



# WEBLONED

The platform of predictive analytics and risk management based on Artificial intelligence

25 October 2022 г., K-Skai LLC



# Problem: increasing morbidity and treatment costs

**1.5** 

### **MLN PEOPLE**

Have died from chronic noncommunicable diseases (NCDs) in 2019 in Russia

2.7

# **TRLN RUB (3,2% GDP)**

Russian economic loss from CVD Losses from CAD: over 1 trln rub.

220

### **BLN RUB**

Make up direct costs of public health care for CVD treatment and diagnosis

8X

### **NCDs TREATMENT COSTS**

Higher than costs of screening and prevention

### **CHRONIC NCDs CASES**

Preventable by screening, identifying high-risk patients, and follow-up preventive treatment



Healthcare does not use all the possibilities to prevent morbidity and excessive costs of medical care:

Physicians are overburdened. There is not enough time at an appointment for a careful analysis of patient data as the flow of patients is large. Therefore, physicians hardly perform patient risk stratification.

**Focus on treatment.** Healthcare systems prioritize treatment, which is expensive and often ineffective.

Low use of technology. Healthcare facilities store lots of date, however we do not analyze it and do not create value from it.



It is necessary to implement a risk-based approach and predictive analytics based on AI technologies to improve the effectiveness of disease prevention





# Solution: Webiomed platform



# Analysis of de-identified medical data

Automatic analysis of medical data, including the extraction of information from unstructured medical records using NLP technologies



# **Artificial Intelligence**

Big data collection and machine learning for suspected disease detection and deep mining of patient data



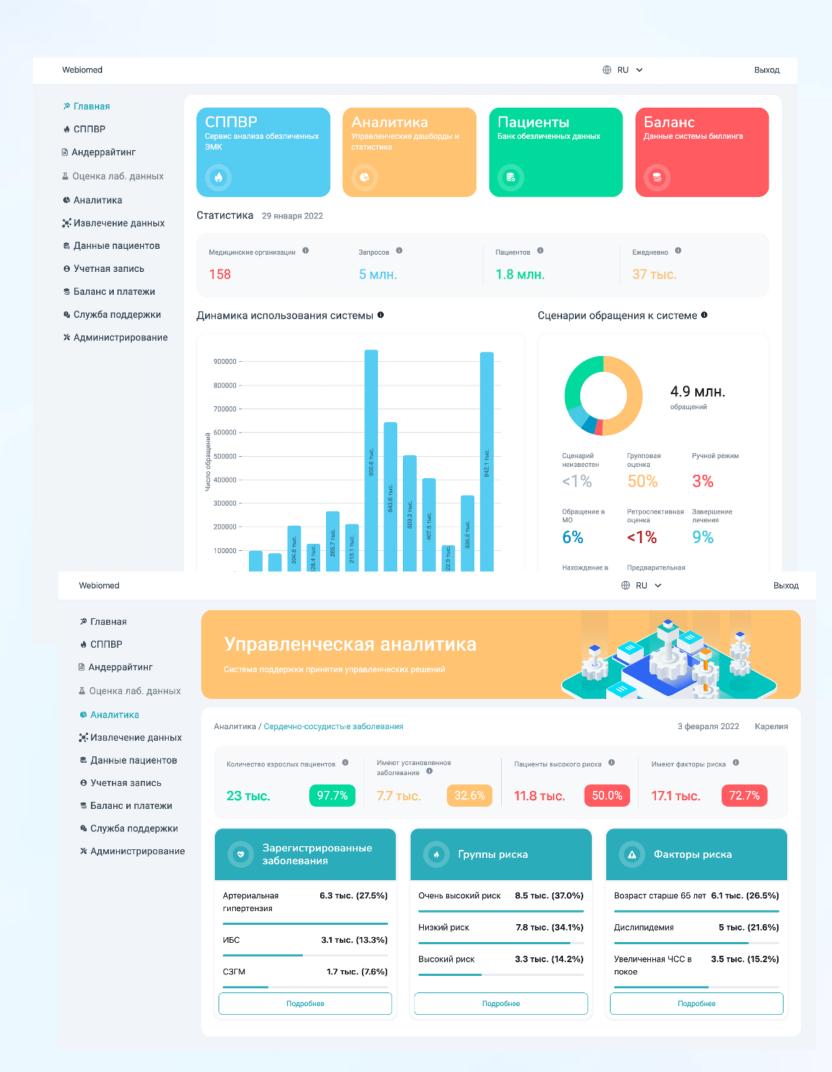
# **Predictive analytics**

Clinical and management decision support based on a personal risk assessment and accurate predictions of a possible deterioration in a patient's health in the future



