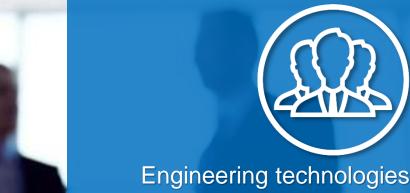


ABOUT THE GROUP



«Engineering technologies» a group of R&D/Engineering companies that produce innovative products in various fields - from medicine to cybersecurity and distribute technologies worldwide.



Engineering technologies in numbers:

engineers

offices in the world



projects

3 principles of «Engineering Technologies» group

Fundamental technologies unique products



On the basis of our own research and fundamental research carried out by leading science centers we develop our unique products, gadgets and software.

White Label Principle



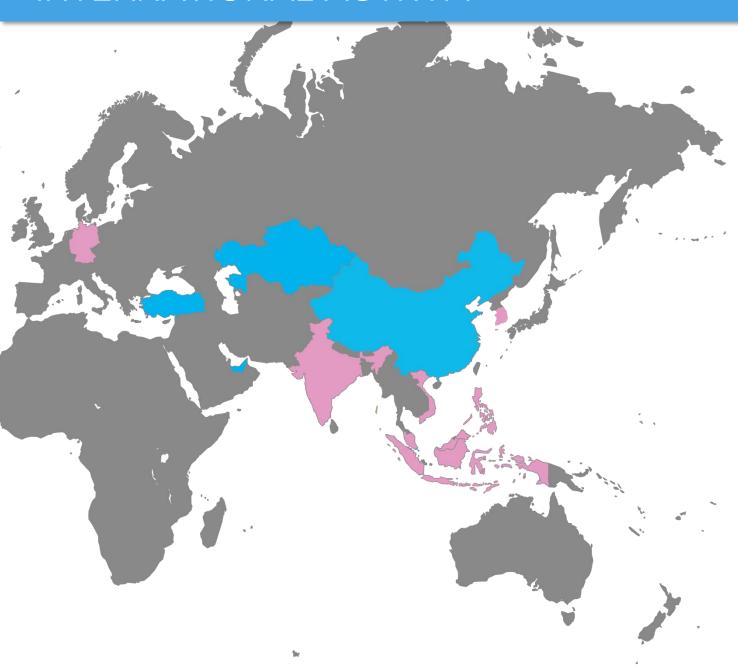
We work under the lables of major brands, concluding contracts with famous companies using Whitelabel (WL) concept: we create a product and release it immediately all over the world under the famous brand. This is how we reduce time for markets penetration and advertising costs.

Sold all over the world



The group is focused on intensive world markets penetration through technology transfer. We do not sell abroad. We create local production grounds and work under local brands.

INTERNATIONAL ACTIVITY



ESC offices:

- **Turkey**
- Kazakhstan
- China
- Singapore
- United Arab Emirates

ESC representatives offices:

