

# 7REDLINES

## PRACTICES, SOLUTIONS, SERVICES



# ABOUT US

**7RedLines** - We are a federal-level IT integrator offering the software development and implementation of any complexity for your business.

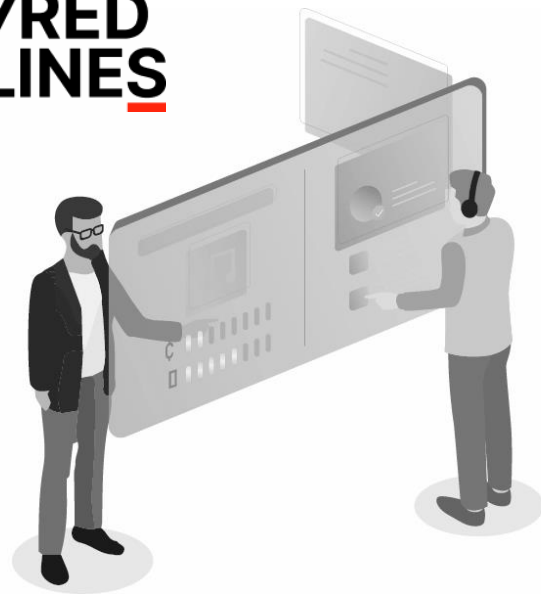
Our team's **15 years of experience** allow us to get involved at any stage of a project's development and tackle most modern challenges.

**Our mission** - to create and implement useful IT solutions for your business, helping you manage it efficiently and effectively.

**We undertake projects** to develop software of any complexity for a wide range of business areas:

- management and information systems implementation;
- creation of corporate data warehouses and data management systems;
- development and implementation of interactive BI portals with additions and extensions in the field of predictive analytics, machine learning and big data technologies;
- implementation and refinement of «Business Process Management» and «Robotic Process Automation» solutions;
- customized solutions tailored to customer needs.

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LINES**



# COMPANY COMPETENCIES

DWH / ETL / BI	<b>Corporate data warehouses</b> and integrated data analysis platforms Implementation, data acquisition and transformation.
ML / AI	<b>Artificial intelligence and machine learning</b> for efficient information analysis and problem-solving similar to “how humans can do”.
BPM / RPA	<b>Automation and robotisation</b> of company business processes (BPM & RPA).
ERP	<b>Resource management systems</b> implementation, refinement and customization for effective financial management of the company.
ALM	<b>Development and deployment managing solutions</b> of software applications throughout their entire life cycle.
CUSTOM DEV	<b>Development and configuration</b> of complex customized software solutions
WEB / MOBILE	<b>Development and customization</b> of complex tailored software solutions



# TECHNOLOGICAL STACK

## DWH / ETL / BI

**Programming languages and technologies:** t-sql, pl/sql, python

**Databases:** Arenadata DB, PostgreSQL, MS SQL Server, Oracle, MongoDB

Arenadata Streaming Nifi, Arenadata Streaming Kafka, Apache Airflow, Apache Nifi, Apache Kafka, MS SSIS

**Platforms and solutions:** Visiology, Pix BI, Modus BI, Qlik Sense, MS Power BI, Apache Superset

## ML / AI

Python, Pandas, OpenAI ChatGPT, Whisper; h2o, gan-nets, predictive analytics, time series analysis, CV models, NLP models, mathematical modelling, ocr;

## ERP

**IC:** YX, ERP, KA, YT, УПП, БП, ЗУП, consolidation and data exchange with third-party systems

## BPM / RPA

**Modelling languages and notations:** bpmn, uml, idef

**Platforms and solutions:** ELMA, PIX Robotix

## ALM

**Platforms and solutions:** TeamStorm, Test IT, GitFlic

## CUSTOM DEV

**Front-end:** Pure JS, Vue JS, React JS, Angular JS, JQuery, SVG, CSS3

**Back-end:** Java Spring

**Devops:** ci/cd: gitlab ci/cd (+kaniko), nexus, docker, monitor: elk, grafana;

**OS:** centos, ubuntu

## WEB / MOBILE

**CMS:** drupal, bitrix

**Web service:** nginx, varnish

**Queues:** ActiveMQ, Kafka

**Layout:** UI / UX, Web sockets, Svelte, TS, Angular TS, Backbone JS

iOS (Swift), Android (Kotlin), React Native, Flutter, Xamarin, Ionic, PhoneGap



# DATA WAREHOUSE BUILDING

## Business values

- Speeding up access to information
- A single source of "Truth"
- Improving economic efficiency by coordinating business processes

