium and large enterprises



Web interface


INFOTECH. RESULTAT / ФГУП «Охрана» Росгвардии / ЗАЯВКИ
ФИЛЬТРЫ:
INFOTECH АВТОБАЗА / ОСНОВНОЙ РАБОЧИЙ СТОЛ
Рабочие столы
Таблицы данных
Справочники
Отчеты
Элементы системы
Свернуть
Транспортные средства

INFOTECH.CONCOURS

Procurement management system

Key benefits

Russian software independent of imported technologies

No additional license fees required

Compliance with the current procurement legislation

Reliable data protection

INFOTECH CONCOURS is used by:

federal state unitary agency Okhrana of the National Guard of Russia (Rosgvardia)

United Energy Company

System features

Automation of routine procedures

Reduced complexity of preparation, approval and execution of procurement procedures; automated processing of template-based reports.

Consolidation of requirements

Collecting requests from all divisions and carrying out centralized procurement to reduce the overall cost and ensure the required quality of goods, works and services.

Convenient planning

Automated process of creation, coordination and adjustment of company-wide procurement plans.

INFOTECH.CONCOURS

Procurement management system

System features

Cost reduction

Correlating needs with actual stocks, statistics of past procurements, budgeted funds and purchase only of required goods, works and services.

Supplier verification

Checking the history of contract execution by contractors, and quick access to the current supplier blacklist.

Forecasting needs

Request forecasting, and budget planning taking into account the past procurement statistics and information about the current needs of divisions and branches.

Automation of all types of procurement

State and municipal procurement under Federal Law 44-FZ

- Control over implementation of the legislative requirements in procurement of goods, works and services
- Assignment of procurement taking into account the parameters excluding budget overspending (cost rationing)
- Control over execution of contracts (terms, quality, volume of goods and services)
- Use of a single goods and services classifier
- Control over the budget execution in planning, and procurement conducted
- Comprehensive analysis of procurement performed: prices, offers, results of the procedures implemented, etc.

Corporate procurement under Federal Law 223-FZ

- Control of procurement process compliance with the Company's procurement regulations
- Budget execution control
- Use of a single goods and services classifier
- Planning of centralized procurement, and its approval for all branches
- Automated monitoring of prices for goods, works and services to identify the best offer
- Reduction of procurement complexity and acceleration of interaction between all participants

INFOTECH.CONCOURS

Procurement management system

Automation of all types of procurement

Commercial procurement

Procurement search

- Smart search by applications and tender documentation to identify customers interested in the company's products and services
- Integrated monitoring of company-specific procurements, and monitoring changes in requests and documentation
- Optimization of labor costs related to the monitoring and selection of company-specific requests

Procurement arrangements

- Planning procurement and carrying it out
- Use of a single goods and services classifier
- Monitoring procurement process compliance with the company's internal rules and regulations

Implementation result

- Automation of procurement life cycle
- Optimization and control of costs
- Control over implementation of legislative requirements
- Standardization of the business processes of procurement activities
- Integrated analytics and automated reporting

INFOTECH.LESINFORM

Geomonitoring and forest management system

System features

Forestry geomonitoring

- Visualization of data on forestry facilities and forest areas
- Mapping of fires
- Current information on the location of firefighting teams

Situation Center

- Forest fire monitoring and control of fire extinguishing operations
- Receiving public complaints about smoke and fires
- Recording and monitoring the elimination of accidents (fires, illegal logging, etc.)
- Operational data exchange with the Ministry of Civil Defense, EMERCOM of Russia, the Ministry of Defense, the Federal Forestry Agency and other government agencies

Planning and monitoring forestry operations

- Work planning and assignment of contractors
- Control of quality, timing and the scope of work
- Control over compliance of activities with forest legislation

Integration with the Information System for remote monitoring of forest fires of Federal Forestry Agency

Integration with the IT systems of any organization

Automated recording of lessees

- Keeping records on leased forest plots
- Monitoring the lease terms of a forest plot
- Checking the conformity of a lessee's activity on a forest plot with the lease agreement

Monitoring of vehicles

- Tracking the current location of vehicles and their routes
- Monitoring the readiness of vehicles for departure
- Selecting the best route to the place where a forest fire is to be extinguished
- Monitoring consumption of fuel and lubricants