# Recommendations for doctors and patients

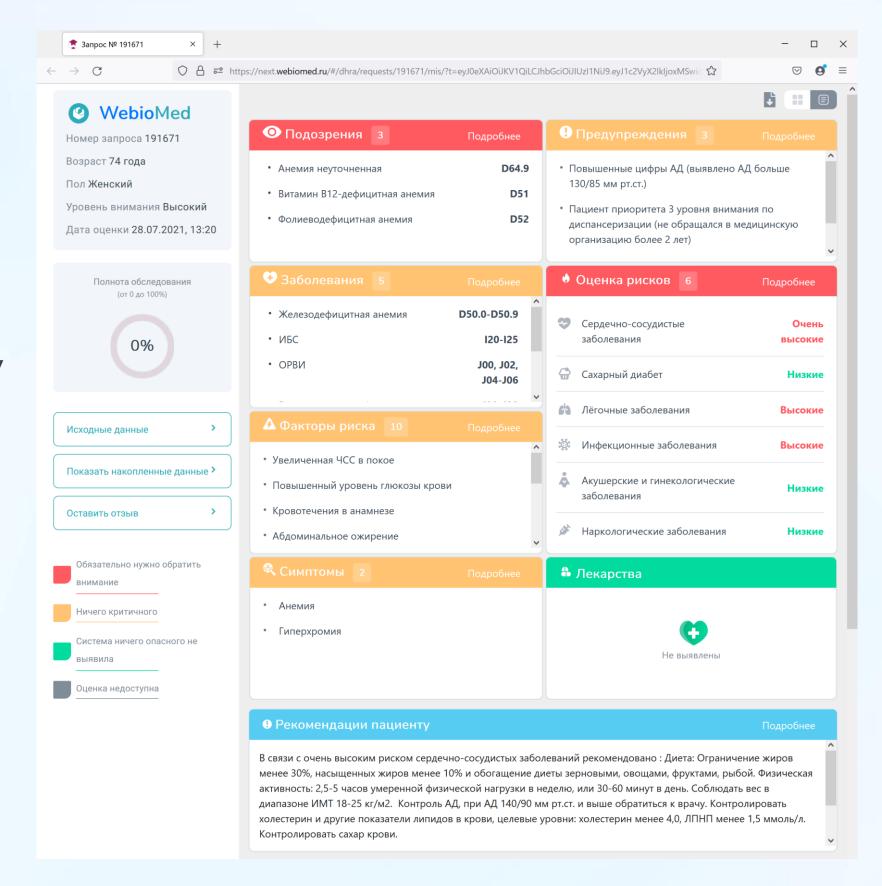
Personal advice to doctors and patients on the prevention of diseases, formed on the basis of approved clinical guidelines





# Clinical decision support

- \* Automatic analysis of anonymized electronic health record
- \* Identification of hidden diseases missed by a physician
- \* Identification of risk factors
- \* **Prediction of possible negative events** in a patient's health, including complications of existing diseases, hospitalization or death
- \* Comprehensive patient **risk assessment**
- \* Personalized clinical guidelines for physicians and patients

