VisionLabs
MACHINES CAN SEE

Major VisionLabs projects

About VisionLabs

VisionLabs
MACHINES CAN SEE

General information

VisionLabs is an international company and a recognized international leader in the field of computer vision.

Since 2012 the company specializes in creating software products for recognizing faces, bodies, vehicles, gestures, abnormal behavior and other objects.

Our Artificial Intelligence and Machine Learning technology, built on neural network-based algorithms makes the world safer, more secure and helps everyday citizens in more than 60 countries realize the ease and convenience of navigating a world that has permanently shifted to digital. Our mission is to use facial recognition to facilitate better, safer interactions for the modern world.

Team

- ✓ 250+ employees on staff, of which:
- ✓ more than 50%–developers and researchers
- ✓ more than 15%–implementation engineers and technical support staff who support pre-sales, post-sales and provide operational support for users

Certification and partners

ISO 9001 2015 CERTIFIED

fido

iBeta

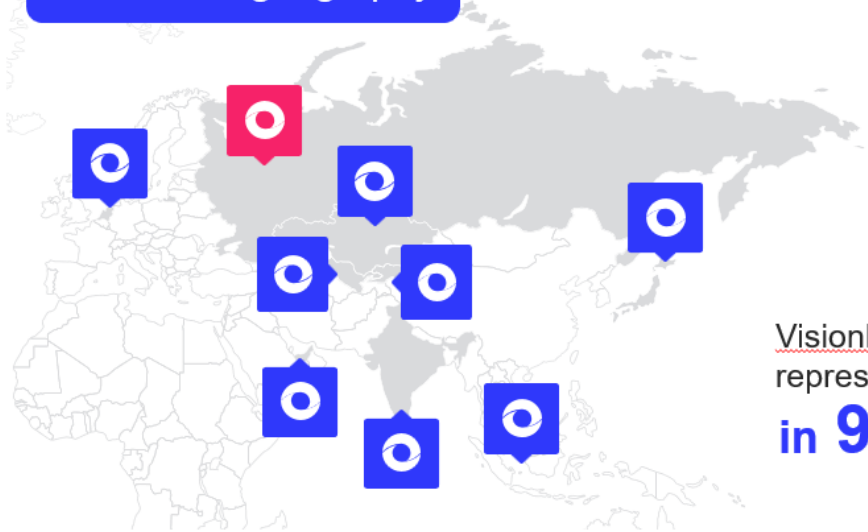
Nominations

2021 ICCV CVPR NIST

VisionLabs in 2026

№ 1	in international rankings in the field of computer vision and object recognition – NIST, CVPR and ICCV
500+	clients from various sectors: government, transport, finance, telecommunications, retail, healthcare
⇧1,7 mln	cameras worldwide connected to VisionLabs software
⇧1,5 bln	events are processed in real time by VisionLabs software every month

VisionLabs geography

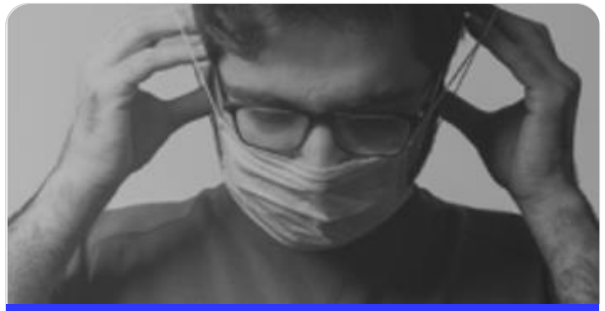


VisionLabs has representative offices **in 9 countries**

VisionLabs technologies for facial recognition

Face recognition

Face detection and authentication



Attribute recognition

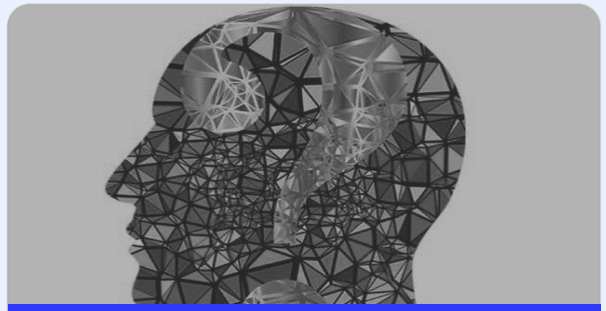
Recognition of gender, age, emotions, masks

Liveness check

Detection of attacks on biometric presentation

Photo quality check

Verification of compliance with ISO/IEC 19794-5 standard



Definition of psychotype

Drawing up a psychological portrait based on emotions, gestures, etc.

DeepFake check

Detection of identity substitution implemented by DeepFake technology

VisionLabs technologies for object and event recognition

Identifying dangerous situations by posture

Identification of dangerous situations by posture (fall, shooting position, raised arms, etc.)

Intelligent search

Tracking objects across a network of cameras and searching through event archives

Recognition silhouettes

Body position recognition, movement tracking

PPE recognition

Personal Protective Equipment Recognition

Fire recognition

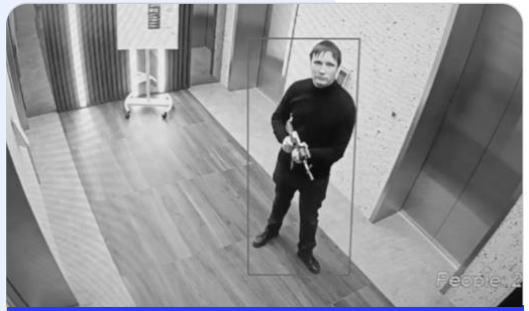
Detection of fires in the early stages

Vehicle recognition

Recognition of makes, models, license plates and other attributes of vehicles

Fight recognition

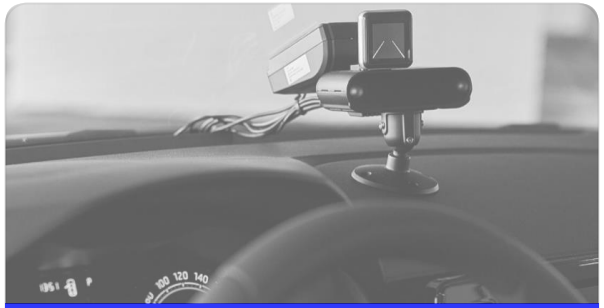
Detection of fighting postures: raised arms and legs, supine body position



Recognition of weapons and abandoned objects

Weapon detection and detection of unattended objects

Technologies for solving various problems using CV



Monitoring of the driver's condition

Monitoring driver condition to prevent accidents

Product quality control

Detection of rejects and defects in production

Medical scans analysing

Detection of organ abnormalities on medical images (CT, MRI, ultrasound, etc.)

