CELSUS®

Artificial intelligence for radiology

Built by doctors for doctors

Mammography · Fluorography · Chest X-ray · Chest CT · Brain CT



Product presentation · November 2026

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WHY EARLY DIAGNOSIS MATTERS

You cannot cure what you have failed to recognize

Aulus Cornelius Celsus, author of the treatise De Medicina, 1st century AD

Early detection of malignant tumors is the key to saving patients' lives and health

Many times

higher chance of cure and five-year survival when the pathology is found at stage I–II



CELSUS®

THE PROBLEM

Radiology is working at its limit



Shortage of doctors

There are not enough radiologists to report all studies on time



Specialist overload

The workload of radiologists keeps growing



Human factor

Fatigue and monotonous work affect image interpretation



Late cancer diagnosis

Delayed reporting postpones the start of treatment



Costly diagnostics

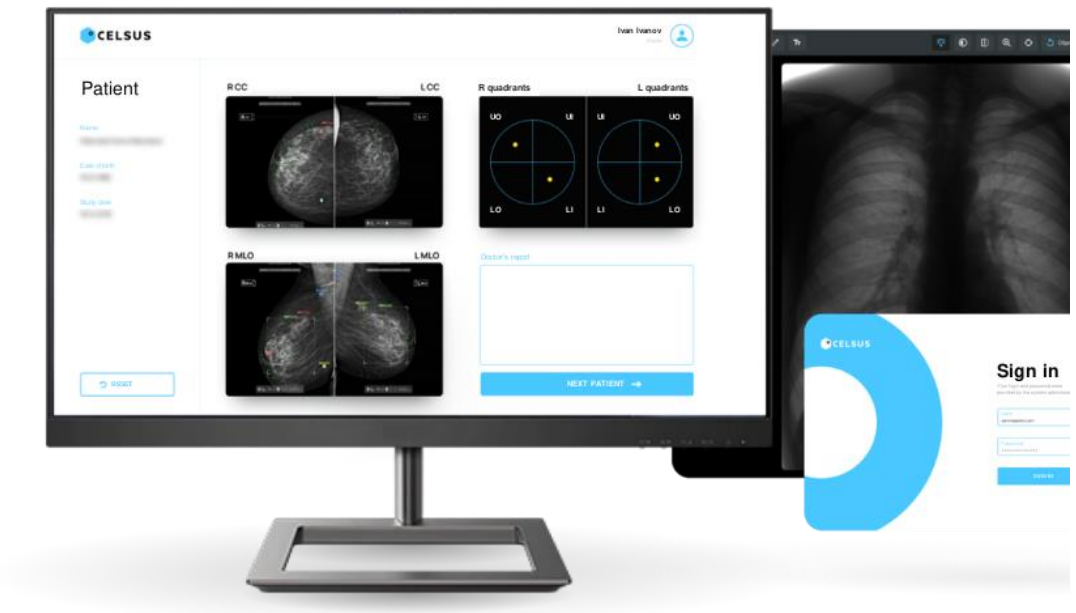
Repeat studies and delays drive up costs

Celsus takes on the primary image analysis: doctors spend less time on reporting and miss pathology less often

THE SOLUTION

AI finds the pathology — the doctor makes the decision

Celsus is an AI-based clinical decision support system (CDSS). It analyzes digital medical images, highlights findings and automatically interprets the results.



MODALITIES

- **Mammography**
- **Fluorography**
- **Chest X-ray**
- **Chest CT**
- **Brain CT**

CELSUS IN NUMBERS

Scale proven in practice

> 6M

studies processed
in January–October 2026

> 2,000

radiology departments connected

> 55

Russian regions — more than half of the country

4

Roszdravnadzor registration certificates

5

modalities, from mammography to brain CT

2018

the year we started developing AI for radiology

GEOGRAPHICAL PRESENCE

Celsus is used in hospitals across six countries

6 **countries**
plus a separate legal entity in Dubai (UAE)

> 6M
studies processed by Celsus in January–October 2026

> 2,000
radiology departments connected

RU Russia

BY Belarus

UZ Uzbekistan

SA Saudi Arabia

IN India

PK Pakistan

MEDICAL DEVICE

Russia’s first AI solution registered by Roszdravnadzor

Roszdravnadzor registration certificates for AI solutions — covering every modality