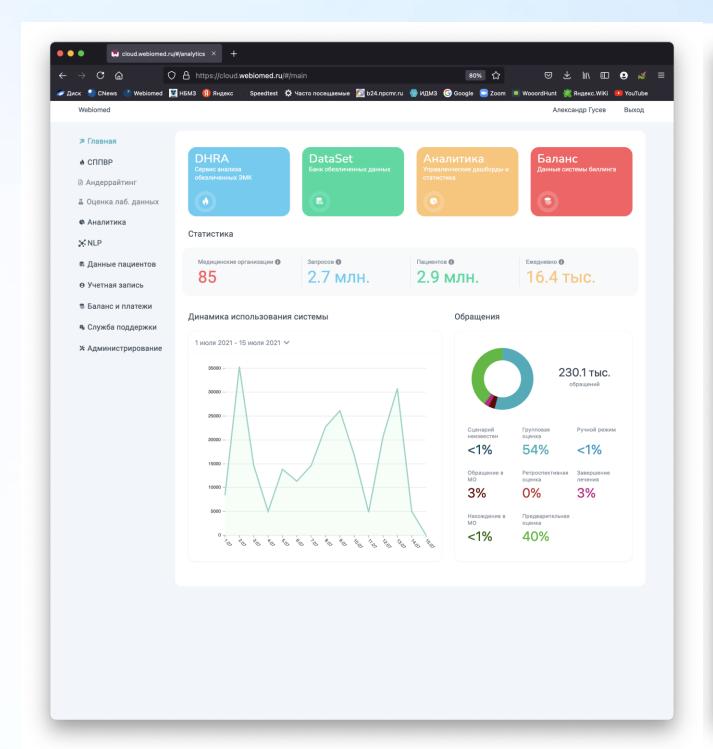


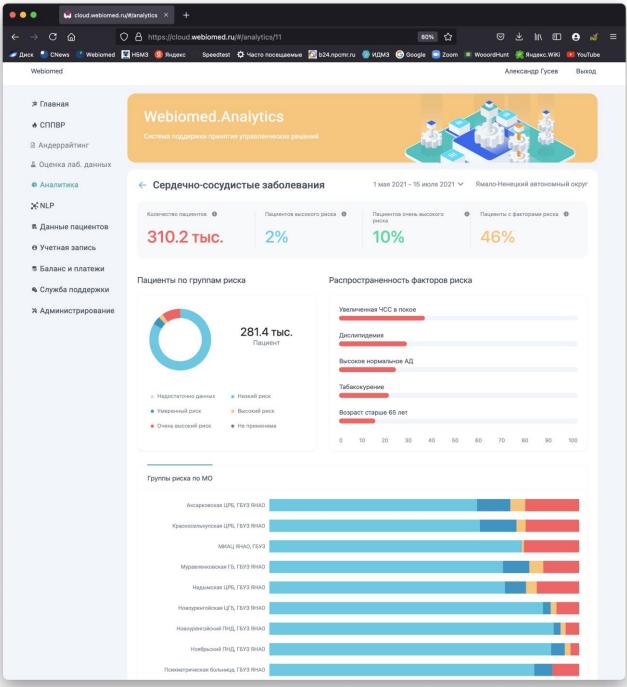


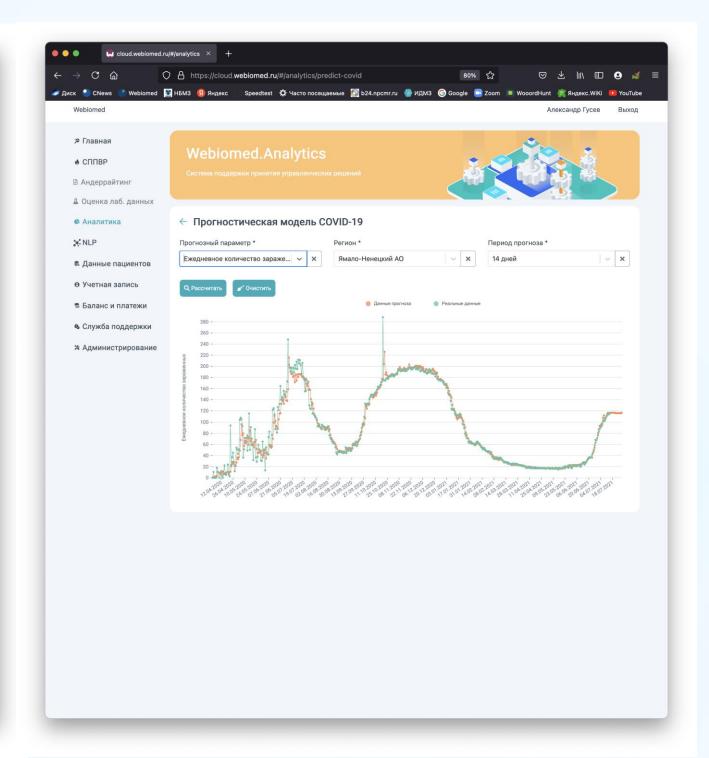


# Management decision support

Based on the collected anonymized digital patient profiles, **Webiomed forms a unified management analytics**, **helps to make correct and timely decisions** to reduce morbidity and mortality based on dashboards and population predictive models









# Supported diseases

**DISEASES** The platform is able to identify



Are evaluated by the system for possible negative events

# We support the following disease areas:

- Cardiovascular diseases
- Blood disorders
- Diabetes
- Respiratory diseases
- Gastrointestinal diseases
- Chronic kidney disease
- Oncology
- Orphan diseases

- Cardiovascular diseases
- Diabetes
- Pathology during pregnancy
- Infectious diseases (COVID-19)
- Addiction
- Respiratory diseases
- Metabolic diseases

# S

# Algorithms and models implemented in CDSS

# Score Predictive models Diagnostic models

Overall cardiovascular risk score

SCORE: 10-year risk of fatal CVD.

SCORE (relative risk): 10-year risk of fatal CVD.

Framingham score: 10-year risk of developing acute CVD. PROCAM score: 10-year risk of coronary complications.

UKPDS Cardiac Risk score: 10-year risk of coronary artery disease in patients with type 2 diabetes

mellitus.

CHA2DS2-VASc score: risk of stroke and thromboembolic complications in patients with flutter

and atrial fibrillation.

CART score: risk of cardiac arrest in hospitalized patients.

PORT score (PSI index): assessment of the severity of the condition of patients with community-

acquired pneumonia.

CURB score: assessment of the severity of the condition of patients with CAP.

CRB-65 score: assessment of the severity of the condition of patients with CAP.

SMART CO score: assessment of the severity of the condition of patients with CAP.

SMART-COP score: assessment of the severity of the condition of patients with CAP.

