

ABiTech

ASCOA

**Automated Maintenance
and Repair system.**



About us

Founded in 2003, ABiTec specializes in RFID-based IT services for automating business processes in Kazakhstan. It's one of the top four innovative companies in the country.



The award for the most innovative solution with 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 production tasks



Leader in Development

and introduction of digital RFID technologies

ASCOA

(Automated System of Control and Operational Accounting)



Officially registered
software in Kazakhstan



Multilingual interface
(English, Kazakh and
Russian)



Implementation at large
enterprises of Kazakhstan,
in various industry sectors



Digital Passporing
lens and equipment (RFID)

Improved maintenance and repair efficiency

Reduction

reduction of downtime of staff and equipment

reduction of temporary and financial costs for service, maintenance and repairs

Security

automatic planning of work and work permits

100% control of execution of planned and unplanned works

timely submission of reports on work done and materials spent

«ASCOA Maintenance and Repair»

Modern automated system planning
and control system performance of service
works, maintenance and repairs
equipment, facilities.

Recent major implementations



RSE "KAZAERONAVIGATION"

JSC "NC KTZ"

RESULTS

Up to 50% reduction in maintenance and maintenance costs

30% reduction in Commodity material assets reserves

20% reduction in maintenance and repair time

10% reduction in the cost of purchasing a new one equipment

10% reduction in service personnel

5% increase in labor productivity

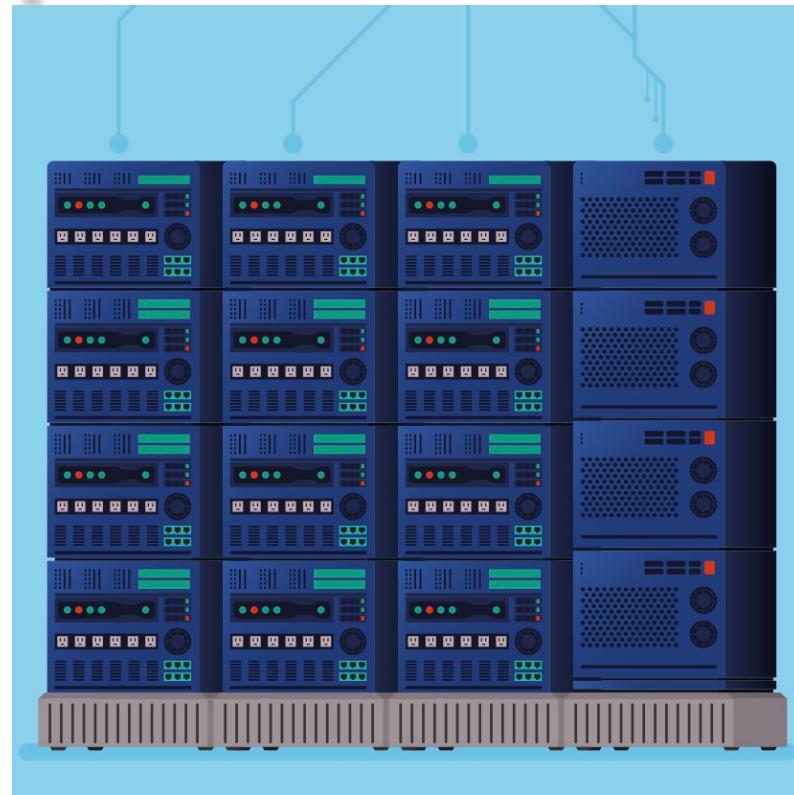
20% increase in production profitability

*“Technology for Energy”, 1998. Analysis over 500

Energy companies of the United States and Europe

**Strategic MRO. 2003. Richard L. MacInnes and Stephen L/ Pearcev

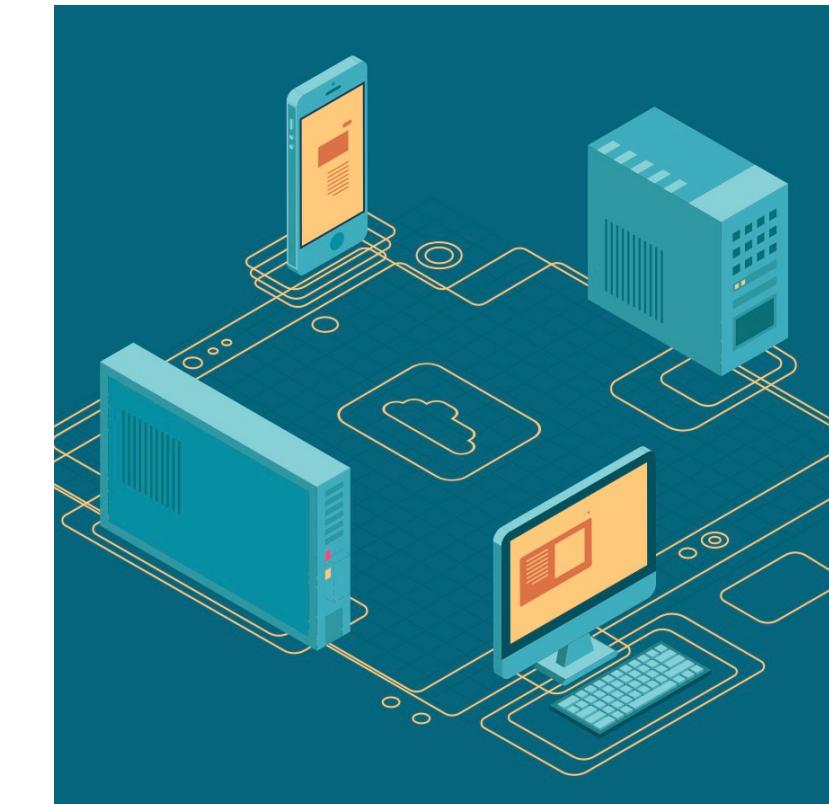
«ASCOA Maintenance and Repair » provides:



Digital
Equipment Identifier



Service Specialist
companies



ASCOA M&R



Administrator



Manual

✓ Automation
planning

✓ Online control of services
works and repairs

✓ Accounting of works on LLP,
equipment repairs

«ASCOA»

Provides mobile control

Mobile application "ASCOA" is used by professionals performing the work.



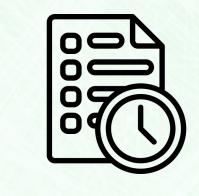
The mobile device receives scheduled works for a day.



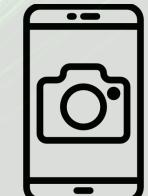
The specialist reads the code confirming that he has started working on the appropriate equipment.



The system records the start and end times.



Checks compliance with runtime rules.



If this is noted by the planner, it will require a photo report of the work performed.



If a problem is identified, the specialist makes a comment on this equipment and the manager will see it.



The materials used in the work are automatically written off (write-off of goods and materials).



All documents relevant to the work performed will be available to the specialist on his mobile device.

«ASCOA»

Provides control over the execution of Maintenance and Repair

has the ability to monitor the progress of work, remarks and photo report.

sees the materials spent for each work and can generate a report on them over a certain period of time.

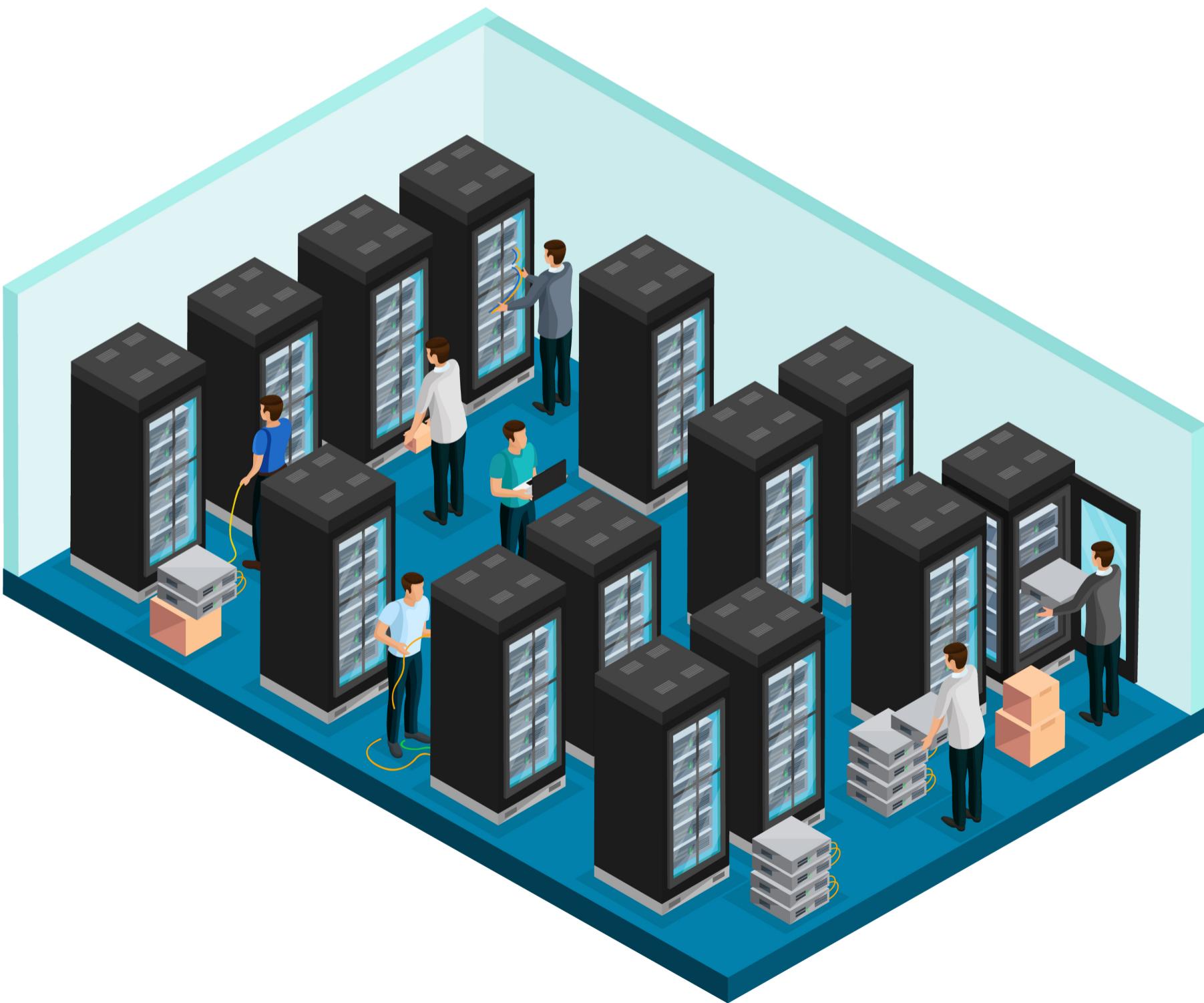
can control the workload of its technical staff and employees of service organizations. Log browsing and report generation are available on the system.