No. RZN 2021/14449
dated April 22, 2026

No. RZN 2022/18855
dated April 22, 2026

No. RZN 2024/21982
dated April 22, 2026

No. RZN 2020/12028
dated April 22, 2026



CONFIRMED AND CLINICALLY PROVEN

- ✓ **Efficiency**
- ✓ **Safety**
- ✓ **Quality**

Certified in the European Union: **CE Mark SK-CA-001/DVC-SK-21-06-000018**
Quality management system (QMS) certified to **ISO 13485**

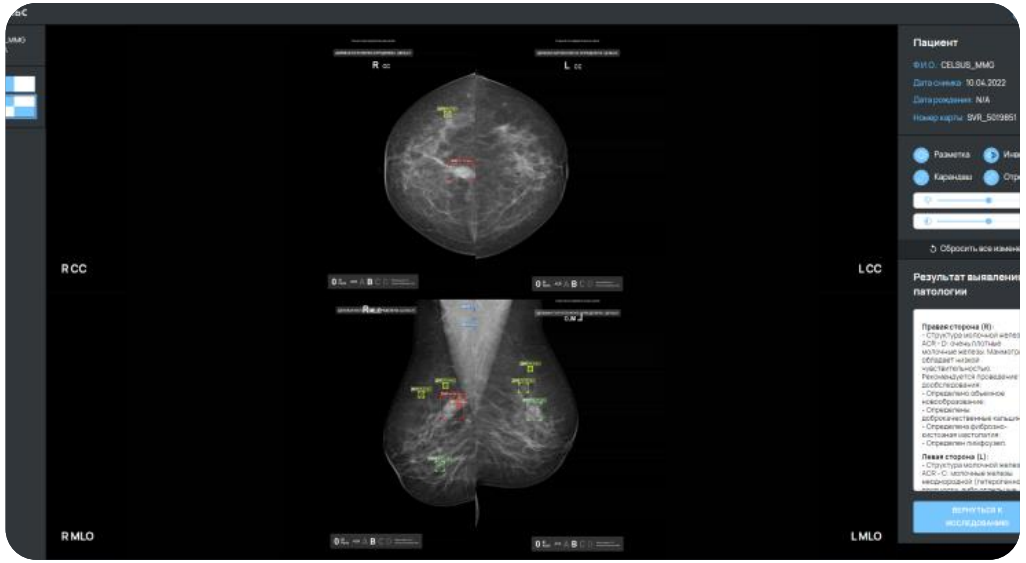
MAMMOGRAPHY

Marks findings on mammograms and assigns a BI-RADS category

Celsus analyzes mammograms, highlights findings on the image and automatically generates a preliminary report for the doctor

WHAT IT DETECTS

- Malignant masses
- Benign masses
- **Lymph nodes:** axillary, intramammary
- **Calcifications:** benign, malignant
- Skin thickening
- Nipple retraction
- Calcified vessels