## Expertise

### Data Warehouse

## How it works

Data warehouse is a data system separated from the operational data processing system.

Archived data from different, sometimes very heterogeneous sources are stored in corporate repositories in an easy-to-analyze form. This data is preprocessed and uploaded to the repository during the extraction, conversion, and upload processes.

## Application

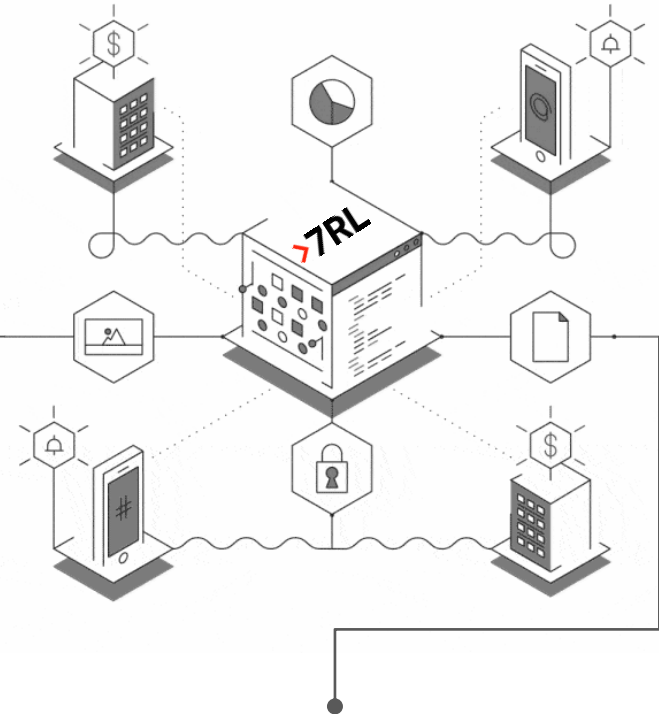
The speed of response to changes, monitoring of performance indicators and automation of processes.

## Result

- Quick access to the necessary information;
- Long-term data security;
- Stable operation of business systems.

## DWH Business Effects

- The decision-making process improving;
- Business processes optimization;
- Communication between departments advancement;
- Customer satisfaction enhancement



# BUSINESS ANALYTICS

## Business values

- Key business indicators operational monitoring
- Acceleration of business processes leading to improved economic efficiency
- Reduction of production costs
- Increased profits due to production forecasting

## Expertise BI Platform

### How it works

BI systems are a set of practices for collecting, structuring, analyzing and turning data into a business picture that allows you to make decisions.

### Application

- Data-collection
- Clearing / data standardization
- Analysis
- Reporting

### Result

- Description of current business processes and data-flows between systems
- Automation of data collection and consolidation
- Analysis of current business processes with optimization 15%
- Reduction of stocks of raw materials from 30%
- Unauthorized equipment downtime cutback
- Declining of technical support costs 10%



## Business Effects

- Performance improvement
- Service quality
- Cost reduction
- Income growth
- Security improving
- Innovation stimulation

# AI & ML ЭКСПЕРТИЗА

## Business values

- The ability to make the right management decisions based on objective information about the technical condition of production assets;
- Efficient use of human resources by automating routine processes;
- Transparency and objectivity of repair and quality control processes.