Methodology for assessing the risk of hazardous alcohol consumption based on the

Methodological recommendations "Organization and behavior of preventive medical examination and clinical examination of certain groups of the adult population in 2019".

Vascular age score

The score for assessing the risk of complications of delivery and routing of pregnant women according to the Order of the Ministry of Health of October 20, 2020 No. 1130n "On approval of the Procedure for the provision of medical care in the obstetrics and gynecology.

A score for assessing the risk of a potentially severe course of COVID-19 depending on comorbid conditions.

Risk Assessment score for Severe COVID-19 in Hospitalized Patients.

Adult Systemic Inflammatory Response Syndrome (SIRS) Risk Rating score.

Infectious-inflammatory syndrome risk assessment score based on a blood test

Risk of developing CVD within 10 years.

Risk of <u>death from coronary artery disease</u> and stroke within 10 years.

Risk of <u>hospitalization</u> in the next 12 months for patients with CVD

The risk of <u>atherosclerotic plaques of</u> <u>brachiocephalic arteries</u> in obesity

Risk of <u>developing atrial fibrillation</u> in one year

Risk of having <u>pulmonary embolism</u>

Risk of <u>death within a year</u> for patients with type 2 diabetes

Risk of <u>death within 5 years</u> for patients with type 2 diabetes

Risk of <u>hospitalization</u> over the next 12 months for patients with type 2 diabetes

Risk of <u>hospitalization</u> within the next 12 months for patients with respiratory diseases

Risk of <u>preeclampsia</u> during pregnancy Risk of <u>hospitalization</u> within the next 12 months for patients with gynecological

Risk of <u>hospitalization</u> in the next 12 months for patients with substance abuse

diseases

Suspected case of Anemia, Unspecified

Suspected case of Arterial hypertension

Suspected case of Vitamin B12-deficiency anemia

Suspected case of Secondary polycythemia

Suspected case of Hemolytic anemia

Suspected case of Iron-deficiency anemia

Suspected case of Infectious-inflammatory syndrome

Suspected case of Primary polycythemia

Suspected case of Latent iron deficiency

Suspected case of Primary immune thrombocytopenia

Suspected case of «Тромбоцитопения неуточненная».

Suspected case of Folate-deficiency anemia

Suspected case of Chronic lymphocytic leukemia

Suspected case of Chronic myeloid leukemia

Suspected case of Essential thrombocythemia

Risk of developing adult systemic inflammatory response syndrome (SIRS)

The risk of developing an infectious-inflammatory syndrome based on a blood test

Suspected case of Diabetes mellitus

Suspected case of COVID-19

Risk of severe COVID-19 in hospitalized patients





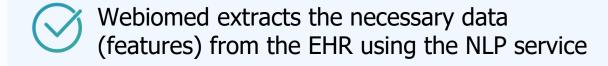
### Webiomed.NLP

Responsible for extracting features from unstructured EHR in machine-readable format



**Supported features** 





- Physicians do not need to fill out special forms or maintain separate registers.
- Webiomed takes over the entire burden of extracting information from the EHR.
- This saves physician's time at the appointment, giving the opportunity to focus on a patient

### Webiomed.DataSet

Services for collecting and extracting data from EHR

Responsible for the centralized storage of the extracted and cleaned data, suitable for the creation of datasets and the operation of machine learning models



13,9 mln





195 mln

Medical records



Treatment cases



655 mln

Features extracted

# Social data and medical history

- \* Date of birth, sex, region of residence, social group etc.
- Registered diagnoses, height, weight, waist circumference, smoking
- \* Genetic background, story of treatment

# Clinical and morphological data

- Clinical investigation and lab test records, etc
- Medical examination records, operative notes, etc.
- Prescriptions data
- \* Screening data, patient questionnaires, etc.





# Data processing scheme

### **INPUT DATA:**

electronic health record (EHR)



Health examinations



Lab tests



Clinical investigations



Medical history



Other patient data

### **METHODS OF ANALYSIS:**





Analysis based on published risk assessment techniques

Analysis based on legal and regulatory requirements

Analysis based on clinical guidelines

### **OUTPUT:**

Identified risk factors

Prediction of disease development

Hidden diseases

Clinical recommenations

Personal recommendations for patients

Warnings

Complex patient risk assessment





# Used technologies

The development of the Webiomed platform and machine learning uses the most modern technologies and software

| Server software           | Development and testing                                    | Al model development | Monitoring             |
|---------------------------|--|----------------------|------------------------|
| PostgreSQL                | GitLab # slack   | ;; jupyter           | Prometheus             |
| redis                     | HB Hub YT YouTrack TeamCity                                | Redash               | Alertmanager           |
| Zookeeper                 | UP Upsource PyCharm DG DataGrip  WS WebStorm IntelliJ IDEA |                      | Pushgateway            |
| & kafka                   |  | TensorFlow  dmlc     | Node-exporter  Grafana |
| NGINX                     | Python Django Swagger.                                     | XGBoost<br>learn     | Loki                   |
| <b>L</b> RabbitMQ.        | React React GraphQL  Webpack BABEL                         |                      | Promtail               |
| HAPROXY COMMUNITY EDITION | TESTIT SENTRY  |                      | cAdvisor               |
| Docker                    | Postman  |                      | Portainer              |



