CORPORATE PROFILE

NNTC

INNOVATIVE TECHNOLOGY COMPANY

ABOUT US

USD 0.5 billion

2,500+
projects per year

400+
partners

2,000+
employees

TECHNOLOGY AREAS

FOCUS SECTORS

ENERGY

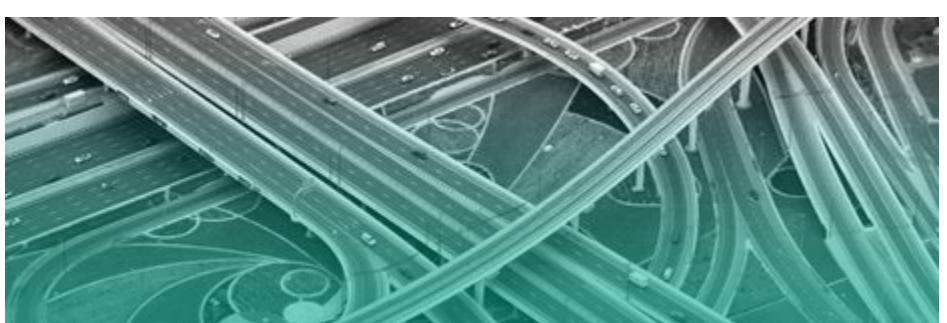
GOVERNMENT

FINANCE

CONSTRUCTION

TELECOM

RETAIL



TRANSPORT & LOGISTICS

LEADERSHIP TEAM

Dmitry Doshaniy
General Manager

Georgy Ovanesyan
Deputy General Manager

Alexander Belyaev
Technical Director

Pavel Tatarintsev
R&D Head

OUR REFERENCES IN THE REGION

FACE RECOGNITION SOLUTIONS

iFalcon CONTROL

iFALCON FACE CONTROL MOBILE

DEMO | WATCH VIDEO

The world's **first** autonomous face recognition integrated with **AR glasses**

iFalcon Face Control Mobile is designed for law enforcement officers and security guards on patrol.

15 faces per frame for recognition

1 million unique faces in database

<1 second for face detection and recognition

AUTONOMOUS

Full autonomy: no data connectivity is required, up to 8 hours on battery

AR alerts - received in glasses within less than a second

4G/5G CONNECTION

Command center with online tracking of all connected devices and raised alerts

Team patrol – organize users in the team and share alerts along them

GPS tracking for any device – from mobile server or mobile phone

intel | IOT Solutions Alliance

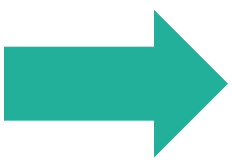
INNOVATIVE TECHNOLOGY COMPANY NNTC

iFALCON ATTENDANCE & VISITOR MANAGEMENT

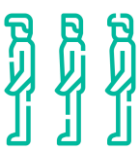
Post COVID attendance bringing efficiency to environment for your employees and visitors with contactless access control system based on video analytics and AI

Face recognition
(even wearing a mask)

Temperature
control



High security
level



No more queues
at the reception

Gate control

WATCH VIDEO

VISITOR MANAGEMENT OPTIONS

For using with a pass:
Self-service kiosk with face
recognition to obtain a pass

People counting
and heatmaps

iFALCON THERMO

Build the barrier in front of COVID, stop the spread and safe your employees

iFalcon Thermo - access control terminal with temperature measurement and AI engine

- Accurate **contactless** temperature **measurement** (within 0,2°C)
- **Contactless** identification with Face recognition
- **Centralized** management Wi-Fi remote connection
- Measurement **reports**

WATCH VIDEO

BENEFITS

FAST
< 2 seconds for face recognition

RELIABLE
Matching even wearing a mask

LIVE NOTIFICATIONS
On terminal, mail, etc.

iFALCON FOREMAN

Mobile app for field workers attendance control

Face recognition using mobile app or CCTV

- Keep the full track of people onsite
- Blacklist of unauthorized visitors

Record time starting and ending duty

- Minimize check-in check-out times from hours to minutes
- All history and events stored on the server

iFALCON VIDEONET

iFalcon VideoNet covers all parts of video surveillance to keep the environment safety all over the time

Designed for public places, industrial companies and offices.

