

# ivideon

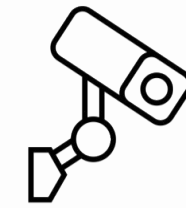
Cloud-based video  
surveillance  
and video analytics  
for banks



# ivideon

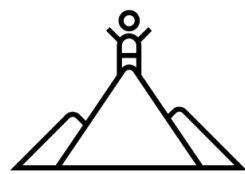
Worldwide Experience

50K+



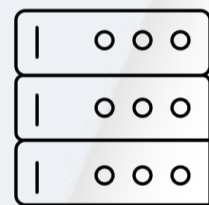
cameras in the  
biggest project

12



years in  
business

15



data  
centers  
around  
the world

5M+

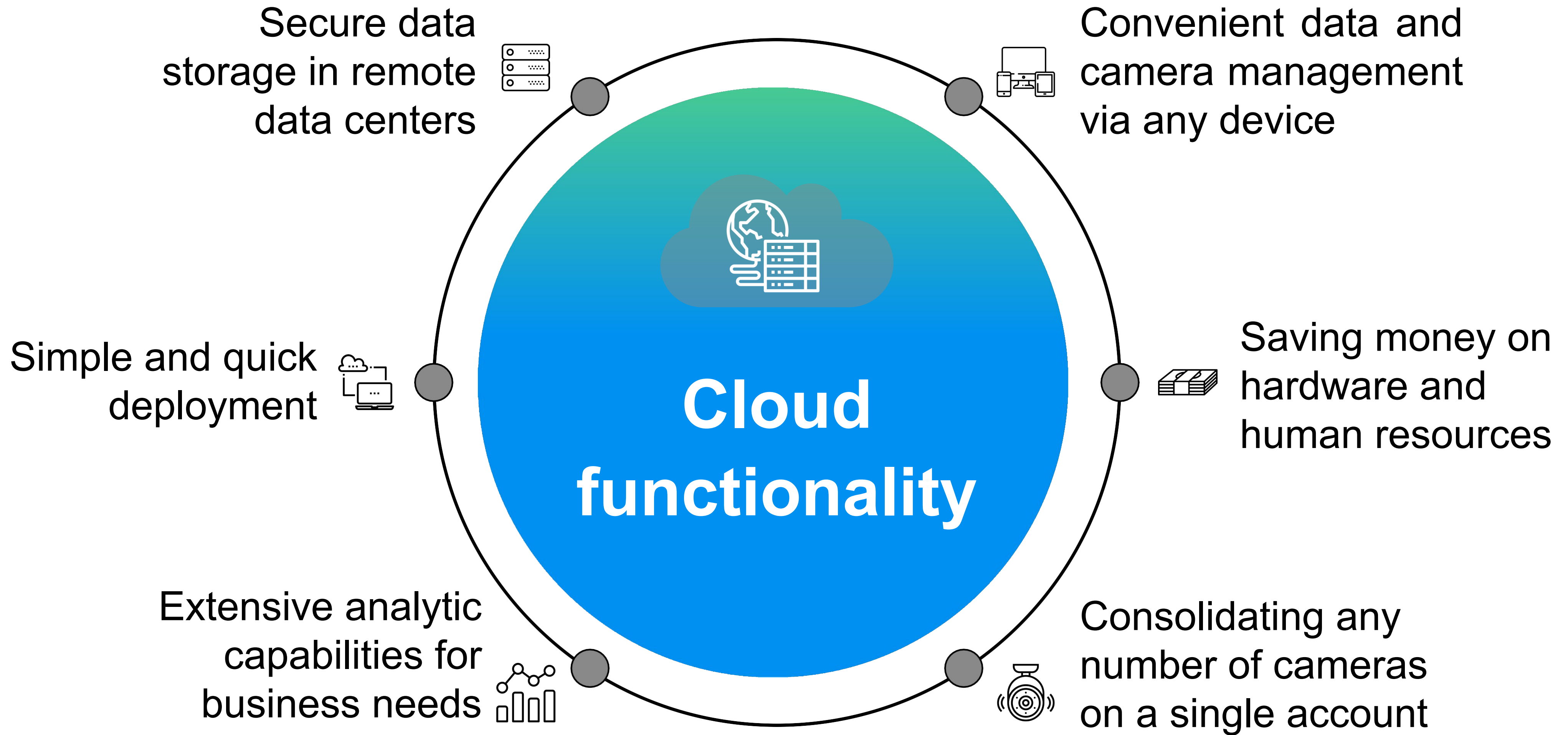


clients

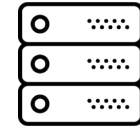
130+



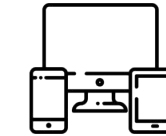
countries



Secure data storage in remote data centers



Convenient data and camera management via any device



Simple and quick deployment



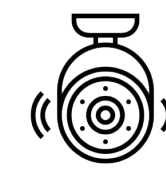
Saving money on hardware and human resources