# Webiomed predictive analytics for healthcare executives

See the future morbidity and mortality of patients based on real clinical practice data. The ability to preselect the most problematic areas and work ahead of the curve

The value of Webiomed for healthcare

See the demand for medicines and **health products** and reduce inefficient spending on unnecessary purchases or supply disruptions if there is a lack of medicines/devices

### Webiomed predictive analytics for physician

- See an accurate forecast of possible deterioration in the patient's health in the near future and take targeted measures
- See the prognosis of a possible diagnostic finding and prescribe the one that is most likely to give a result
- Pay attention to the patient in need of additional examination and/or treatment to prevent the manifestation of the disease and consequent death

# Current operation scheme

### **USERS**



### **Physicians**

Clinical decision support (CDDS)

Digital patient profile, personal predictions of possible worsening of diseases, identification of diagnoses missed by physicians, tips based on digitized clinical recommendations



### **Managers**

Management decision support

Management analytics, including a population forecast for the development of morbidity, mortality and other data in any context for more efficient healthcare management



### **Patients**

Mobile application to access medical data and manage vour health

Personal EHR of a patient with access to data collected from healthcare organizations. Personalized recommendations based on clinical guidelines and science



Planned to be launched on the market in 2022.



### WEBIOMED PLATFORM



Webiomed generates a patient risk assessment record with a digital profile, characterizing the development of diseases. The profile is suitable for machine processing and creation of structured data sets



Webiomed turns to machine learning models to identify suspected missed diseases and assess the likelihood of various events/health deterioration/ death in the future



Webiomed extracts structured features from EHR, removes duplicates, cleans up erroneous values, calculates additional data (BMI, GFR, etc.) and distributes it by treatment episodes



The Webiomed API accepts depersonalized EHRs from the medical organization as input and combines these data into a single digital patient profile (integrated EMR: EHR)



### **HIS of outpatient clinics**

Results of clinical examination, etc



### **HIS of in-patient facilities**

Medical history, data of medical and surgical treatment



### **HIS of first-aid stations**

Карта вызова скорой медицинской помощи



### **HIS of other facilities**

Rehabilitation records, spa treatment, etc.

### **PAYERS**



### **Pharmaceutical organizations**

Get the opportunity to conduct real-world data research (RWD) as well as improve the effectiveness of drug therapy searching for patients by formalized criteria and creating anonymized datasets for obtaining real-world evidence (RWE)

### **Private clinics**

Get the opportunity to efficiently route patients in various clinical situations, automatically analyze the entire pool of EHRs, find high-risk patients and schedule additional examinations/studies to increase the flow of patients to the clinic; increase of an average bill.

### **Research organizations**

Get the opportunity to create anonymized datasets and conduct research and development in the field of artificial intelligence for healthcare, incl. custom machine learning and data analysis services



# Webiomed is hosted in a reliable data center



The product version of the system works in the **IBS DataFort** data center

- firewall (FortiGate)
- intrusion detection system (IDS \ IPS)
- vulnerability scanning (xSpider, ser. FSTEC)
- streaming antivirus
- means of protection against unauthorized access (Secret Net, FSTEC certificate)
- encryption of communication channels (GOST VPN ViPNet)
- virtualization protection system
- protection against distributed attacks (Anti-DDoS)
- logging system
- data backup system
- firewall for web applications (Web Application Firewall, FortiWeb)

- Presence of MMTS-9, MMTS-10 at the traffic exchange points
- Fully independent optical connections to each of the points of presence, 5 independent Internet operators, network bandwidth - 40 Gbit/s
- Tier III compliant, 45,000 vCPU, 150 TB RAM, 5 PB Storage
- 3 data centers, several independent power substations
- Best SLA in the market segment (not less than 99.95%)
- Certification to meet the regulation requirements (Federal Act on personal data FZ-152 (UZ1), Federal act on state information systems (GIS K1)
- Certificate of Compliance with Information Security Requirements for Personal Data Information Systems and State Information Systems No. 11 / 20-148ATT
- Certificate of conformity of the Quality Management System to the requirements of ISO/IEC 9001: 2008 and ISO/IEC 20000-1: 2011
- Certificate of compliance of the Information Security Management System with the requirements of ISO/IEC 27001: 2013.
- Federal Service for Supervision of Communications, Information Technology and Mass Media (Roskomnadzor) license for the provision of telematic services and services for the provision of communication channels.
- FSB license in terms of work with cryptographic means.
- FSTEC license for technical protection of confidential information
- More details about the data center: https://www.datafort.ru/