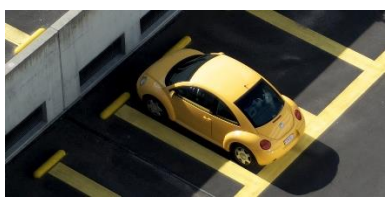
Live video from cameras
Video-wall

Playback video records,
Archive search by events tags

Native compression codecs for remote video quality live change

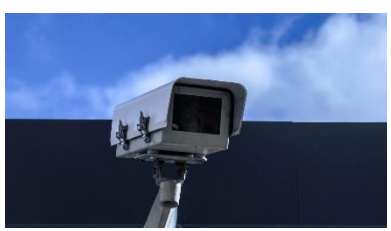
PEOPLE TRACKING

- Wrong direction & line crossing
- People counting
- Face recognition
- Social Distance



OBJECTS DETECTION

- Detect vehicles (cars, trucks, trains, etc.)
- ANPR
- Heat map for movements



SECURITY CASES

- Left objects detection
- Incident investigation
- Fire and smoke detectors
- Integration with safety sensors

INDUSTRIAL AUTOMATION SOLUTIONS

DIGITAL WORKER PLATFORM

MINING & CHEMICAL INDUSTRY

OIL & GAS

PORTS

HSE performance

Labor productivity and quality

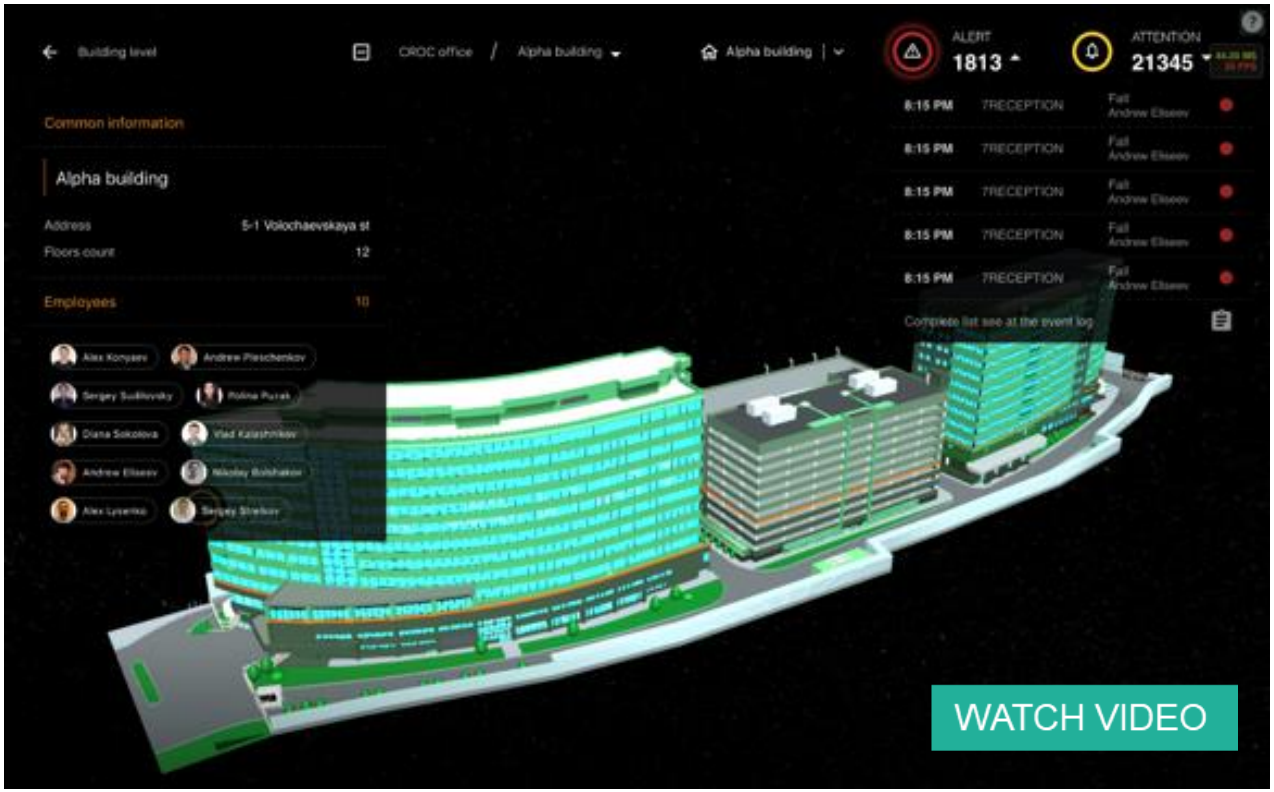
Identify deviations from standards and unproductive personnel