Extensive analytic capabilities for business needs



Consolidating any number of cameras on a single account



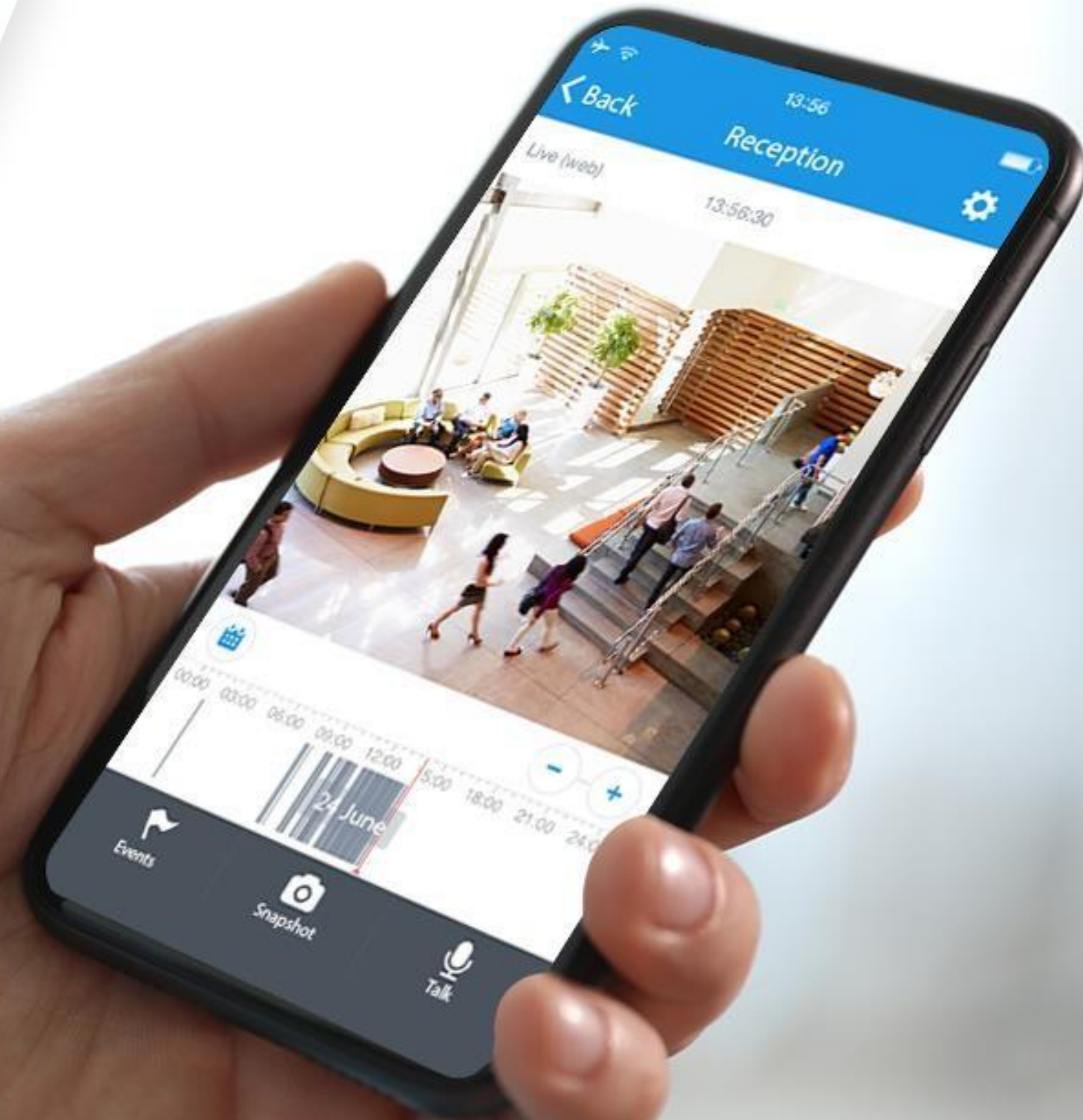
**Cloud  
functionality**

# Solutions by

ivideon

## 1. Improving on-site security

- Biometric authentication of clients
- Preventing theft and fraud using a video analytics module that automatically recognizes the faces of known criminals and sends notifications of their presence.
- Monitoring cash register transactions
- Facial identification and automatic door locks in restricted access areas





## 2. Improving client services

- automatically detecting and notifying users of queues
- automatically detecting employee presence and notifying of employee absence in the workplace
- detecting and notifying of the presence of regular and VIP clients in order to offer special terms or products to them
- providing details by camera, period, number of people, and queue length with video evidence
- counting visitors, analyzing those leaving the branch due to overcrowding
- quickly resolving potential disputes by accessing a video archive with advanced search features and viewing only the events specified
- boosting client loyalty through detailed information (gender, age, emotional states) and generating reports on visitor traffic by time

## 3.

### Video surveillance for ATM networks

- identifying a visitor before they insert a bank card
- sending an alarm notification if a visitor is not identified
- collecting telemetry data at an ATM from installed devices (damage sensors, etc.) and analyzing camera blockage or interference
- an unlimited number of ATMs on a network
- recording events in the ATM and in the cloud
- accessing data for various services through a convenient multi-task interface
- easily integrating with a bank's systems for receiving and displaying data





## 4. Analyzing and monitoring employee behavior in the workplace

- tracking employee working time
- automatically detecting employee presence and notifying of employee absence at the workplace

## 5. Integrating with enterprise management systems (integrating into the IT infrastructure of a bank)

- linking events from business systems and applications to security camera footage: for example, for the long-term storage and quick search for loan formalization recordings for further analysis of incidents, etc.
- quickly integrating Ivideon Private Cloud into any systems for solving the business tasks that our clients have to face
- analyzing KPIs of departments/employees and generating daily/weekly reports





