

DIGITAL TRANSFORMATION

BUSINESS PROCESS AUTOMATION

Content:

AL-JABR is a Technopark that specializes in training human resources and developing algorithms to automate the collection, structured storage, and analytical processing of government and corporate intelligence.

Our organizational units:



**Bobir Akil Khanov
Tech Academy**

IT Academy, which provides education in the most topical areas of IT.



Al-Jabr Kids

Learning the basics of programming, logic, algorithms, and robotics from an early age.



IT consulting

Services for the inspection and analysis of the current IT infrastructure, identifying problem areas and recommendations for optimization as well as modernization of IT systems.



Project Management

Development of technological concepts for IT projects and the formation of technical specifications for the development of software solutions.



Al-Jabr Development

Implementation of IT projects, development of software solutions for both the public sector and the business industry.



Startup support

Full support for startup projects of our IT Academy graduates.

AL-JABR: Digital Transformation of Public Sector and Business Processes.

At the core of our business strategy is the development and implementation of algorithms to automate all public sector and private business processes.

- ◆ **This will allow the public sector to:**
 - improve the quality of services provided;
 - implement modern management mechanisms;
 - optimize the cost of supporting current systems.

- ◆ **This will enable the corporate business to:**
 - improve the quality and efficiency of business processes;
 - reduce the cost of resources, increase profits;
 - respond quickly to market changes;
 - minimize errors in strategic planning.

Key problems of the IT sector in Uzbekistan



Approximately **80%** of the public and business sector needs process automation. Meanwhile, there are more than **2,500** state-owned enterprises and more than **100** state administration bodies in the country.



There are about **500** companies in the IT-sphere. There is an outstanding lack of highly qualified IT specialists - a number of them approximately **60,000** all over the country.



More than **18** million youth under the age of **30**, of whom more than **17%** are unemployed, which is **1.5** times higher than the total unemployment rate. There is an outflow of young people abroad.



The number of university applicants is **36.1%** lower than in 2020 - the level of accessibility and confidence in education is falling. We need alternatives, especially in IT and innovation.



Welcome to my new academy, based on world-class learning standards, where you can learn the most relevant professions and find employment much faster than through traditional higher education.

B. Akilkhanov

Educational programs that will be beneficial to everyone who wants to build a successful career in IT

Our primary teaching methodology is **practice (70%)**, which prevails over **theory (30%)**, so students who graduate from our courses are **ready professionals** with their portfolios.

Programming:

Python, Javascript, C++, MySQL, Android, IOS.

Design:

Adobe Photoshop, Adobe Illustrator, UI/UX design, Figma.

HR-management:

Corporate culture, standards, motivation, stimulation, basics of personnel management, recruitment

Digital-marketing:

Content marketing, Influencer marketing, Internet advertisement, Opencart, SEO, SMM.

Project management:

Project management standards, processes, and areas of knowledge of the project life cycle and features of project management in IT.

BY THE WAY! We are engaged in both the training of qualified personnel and retraining of existing IT specialists





aljabr kids

Investing in IT knowledge is the best investment,
Investing in children is an investment in the future,
Invest in your children's IT knowledge!

The career of a successful IT specialist begins at a young age



Age group 6-9 years

- Fundamentals of logic and programming
- Robotics: **WEDO 2.0** course



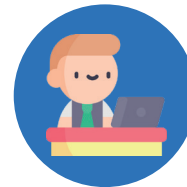
Age group 14-17 years

- Basics of computer literacy
- Python Start



Age group 10-13

- Visual programming
- Robotics: **ARDUINO** course



Intensive courses

Duration: 4-6 months
Frequency: 3 times a week, 1.5 hours

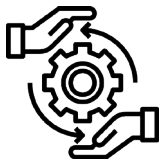
IT Consulting 360⁰

We carry out project-oriented activities related to the analysis of existing business processes to provide customers with an independent expert evaluation of the effectiveness of information technology.