Gestures recognition

Recognizing static and dynamic gestures

Road events recognition

Recognizing vehicles, people, animals, birds, smoke, fire, etc. on the road surface

Sporting events recognition

Detecting and recognizing sporting events in football and hockey

VisionLabs in international rankings: verification

2025-07-18

all 3 prizes

in 4/6 categories

algorithms (including previous versions) are taking over, surpassing the latest technologies from vendors around the world for the first time in NIST's history

TOP-1

based on NIST testing results

in the verification track - comparing two samples to determine whether they belong to the same person (FRTE 1:1 Verification)

0,001%

type II errors

with 0.2% type I errors in the MUGSHOT – MUGSHOT category

NIST FRTE 1:1 Verification Leaderboard results by category

	MUGSHOT – MUGSHOT	VISA – BORDER	BORDER – BORDER	BORDER – KIOSK	VISA – BORDER Yaw≥45°	MUGSHOT – MUGSHOT ΔT≥12 YRS
1 place	VisionLabs[1]	VisionLabs[2]	VisionLabs[2]	VisionLabs[2]	Paravision	Cloudwalk-mt
2 place	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	Viante	Cloudwalk-mt
3 place	VisionLabs[2]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[2]	Paravision
4 place	Paravision	Viante	Viante	Viante	Cloudwalk-mt	Innovatrics
5 place	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	Cloudwalk-mt	Sensetime
6 place	Psi	Recognito	Viante	Innovatrics	Paravision	Idemia
7 place	VisionLabs[1]	Viante	Roc	Viante	Toshiba	VisionLabs[1]
8 place	Innovatrics	Cloudwalk-mt	Cloudwalk-mt	Stcon	Paravision	VisionLabs[1]
9 place	Incode	Paravision	Cloudwalk-mt	Stcon	VisionLabs[1]	VisionLabs[2]
10 place	Sensetime	Cloudwalk-mt	Viante	Paravision	Paravision	Paravision

Examples of images

Background information

KIOSK

VISA

MUGSHOT

BORDER

[1]One of the previous versions of the neural network for recognition, designated in the report qazsmartvisionai-000 / qazsmartvisionai-001 / qazsmartvisionai-002 / qazsmartvisionai-003.

[2] The current version of the neural network for recognition, designated in the report as qazsmartvisionai-004.

VisionLabs in international rankings: identification

2024-12-18

leadership

in 6 /8 categories

among more than 500 submitted algorithms from vendors around the world

TOP-1

based on NIST testing results

in the identification track - searching for a specific person from a multiple sample database (FRTE 1:N Identification)

in 2 tracks

of identification testing VisionLabs is the leader

NIST FRTE 1:N Identification Leaderboard results by category

		MUGSHOT – MUGSHOT N=12000000	MUGSHOT – MUGSHOT N=16000000	MUGSHOT – WEBCAM	MUGSHOT – PROFILE 90°	VISA – BORDER	VISA – KIOSK	BORDER – BORDER ΔT≥10 YRS	MUGSHOT – MUGSHOT ΔT≥12 YRS
Identification[2] by developer	1 place	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	NEC	NEC
	2 place	NEC	Sensetime	NEC	Cloudwalk-mt	Cloudwalk-mt	NEC	Cloudwalk-mt	Cloudwalk-mt
	3 place	Idemia	Idemia	Sensetime	NEC	NEC	Cloudwalk-mt	Megvii	VisionLabs[1]
Investigation[3] by developer	1 place	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	VisionLabs[1]	NEC	NEC
	2 place	Sensetime	Psl	Psl	Sensetime	Cloudwalk-mt	Cloudwalk-mt	VisionLabs[1]	VisionLabs[1]
	3 place	Idemia	Sensetime	Sensetime	NEC	Stcon	Stcon	Cloudwalk-mt	Idemia

Examples of images

Background information

WEBCAM

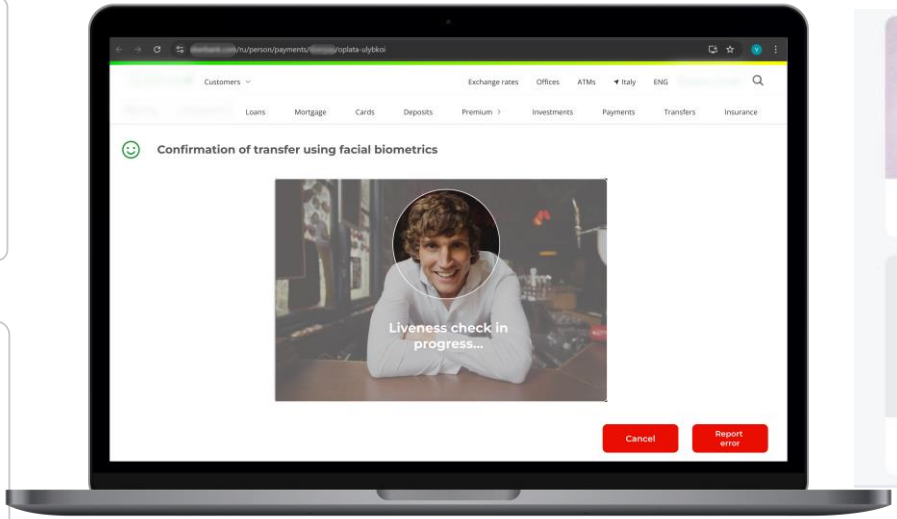
PROFILE 90°

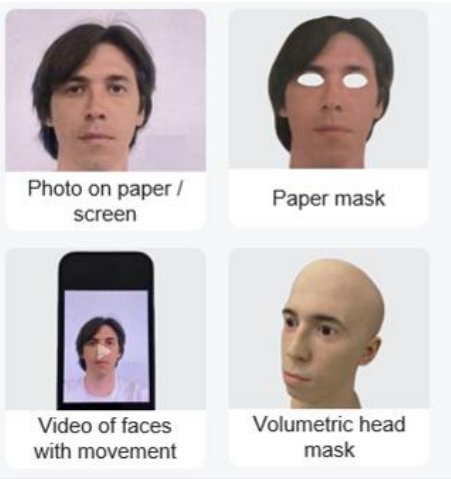
[1] The current version of the neural network for recognition, designated in the report as qazsmartvisionai-002 [2] One-to-many comparison (e.g., checking if this person is present in the security database) [3] Search for a specific person in the database (e.g., identification of a suspect from a crime scene photo).

Module for checking videos from web cameras for Liveness & Deepfake

LUNA PASS

The service is designed to check the probability of an attack on a biometric system using a web browser based on video stream frames, mainly from the device's webcam. Selecting the best frame and sending the image to external services..





Key features

- Face detection with an accuracy of 99% or more[1]
- Detection of an attack on a biometric system. Allows to detect and distinguish a live person from a mask or video stream spoofing (Liveness, DeepFake)
- Extraction and verification of facial attributes (presence of glasses, eye/mouth condition, head tilt and rotation angles)
- Evaluating the quality of the incoming image and selecting the best frame
- Capture video stream from a webcam or mobile device camera
- Viewing processing results via the web interface
- Possibility of logging the checks performed

Supported platforms

ubuntu · CentOS · macOS®

Supported browsers

Main project experience

KICB KYRGYZ INVESTMENT AND CREDIT BANK · Bereke Bank · maib · BANK RBK · O'ZBEKINVEST MILLIY SUGURTA KOMPANIYASI

[1] Based on testing results from the international laboratory NIST [link]