- Germany
- **Vietnam**
- **Bahrain**
- Malaysia
- **Hong Kong**
- Indonesia

India

- South Korea
- Philippines



BUSINESS PROFILE

MEDICINE

CYBER SECURITY

SMART DEVICES

П



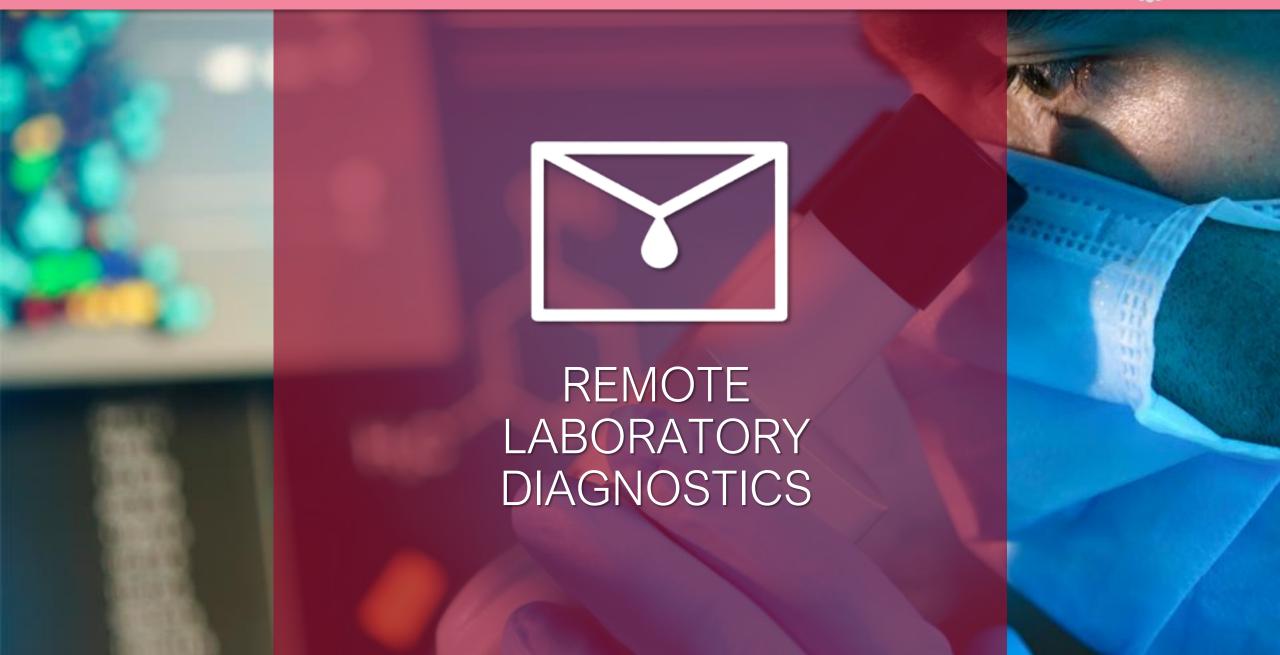














CURRENT PROBLEMS



There are no specialized labs in the remote areas



Difficulty & high costs of existing shipping way of biological samples



Painful procedure of drawing blood from the veins



OUR SOLUTION

Innovative method to collect blood without pain





HOW IT WORKS?



Take a blood sample yourself using a set



Send a dried blood sample to the labs by post service or a courier



Get analysis results by e-mail



IMPLEMENTATIONS

MEDICAL INDUSTRY & PHARMACY



Remote screening of population



Lab-diagnostic tool for mass preventive medical examination



Pre-clinical studies of new pharma

DATA POOLS



Creation of data pools with biomaterials (including genetic data)



Storing all information in the country on country maid stripes

FARM & ARGICULTURE

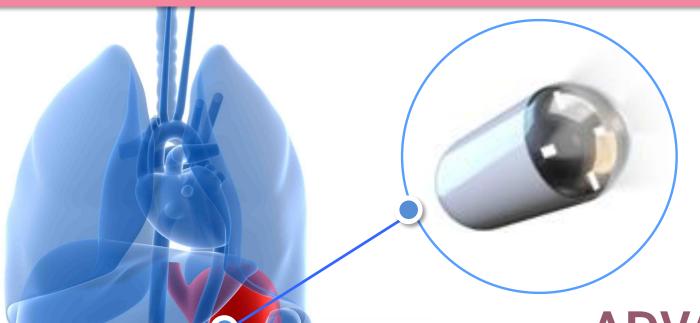


Detection and prevention of the most dangerous animal diseases' extension









System for the diagnostic of gastrointestinal tract diseases :

miniature disposable capsule with builtin video camera, data transmitter and software.

ADVANTAGES



Painless and effective procedure



Special software for semi-automatic analysis saves time of specialists' work



HOW IT WORKS?



The patient swallows a tiny capsule which naturally goes through all the digestive tract of the patient and makes images



Capsule wirelessly transmits the image to the recording device



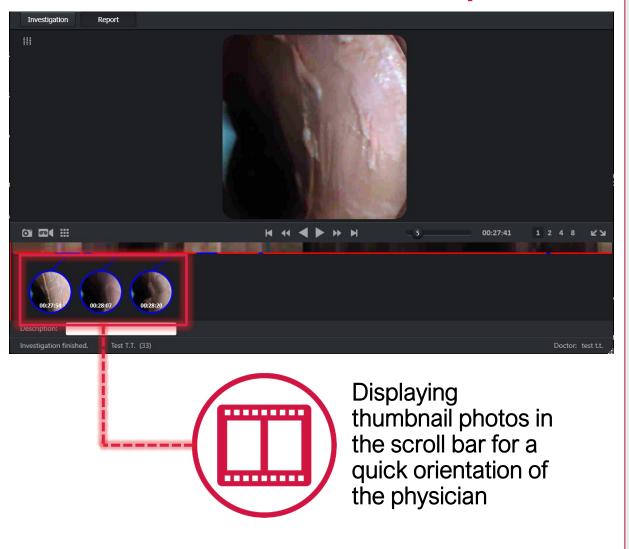
All received images are transmitted to the software installed on a PC via USB