Our main task is to provide comprehensive IT consulting services to achieve the following goals:



IT auditing and application of business engineering to public sector management tasks



Improvement of manageability and transparency of state authorities and commercial companies by creating a unified IT infrastructure



Cost optimization for implementing IT solutions (ERP, CRM, Business Intelligence, Groupware, SIEM and NIS systems...etc.)

As a key result of our IT consulting, our customers receive up-to-date knowledge on:

- improving managerial efficiency;
- reduction of transaction and production costs;
- minimization of human factors and errors;
- increasing the degree of control over the market situation.



Project Management For IT

The right concept – 25% of the success of the project implementation

We specialize in the development of the concept of IT infrastructures and information systems.

Almost any decision about digital modernization is characterized by the following steps:

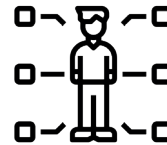
- The emergence of an idea/need for automation;
- the decision to consider/develop the idea;
- creation of the concept;
- evaluating the cost-effectiveness of implementation;
- drawing up the technical specifications;
- implementation of systems;
- launch of the systems and start of exploitation.

Our advantages:



Experienced team

- FullStack developers
- DB, IS specialists
- Project managers
- Implementation and training specialists



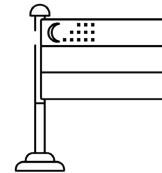
Personal approach

- Implementation of projects for different areas of activity
- Experience in working with public and private sectors



International experience

- Development experience in Uzbekistan, Kazakhstan, Russia, USA, and Europe



100% Uzbekistan

- All projects we implement with the participation of citizens of Uzbekistan

These processes include the following algorithms:



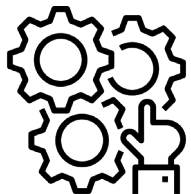
Process analysis

Identification and optimization of internal processes of the customer are IT departments. Implementation of standardized ITIL/ITSM processes



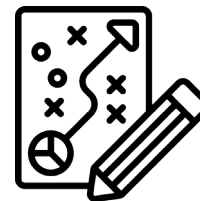
Strategic planning

Development of IT strategy to ensure synchronous business development for the customer and the corporate information system.



Project control

Development of a comprehensive portfolio of IT projects, preparation of a plan for migration of corporate information systems to the new system architecture.



Technical project

Design of the information system architecture that implements the functional requirements of the IT strategy.



Audit of information systems

Evaluation of the current state of the customer and its information systems.

aljabr

development

Our specialization – is the development of integrated software solutions

This allows all business processes to be integrated into a single system:

- All data becomes more accessible without the need for additional reconciliation or approval.
- With a single database, all data is consistent and available for processing without additional validation.
- Instant synchronization of all data. If employees in one department make any changes, all other departments and managers will know about it.
- Minimization of errors caused by human factors.
- A complete set of interconnected tools for HR, finance, and accounting.

We develop an IT strategy "from scratch" to lay the IT foundation for a powerful, flexible and versatile software solution that contains the functionality to implement most business processes. Only part of the available functions can be used at the implementation stage, while the remaining features will be connected in the future with minimal time and financial costs.

Cooperating with us in the field of software development, you invest in the future of your corporate infrastructure, which will reveal its potential as your organization and/or company grows and develop.

- **100% QUALITY ASSURANCE**
- **OPTIMAL DEVELOPMENT AND IMPLEMENTATION TIME**
- **24/7/365 SUPPORT**

E-GOVERNMENT

A single digital system for the public sector, digitalization of all archives, an electronic database of all citizens, as well as a set of portals for public services in electronic form

Scope of E-GOV services:



G2G Government-to-Government



G2C Government-Citizen



G2B Government-Business



G2E Government-Employee

Education



Health Care



Finance



Public transport



Public right



Agriculture



Key advantages:



Transparency



Convenience for citizens



Elimination of corruption



Elimination of bureaucracy



Saving of budget funds



Improving the country's reputation



Improved conditions for attracting



Improving citizens' trust in government

Cybersecurity of processes:

Using blockchain technology: A distributed and encrypted system instead of a centralized one. Blockchain cannot be hacked as data is distributed across registries rather than being in one place like traditional types of databases.