Automate the process of work monitoring and compliance with labor protection rules

Respond quickly to injuries, violations and other incidents

DIGITAL WORKER PLATFORM

- Incident tracking on 3D map
- Integration with video analytics
- Position tracking and logging
- Business rules processor
- Devices and software adapters
- **Web Client application:**
  - 3D maps
  - Real time personnel movements
  - Events registration and alerting
  - Admin web interface



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PRIMARY LINES OF OUR VR

- VR simulators for safe equipment operation at production enterprises
- VR emergency drills for personnel
- Enterprise digital models and technological process visualization for new employees
- Mobile 3D apps as “always-at-hand” guides for enterprise training centers
- Innovative training center design and outfitting
- Unity 3D basic and advanced courses for customer’s IT specialists

VIRTUAL REALITY TRAINING SIMULATORS

VR TRAINING SIMULATOR FOR INDUSTRIAL EQUIPMENT

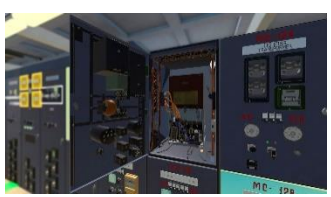
A training solution that helps demonstrate technical processes and working principles of specialized equipment, such as: a gas turbine driven compressor, a heat exchanger, a distillation column, a motor operated pump and a control valve.

VR TRAINING FOR WORKING AT HEIGHTS

HSE training solution for working at heights includes virtual simulator of the construction site and training videos. The immersive training experience ensures better knowledge retention and helps decrease the risk of injuries and construction downtime.

OPERATOR TRAINING SIMULATOR (OTS) IN VIRTUAL REALITY

It is an effective training solution for plant operators in oil & gas, petrochemical and other industries. It allows learning and practicing safety and emergency skills in a safe, virtual environment, without any risks to the real plant or the personnel.



TRAINING FOR SWITCHGEAR OPERATIONS

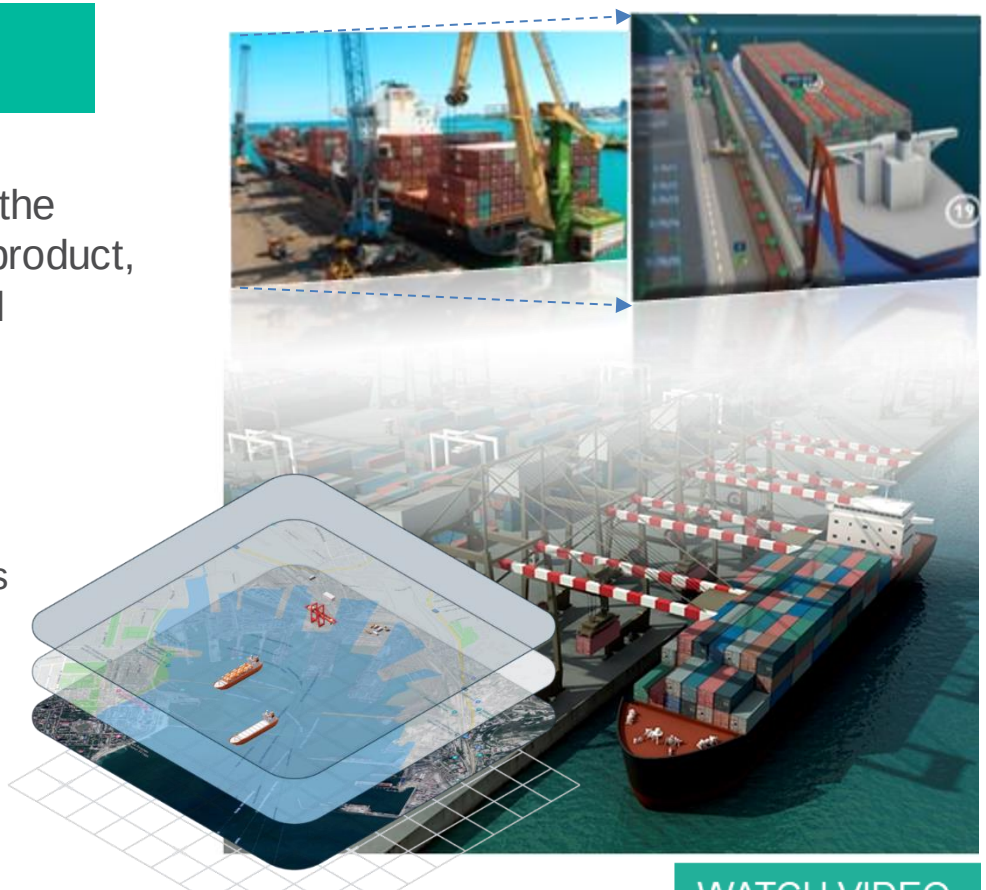
A virtual simulator that emulates the actual electrical equipment and allows training and assessing the level of practical knowledge of electrical staff without production downtime or risks for the employees.