COMPLEX OF ENDOSCOPIC EQUIPMENT OF NEW GENERATION



Software interface example



Using advanced technology and numerous tests allowed to reach high performance



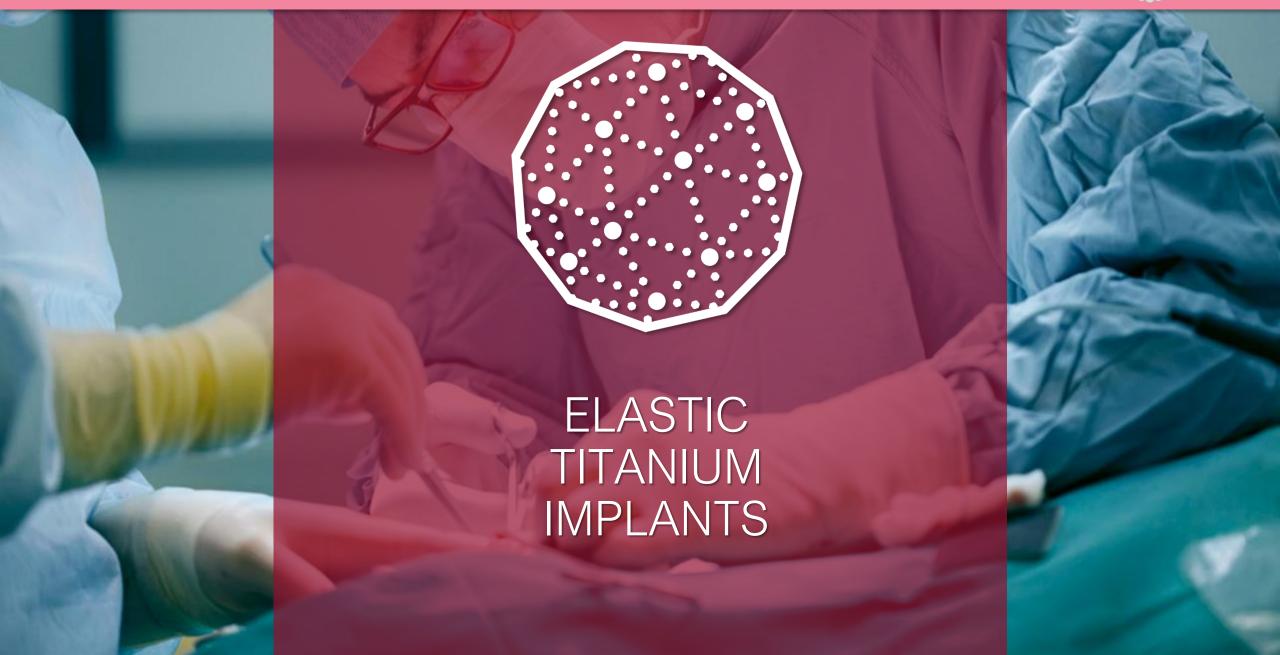
Dimensions: 13x27,9 mm

• Resolution: 640x480 px

• Shooting speed: 2 shoots/sec

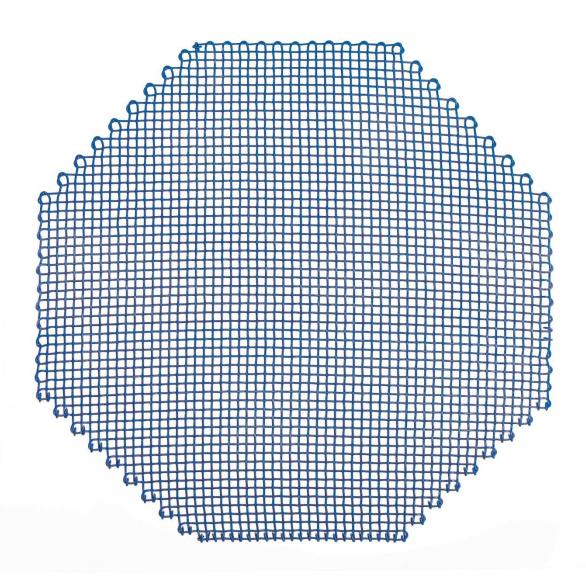
• Angle of view: 120 degrees





ELASTIC TITANIUM IMPLANTS





Titanium silk

Titanium silk is composed of threads 40-60 microns. It is structurally stable, biologically inert and resistant to infection. Easy to manipulate and allows intraoperative modeling.

Titanium silk covering hernia in operation never lets hernia grow back.