## Expertise

### Artificial Intelligence & Machine learning

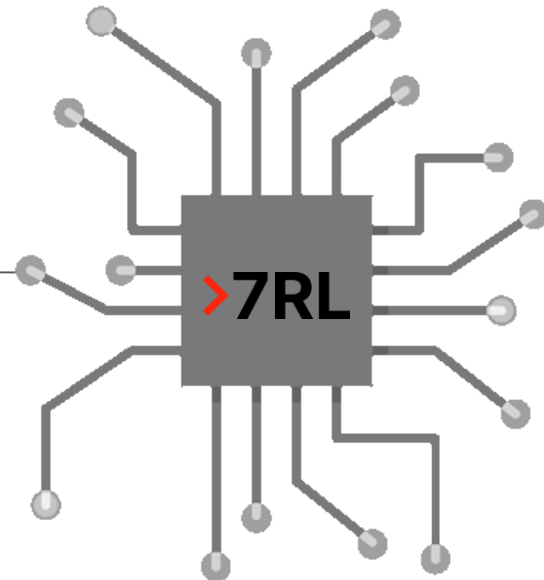
#### 7RL own way

- Developing own neural network in Python without ready-made libraries
- Acceleration of own neural network through the use of libraries of multithreaded computing, including GPU
- KEROS type libraries using for iterative determination of the optimal neural network architecture
- Applications diversification of ML and AI methods for various types of tasks (neural network for classifying an ensemble of decision trees for regression problems, etc.)

#### Application

The development of a variety of systems that analyze information and solve problems in the same way as a human does.

- Predictive analytics
- Object classification
- Recognition
- Complex calculations



## Business Effects

**Artificial intelligence (AI)** can lead to significant increases in productivity, improved customer service, reduced costs, increased revenue, improved security, optimized resources, and spurred business innovation.

# ALM

## Business values

- Managing the company's strategic goals
- Access to the status of all projects
- Employee monitoring workload and productivity
- Flexible labor accounting tool
- Full transparency of business processes
- Foreign software replacement (Jira, Asana, Wrike, Trello, Confluence, etc.)

## Expertise

### Application lifecycle management

#### How it works

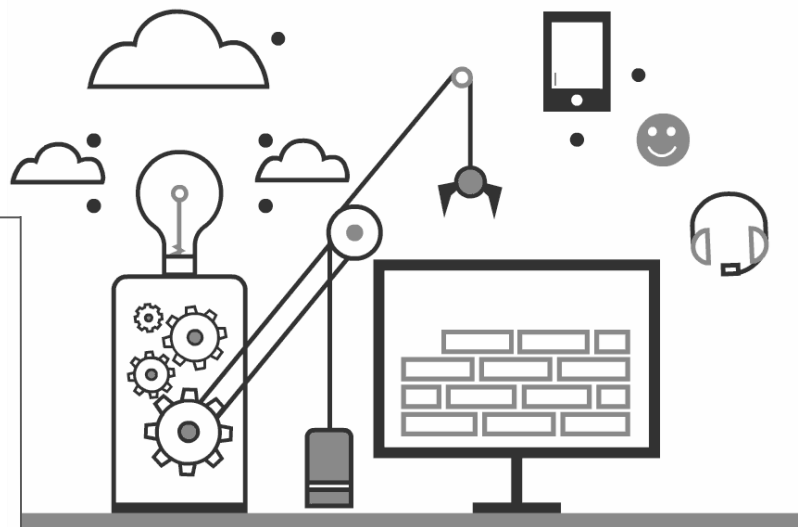
Application Lifecycle Management (ALM) is the management of projects, requirements, development process, testing and quality assurance (QA), as well as customer support and IT services during application operation.

#### Application

- Defining business goals
- Work planning
- Team involvement
- Process tracking

#### Result

- Reducing the testing time to 50%
- The number of defects in the productive environment cutback to 15%
- Project activity requirements management automation
- Automated collection of metrics for processes in OT
- The software development lifecycle reduction



## Business Effects

Thanks to metrics, the management of companies and development teams can objectively assess the quality of current work and team results in order to be able to optimize the process and predict performance.