Blockchain technology



Data Tracking Technology



Data embassies

CYBER SHIELD

Cybersecurity is the most important factor in providing security of information resources and IT infrastructure from external and internal threats.

Our special area of development is the construction of Cyber Shield class systems.

SIEM (Security information and event management)

A complex of events management, security information, and attempts of unauthorized intrusion into the technical infrastructure.

◆ System Firewall

◆ Host Intrusion Prevention System

◆ Virus and Threats Protector

◆ Web Application Firewall

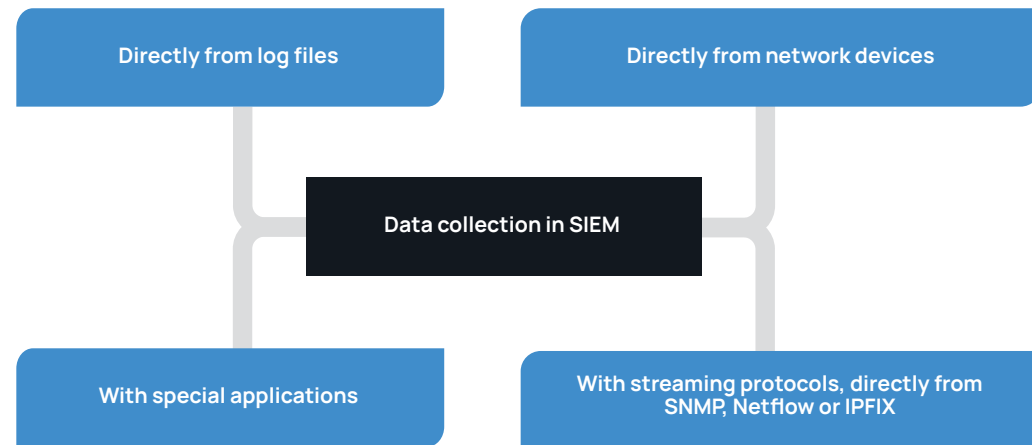
◆ Pentest Audit and Compliance Scanner

◆ Monitoring DataCenter

◆ Intrusion Detection and Prevention System

Functionality and objectives of the SIEM:

- Monitors alarms in real-time;
- Processes and analyzes data, finds relationships between them;
- Detects deviations from the normal behavior of monitored systems;
- Alerts administrators to incidents.



Sources of information for SIEM:

- ◆ authorization and authentication systems
- ◆ firewalls, network security interfaces, vulnerability scanners
- ◆ domain controllers
- ◆ CRM and other user systems
- ◆ logs of network equipment, servers, and workstations
- ◆ anti-virus software
- ◆ data leak prevention systems
- ◆ user workstations
- ◆ network equipment (routers, proxy servers, gateways)
- ◆ intrusion detection and prevention systems

CYBER SHIELD

DLP-systems

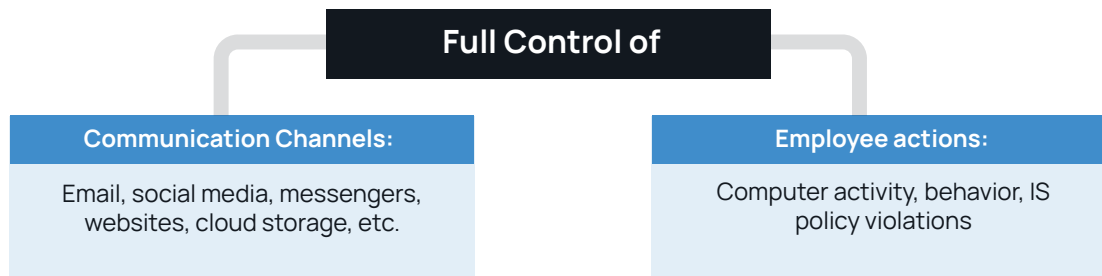
A system to prevent data leaks and control employee productivity.