### 14





in the rating of AI startups
for healthcare
in the Russian Federation



revenue growth



integrated with Webiomed



connected to Unified State Healthcare Information System



Russia territory coverage



medical records processed by Webiomed



health data processed





the platform can analyze



evaluated by the system for possible deterioration



the platform can identify as a suspicion



registered



in Russian and foreign scientific journals



in Digital Health competitions

3
PATENTS

obtained

# Our research

# Scientific background

The project team consists of **6 experts** with Ph.D., ensuring proper adherence to the principles and methods of research



Total number of published research papers on the project

A complete list of our publications can be obtained on our website: https://webiomed.ai/publikacii/

# Some important publications of our team

|  | Νō | Статья   |
|--|----|--|
|  | 1  | Gusev A.V., Gavrilov D.V., Novitsky R.E., Kuznetsova T.Yu., Boytsov S.A. Improvement of cardiovascular risk assessment using machine learning methods. Russian Journal of Cardiology. 2021;26(12):4618. (In Russ.) <a href="https://doi.org/10.15829/1560-4071-2021-4618">https://doi.org/10.15829/1560-4071-2021-4618</a>     |
|  | 2  | Ivshin A.A., Bagaudin T.Z., Gusev A.V. Artificial intelligence on guard of reproductive health. Akusherstvo i Ginekologiya/Obstetrics and Gynecology. 2021; 5: 17-24 (in Russian), <a href="https://dx.doi.org/10.18565/aig.2021.5.17-24">https://dx.doi.org/10.18565/aig.2021.5.17-24</a>                                     |
|  | 3  | Gavrilov DV, Gusev AV, Nikulina AV, Kuznetsova TYu, Drapkina OM. Correctness of cardiovascular risk assessment in daily clinical practice. The Russian Journal of Preventive Medicine. 2021;24(4):69–75. (In Russ.), <a href="https://doi.org/10.17116/profmed20212404169">https://doi.org/10.17116/profmed20212404169</a>     |
|  | 4  | Gusev AV, Morozov SP, Kutichev VA, Novitsky RE. Legal regulation of artificial intelligence software in healthcare in the Russian Federation. Medical Technologies. Assessment and Choice. 2021;43(1):36–45. (In Russ.), <a href="https://doi.org/10.17116/medtech20214301136">https://doi.org/10.17116/medtech20214301136</a> |
|  | 5  | Gusev A. V., Novitsky R. E. Predictive analytics technologies in the management of the COVID-19 pandemicInformation technologies for the Physician. 2020 №4 P. 24-33 <a href="https://doi.org/10.37690/1811-0193-2020-4-24-33">https://doi.org/10.37690/1811-0193-2020-4-24-33</a>   |
|  | 6  | Gusev A.V., Novitskiy R.E., Ivshin A.A., Alekseev A.A. Machine learning based on laboratory data for disease prediction. FARMAKOEKONOMIKA. Modern Pharmacoeconomics and Pharmacoepidemiology. 2021;14(4):581-592. (In Russ.) https://doi.org/10.17749/2070-4909/farmakoekonomika.2021.115                                      |
|  | 7  | Ivshin A.A., Bagaudin T.Z., Gusev A.V. Artificial intelligence technologies in predicting preeclampsia. Obstetrics, Gynecology and Reproduction. 2021;15(5):576-585. (In Russ.) <a href="https://doi.org/10.17749/2313-7347/ob.gyn.rep.2021.229">https://doi.org/10.17749/2313-7347/ob.gyn.rep.2021.229</a>                    |





# All the leading media in Russia wrote about us



















































































# Efficiency Example

### Implementation of Webiomed in the Kirov region

- All state medical organizations are connected
- An automatic analysis of patients is carried out when they go to the clinic (new completed case)
   or are hospitalized (new case history)
- An automatic assessment of the risk group of patients is performed



### **RESULTS:**

In 52% of cases, the system gives a more accurate assessment of cardiovascular risk

**In 64%** of cases, the system determines the patient's risk group according to clinical guidelines more accurately

In 50% of cases, the system identifies dangerous and/or missed risk factors

**In 82%** of patients who underwent clinical examination, the system makes it possible to determine the absolute risk of death from CVD more correctly

**Up to 30%** more patients needing preventive treatment

**Up to 15%** of patients' health groups are determined incorrectly

The region received a full predictive characteristic of high-risk patients and the opportunity to organize the prevention of CVD morbidity and mortality more efficiently.



# Advantages of the Webiomed platform



### Automatic EHR analysis

### without additional burden on doctors.

Interaction with Webiomed is carried out through a web service.

Doctors immediately receive a ready-made assessment without the need to enter additional information, fill out special forms, etc.