## 6. Monitoring the bank's partners in various projects (construction sites receiving funding from the bank)

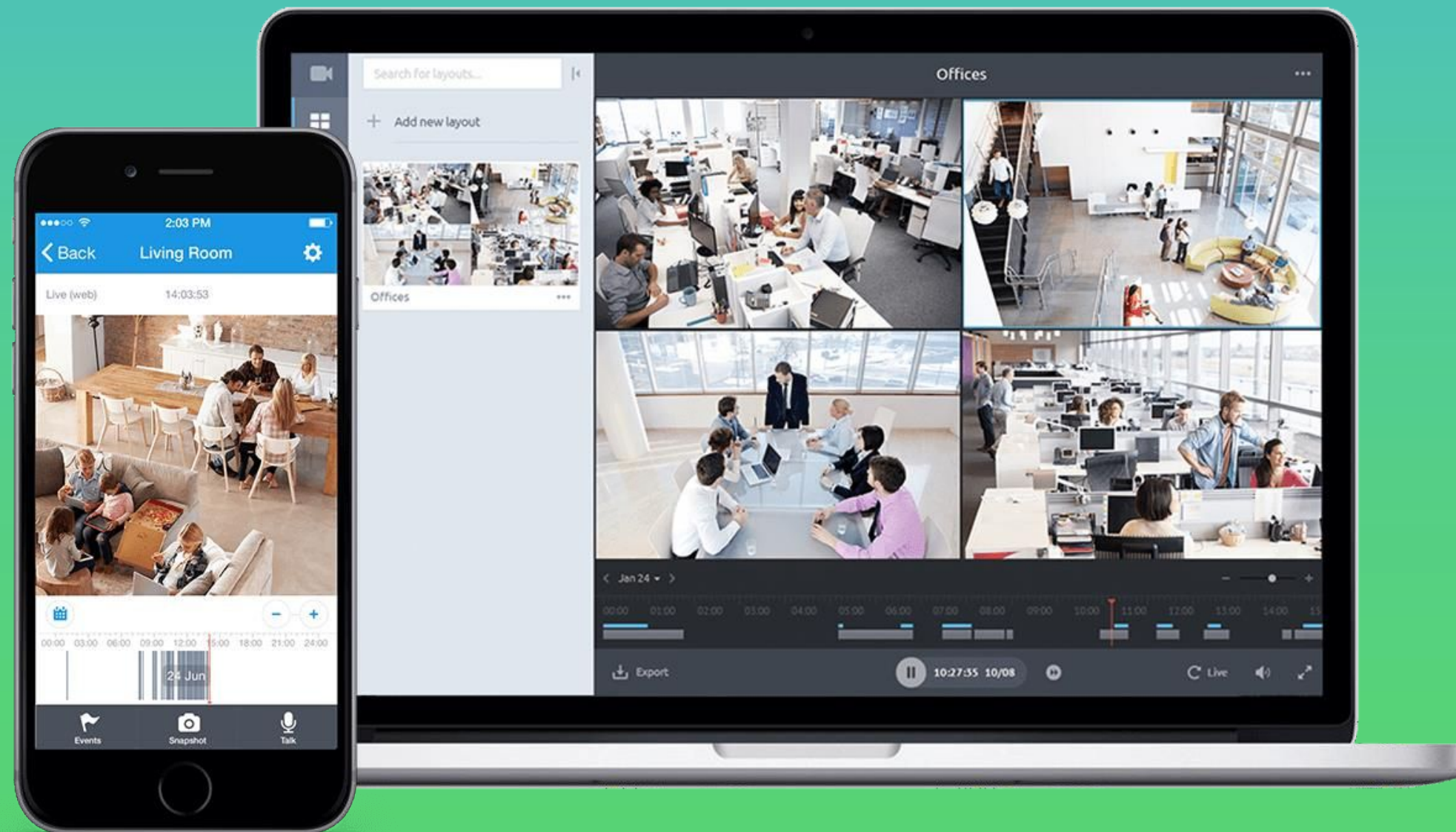
- providing video evidence of construction progress
- analyzing renovation/construction schedules and generating compliance reports
- supporting wireless data transfer channels, including 3G/4G, for installing cameras in areas with no landline service
- accessing data for various services through a convenient multi-task interface