also sees the status of the work and can generate a report for the accounting office on the volume of services rendered in order to make a payment decision.



«ASCOA»

Provides centralized control and engineering control over the implementation of the M&R



"ASCOA"

Ensure the write-off of goods and materials during the work

This functionality of ASCOA opens a complete picture of when and which organization carried out service or repair works, as well as how much Commodity Material Assets was spent on these works.

- Significant facilitation of the work of responsible personnel, including for accounting;
- Review of when the equipment was repaired, how many breakdowns were in a given time, how much funds were needed, how many works were carried out by a particular organization, etc.;
- Ability to use this data for planning and analysis/prediction analysis.

«ASCOA M&R»

Participant roles



**workstation
Administrator**



**workstation
Work planner**



**workstation
Engineer**



**workstation
Head**

ASCOA ADMINISTRATION

1. Assignment of Roles and Permissions of users
2. Monitoring the functioning of the system
3. Reporting
4. Maintaining the system in working condition.
5. Communication with developers

PLANNING

1. Data exchange with other systems
2. Entering and editing planned repairs
3. Formation of the Task for repair
4. Control of the performance of Service work
5. Stationary area monitoring

PERFORMANCE

1. Identification of the Contractor and registration of work performance through a mobile device
2. Completing the task
3. Reading code on equipments
4. Makes comments on the condition of the equipment
5. Checking the contents
6. Photo report of work
7. Write-off of goods and materials for work

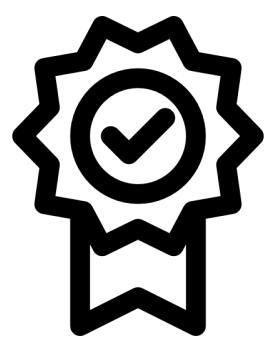
CONTROL

1. Administrative control log
2. Reports (for branches, service companies, employees, etc.)
3. Control of overdue works
4. Analytical reports

Flexible reports



Daily, weekly,
monthly.



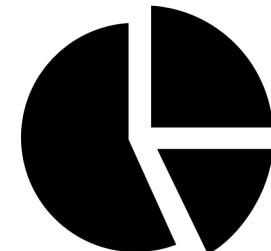
Quantitative and
qualitative characteristics
of the work.
Percentage of scheduled
work completed.



Operational,
regulatory and
analytical
reports.



According to
planned,
unscheduled and
completed work



Write-off of goods and
services.
How much inventory and
materials were spent on
different types of work.
(separation by location, by
equipment, by employee)



Automatic distribution of
reports to e-mail
addresses of managers



+7 (777) 470 44 65
Ravshan Rakhmatullayev CEO

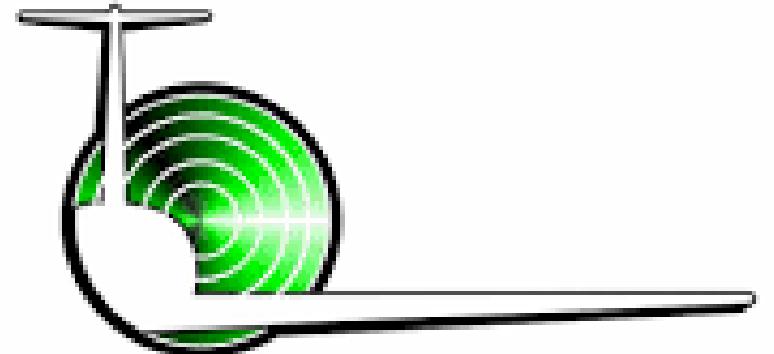
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КазМунайГаз
NATIONAL COMPANY УЛТТЫҚ КОМПАНИЯСЫ



**ҚАЗАҚСТАН
ТЕМІР
ЖОЛЫ**



KAZAERONAVIGATSIA



KazTransOil



САЕРСО



KAZATOMPROM
NATIONAL ATOMIC COMPANY



ТОО ШАТЫР



Uzkimyosanoat
АКЦИОНЕРНОЕ ОБЩЕСТВО