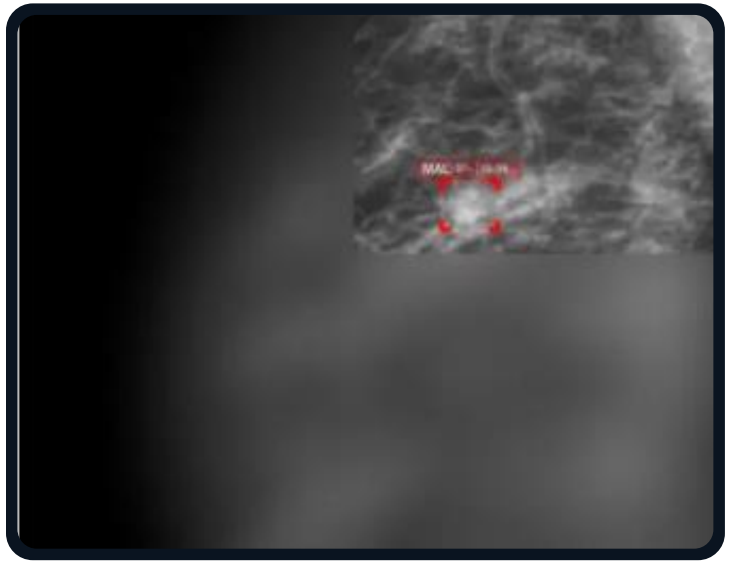
≤ 1 min
processing time

BI-RADS
category assigned

MODES
Triage
Screening

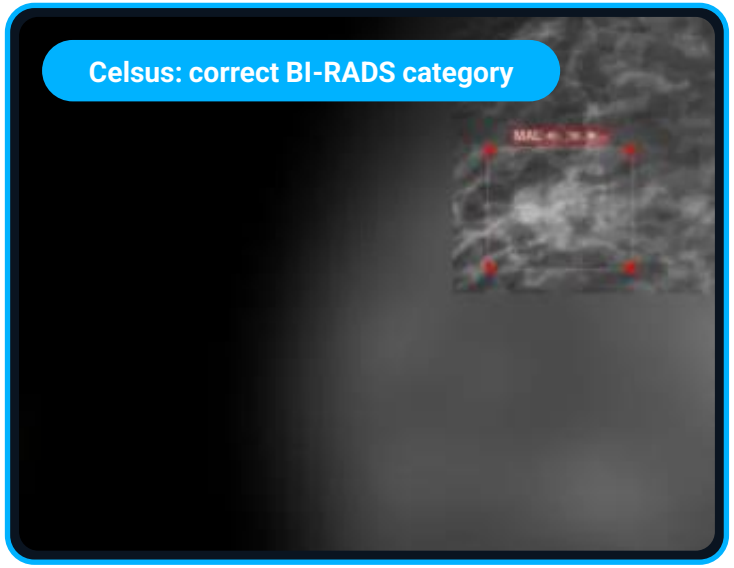
MAMMOGRAPHY · CLINICAL CASE

Celsus detected negative changes a year before the mass became obvious



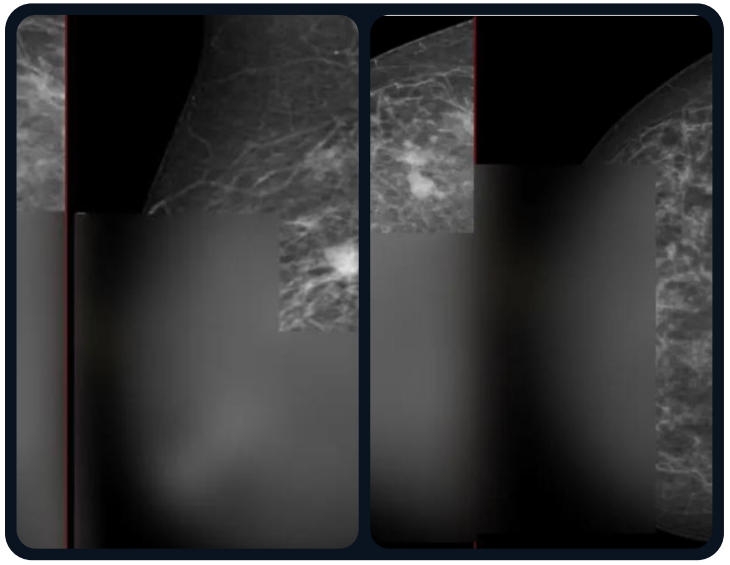
2022 Study No. 1

Focal asymmetry may be suspected, but there is no mass yet — it cannot be detected or described



2023 Study No. 2

Negative changes appeared. Celsus assigned the correct BI-RADS category



2024 Study No. 3

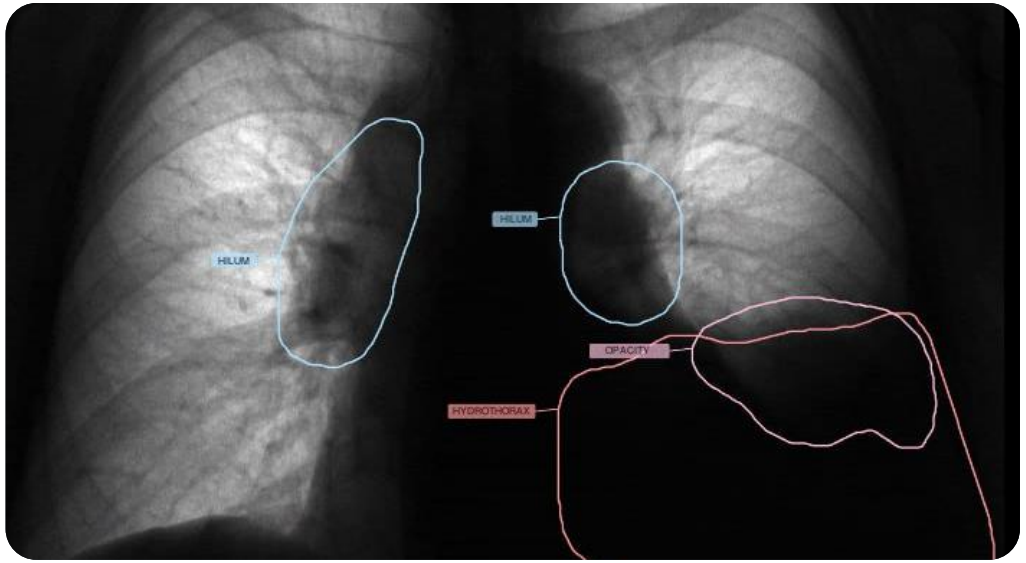
The mass and negative changes are clearly visible. The study was processed by another AI service