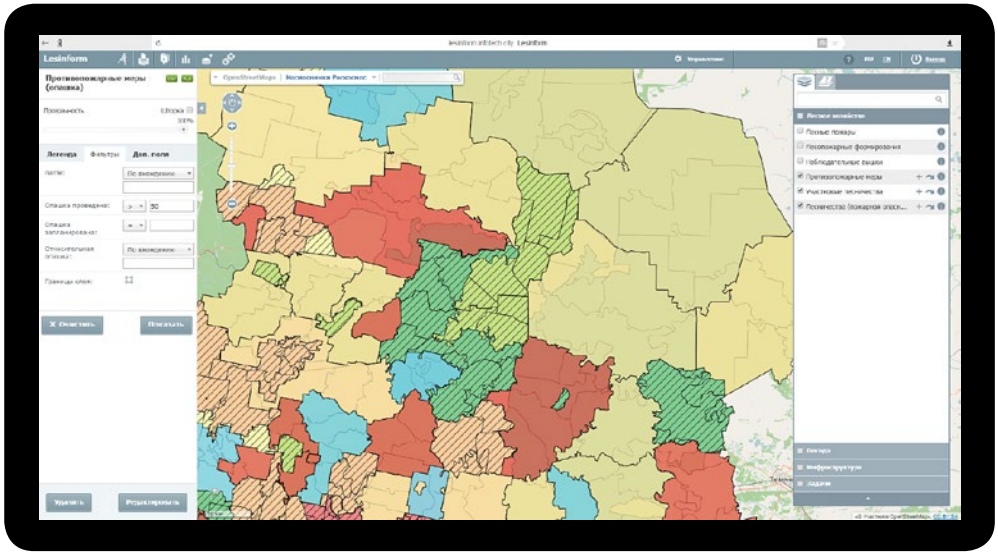
Integrated analytics and reporting

- Automated reporting according to the templates and forms of a specific organization
- Predicting forest fire development, and tracking the extinguishing process
- Predicting the outbreak of forest fires
- Taxation analysis for forest management, logging planning and forest inventory

INFOTECH.LESINFORM

Geomonitoring and forest management system

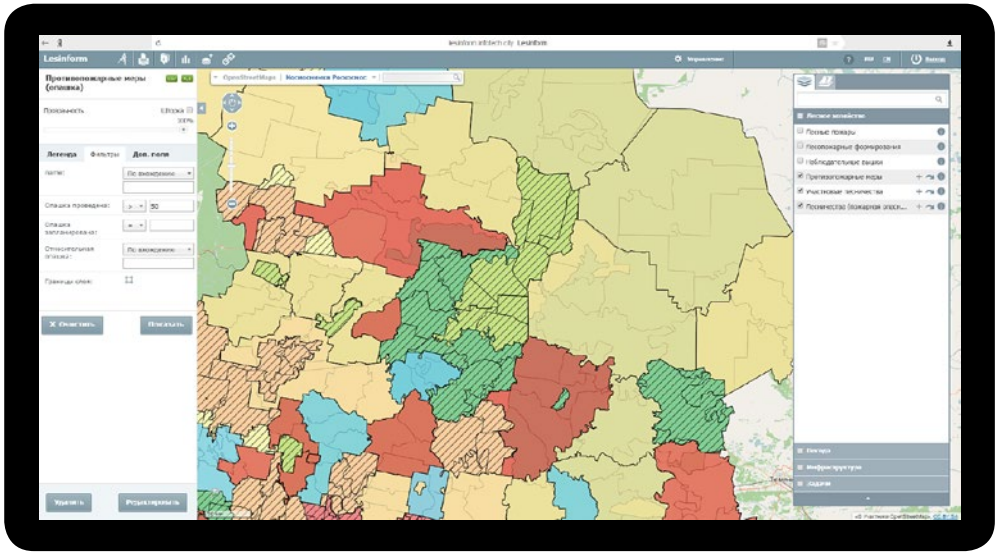
System components



Geoportal

- Boundaries of municipalities
- Areas of forest sections and forest districts
- Leased forest plots
- Location of residential settlements
- Aviation patrol routes
- Location of the forest fire and rescue units
- Current location of fire extinguishing equipment and vehicles

Customization
for specific tasks



System administrator Web interface

- Information handbooks on forest facilities, activities and resources
- Monitoring and tracking vehicles
- Reports on work performed and fire prevention measures