About 80% of information security incidents arise due to "human error". Employees violate rules under the pressure of feelings and emotions, carefully plan crimes, or depart from the IS policy spontaneously and become insiders under pressure or due to simple negligence.

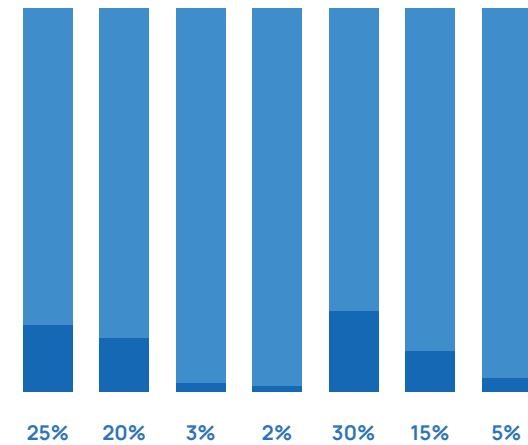
More than 40% of corporate information leaks are due to the conduct of employees

More than 90% of these leaks were due to a lack of information security solutions.

The system analyzes everything that happens in organizations in real-time. Intercepts are stored and allow you to reconstruct details of past events if the need arises to investigate.



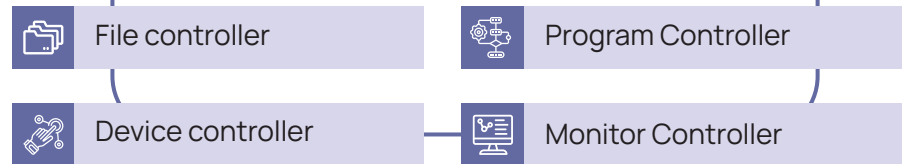
Sources of information leakage:



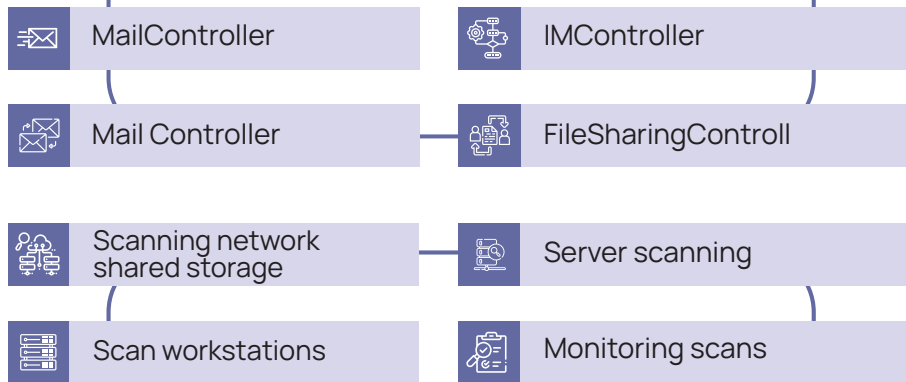
- 1 Rank-and-file employees
- 2 Accounting and finance
- 3 Technical support
- 4 Sys. admins
- 5 Managers
- 6 Top management
- 7 Others