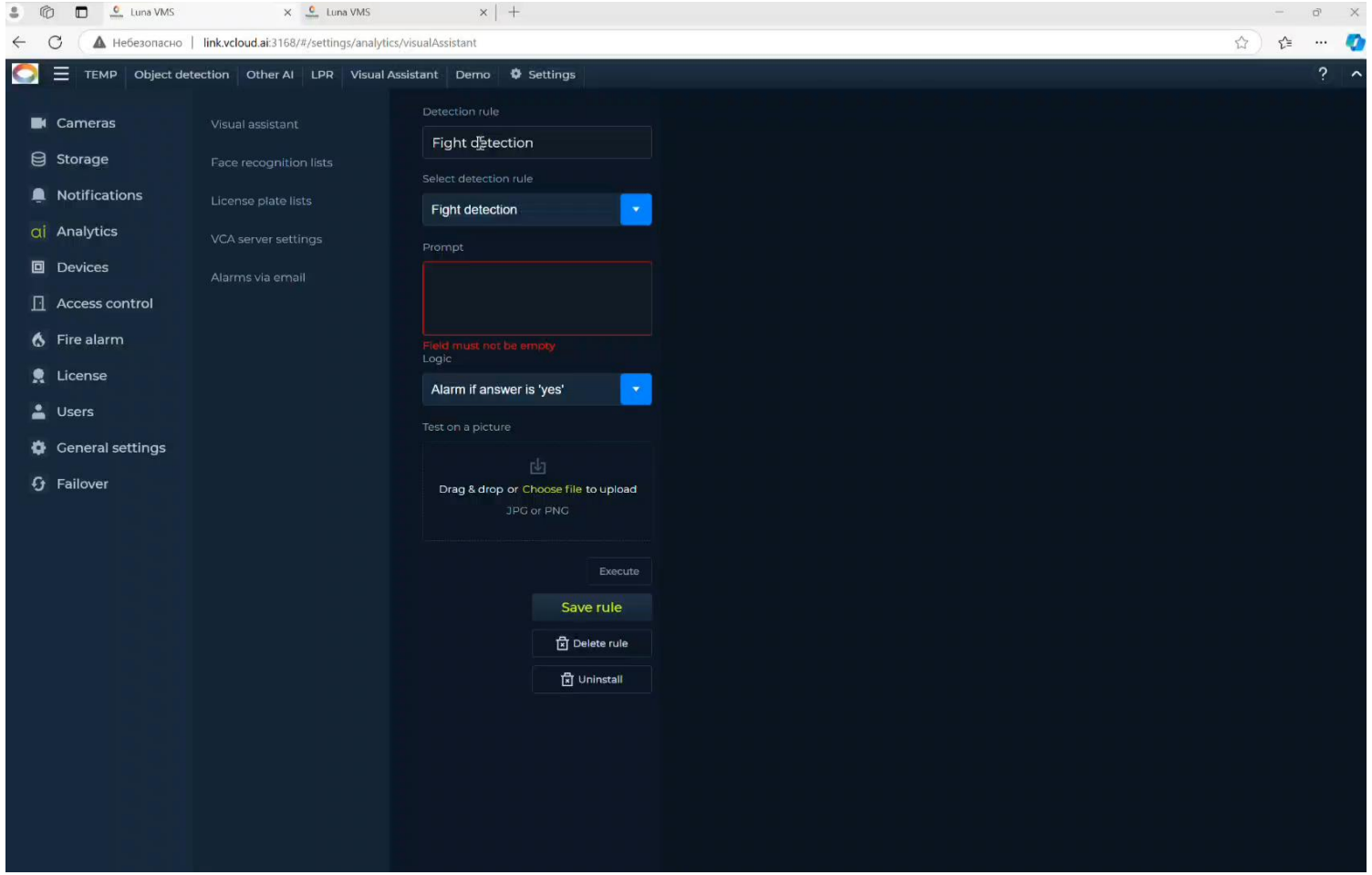
GUESS WHICH ONE IS A DEEPFAKE?

Видео из датасета DFDC

Видео из датасета DFDC

CREATE YOUR OWN VIDEO ANALYTICS IN 20 SECONDS

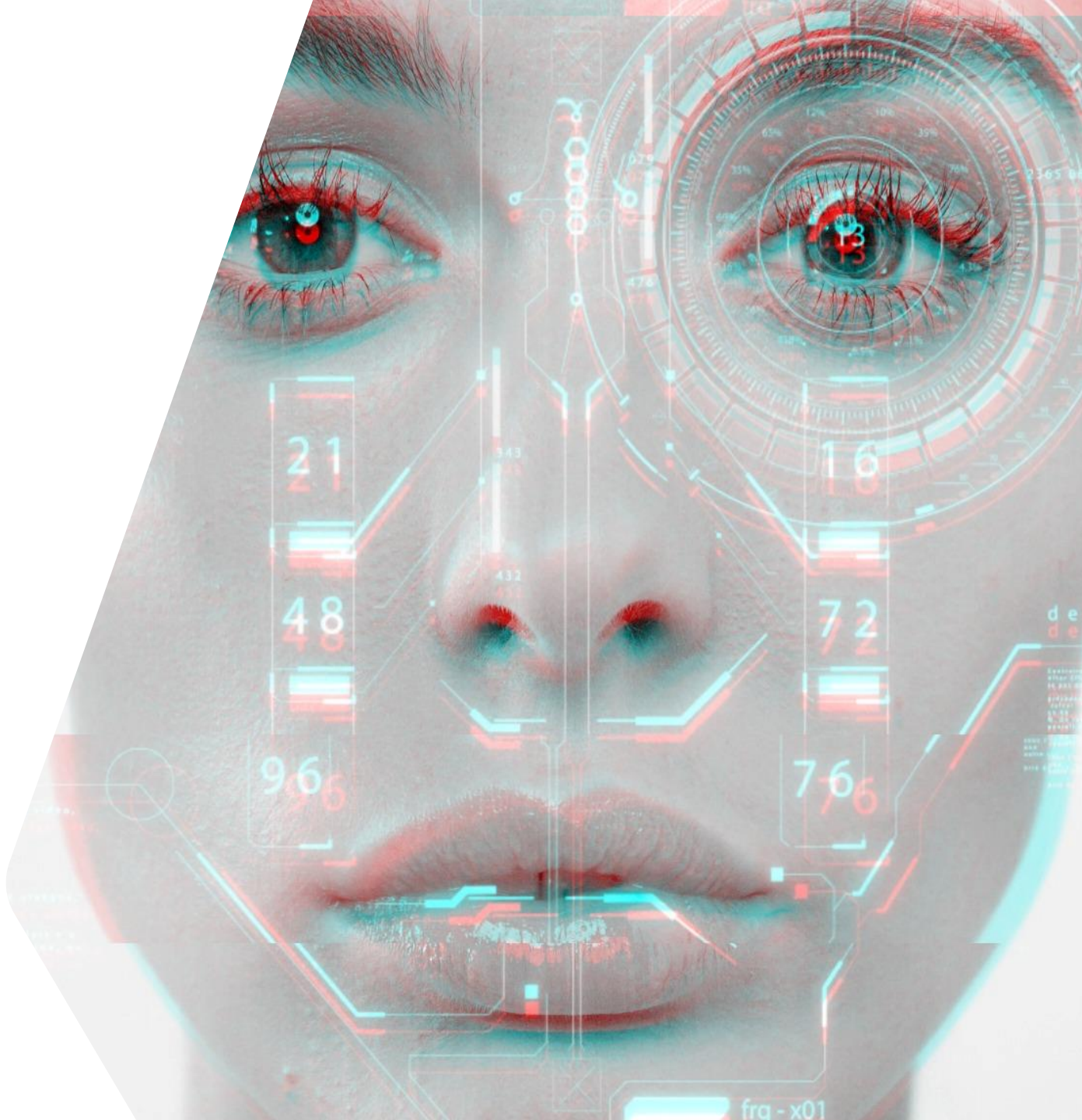
VisionLabs
MACHINES CAN SEE



- Create custom video analytics detectors in 20 seconds with Visual Assistant technology.
- Simply provide instructions in natural language.
- Receive alerts or enable the system to count objects specific to your needs.
- Test your detector in the integrated editor. Use your custom detector with any camera.

VisionLabs
MACHINES CAN SEE

VisionLabs projects



Biometric access control

General Description

Implementation of a fast and contactless method of authentication of employees, visitors and other categories of people "by face“, access to a safe deposit box, value vaults, cash desk and opening turnstiles based on the results of facial recognition when entering the financial building.