WATCH VIDEO

SMARTTWIN – THE DIGITAL TWIN SOFTWARE

Digital Twin concept represents the convergence of the physical and the virtual world where every industrial product, operational process or asset will get a dynamic digital representation.

- **Single source** of information
- **Visualization** of objects and operation processes
- **Data collection** and control for a large number of objects
- **Simulation** of processes, services and objects locations
- **Data analytics** and operations optimization
- **Smart** enterprise **management** and decision support
- The perfect tool for **Remote** Management



WATCH VIDEO

Fast ROI for SmartTwin Deployment

Revenue Growth

Reduction of Operating Cost

HOW IT WORKS

- **Always represent an existing operational object** – from design proposal to system handover, the digital twin will reflect a real object
- **Represent the object's real-world state** – provide data that describes the present and historical conditions of the object and external and internal processes
- **Models can expand into multiple realms:** supply chain analysis can benefit from modelling warehouse operations, truck management system and weather conditions

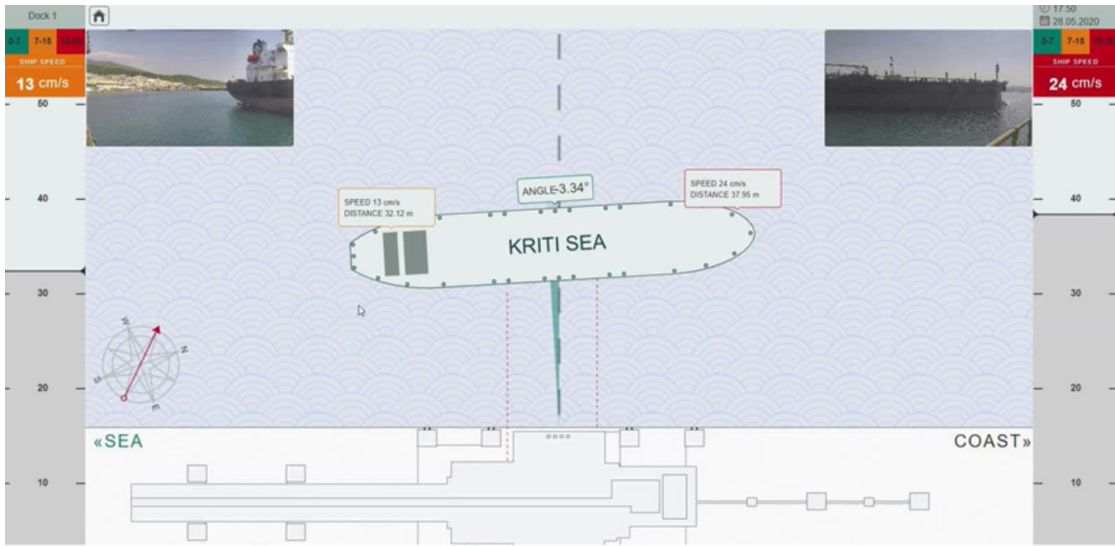
Ready to use
SmartTwin
edition for seaports

MOORINET

Vessel Mooring and berth monitoring system **MOORiNET** significantly improves the safety of mooring operations for any size of the ship, using the latest AI and machine learning algorithms for predicting velocity and position for always moving vessel.