FLUOROGRAPHY AND CHEST X-RAY*

17 signs of pathology on a chest image — in 10 seconds

Celsus analyzes fluorograms and radiographs, highlights pathological changes and generates a preliminary text report for the doctor

- Pleural effusion
- Fibrosis
- Focal shadow (nodule/mass)
- Dissemination
- Calcified nodules
- Annular shadow (cavity)
- Infiltration / consolidation
- Consolidated fracture
- Healed rib fractures
- Mediastinal widening
- Pneumothorax
- Cardiomegaly
- Atelectasis
- Rib fracture(s)
- Cortical bone disruption
- Hilar enlargement / deformity
- Hilar lymph node enlargement



> 95%
pathology detection accuracy

≤ 10 s
processing time

MODES
Triage
Screening

* When connecting via MosMed.AI, chest X-ray and fluorography are listed in the application as separate modalities

CHEST CT

One CT scan — a comprehensive assessment of the lungs, heart, vessels and bones

Celsus analyzes chest CT scans, highlights pathological changes and generates a preliminary report for the doctor

Lungs and pleura

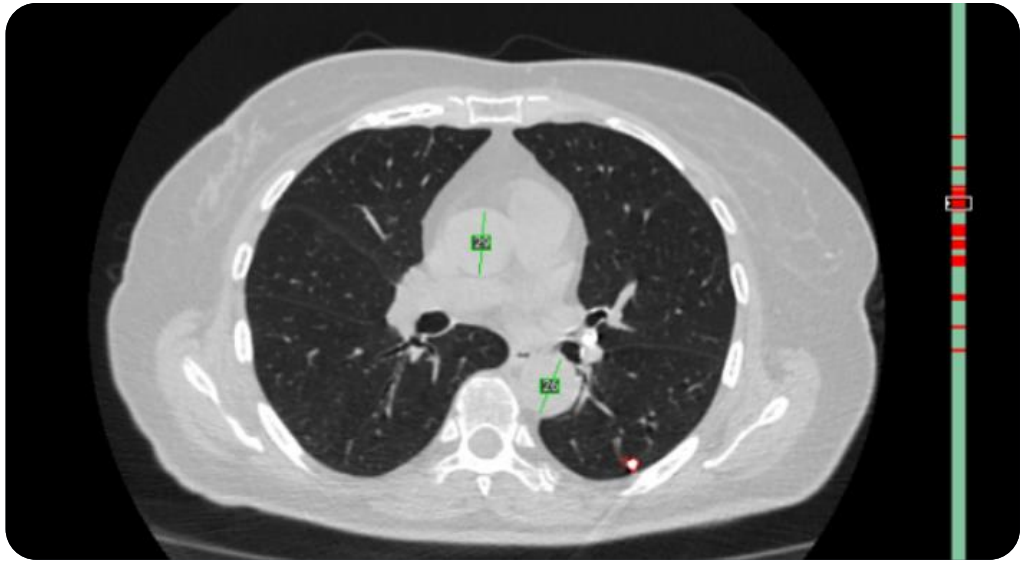
- Malignant neoplasms
- Pneumonia
- COVID-19: signs and % of involvement
- Emphysema
- Impaired lung aeration
- Pneumothorax
- Pleural effusion

Heart and vessels

- Coronary artery disease
- Coronary calcium
- Paracardial fat
- Thoracic aortic aneurysm
- Pulmonary trunk dilatation