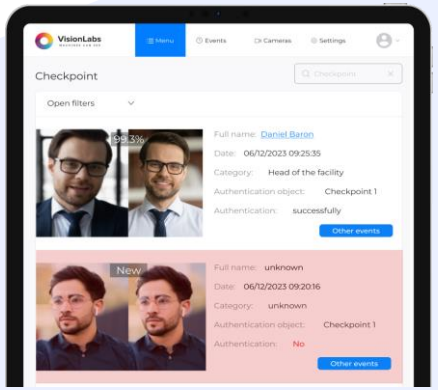
Tasks to be solved

- Realisation of "barrier-free environment" by means of contactless authentication of persons when passing through the turnstile
- Protection against unauthorised access attempts with Liveness technology
- Search of persons by checklists, generation and sending of notifications about attempts of unauthorised persons' passage
- Fixing and recording the time of arrival and departure of employees, generation of reports
- Integration of facility ACS into a single complex with biometric badging

FIFA WORLD CUP Qatar2022

- Using VisionLabs engine in Qatar stadiums for access to VIP zone by biometrics

- Using VisionLabs technologies, employee access control has been implemented at the Dubai Ministry of Interior
- 400 biometric access terminals installed



Biometric access control

Royal Caribbean Cruises Ltd.

Implementation of an access control system at self-check-in kiosks when boarding Royal Caribbean ships. In commercial operation since 2019.
To take advantage of Royal Caribbean's new face recognition-enabled expedited check-in process, passengers can check in at home and then quickly check-in and board when they arrive at the terminal.

2 times ACS capacity increased

by 15% the number of late arrivals and early departures from the workplace has been reduced

> 20% reducing the cost of maintaining security staff

by 15% the number of queues has been reduced due to self-registration

KAJIMA CORPORATION

- More than 3,000 points are equipped with VisionLabs technologies in Japan
- More than 500 thousand persons in the database
- Access control, time and attendance tracking

NVIDIA

- Over 40 entry/exit groups at Endeavor HQ
- More than 20 thousand faces in the Nvidia database

suprema

- Implementation of face recognition technologies to implement the Biometric ACS scenario

MANTRA
Innovation that counts

- Implementation of VL face recognition technologies in the Mantra terminal to implement the ACS scenario
- The terminal is equipped with an 8-inch display, a dual-lens camera and an infrared camera

Biometric access control

Biometric access control has been implemented at the headquarters of the VK company in Moscow. The solution provides a contactless way to pass through the turnstile “by face”. Employees just need to look into the camera – the recognition process takes a split second.
The access control system implemented by Visionlabs is more user-friendly - employees no longer need to carry a physical pass with them at all times.

>30 biometric terminals installed at headquarters

up to 180 biometric terminals, the access control system will be expanded

< 1 sec is required for an employee to pass through the turnstile “by face”

> 8 thousand company employees use a face recognition system

- More than 100 thousand employees use access control systems in the companies of the Sistema Group
- Less than 1 second turnstile response time to allow an employee to pass through the checkpoint

- At the Syzran Refinery, 16 checkpoints are equipped with biometric access control systems
- More than 15 biometric face recognition terminals are installed at checkpoints
- About 2,000 passes are issued daily on site

- In order to improve security, MMK implemented a project to introduce biometric access control
- More than 18 thousand employees work at the facilities of MMK and use the access control system

- Biometric access control has been implemented at 3 hospital entrances
- More than 3,000 employees perform facial passes
- 4 turnstiles are equipped with biometric access equipment

Biometric access control in banking

MTS BANK

Visionlabs, together with partner Sitronics Group, implemented biometric access control at the head office of MTS Bank in Moscow. The solution provides a contactless way to pass through the turnstile “by face”. Employees just need to look into the camera – the recognition process takes a split second.
The access control system implemented by Visionlabs is more user-friendly - employees no longer need to carry a physical pass with them at all times.

52 terminal was installed for access control in the office

9 floors in the building, each of which has up to 4 turnstiles with an access control system

< 1 sec required for an employee to pass through the turnstile “by face”

> 4 thousand employees visit the office daily

SBER

- More than 200 cameras have been launched in Sber branches for operation
- 3 thousand biometric access terminals are used for access control

VTB

- 26 access points installed at the head office of the VTB office
- 13 turnstiles are equipped with face terminals
- Less than 1 second is required for the turnstile to operate “by face”

Bank of Russia

- 2 terminals installed in the Central Bank building
- More than 10 thousand faces in the object's database
- The project was implemented in cooperation with PJSC Rostelecom

ДОМ.РФ БАНК

- 12 cameras are used at one site to authenticate visitors
- 6 turnstile groups are equipped with biometric identification
- More than 7 thousand people work in the DOM.RF group of companies

Biometric access control in educational institutions

With the development of technology, the task is to strengthen the access control and monitoring system of educational institutions. Visionlabs technologies allow to solve several problems at once:

- biometric access control system for controlling access to the territory using a person's biometric data;
- non-contact thermometry for automatic identification of persons with elevated temperature;
- intelligent video analytics to identify suspicious behavior and dangerous situations;
- payment by face in canteens, buffets and vending machines to prevent theft of funds.

> 50 buildings are equipped with biometric systems

2 months on average required to implement the system at one facility

> 100 turnstiles equipped with biometric access control system over the last year

with > 4 ACS integration completed: PERCO-WEB, Sigur, Bolid, Parsec

- 2 smart turnstiles installed in the new school building
- 63 cameras installed inside the new housing
- More than 600 passes are carried out daily through biometric access control system

- 26 schools are equipped with a biometric authentication system
- It took 3 months to implement the biometric access control system
- More than 500 students and employees use biometric access control on a daily basis

- 6 dormitory buildings are equipped with a biometric identification system
- It took 1 month to implement biometric access control system
- More than 5 thousand students study at the University

- 129 cameras connected to biometric access control system
- A new access system is being implemented at 50 sites
- 100 thousand persons in the Customer database
- More than 36 thousand students study at Kazan University

Safe City

Singapore

The face recognition system is part of a development program called “Smart Nation”, the development of which began in 2014. The system works in conjunction with the SingPass Mobile app, which allows people to register their own fingerprints and faces in the government's biometric database.
SingPass brings together more than 500 digital services from 180 government agencies and businesses. The application is used by 3.5 million people, of which 85% use it regularly.

> 87 thousand transactions carried out on the SingPass app in the last year

> 90 thousand cameras are used in Singapore for face recognition

Argentina

In Argentina, the implementation of a unified biometric system has begun for use in the public and private sectors - gaining access to city services, interaction with financial service providers.

- 20 million individuals - base limit in accordance with the annual license issued by VisionLabs to use the company's technology in Argentina
- Buenos Aires is among the top 35 safest cities in the world, including the capital of Argentina

South Korea

- 3 million persons is the volume of the database for which the VisionLabs license is issued
- 220 thousand street video surveillance cameras will be connected in the next 3 years as part of the project

Brazil

- A pilot test of the “Safe City” hardware and software complex was conducted in the administrative center of the state of Santa Catarina, the city of Florianópolis.
- 100 street surveillance cameras with 4K resolution were connected at the first stage of the project

Border control

General description

VisionLabs, a global leader in facial recognition and computer vision technologies, has deployed its biometric solution at the border control inside a major Saudi airport. The overall project is supervised and coordinated by the National Information Center (NIC).
VisionLabs provides the facial recognition engine used to automate identity verification at the border control within the airport. The system enhances security screening, accelerates passenger processing, and improves operational efficiency for airport border-control staff. The deployment is fully compliant with Saudi security requirements and integrates seamlessly with airport infrastructure and government systems under the oversight of NIC.