Datagaze

Data in use

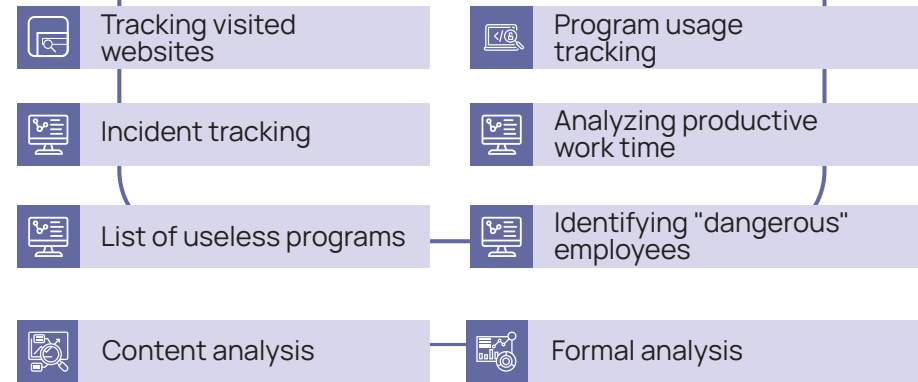


Data in Motion



Data at Rest

Employee monitoring

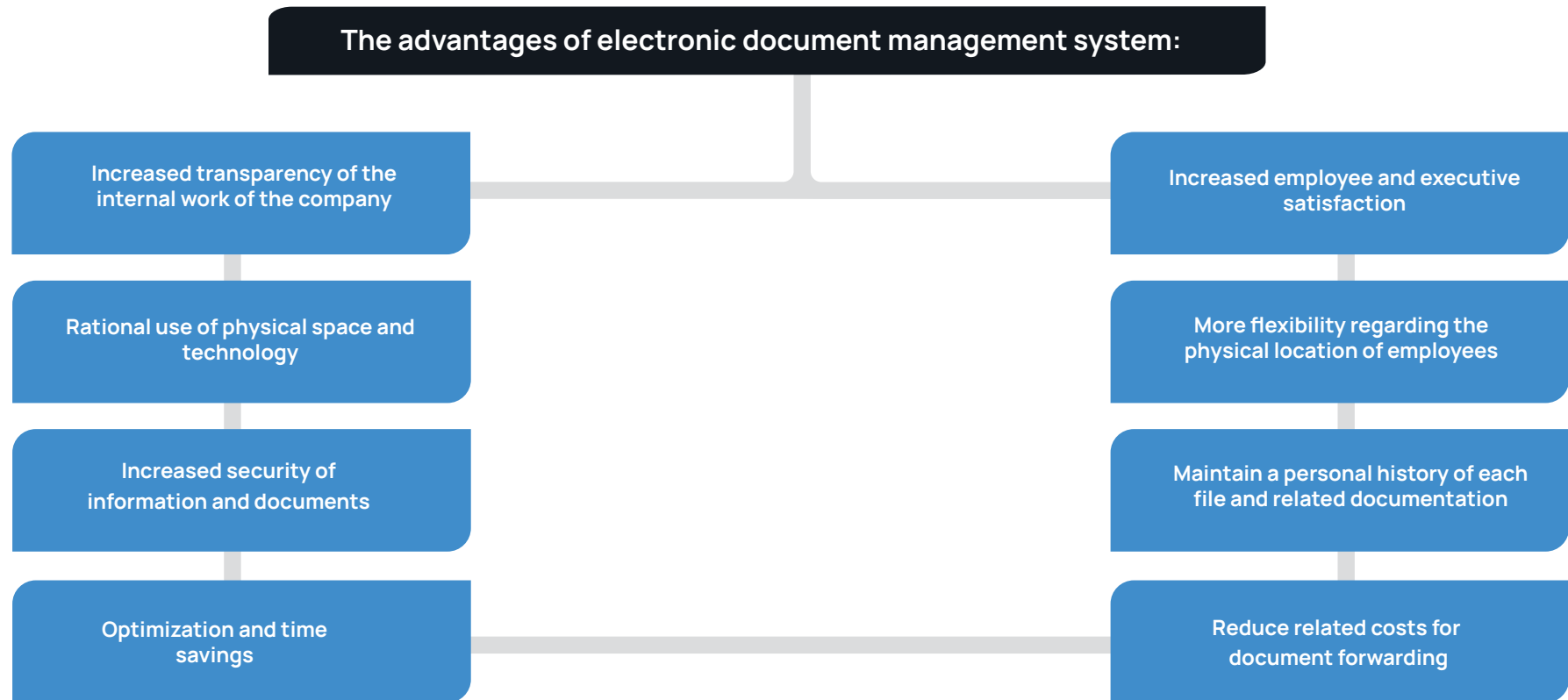


Data in Analysis

ELECTRONIC DOCUMENT MANAGEMENT SYSTEM

There are as many document management systems as there are activities. **We develop information systems that automate particular types of document management:**

- ◆ production document workflow;
- ◆ management document workflow;
- ◆ archiving system;
- ◆ personnel document workflow;
- ◆ an accounting documents workflow;
- ◆ warehouse document workflow;
- ◆ confidential document workflow;
- ◆ technical document workflow.



Tasks of the EDMS:

- ◆ Ensure effective management and transparency of the entire organization at all levels;
- ◆ Accumulation, management, and access to information;
- ◆ Providing personnel flexibility through the greater formalization of each employee's activity and the ability to store his or her entire activity history;
- ◆ Recording the activities of the enterprise as a whole (internal official investigations, analysis of subdivisions' activities, identification of "hot spots" in activities);
- ◆ Optimization of business processes and automation of the mechanism of their execution and control; Exclusion of paper documents from the internal circulation of the enterprise. Saving resources by reducing the cost of document flow management in the organization.