ELASTIC TITANIUM IMPLANTS





The cage is 50-70% porous which facilitates conditions for bone ingrowth for the whole depth. The cages have damper properties that can withstand axial load of the weight up to 500 kg while keeping elasticity approximate to that of natural bones







50-70% porous



can withstand axial load of the weight up to 500 kg

ELASTIC TITANIUM IMPLANTS





Plates

The product is intended in bone grafting operations, namely cranioplasty, plastic acetabulum for retention of bone-replacement material in the affected areas.

The product has obvious ergonomic advantages over similar products and allows for effortless creation of desired shapes









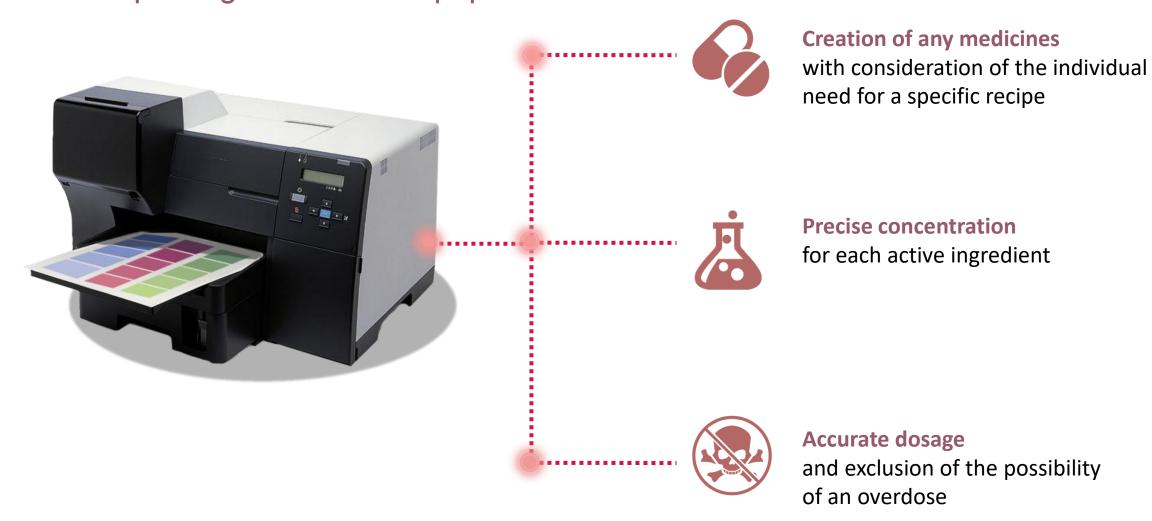






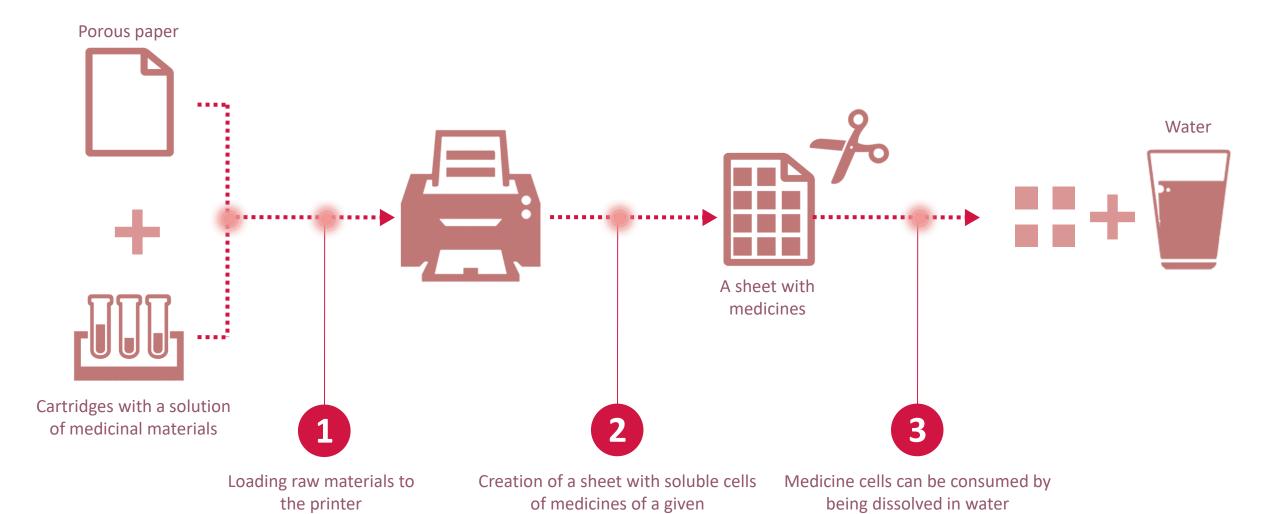
OUR SOLUTION

Printer for printing medicines on paper





HOW IT WORKS?