Saudi Arabia

Key Capabilities

- Fast and precise identity confirmation during passenger entry or exit
- Immediate checks against watchlists to support airport security procedures
- High-speed passenger flow handling designed for continuous operation even during peak hours
- Stable performance with controlled lighting and fixed camera positions

100 million persons - base restriction in Saudi Arabia under the annual licence

Safe City

VL & In Meeting partner Project

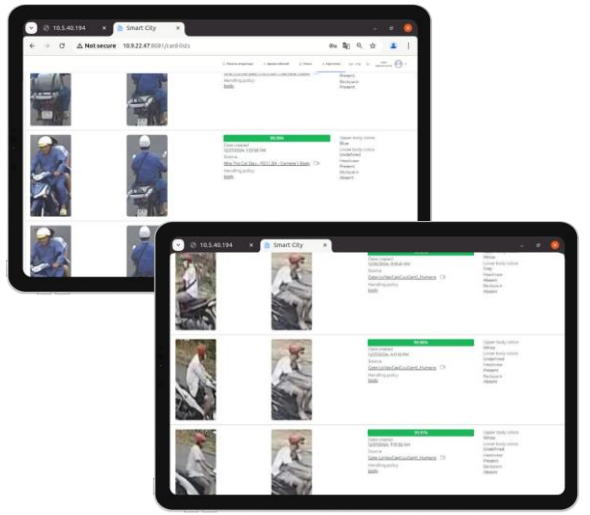
The first stage of the Safe City project with VisionLabs for face recognition and tracking of violators has been implemented in Hanoi.

6 months it took a while to implement the system and test the algorithm.

>250 cameras are already connected to the system

up to 4 thousand cameras will be expanded to fully cover Hanoi

up to 20 thousand the project will be scaled in 5 cities of Vietnam



Africa

Together with Travizory, smart arches with facial recognition are being implemented in Kenya and the Seychelles for automated customs clearance. It is planned to equip 5 airports.

- It took 5 months to implement the system
- 2 airports in Africa are equipped with smart arches for customs clearance
- More than 30 smart arches have been installed at airports as part of Project
- 5 airports in Africa plan to implement automated customs clearance in 2025

In Thailand, VisionLabs face recognition system for law enforcement agencies is being implemented jointly with Sanden Corporation. Integration with databases to search for criminals is planned.

- More than 30 million persons in the database of the Investigative Committee of Thailand

Safe City

Baku

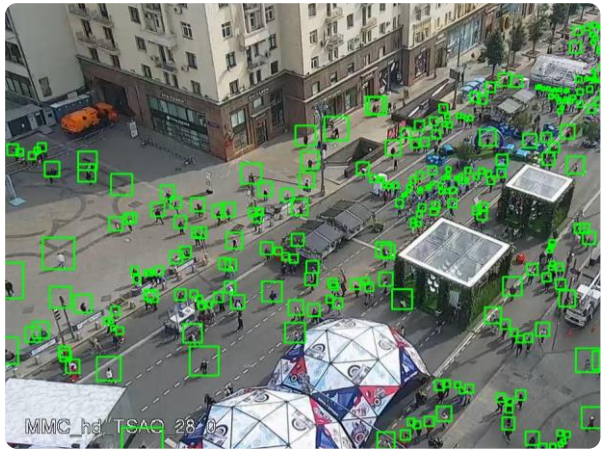
The Unified Information System for Monitoring People and Vehicles using VisionLabs technologies was implemented in the territory of Baku city in the Republic of Azerbaijan. The system provides the functions of recognising faces and silhouettes of people detected on the city surveillance cameras. The project on modernisation of the facial recognition system for the Ministry of Internal Affairs of Azerbaijan envisages an increase in the speed of searching for suspicious persons using video surveillance cameras.

> 950 cameras are connected to the Safe City system

10 blacklists are searched to identify a suspicious person.

> 7 mln of individuals included in the search database

3 mths it took to implement the facial recognition system



Serbia

A project to create a Safe City system for recognising and searching for faces on city segment cameras in cooperation with the Serbian Ministry of Internal Affairs. The project implemented an intelligent video analytics system based on data from street surveillance cameras.

- More than 200 cameras are connected to the system
- Up to 1 million individuals are contained in search databases
- It took 3 months to implement the recognition system

Argentina

In Argentina, the implementation of the EBS has been initiated for use in the public and private sectors - access to urban services, interaction with financial service providers.

- 20 million individuals is the base limit under the annual licence granted to VisionLabs to use the company's technology in Argentina
- Buenos Aires is among the top 35 safe cities in the world is Argentina's capital city

Remote processing of services

Description

Remote biometric verification and identification of customers in a mobile application or other remote channels.

Biometric access to remote services allows to confirm financially significant transactions and registration of new services without a personal visit to the organization's office.

Service can be integrated with loyalty systems and existing infrastructure.

Provision of financial online services using facial biometric authentication

Confirmation of financially significant transactions by facial authentication

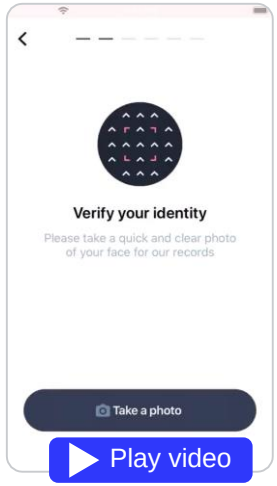
Detecting customer identity spoofing during service provisioning using Liveness technology

Emirates NBD

Remote customer verification in Emirates NBD, the largest bank in the UAE, is implemented based on a comprehensive technical solution from VisionLabs.
To open an account, a user just needs to scan his passport or ID card in the bank's mobile application and the system will automatically fill in all the necessary data in the application.
To confirm your identity in the mobile app, you need to take selfies: the face in the frame is recognised and compared to the photo on the document.

> 3 mln customers have been registered in the bank's biometric system since the system was put into operation

< 20 sec necessary to create a biometric profile in the system, including verification of identity documents



Bank's biometric platform

Implementation of a KYC scenario based on VL recognition systems at ABA Bank (the banking part of the National Bank of Canada)

- More than 2 million clients are registered in the bank's biometric system
- More than 100 thousand transactions to confirm instant P2P transfers daily
- 0 cases of challenging P2P transactions confirmed by biometric data

A face recognition system is being launched at the interbank level. This system is used as part of the anti-credit fraud service. More than 20 largest banks are connected to it.

- Customer credit rating based on biometrics - 62 retail banks
- More than 50 million faces in the database
- Over $100 million in loss prevention per year

A Unified Identification System, OneID, has been created on the basis of the Center for Electronic Government of Uzbekistan, which will allow citizens to receive government and commercial services using biometrics, for example, issuing certificates confirming operations using biometric technologies.