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БОШ САҲИФА

8189
ЖАМИ ҲУҶЖАТЛАР

3
АКТИВ ҲУҶЖАТЛАРИМ

67
ИЖРОДАГИ ҲУҶЖАТЛАР

0
РЕЗОЛЮЦИЯ УЧУН

8122
БАЖАРИЛГАН ҲУҶЖАТЛАР

0
НАЗОРАТДАН ЕЧИШГА

28
МУДДАТИ БУЗИЛИБ БАЖАРИЛГАН

0
ИМЗО УЧУН

64
КЕЧ КАБУЛ ҚИЛИНГАН

0
МУДДАТ УЗАЙТИРИШГА

0
МУДДАТИ БУЗИЛГАН ҲУҶЖАТЛАР

0
ИЖРОЧИНИ УЗГАРТИРИШ

0
МУДДАТ

БУГУН: 0 та
ЭРТАГА: 0 та
ИНДИНГА: 2 та

3 КУН: 0 та
4 КУН: 0 та
5 КУН: 7 та

0
ИЖРОЧИНИ УЗГАРТИРИШ

0
ҚУШИМЧА ИЖРОЧИЛАР ЖАВОБИ

Ходим	Жами ҳужжатлар	Ижродаги ҳужжатлар	Бажарилган ҳужжатлар	муддати бузилиб бажарилган	Кеч қабул қилинган	Бугун	Эртага	Индинга	3 кун	4 кун	5 кун	Бажарилмаган ҳужжатлар
1. Ходим ФИШ	7233	36	7197	26	62	1	0	0	0	0	1	0
2. Ходим ФИШ	500	16	484	2	2	0	0	1	0	0	3	0
3. Ходим ФИШ	167	3	164	0	0	0	0	1	0	0	1	0
4. Ходим ФИШ	141	2	139	0	0	0	0	0	0	0	1	0
4. Ходим ФИШ	140	4	136	0	0	0	0	0	0	0	1	0
5. Ходим ФИШ	8	6	2	0	0	0	0	0	0	0	0	0
Жами	8189	67	8122	28	64	1	0	2	0	0	7	0

Қўйи тузилмага юборилган топшириқ ҳужжатлари

Ходим	Жами ҳужжатлар	Ижродаги ҳужжатлар	Бажарилган ҳужжатлар	муддати бузилиб бажарилган	Кеч қабул қилинган	Бугун	Эртага	Индинга	Бажарилмаган ҳужжатлар
Анджон вилояти	2	0	2	0	0	0	0	0	0
Бухоро вилояти	2	0	2	0	0	0	0	0	0