Bones

- Rib fractures
- Vertebral compression deformity ≥ 25%



> 95%

pathology detection accuracy

≤ 3 min

processing time

MODES

Triage

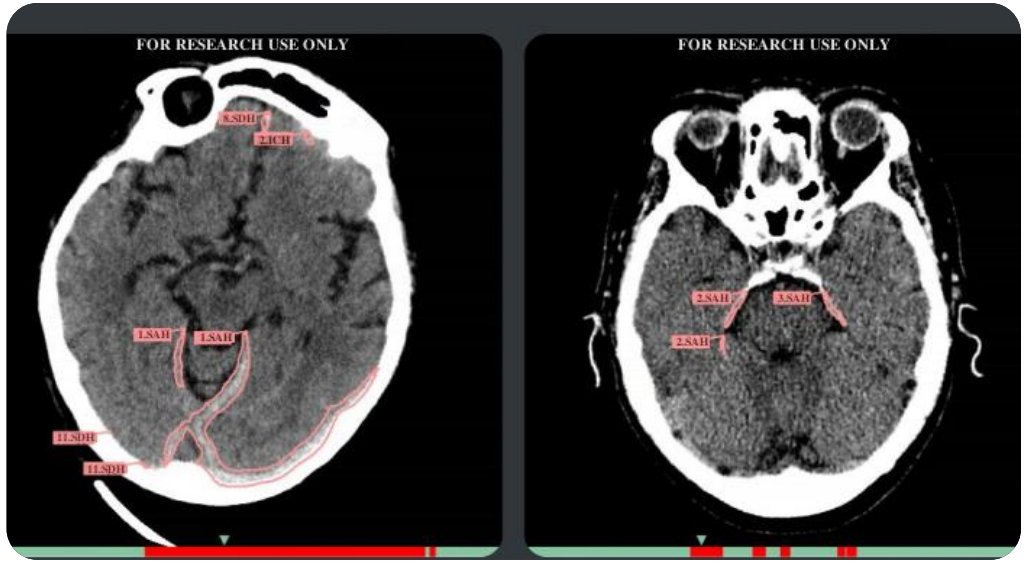
Screening

BRAIN CT

Detects hemorrhages and signs of stroke, calculates lesion volume

Celsus analyzes brain CT scans, outlines pathologies, provides the coordinates of findings, calculates lesion volumes and generates a preliminary report

1. **Intracranial hemorrhages**
   Epidural, subdural, subarachnoid, intracerebral
2. **Signs of ischemic stroke**
   Acute cerebrovascular accident
3. **Routine measurements**
   Automated routine brain measurements



> 95%
pathology detection accuracy

≤ 2 min
processing time

MODES
Triage
Diagnostics

HOW IT WORKS

Fits into the existing study workflow

01

Study

An image from a CT scanner, mammography or X-ray unit arrives in the hospital PACS

02

Secure transfer

PACS sends the study to Celsus over a secure channel, e.g. ViPNet

03

AI analysis

The engine with a trained neural network finds pathologies, marks them and drafts a report

04

Results returned

The AI report and annotated images are sent back to PACS

05

Doctor’s decision

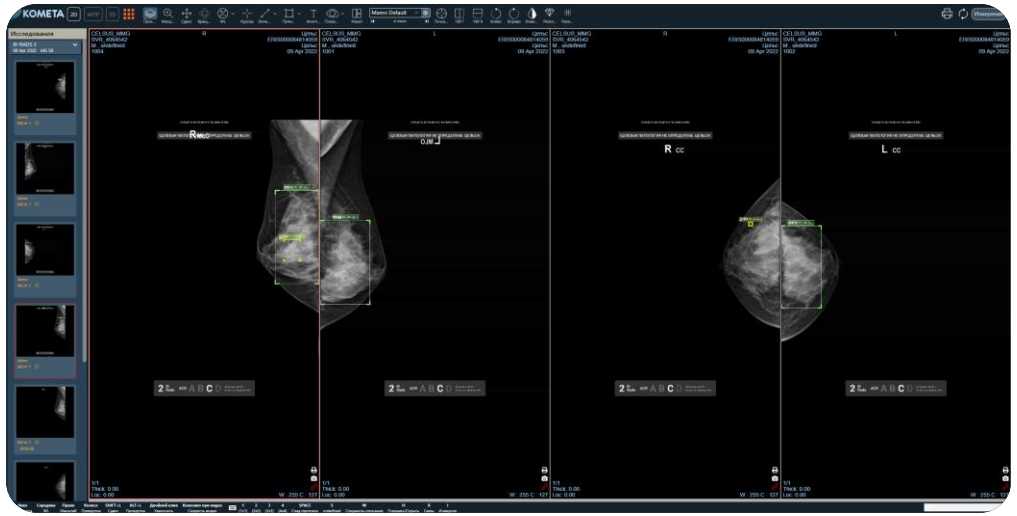
The doctor sees the findings at their workstation and makes the decision