# A video surveillance system of any size in minutes

Connection via QR code and Wi-Fi

A powerful and user-friendly mobile app

Camera mounting on a magnetic base





# An integrated system



Cameras



Cloud



**Ivideon  
Analytics**



People detection



Face recognition



Mask detection



Visitor counter

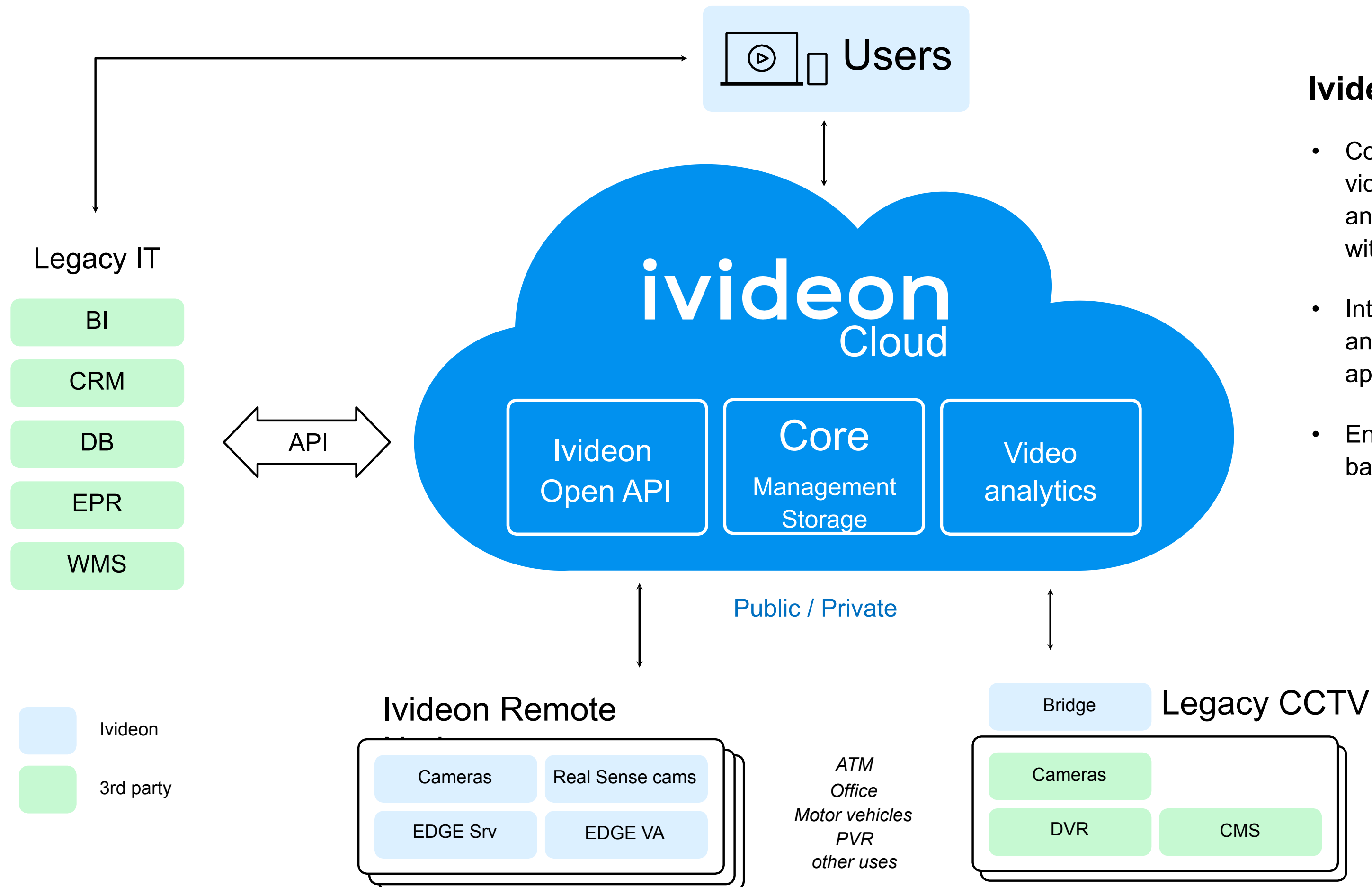


Shelves



Cash register

# Solution architecture



## Ivideon architecture

- Consolidating into a single network of video surveillance systems and improving any Legacy video surveillance systems with an unlimited number of cameras
- Integrating video surveillance and video analytics into client IT and business applications
- Ensuring a fault-tolerant CCTV 'kernel' based on a public or private cloud.

# ivideon Faces



Detects faces in real time, compares them to an existing database of faces, then saves and analyzes them according to various parameters, including moods.



Automatically detects new faces and recognizes previously-detected faces from the database (blacklists and whitelists)



Recognizes gender, age, and emotions in the camera's field of vision



Creates automatic detection lists of employees and VIP clients, as well as unwanted visitors