concentration



ADVANTAGES





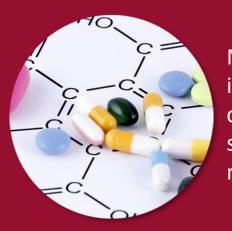
Control over the date of consumption



For drugs taken in a course

– exclusion of the risk of an
untimely consumption

Pureness of medicine



Medicines are created individually, so they do not contain excipients which a specific patient does not require.

PHARMPRINT

















Ray-D is a compact device for determining the location of distributed radiopharmaceuticals in malignant tumors and nanocolloids in sentinel lymph nodes.

IMPLEMENTATIONS



Localization of sentinel lymph nodes



Radioguided occult lesion localization – ROLL



Search of tumors using radiopharmaceuticals that are specific to the tumor



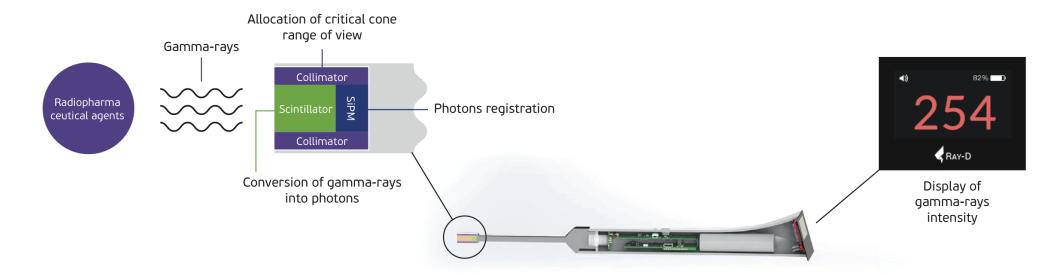


HOW IT WORKS?



Injection of radiopharmaceutical or nanocolloid

Detection of medication by a specialist with gamma probe





Applicable in case of the following cancers:

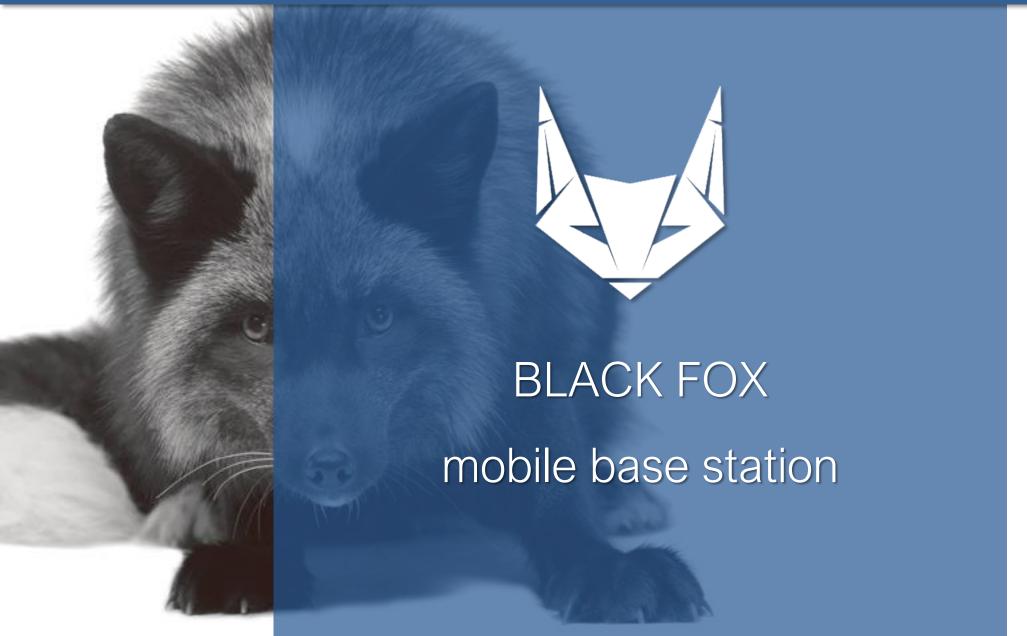
- Breast
- Thyroid gland
- Skin
- Head
- Neck
- Ovary
- Lung