Classification of the EDMS:

EDMS with advanced information storage and searching tools

EDMS, oriented to support the management of the organization and the accumulation of knowledge

EDMS with developed additional services (for example, CRM)

EDMS with developed WORKFLOW tools

EDM, oriented on the collaborative work support (COLLABORATION)

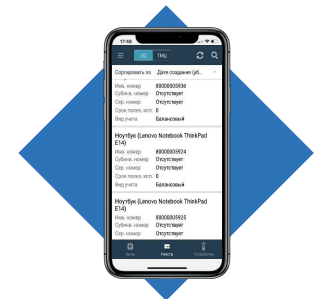
RFID-BASED SYSTEM SOLUTIONS

Inventory of offices and warehouses:

RFID tags allow you to organize your office and warehouse system, make it easier to find inventory, collect statistics, and fight theft. The system works by radio waves, reading information at an average distance (8-10m) for a fraction of a second.

Maintenance:

- ◆ Transparency of financial responsibility by detailing treatment
- ◆ Minimization of the human factor
- ◆ Convenient and valuable reporting on movements and inventory of fixed assets
- ◆ Quick search of fixed assets with RFID tags
- ◆ Record keeping by LOL and users of the operating system



Increasing the efficiency of maintenance of production equipment and other fixed assets

ASCOA and MaR - Automated System of Control and Operational Accounting of Service Work, Maintenance and Repair.

The result of implementing RFID-based ASCOA

Up to 50% reduction of maintenance and repair costs

Up to 30% reduction of inventory

More than 40% increase in the quality of vehicles and rolling stock maintenance

More than 20% increase in production profitability

Up to 20% reduction of time for maintenance and repair

Over 15% increase in labor productivity

Up to 10% decrease of expenditures for procurement of new equipment

Over 75% increase in service efficiency



STARTUP SUPPORT



"Incubator is a school,
Accelerator is a university."

Business Incubator:

Modern co-working center, with all the amenities and facilities, event area, meeting rooms.

Full support and consulting on general organizational, financial and legal matters.

Startup acceleration:

Assistance in preparing a clear project development program with clear goals and deadlines.

Consultations and introduction of financial accounting and business control tools into the project, HR services, joint presentations to specialists and mentors.

Business incubator and Startup acceleration for graduates of our IT Academy

We allow our graduates to implement their ideas and projects with our full support, for which we offer them 2 important algorithms:

According to business statistics, only 1% of startups "take off" - and that's normal

We help our startups understand and solve such key problems and factors of project development as:

- ◆ **Idea and business model.** It often happens that the idea sounds promising, but the business model does not allow the startup to scale;
- ◆ **The market.** Start-ups often overestimate the size of their target market, do not understand it and its entry mechanisms and do not take into account the need for legislative changes to spread the innovation invented by the start-up.
- ◆ **Founders.** They often have no experience of results-oriented work, no serious personal and team achievements. Often there is a lack of leadership skills and understanding of people's psychology.
- ◆ **Team.** Many "pitfalls" - often young managers do not like someone in the team to have their own opinion, do not allow good professionals to grow, or hire weak professionals to compete against them.
- ◆ **Investors.** On the one hand, startups that decide not to attract external financing cut off a whole group of risks from themselves, on the other hand, for some startups turning down an investor's money may be equal to failure.

OUR PARTNERS

We are a team of developers, IT consultants, **project & business development** managers, and business analysts. We participate in various projects all over the world. One of the key features of our team is that we are **99.9%** Uzbeks and implement a part of our projects from our home country, periodically traveling to other countries for inspection of customer tasks and infrastructure.

However, this does not mean that we are alone - we have an extensive network of partner vendors of IT solutions, **hardware** distributors, and **sales** partners around the world.





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