- Berth plan optimization
- Remotely controlled mooring
- Reducing human error
- Reducing influence of metocean conditions, increasing window of operation at the berth
- Minimize the need for berth infrastructure upgrades

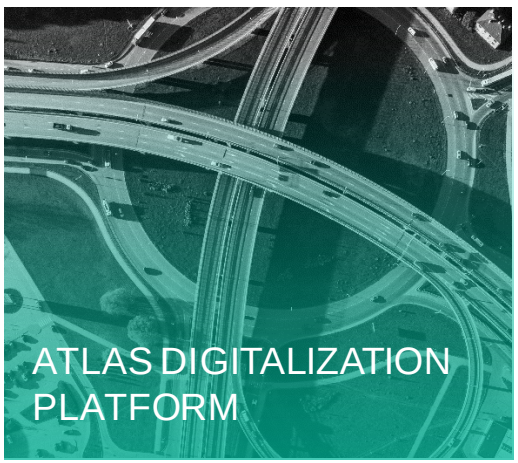
WATCH VIDEO



Control the process, make it safer

The technology dramatically improves safety and operational efficiency

INDUSTRIAL DRONES SOLUTIONS



DRONE MANAGEMENT

Mission planning software for Environmental Monitoring and Industrial Inspections

Consistent, precise data gathering

Data collection automation

Supports most popular commercial drones

Remote Drone and camera control

Online video streaming

City data collection

Prohibited zones monitoring

Environment sites monitoring

Post-flight analysis tools

WATCH VIDEO

World leading UAV ground control software for command centers and BVLOS operations

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ATLAS AI PLATFORM FOR PROCESSING DRONE FOOTAGE

Asset digitalization platform for people without data science background that turns aerial photography into business insights

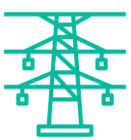
Enviroment objects counting:
Palms, mangroves, water bodies

Hazardous sites monitoring:
Garbage stockpiling, landslides

AERIAL / DRONE SURVEY DATA

WATCH VIDEO

City monitoring:
Cars, parking slots, villas, buildings counting



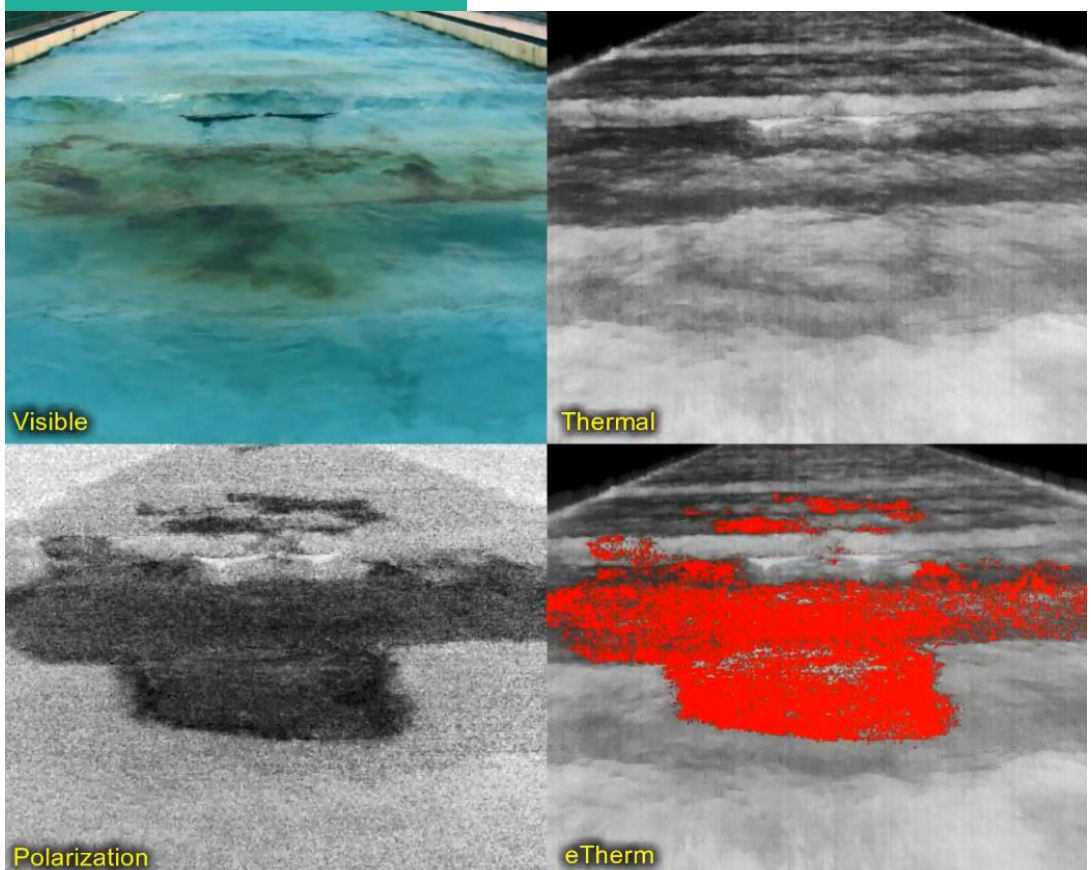
Industrial sites monitoring:
Materials stockpiles, machinery, terrain, power lines