- The population of Uzbekistan is more than 36 million people (potential users of the biometric system)
- More than 200 thousand transactions are made monthly
- It takes 3 seconds to recognize the user's face

- Creation of a unified biometric system to provide biometric identification services to organizations and public service centers
- More than 200 thousand biometric templates have been collected in the database of telecom operators
- More than 100 thousand clients are using the application

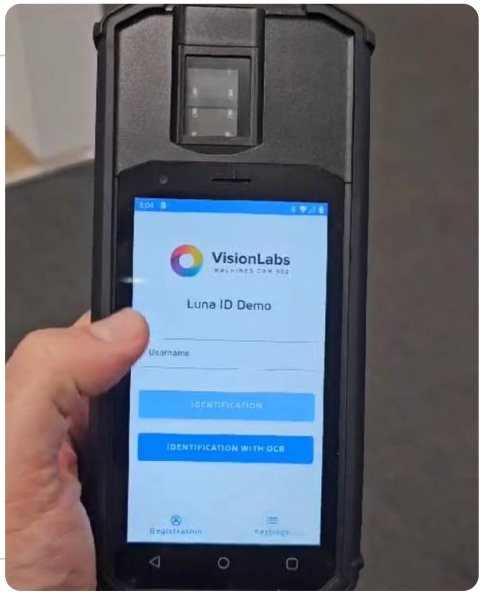
Remote identity verification

vodacom MTN

As part of a joint project with Axon Wireless in Africa (in the Democratic Republic of the Congo and Angola), a biometric data processing system for mobile applications and terminals is being implemented. The creation of an integrated access system will ensure a high degree of security and convenience for users.
Using the VisionLabs facial recognition system integrated into the Axon Wireless application, customers will be able to access the mobile application and receive services at branches using a simple and fast identification procedure.

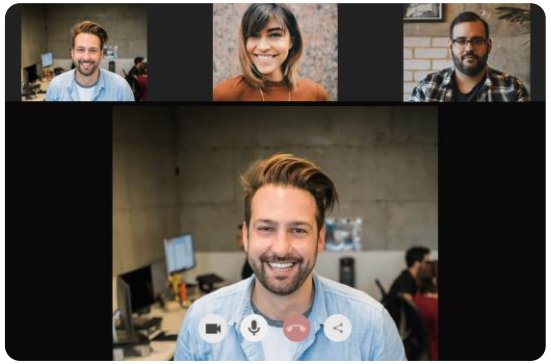
10 thousand faces make up the current database of the recognition system

up to 50 thousand faces will be added to the database



WebMoney

- The WebMoney Transfer international system has added identity identification functionality to WebMoney Video group video calling service.



MKBANK Poytaxt Bank

- In Uzbekistan, banks are actively implementing remote identification technology based on VisionLabs facial recognition technology.
- The biometric system allows for customer verification using biometric data in the bank's mobile application, minimizing fraud risks and speeding up the process of obtaining services remotely.
- More than 1.5 million clients of the Microcredit Bank and the National Bank of the Republic of Uzbekistan, respectively, are potential users of the service

VisionLabs experience: FacePay 1|2

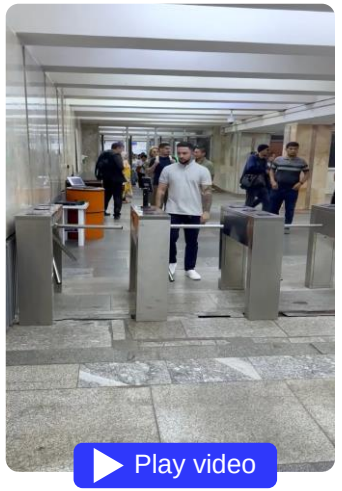
Together with the Ministry of Transport of the Republic of Uzbekistan and VisionLabs, a pilot project was successfully implemented to introduce in-person payment in the Tashkent metro at the Buyuk Ipak Yuli metro station. To use the service, you need to register in the mobile application, link a photo of your face and a bank card with funds to pay for travel. The system allows contactless payment for travel using biometric facial data.

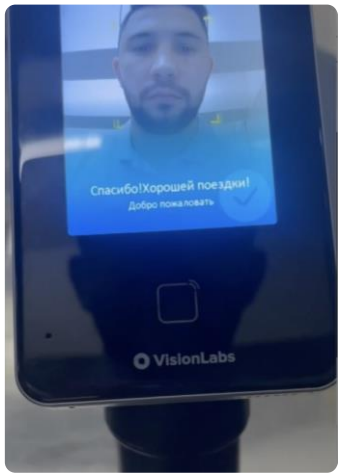
in 2 metro vestibules pilot operation completed

3 month required to implement the pilot project

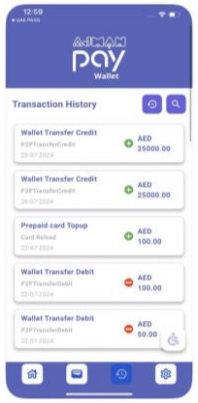
> 72 thousand payments for biometrics have been made since the launch of the project at metro stations

> 47 thousand persons were added to the biometric database as a result of the project implementation





Implementation and testing of payment terminals based on facial recognition on an intelligent digital payment platform AJMAN Pay.



In Oman, VisionLabs has teamed up with Thawani Technologies to launch face payment. The payment system has been implemented in a chain of coffee shops.

The Makro retail chain is introducing a biometric loyalty system with facial recognition from VisionLabs and Smart Telecom Solutions.

- 3 stores have implemented the biometric payment system "FacePay"
- More than 20 thousand customers will be registered through the mobile application

FacePay has been implemented in the Almaty metro based on VisionLabs facial recognition technology.

- 100% of metro stations are equipped with FacePay system
- 2 months were required to implement FacePay system
- Less than 2 seconds are required to pay for travel

VisionLabs experience: FacePay

X5 Group

The Pyaterochka and Perekrestok stores have implemented an innovative method of completely contactless and secure payment for goods and services using biometrics, “Payment with a Smile,” which provides:

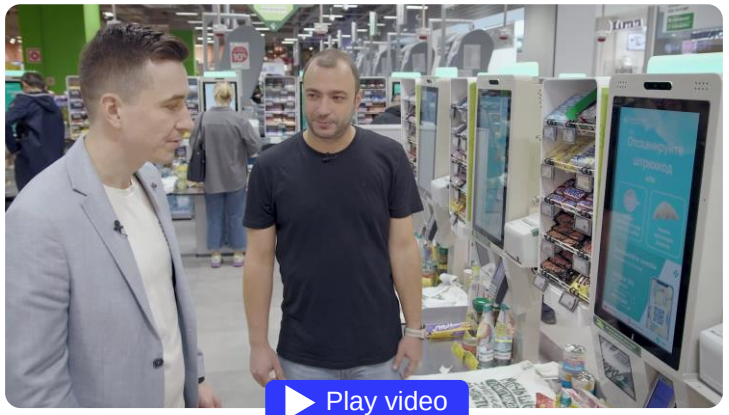
- speeding up the payment process at the self-service checkout;
- improving the customer experience.

3 sec takes to pay “by face” instead of 34 seconds for cash and 15 seconds for non-cash payments

> 15 thousand self-checkouts support face payment in over 5,000 stores

~0.05 % is the savings on MIR Pay commission and others from each transaction

> 3 thousand transactions per day are carried out per person daily with an average check of more than 500 rubles

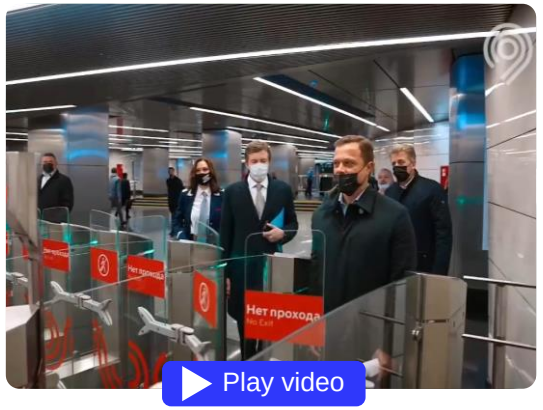


In October 2021, the Face Pay service was launched at all Moscow Metro stations, which allows contactless payment for travel using biometric facial data. To use the service, you need to register in the Moscow Metro mobile app, link a photo of your face, Troika, and a bank card with funds to pay for travel.

Liveness check has been implemented when passing through the turnstile at Moscow metro stations when paying with FacePay.