- Cervix
- Prostate
- Liver
- Stomach
- Large intestine
- Esophagus
- Laryngeal and throat



CYBER SECURITY







Implementation Methods



Industrial case



Office case



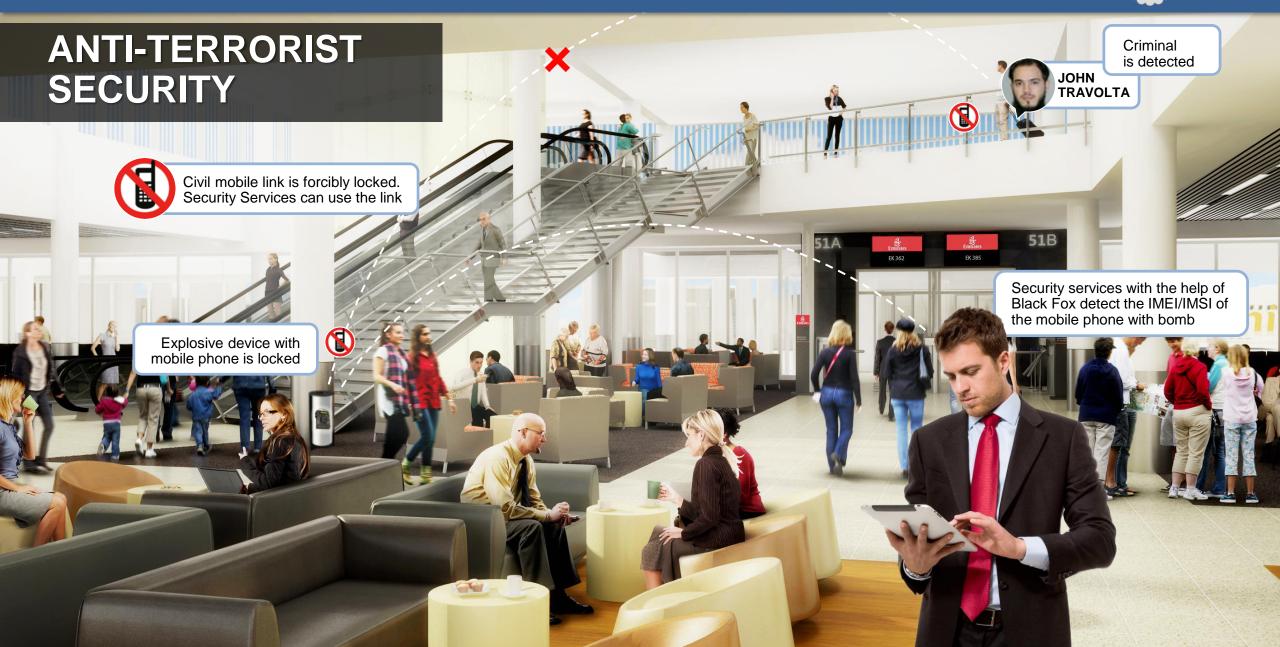
Mobile case

Mobile base station Black Fox

Black Fox – a virtual mobile base station that allows to build a local GSM-network with the following functionality:

- ★ Real time mobile phones tracking in the local area (IMSI, IMEI, activity).
- ★ Local calls and local text messages to phones in the area.
- Local calls between phones in the area without bounding to real mobile operators.
- Selective mobile phones blocking in the area according to white list/black list policy.