# Registration certificate of Roszdravnadzor

The system has the right to interpret medical data and its conclusions can be used in the treatment and diagnostic process. Due to this, we enable medical information system to comply with legal requirements without the need to register it as a software medical device.



# Comprehensive analysis of patient data

We do not analyze just a single disease or event. We **are able to take into account comorbid conditions** and support a wide range of diagnoses.



# Predictive analytics for doctor and patient

We make it possible to understand what negative events will happen with the health of every inhabitant of the region in the near future using artificial intelligence. You can take the necessary preventive measures without waiting for acute problems.



# Ability to select narrow target patient cohorts

Having a pre-prepared digital passport of risk factors and patient's medical data, any necessary models can be built to identify narrow target groups of patients in order to **carry out precise preventive measures**.



# Integration with any medical information system

Can be used in any projects and developments, which significantly expands the audience of system users

# Webiomed today: main achievements

Registration certificate of 01 Roszdravnadzor for Al-based medical device / CDSS (clinical decision support system)

Registration as an "Other IS" by the 02 Government of the Russian Federation (connection to the state IS/MIS of the subjects of RF, EGISZ)

Place in the register of domestic 03 software of the Ministry of Digital Development of the RF

Attestation for compliance with 04 safety requirements for state IS of the 2nd risk class

**Certified** for compliance with the international quality management system 05 (QMS) standard according to **ISO** 13485:2016.

Implemented over 20 different projects 06

Integrated with ECP RT-MIS, Netrika, Renovatio and a number of other 07 information systems; Free integration for any MIS of the customer

31 RIAs have been registered, incl. 80 3 patents

TRL9 98% 92% **50** Accuracy of data **Forecast** ML models **Product** extraction from EHR readiness Accuracy

### Leader of the Russian market of Al systems for healthcare \*

Y

- **Data Awards 2022** winner in the in the nomination "Creation of a new data-driven business model"
- \* **First place** in the "incubation track" of the MedLAB Innovation Lab program
- \* The company is included in the "100 best enterprises in Russia" rating
- \* Winner of the **Data Fusion Awards 2022** in **the Data Fusion Rising Stars** nomination from the Skolkovo Foundation
- Future Healthcare accelerator winner
- Winner of the "Technological breakthrough 2021" award in the nomination: "Technological breakthrough in the field of personal medical assistants"
- \* Winner in the nomination "Best Innovative Project" of IP Russia Awards
- \* Winner National Prize "Priority-2021" in the nomination "Artificial Intelligence"
- \* Winner of Global Health & Pharma's Healthcare & **Pharmaceutical Award**
- \* Winner in the nomination "Digital solutions for healthcare" of the competition of the Analytical Center under the Government of the Russian Federation
- \* Digital solution recommended for implementation and replication in the constituent entities of the Russian Federation
- \* 2020 Digital Health Awards Breakthrough of the Year Winner
- \* Winner in the nomination "Digital Medicine" of the competition "Startup Rally 2020"
- Sanofi Digital Health Innovator Award Winner
- AstraZeneca Skolkovo StartUp Challenge 2020 **Commercial Track Winner**
- Roche **Personalized Medicine** Winner Startup Rally 2020
- \* Winner of the "Smart Clinic Technologies" contest, SBGMU

<sup>\*</sup>Rating of Start-ups of Artificial Intelligence: Prospects for Healthcare in Russia 2021, https://evercare.ru/news/reytingstartapov-iskusstvennogo-intellekta-perspektivy-dlya-zdravookhraneniya-rossii





# Project team

### **Project managers**



Roman Novitsky
CEO,
Project co-founder

- 20 years in leadership positions in the IT field
- \* From 2007 to 2020 the CEO of K-MIS, one of the leaders in the automation market for medical organizations
- \* In 2020 he was included in the 10 best CEOs of Karelia



Andrey Salikov
Chief Commercial Officer



Sergey Gilev Chief Marketing Officer



Anna Andreichenko
Head of the Artificial
Intelligence department

### **Project Experts**



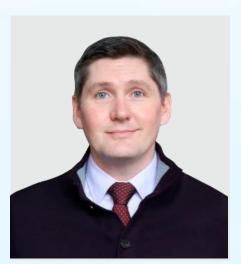
**Alexander Gusev** CBDO, Project co-founder

- \* Leading Russian expert on digital health
- Over 20 years of professional experience in the field of health IT
- Degree in Mathematical Modeling in Medical Information Systems
- \* Author of 100+ scientific publications



Tatyana Kuznetsova

PhD in Medicine, Head of the
Department of Faculty Therapy,
Phthisiology, Infectious Diseases and
Epidemiology
Research expert



Alexander Ivshin

PhD in Medicine, Head of the
Department of Obstetrics and
Gynecology, Dermatovenereology of
the Medical Institute of PetrSU

Of experts and research consultants of the project

**The overall Hirsch Index** 



Denis Gavrilov
Chief medical officer, cardiologist,
member of the Russian Society of
Cardiology and the European Society
of Cardiology



40+ people
Permanent staff

Project founders Roman Novitsky and Alexander Gusev: serial entrepreneurs, have over 20 years of experience in digital healthcare,.