Doctors don’t need to learn new software: AI results arrive where they already work

INTEGRATION

Easy integration with hospital IT systems

Celsus connects to the hospital's existing systems — staff keep working in a familiar interface



Convenience and flexibility

Maximum comfort for staff

Customizable scenarios

Workflows tailored to the department

No limitations

Any number of devices

Transparent pricing

Clear pricing model

> 70%

of regions on MosMed.AI choose Celsus

Integration guide

COMPATIBLE WITH

AGFA HealthCare · DIGI PAX · PHILIPS · SIEMENS

DEPLOYMENT AND SECURITY

Runs in the cloud or in the customer’s closed network

Celsus Cloud

Processing on Celsus infrastructure hosted in Russia

On-premise

AI engines are deployed in the regional or customer environment, including closed networks

Mobile units

Software for mobile mammography and fluorography units: autonomous, fully automatic operation

CONTROL OVER DATA AND PROCESSING

- Proprietary models on Celsus or customer infrastructure
- Secure DICOM exchange via ViPNet
- Automatic reporting to Roszdravnadzor
- Data can stay in Russia or within the customer environment
- Compatible with Red OS and Astra Linux
- Controlled delivery of code and model weights

RELIABILITY

Continuous monitoring of the study flow

The Celsus team sees the service status and responds to failures

Immediate response
when issues arise

Notifications
of any errors or suspected malfunctions

New version control
checking that they work correctly

Scaling
flexible options and quick configuration changes

Dashboards
with up-to-date system performance metrics



CELSUS IN MOBILE MEDICAL UNITS

Screening results while the patient is still on site

WITHOUT AI

up to 14 days

for reporting and interpretation

20–30%

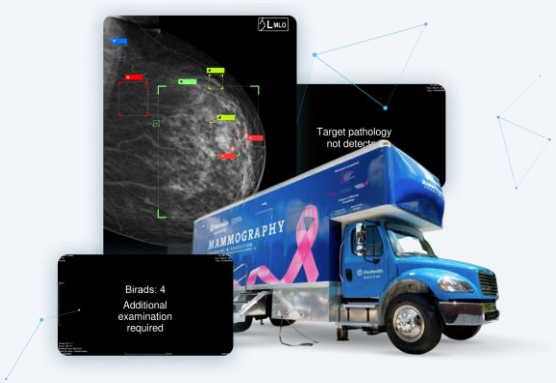
of patients are lost along the way

WITH CELSUS

- Autonomous, fully automatic operation
- A radiographer is enough
- Targeted patient follow-up

80%

fewer patients lost to follow-up



MAMMOGRAPHY

40 seconds

to a ready result



FLUOROGRAPHY

5 seconds

to a ready result

IMPACT

What a healthcare provider gets

up to 50%

less time spent on study analysis

> 20%

increase in early-stage disease detection



Lower cost of diagnostic procedures



Making up for the shortage of qualified staff



Standardized, higher-quality work of radiology departments



Retrospective analysis of radiology data

RECOGNITION

Awards and prizes

2026	**Winner of Data Award and CIPR Digital in the “Nation’s Health” category; winner of the ASI “Znay Nashikh” brand contest**
2025	AIM winner; BRICS Award winner in the “Artificial Intelligence” category; Moscow Mayor’s Award finalist; “Digital Peaks” laureate
2024	CNews Award winner in the “Trendsetter” category
2023	Winner of Prof-IT.Innovation in the “Artificial Intelligence” category and of Data Award; CIPR finalist (2021–2023) in the “Nation’s Health” category and AI Award finalist in the “Quality Improvement” category
2021	“Technological Breakthrough” Award: winner in the “Project with the Highest Application Potential (Including Export)” category
2020	“TOP-10 Innovative Healthcare Companies” — Roscongress, Business Priority
2019	Grand Prix of Russia’s first battle of AI services for radiology; “Digital Peaks” — best AI solution for efficiency; TOP-15 investment projects of “Winter Island”

IN THE MEDIA

ТАСС

РИА НОВОСТИ

РБК

Forbes

vc.ru

VADEMECUM

RUSBASE

EverCare

CELSUS®

Let’s discuss bringing Celsus to your hospital



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