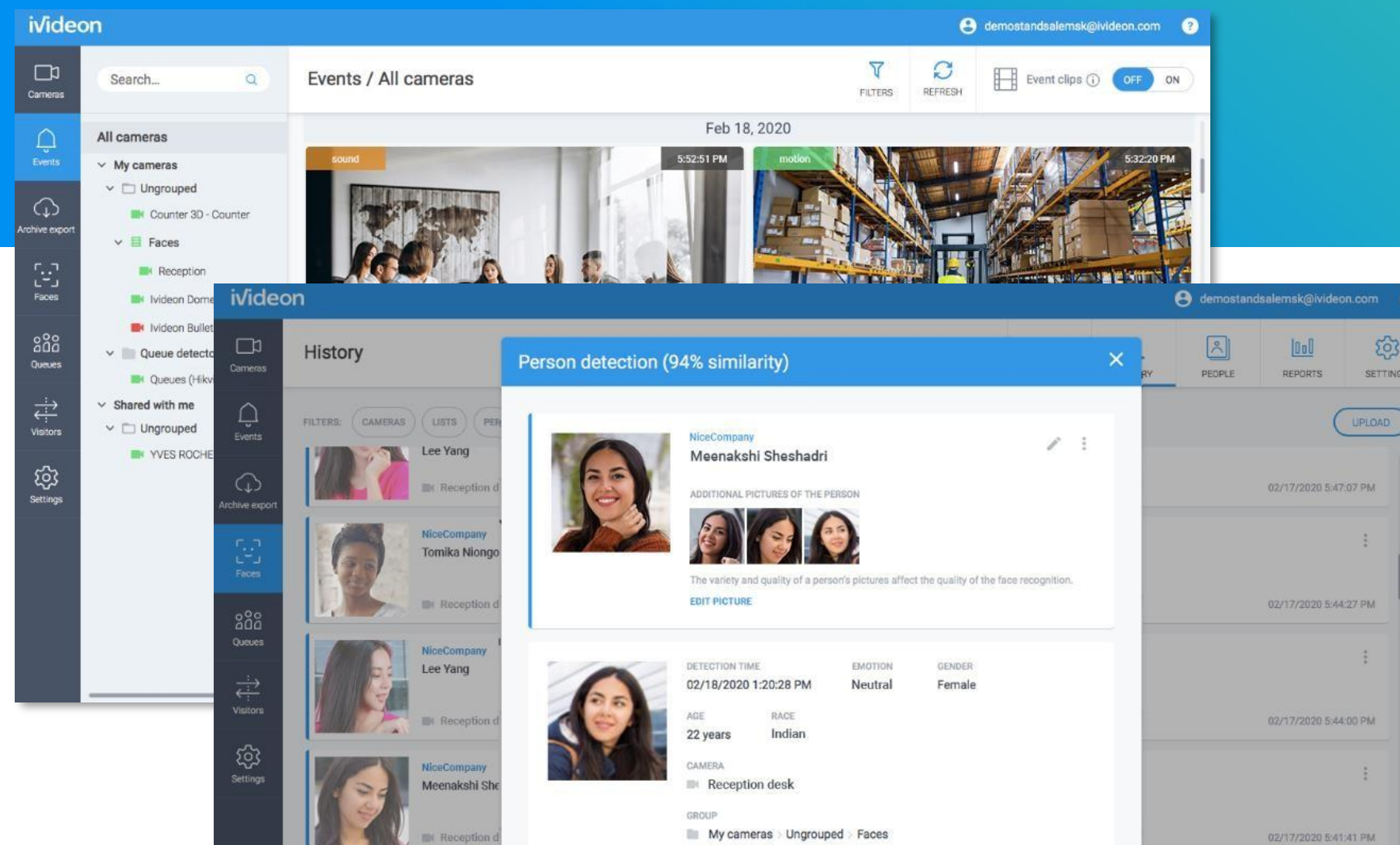
No need to install additional software or hook up DVRs



Creates detection reports on alarms, lists, demographics, emotions, and working hours that can be exported to Excel or CSV



Search for faces by picture, name, list, and detection area. Quickly switch to videos of interest





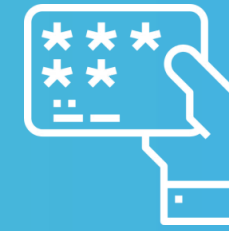
# Ivideon Faces

## for implementing loyalty programs



### Loyalty program

Every time a customer makes a purchase, they receive a specific number of points based on how much they spend.



### Club membership

Monthly/yearly Club paid membership with more benefits.



### Charity program

Part of the revenue from every purchase is donated to a charity.

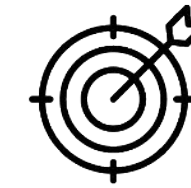


### Community program

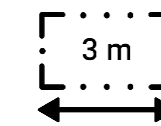
Special customer offers (discounts, birthday gifts, free delivery).

# ivideon Cloud Counter

The service identifies visitors even in crowds while ignoring extraneous details.