Previous project: K-MIS, one of the leading health IT developers in Russia

### Achievements of Webiomed founders:

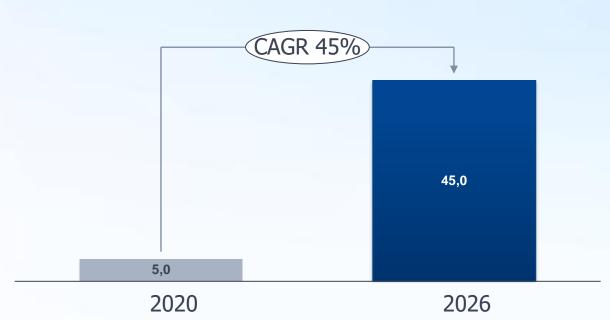
- 1. In 2011, they became the first Russian company to pass the Health Integration Framework certification in the USA
- 2. In 2012 they reached the final of the prestigious international IBM "Beacon Awards" competition for developments in the field of electronic health records. They were the only Russian company that made it to the final in this competition
- 3. In 2016, K-MIS ranked 2nd in terms of revenue and the size of the client base in Russia among developers in the field of healthcare informatization (CNews rating)

# Webiomed operates in promising markets

### **AI Market for Healthcare**

First place among all industry investments in terms of the number of transactions: in Q2 2021, 96 transactions were concluded here (16.8%). Second largest fund raised: \$2.766 billion (13.82%) of total AI investments

Global quarterly investments in artificial intelligence for healthcare, 3Q 2018 - 2Q 2021, billion USD.



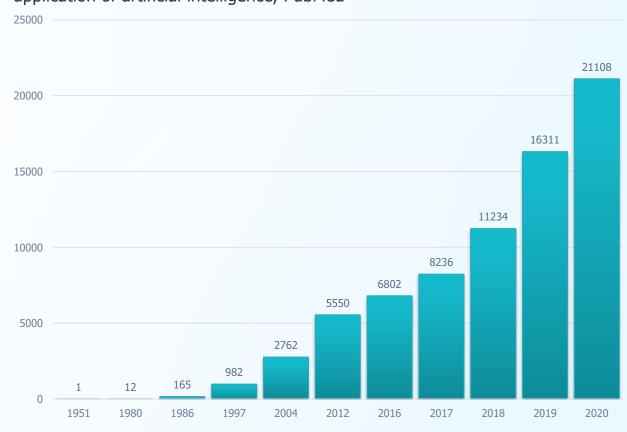
Source: Facts and Factors marketing agency

# 2,9 2,723 2,723 2,548 1,9 1,04 0,9 0,587 0,659 0,659 0,856 0,

Dynamics of publications in the peer-reviewed scientific medical literature on the application of artificial intelligence, PubMed

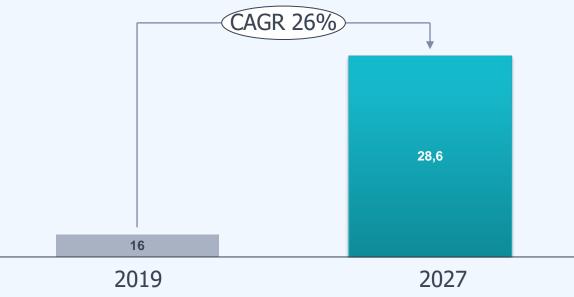
### **Market trends**

- \* Improving the accuracy of machine learning models
- \* Ensuring trust and transparency in the work of AI algorithms
- \* Registration of AI systems as software medical devices (SaMD)
- \* Integration into basic software products (EMC systems, PACS/LIS)
- Publication of research results and model development data in peer-reviewed scientific literature
- \* Key areas of application: support for managerial and clinical decision-making, replacement of routine and inefficient manual information processing



### **Predictive analytics market for healthcare**

is the most promising area of application of AI in medicine, according to Nvidia



Source: Meticulous Research marketing agency

### Market trends

- Prescriptive analytics (recommender systems)
- \* Cloud Services / SaaS
- ' Integration with EHR systems and automatic back-end analysis
- Clinical Decision Support Systems

### Main effects

- \* Reduce loss by predicting events such as empty beds, lost expired medicines, etc.
- \* Promptly redistribute resources when the load on the Ministry of Defense changes, for example, during epidemics
- \* Identify high-risk patients before the onset of chronic disease and thereby significantly increase the effectiveness of prevention
- \* Reduce manual processing and analysis of big data, give physicians and managers not only current indicators, but warnings about immediately dangerous situations



# **CONTACTS**



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YouTube
<a href="https://www.youtube.com/">https://www.youtube.com/</a>