BLACK FOX



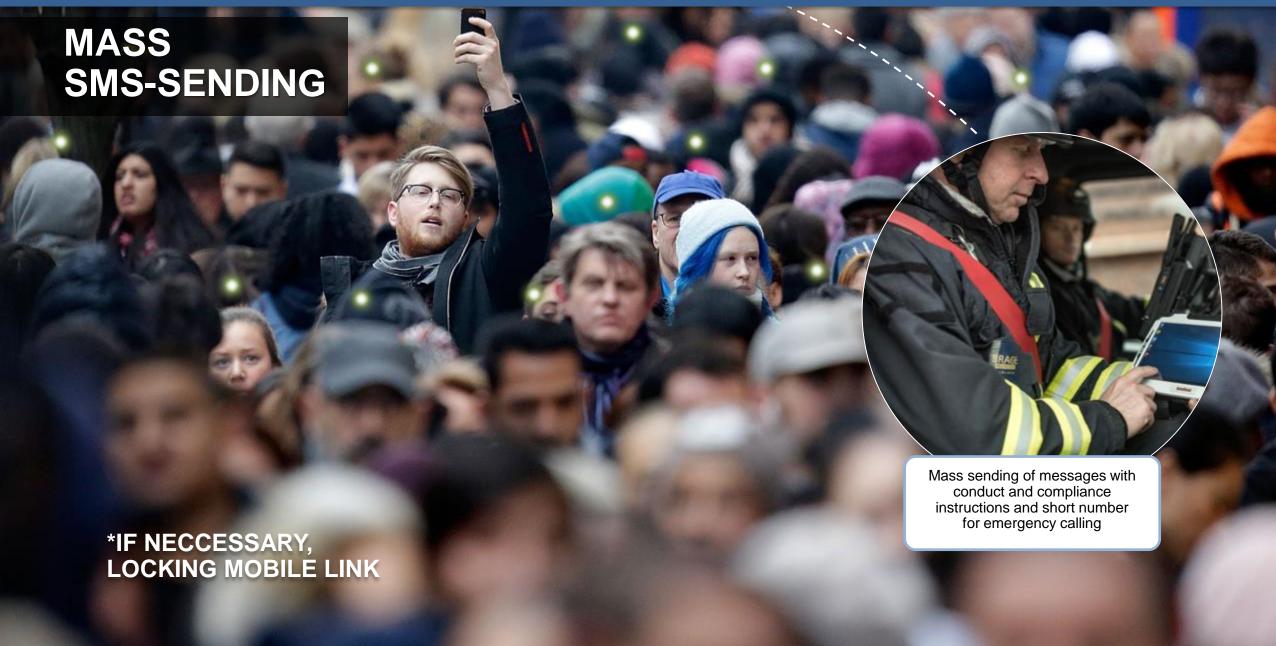


BLACK FOX









BLACK FOX



Proposed solution to governmental buildings: enforcement of different policies for mobile devices

Zone secure from SS7 attacks

for different rooms

Security officer can modify access to various settings and functions: GSM-

Different protection policies

various settings and functions: GSM-connection, camera and voice recording, SMS. Policies are carried out via Device Mobile Management client which is installed on white-listed devices.



























BLACK FOX





CYBER SECURITY





CURRENT PROBLEMS

Our communications are under constant threat from cybercriminals, malicious hackers, and unjustified spying by state authorities.

Level of the messengers security from the leaks

Has end-to-end encryption



Does not have end-to-end encryption



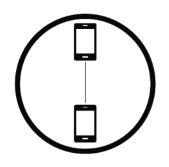
Source: https://www.amnesty.o

No one of the existing messenger does not guarantee 100% data protection

OUR SOLUTION

CtrypoMessenger ProjectM is the most secure messenger in the world that can not be hacked for several years by any of hacker groups.

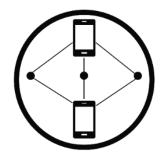
ProjectM is 100% secure because of:



ProjectM has no server, messages go point-topoint and cant be hacked



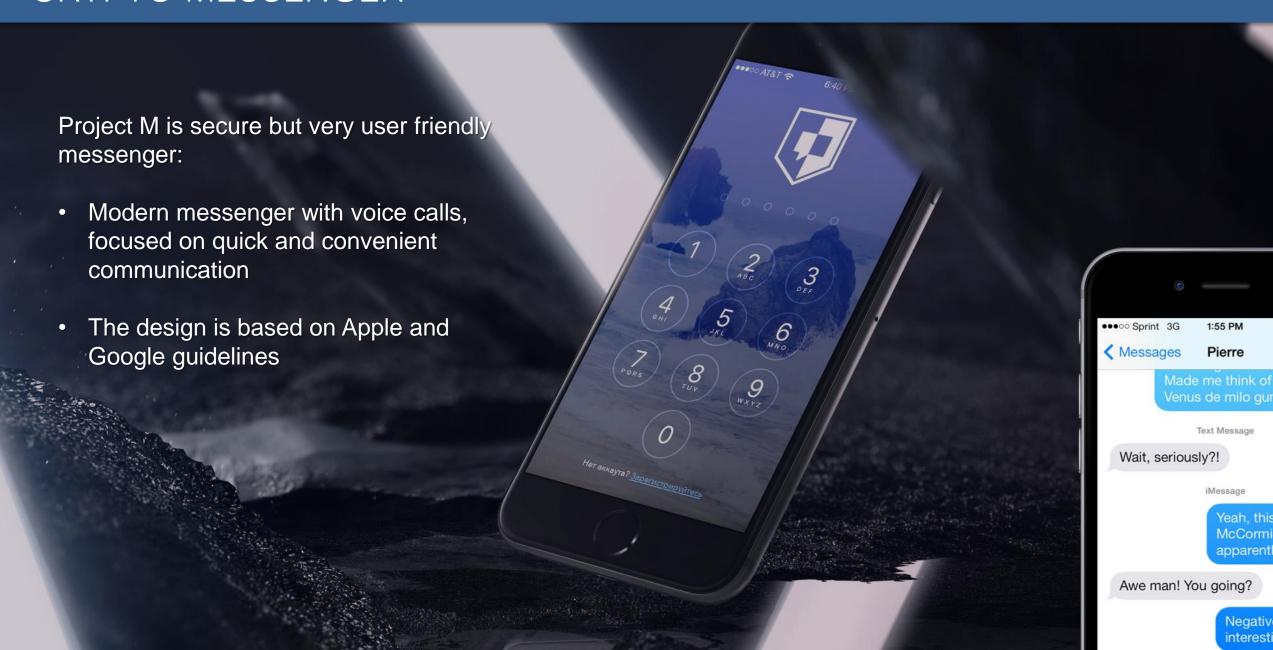
All data is always encrypted: during transmission and storage of data