OIL & DIESEL SPILL DETECTION

SEES OIL
IN **REAL-TIME**

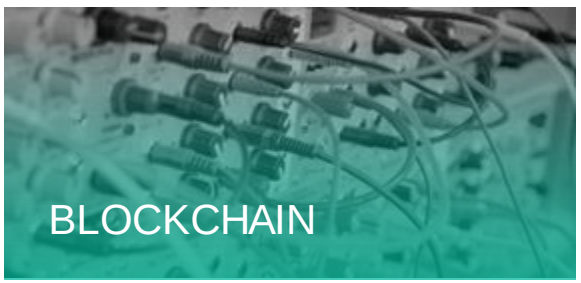
- Oil can be detected on the water and on the beaches
- Detects both oil and diesel
- Day and night detection in real time
- Rough and calm waters
- Lightweight sensors (from 300 grams only)
- Stationary, drone and handheld options

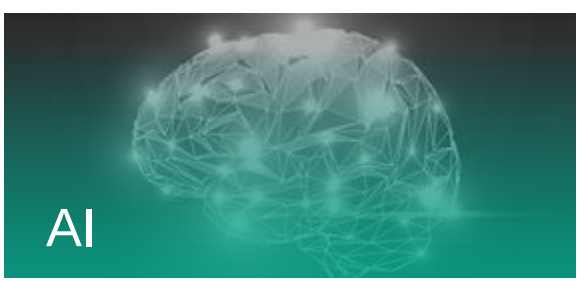
Diesel in a technical pool



Boat berth disaster and sunken boat location

CUSTOM PROJECTS





CUSTOM AI

WATCH VIDEO

VIRTUAL EYE

Cameras help reconstruct surfaces of large-size objects and evaluate volume of substances in closed aggressive environments

THE MODEL HELPS:

Offload personnel
Reduce counting time from **1 hour to ~ 10 seconds**

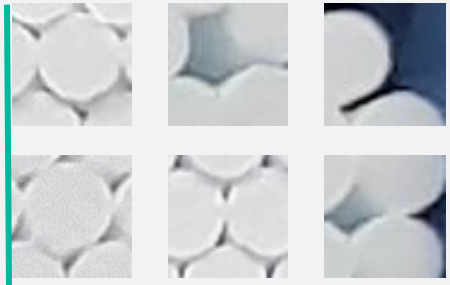
Monitor product quantity with **99.5%** accuracy

OBJECT COUNTING PHASES

01

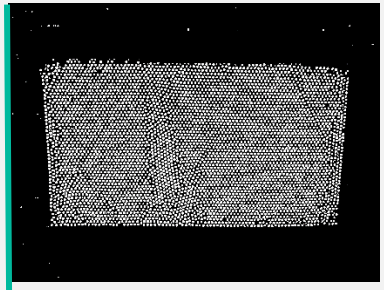
Quality check

02



Breaking an image into multiple smaller ones to be then fed to a neural network

03



Processing by a deep neural network to border areas with objects sought

04

Counting the bordered areas

BLOCKCHAIN

Innovative architecture for digital economy

- Etherium
- HyperLedger
- Bitfury

BUSINESS

- Payments
- P2P deals
- Digital rights
- Supply chain

GOVERNMENT

- Property registry
- Identification
- Healthcare
- Voting

HR TECH

HR tech = Digital technologies + innovative approach

HR tech helps HR to become a new business development driver and improve personnel performance

WHICH HR PROCESSES CAN BE UPGRADED?

- Recruitment
- Assessment and appraisal
- Adaptation
- Learning and development
- Personnel accounting
- Security
- Corporate culture
- Personnel motivation

NNTC HR TECH SOLUTIONS

- Chatbots
- SaaS
- Social
- Mobile
- Analytics
- Video and gamification

OUR SERVICES INCLUDE

- Data-driven HR solutions
- Learning management systems
- Interactive dashboards
- Digital recruitment services
- Onboarding solutions
- Cloud-based employee engagement platforms

NNTC

INNOVATIVE TECHNOLOGY COMPANY

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THANK YOU