125 million Moscow metro passengers made passes using FacePay

100% Moscow metro and MCC stations are equipped with cameras with facial recognition modules



Ski resort

- Implementation of the world's first project for access to the ski resort and payment for ski pass "by face“
- 2 turnstiles are already equipped with face-passing technology
- More than 60% of visitors use face-passing technology in the current season

Intelligent video surveillance system

WILDBERRIES

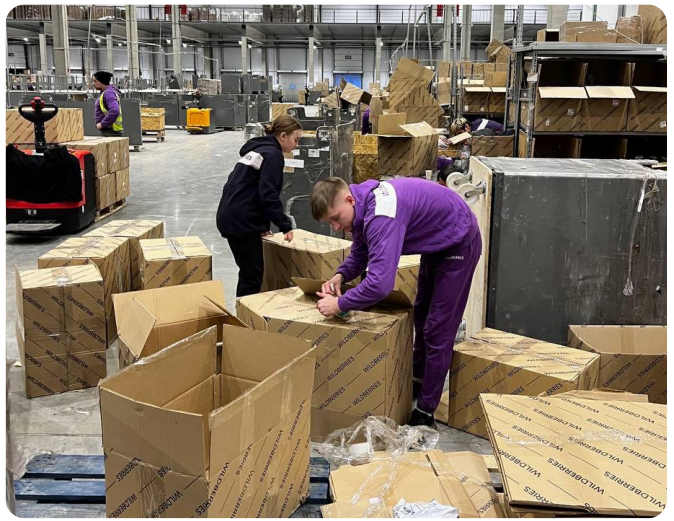
Implementation of a system for automated collection and analysis of information in real time, obtained from CCTV cameras of the sorting center and the Wildberries warehouse unit, using built-in VisionLabs video analytics.
The implementation of the system helps to monitor prohibited areas and identify unauthorized access to the territory of the sorting center and storage unit.

20 cameras are located on the territory of the sorting center

> 36 thousand is the number of Wildberries employees and potential users

> 1000 warehouse employees are system users

> 1 thousand sorting centers are located in Russia



MTS

- 80% reduction in labor intensity for registering employees, clients and visitors, controlling the “unwanted list” and monitoring the territory
- More than 16 thousand people are employees of the MTS office, where a video surveillance system has been implemented

ATOMDATA

- Implementation of an intelligent video surveillance system to protect the perimeter on the territory of AtomData
- Implemented 5 analytics to monitor the perimeter, visitors and employees

INTERNATIONAL SCHOOL OF KAZAN

- 2 school buildings are equipped with an intelligent video surveillance system
- The following video analytics have been implemented: recognition of suspicious behavior, the presence of fires, smoke and other alarms

FARG'ONA NEFTNI QAYTA ISHLASH ZAVODI

- Implementation of a video analytics system in the workshops and fuel production of the Fergana Oil Refinery
- More than 9 analytics are used at refinery facilities

Intelligent video surveillance system

In the Makarovsky residential area, a safe quarter project was implemented through the implementation of the VisionLabs LUNA VMS product. The solution is used to ensure the security of a residential complex.
The system ensures the collection and processing of video streams in real time, displaying images on monitors, and also provides ultra-precise neural network algorithms and advanced video analytics to ensure security in residential complexes.

350 installed on site for project implementation

> 8 LUNA VMS Product Analyst Used in Safe Quarter

170 thousand m² is the total area of the block covered by cameras

> 900 apartments were built on the territory and are protected using a video surveillance system

- There are 30 cameras connected throughout the facility to ensure security.
- The total area of the area is 9 million m² covered with cameras

- The project to ensure security at Kazakhmys production sites allows to protect the production perimeter
- More than 8 video analysts are used at the facility to monitor the perimeter

- 50 thousand cameras transmitted analytics data in real time to Regional Operational Headquarters
- 62 people who were wanted were detained

- Cases of people entering closed areas of the airport have been reduced by 2 times
- More than 2,000 attempts to enter prohibited areas have been stopped since implementation

Registration using biometrics at self-service kiosks

A project to add face recognition functionality to self-registration kiosks at the Moscow Arbitration Court. The user must register at the kiosk and go through an authentication process to be approved for further services. Authentication takes place in 3 stages: extracting a biometric template from a photo of a Russian citizen's passport; extracting a biometric template from a photo; comparison of 2 biometric templates for the fact of belonging to the same person.

30 self-registration kiosks with VisionLabs technologies installed in court

6 months required for project implementation

3 sec takes user face recognition

2 times the speed of service for visitors to the Arbitration Court has increased

Moscow International Cancer Center

A system of electronic queuing, navigation and interaction with visitors has been introduced, which allows to authenticate visitors and employees using biometric data of individuals, as well as navigate through the territory of the facility.

- More than 100 thousand patients used the solution in a year
- 4 terminals are installed in the reception area
- 15 cameras installed on the territory of the Oncology Center
- Queues at the registration desk have been reduced by 36%

KT

A project to implement a solution for logging into a personal account through a self-service kiosk installed on the territory of the Kronstadt enterprise using facial biometrics of employees.

- 5 self-service kiosks were installed on the territory of the Kronstadt plant
- More than 1,000 employees use the technology for logging into their personal accounts "by face"
- It took 3 months to implement the system

Driver condition monitoring

Yandex Taxi

A project to monitor the condition and re-authenticate the driver and passengers for the preventive prevention of accidents, property damage and other incidents during the transportation of mined and processed copper.
The project was implemented using VisionLabs technologies.

by 25% the number of traffic accidents has decreased

2 times the number of overtime hours worked by drivers has decreased

> 100 cases of non-compliance with transportation rules were recorded during functionality testing

driving safety increased

CITYMOBIL

Visionlabs, together with Citymobil, has implemented a fatigue monitoring system for taxi drivers. There are two cameras installed in the car interiors that monitor the driver and the road. The computer vision-based system monitors fatigue levels, phone calls, distracted driving and seat belt use, and it also analyzes driving habits.
After the system detects a violation, it emits a sound signal.

- 15 cars are participating in the pilot
- 2 cameras installed in each car
- The system analyzes the driver using 5 parameters

RIMAC AUTOMOBILI

- 2 million euros is the cost of a Rimac car using face recognition
- 150 pieces – limited edition cars
- 1 thousand people work on creating cars

Vehicle recognition

Hong Kong

Implementation of a vehicle recognition and vehicle license plate recognition solution at all Shell gas station parking lots in the city and paid parking at Hong Kong International Airport. Automatic payment for parking through parking software after recognizing the client's car license plate number.

Main features: recognition of more than 800 vehicle models, vehicle attributes, reduction of checkpoint passage time, vehicle access control, integration with an existing video surveillance system.

> 10 refueling cameras installed at the facilities

300 cameras used at Hong Kong airport in the parking lot

Turkey

The vehicle recognition system is an integral part of the Safe City project.

At the moment, the pilot project has been successfully tested in several regions, resulting in:

- VisionLabs vehicle recognition software is being implemented in several regions of Turkey
- More than 1,000 cameras across the country are involved in the project.

Vietnam

- The software allows to recognize vehicles, their license plates and attributes
- Measuring speed violations at intersections and highways
- More than 10 thousand vehicle detections per day

Argentina

The solution improves digital traffic control and automates the detection of traffic violations using the following technologies:

- Identification of vehicle models and attributes
- Car license plate recognition

Transport access control

Creation of a control system for checkpoints on the state page. The project is aimed at equipping entry and exit groups of checkpoints across the state border of the Russian Federation with a video analytics system for automatic recording and recognition of vehicle attributes for the purpose of further recording and analysis.
The system has a two-level architecture: federal and local levels.