Highest counter accuracy when compared to competing services (IR and 2D counters)



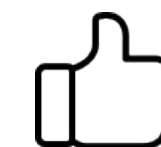
Keep track of objects that cross a given line in the camera's field of vision



Detailed daily and hourly visitor reports at your points of sale



Data is processed and stored in the Ivideon cloud and only one camera is required, new or existing.

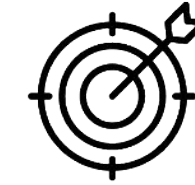


Versatility (You can set the intersection line to be any shape or size)

# ivideon

## Queue Monitoring

Helps increase customer loyalty by automatically notifying you when crowds begin to form and generating detailed reports on attendance to help you make future adjustments.



Crowd detection by headcount powered by neural networks to guarantee maximum accuracy



Use flexible features to determine congestion areas and set a threshold number for any task



Make the necessary adjustments to your workflow by using the interactive queue statistics for area, size, and wait time, along with video frames



Receive convenient and detailed analytical reports and react quickly to events by enabling notifications



Monitor employees to ensure they're at their designated workplaces, improve discipline, and increase efficiency

# European Bank (NDA)

Ivideon Open API for business analytics of a bank



Industry – Banking & Finance



Company – Bank (NDA)



Ivideon product – Ivideon cloud, Ivideon Open API, Ivideon People



Number of Cameras – 700 +



Number of sites – 500 +

## Problems & objectives:

There was a need to detect 'problematic branches' and to establish the reason for time waiting, to increase the number of executed transactions;

Implemented system functionality:

- Automatic detection of queues
- Tracking employee working time
- Counting client traffic at various times of day, queue lengths, wait times, and handle times.

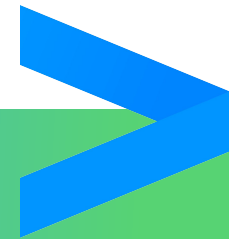
## Solution:



Benefits of system deployment:

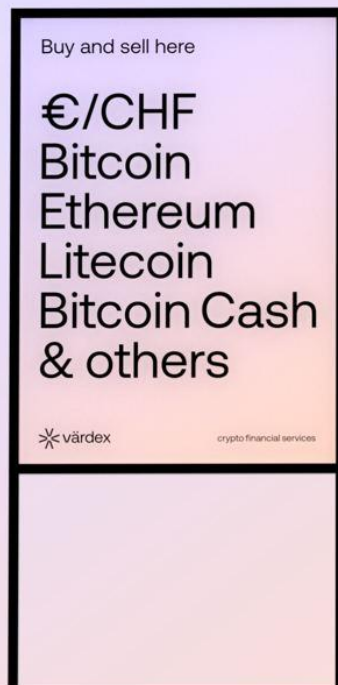
- tangible display of the profitability of each branch;
- efficiently planned employee schedule;
- checking how reasonable the rental charges for branches are;
- monitoring and comparing key performance indicators, for example, sales conversion;
- analyzing promotions for effectiveness.



Cloud VMS for crypto ATMs in Switzerland



 **värdex**  **ivideon**



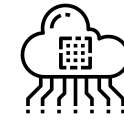
Industry – Crypto Financial Services



Company – Värdex Suisse



Ivideon product – Ivideon powered cameras NBQ



Camera cloud license – Cloud 30 (30 days cloud recording)



Number of cameras per site – 1



Number of sites – 80

## Problems & objectives:

The client was looking for a high quality camera system for a reasonable price that will be easy to upscale in the future.

There was a need to make the video quality better and browsing through the recorded archive easier. Also it was necessary to have cameras that would record even when there was movement within the cameras' view.

## Solution:

With Ivideon, Värdex has found an outstandingly professional and scalable solution for monitoring its ATMs. What is more, Ivideon offered a reliable camera system that allows cloud recordings to be fallen back to whenever necessary. Now, the entire process from ordering the product, installation on-site, and license activation right up to daily use has been simple and efficient.



# ivideon

Cloud Video Surveillance

Stay one step ahead and keep an eye on your business and employees from wherever you are, at any time, and on any device.

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[ivideon.com](http://ivideon.com)