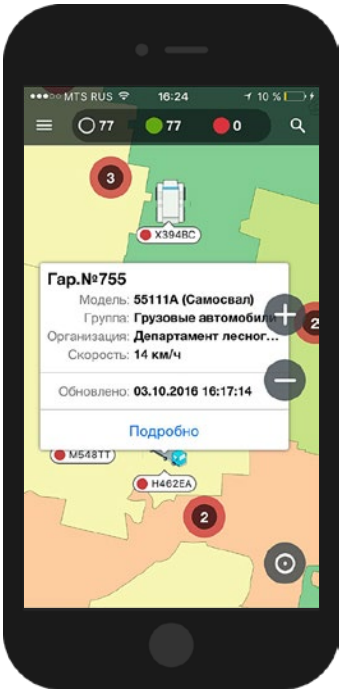
INFOTECH.LESINFORM

Geomonitoring and forest management system

System components

Mobile application

- Mobile geoportal
- Mobile interface for remote access to the system



Mobile application for field service

Supported platforms:

iOS Android

INFOTECH LESINFORM is used by:

The Moscow Region
Forestry Committee

Implementation result

- Centralized recording of forestry data
- Visualization of information on the status and use of forests on a map
- Remote control of forestry operations and fire prevention activities
- Forecasting costs of forestry works
- Forecast-based planning of fire-fighting measures
- Integrated analytics and reporting automation

Halo

Russian operating system by Infotech Group

Halo®

Russian operating system built on the Linux kernel which is the world leader among the desktop and server operating systems.

Halo is technologically compatible with other certified products manufactured by Infotech Group which allows easy building of an infrastructure of any complexity, with different security loops.

РОССИЙСКАЯ ФЕДЕРАЦИЯ

СВИДЕТЕЛЬСТВО

о государственной регистрации программы для ЭВМ

№ 2018615634

Операционная система «Halo OS»

Правообладатель: *Общество с ограниченной ответственностью "Информационные технологии" (RU)*

Заявка № 2018614042
Дата поступления 12 апреля 2018 г.
Дата государственной регистрации в Реестре программ для ЭВМ *14 мая 2018 г.*

Руководитель Федеральной службы по интеллектуальной собственности Г.П. Ивлиев

Software distribution is registered at FIPS (the Federal Institute for Industrial Property)

Everything you are used to is at hand!

01.
New modern Linux kernel.

02.
Connection to Microsoft Active Directory for saving all users' accounts.

03.
Windows-Wine emulator allows you to use all usual solutions for Windows.

04.
Intuitive interface which is similar to the familiar solutions.

05.
CryptoPro - to ensure confidentiality, and control the integrity of information through its encryption.

06.
Support for updates and installation of new applications through the use of the repository.

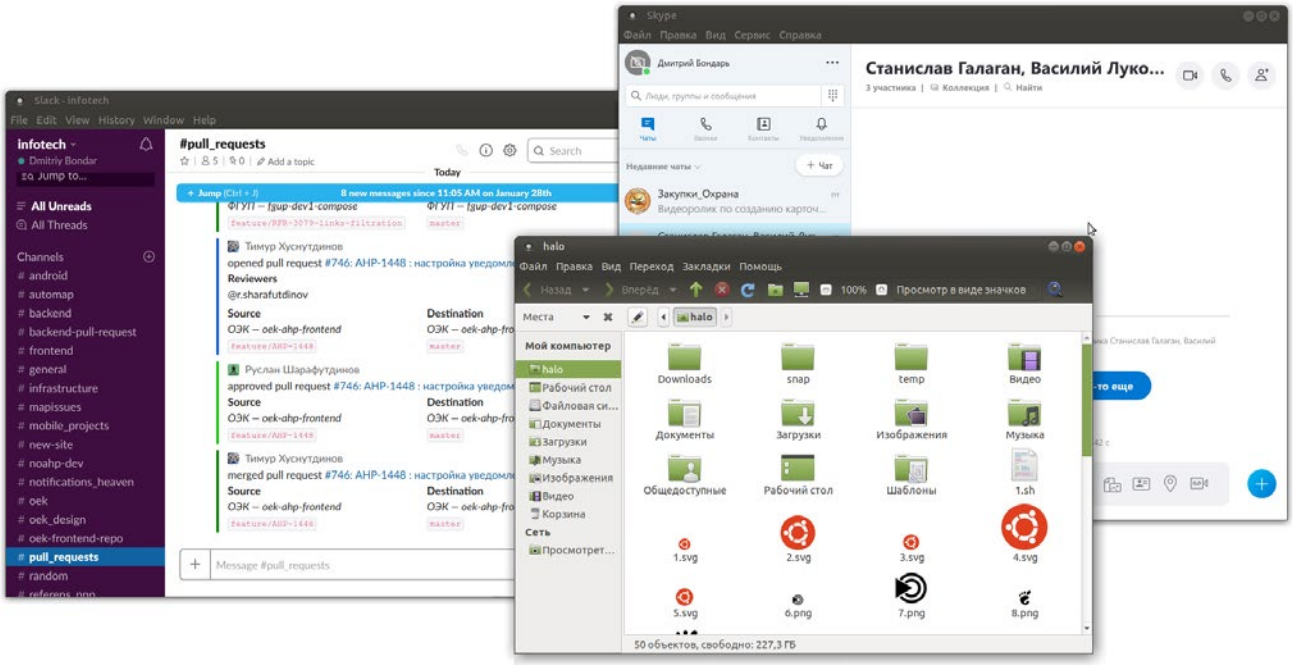
07.
Centralized authorization with use of LDAP and Kerberos protocols.