# ERP PROGRAMMS

## Business values

- Reduction of labor costs in various departments 30%
- Acceleration of obtaining management reports in 3 times
- Reduction of production costs by up to 50%
- The increase of stocks turnover up to 18%

## Expertise

### 1C:Enterprise

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## How it works

Implementation of complex automation projects based on standard 1C software products for medium and large businesses (factories, holding structures and corporations). Maintenance of software products on the 1C platform, with modification due to the Customer needs.

## Application

- Creation of fully functional business planning and budgeting system
- Complex financial control systems;
- Creation of data consolidation systems in holding structures;
- Building transformational, translational and mixed models according to RAS, IFRS and GAAP standards;
- Creation of activity management monitors for top managers and heads of departments/



# AUTOMATION AND ROBOTIZATION OF BUSINESS PROCESSES

## Business Process Management

### How it works

The software solution allows you to manage the company's business processes. Due to the use of BPM systems, it becomes possible to identify processes in the company, present their graphical diagrams, perform management, analysis and further improvement of business processes.

### Business values

- Determining the scope of administrative tasks required to manage the process
- Defining and detailing all work processes
- Identifying weaknesses that need to be improved and optimized
- Converting current workflows into more efficient ones

## Robotic Process Automation

### How it works

Using software "robots" to perform repetitive routine operations instead of humans. A distinctive feature of RPA is the interaction with a computer program in the way "a real person would do", and not using an API.

### Business values

- Accelerate business processes by reducing SLA. The robot performs operations in continuous and uninterrupted mode
- Save resources by reducing labor costs
- Improve the quality and reliability of work, minimizing human errors
- Reduce the amount of manual labor and free up employees' time to participate in processes with greater added value

### The effects of an integrated approach

- **90%** of manual operations are performed automatically
- **50%** cost savings on processing accounting documents
- The speed of document processing increases up to **5 times**
- The reporting period closes **3 times faster**
- **4 times less time** to search for primary documents

# CUSTOMIZED SOLUTIONS

**You don't have the opportunity to purchase or change the system?**

- Highly specialized systems in the company
- Retraining employees complexity
- The high cost of new solutions on the market

## Решения

### Customized Solutions

#### Customized solutions – what for?

Customization is the introduction of technical or software changes to a particular product in order to meet the customer individual requirements.

Why to pay for new software when you can refine the current one taking into account all the needs without disrupting the company's business processes.

#### Result

- Optimal applications and services development by parameters: cost, speed and quality;
- Cross-platform since the first releases - develop once, use everywhere;
- A comprehensive and flexible approach to secure data management;
- Обеспечение быстрой и эффективной обработки больших данных;
- Ensuring fast and efficient big data processing;
- High-quality integration with any other systems due to the variety of proven and ready-made solutions;
- Application development of any complexity for retail, banks and video services;
- Building complex analytical systems, EDI and monitoring;
- Reduced maintenance costs.



## Technology Stack

**FRONT-END** PURE JS, VUE JS, REACT JS, ANGULAR JS, JQUERY, SVG, CSS3

**BACK-END** JAVA SPRING

**DEVOPS** CI/CD: GITLAB CI/CD(+KANIKO), NEXUS, DOCKER, МОНИТОРИНГ: ELK, GRAFANA; ОС: CENTOS, UBUNTU

# Many companies TRUST US



## CONTACT US



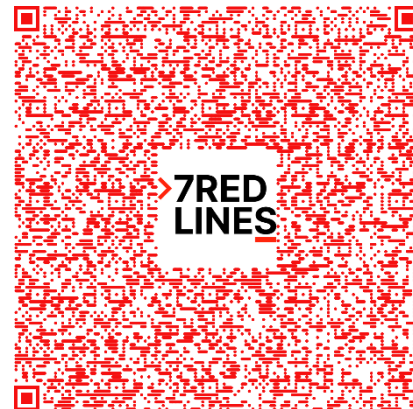
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***"LET ME HEAR FROM YOU, AND TOGETHER WE CAN CREATE A  
GREAT SUCCESS STORY!"***