10 checkpoints are equipped with a video surveillance system as part of the project

> 160 cameras connected to the system

4 each cameras are located at each entry and exit groups

80 servers are used to implement the system

ROSNEFT

- Project to implement a vehicle shipment priority system for the Ryazan Oil Refinery
- It took 1 month to implement the system

- The project to introduce automated checkpoints was implemented in 2 hospitals in Moscow
- 3 checkpoints were implemented at each facility
- Project scaling potential reaches 200 hospitals

- Entry and exit through checkpoints at the Ministry of Emergency Situations facility is carried out up to 300 times a day
- Less than 3 seconds are needed for the system to detect a gas barrier, recognize and open the barrier

P—A | SBER

- 6 access points to the territory are equipped with a vehicle recognition system
- 12 video streams processed at the entrance
- Less than 1 second turnstile response time

Time tracking and proctoring

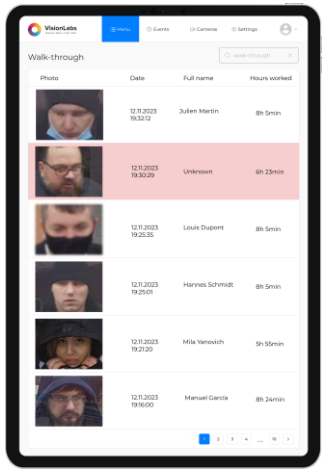
In order to automate control over employees, it was decided to implement a system for tracking employee work activity. VisionLabs, together with partner Verme, has implemented a solution that allows collecting data on employee work activity using face recognition technology. The solution allows to mark those employees who have low work activity, track the number of working hours of employees, track lateness and early departures from the workplace.

7 terminals installed in MEDSI hospitals

3% share of employees being late for shifts among those reported during the period

~ 98% accuracy of recognition of installed terminals

~380 hours of lateness and early departure from shift per month recorded by the system



GREENATOM ROSATOM

- Work time tracking and employee access control to work computers while working remotely
- More than 4 thousand employees received remote access to the system

AXBIT

- Once every 15 minutes, the image from the webcam is sent to the database
- A new module is available for 3 editions: “Corporate Portal”, “Enterprise”, “Online Store + CRM”

- More than 10 thousand students use the Luna Exam system to take exams at MSUTU
- It takes less than 3 minutes to confirm your identity using biometrics

JOINT-STOCK FINANCIAL CORPORATION SISTEMA

- More than 150 biometric terminals have been installed at the headquarters of Sistema Group
- More than 150 thousand people work in the companies of the Sistema Group

Production control

EVRAZ

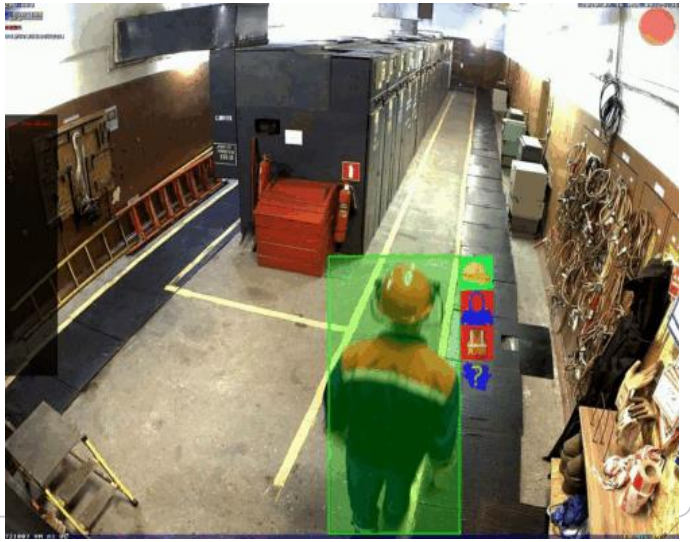
EVRAZ production has implemented a solution that allows automatic quality control of the supplied billet before rolling in terms of identifying surface defects. The software developed by VisionLabs not only performs defect detection, but also classifies them. If a defect is detected, the system sends a notification to the operator and displays detailed information on his workstation.

5 classes of defects on workpieces can be recognized by the system

< 1 min necessary to recognize a defect from the moment the workpiece passes the detection point

4 cameras installed on the rolling mill to detect workpiece defects

since 2023 1 machine is equipped with a defect recognition system



segezha group

One of the significant points in the development strategy of PJSC Segezha Group is digitalization at all stages of the production chain to increase business efficiency. As a result, there is a discussion on the implementation of computer vision technologies in production to solve the following problems: detecting defects and equipment stoppages and monitoring work activity and generating reports - using biometric access control systems and video analytics systems with a face and body recognition system in the production area.

2 times cases of untimely equipment shutdown due to material breakage have been reduced

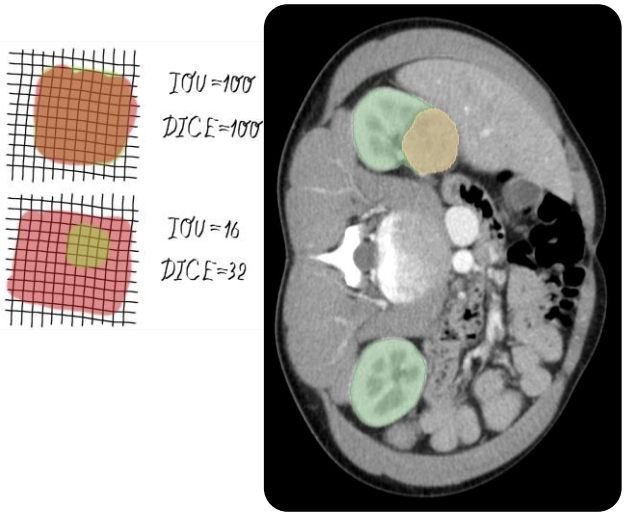
by ~ 17% reduced risk of complete production stop due to prompt notification

by 33% less defects with timely detection of anomalies and suspension of processes

< 1 sec operating time of detection algorithms

Solving problems using CV technologies

Together with the Moscow Department of Health, the integration of the LUNA MEDIUM service for identifying kidney pathologies was implemented. The service allows to automatically detect the localization of kidney space-occupying lesions on native CT images without contrast. Based on the results of the study, the following is provided: an assessment of the probability of the presence of volumetric formations, a structured report in the DICOM SR format, an additional series in the DICOM SC format containing the contours of the detected formations applied over the original images.



by 40% the speed of primary processing of patient images increases

✓ integration with MosMed has been developed and data acquisition for testing has been configured

By 35% the burden on doctors in terms of carrying out monotonous operations is reduced

85/100 clinical evaluation of the service as part of working with MosMed

KION

A set of libraries has been built into the KION platform, which allows to detect and compare the faces of actors in films, trailers or photographs in an online cinema, and improve unique recommendations for users.

- More than 4 million people - online cinema audience
- 4 hours average number of hours spent watching video service content
- 12 thousand units of content are presented on the service

SBER

The smart display from Sberbank SberPortal is equipped with VisionLabs technologies for detecting faces and bodies, as well as recognizing gestures. VisionLabs implemented this functionality using trained neural networks.

- Recognizes more than 15 static and dynamic gestures
- 95% accuracy of gesture recognition
- Less than 300 ms to recognize one gesture

VisionLabs

MACHINES CAN SEE

CONTACTS

visionlabs.ai

a.karmov@visionlabs.ai

+7 993 907 0707

ASTEMIR KARMOV

Global Business Development and Sales Director