08.
Low total cost of the product ownership in comparison with the rival product which is due to provision of a comprehensive solution.

Halo

Russian operating system by Infotech Group

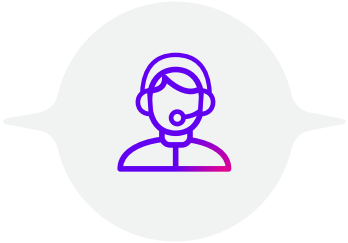
Halo Interfaces



Guarantee support

Continuous
OS update

Online response
to the problems
revealed
in the OS work



Full information
about using
the OS

OUR PROJECT IN **SKOLKOVO**

Skolkovo

HOLOCRON

an Infotech Group subsidiary

Holocron has developed an automated system for monitoring, diagnosing and predicting the state of equipment and the process facilities.

Intellectual analysis and proactive management of the technical state of equipment and facilities

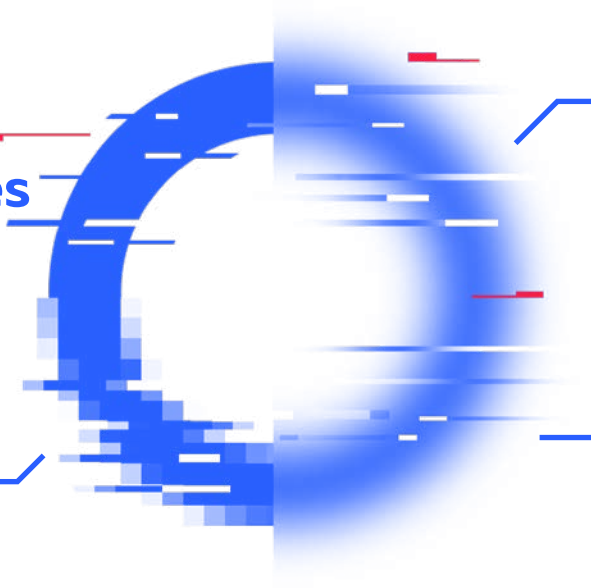
The system does intelligent analysis of the data from sensors (IIoT) and predicts change in the state of objects during operation so that to reduce costs, risks of failures and downtime.

The system is initially focused on the needs of power grid companies, including prediction of the state of cable networks, with a subsequent application in other areas: urban infrastructure, transport, industry, etc.

A technology-based solution is implemented in the UEC

United Energy Company

A unique combination of technologies



IoT Analytics

Event Stream Processing

Fog computing

Benefits

- A universal solution for any industry
- High performance
- The cost is lower than analogues

Licenses

Roskomnadzor License
for telecommunication
services

EMERCOM License
for operations involving
fire safety facilities

Educational
activity license

FSTEC Russia License
for protection of confidential
information

FSTEC Russia License for the development of information security tools

Certificate GOST R ISO 9001-2015

FSB License for development and distribution of cryptographic tools

A License of FSB of Russia for work with the use of state secret information

INFOTECH GROUP

Digital business transformation

Software products and solutions from a Russian developer

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