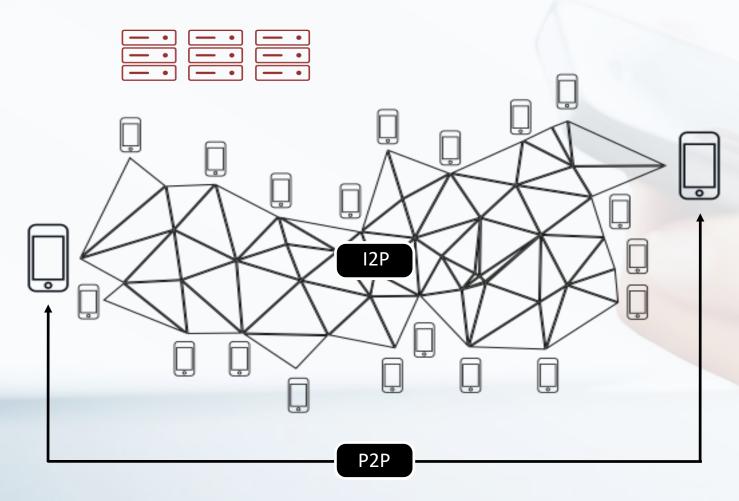
All packets go through dark net and no national barriers can stop our messages



ProjectM works on iOS and Android phones



Project M is the only one messenger using I2P- and P2Ptransports



1. I2P (Invisible Internet Project)

I2P is anonymous network layer of Internet to transfer data unnoticeably. ProjectM sends messages only through I2P.

2. P2P (peer-to-peer)

Project M is the first crypto messenger not to use Server as all messages go directly from one user to another.

CYBER SECURITY







A new generation of car protection against cyber threats



United States Patent № US 8955130

METHOD FOR PROTECTING VEHICLE DATA

TRANSMISSION SYSTEM FROM INTRUSIONS





HOW CAN YOUR VEHICLE BE ATTACKED?

Methods of malware penetration in your car's system are similar to those that are used for normal computers.



Wireless connection



Troubleshooting systems



External data carriers



Exposure during service maintenance









AUTOVISOR



AutoVisor provides maximum protection from unexpected consequences of attacks on the vehicle's CAN-bus

AutoVisor is the only tool that enables the car owner to control the parameters of the vehicle operation independently. It also provides automatic blocking of threats.

1 Has no analogues in the world

02 Installation takes less than 2 hours at the service center

All information about the protection system's operation is available in a mobile application (iOS, Android)



CYBER SECURITY





Green Head

Protection of mobile devices from unauthorized wiretapping



United States Patent № US 8387141 United States Patent № US 8732827 SMARTPHONE SECURITY SYSTEM



CURRENT PROBLEMS

Relevant threats for mobile devices and users



Unauthorized wiretapping of talks via cell phone



Unauthorized activation of microphone and camera of a device, data transmission to attackers



Access of unauthorized people to files containing business data



Locating a person by his mobile device



OUR SOLUTION

Software for protection against wiretapping GREEN HEAD





Protection against wiretapping

Protection against data leakage

Features



Detection of unauthorized activation of a mobile device's camera and microphone



The widget blocks the camera and microphone in one click and disables wireless communication: Wi-Fi, BT, NFC, mobile Internet, which can become data leakage channels



This application allows you to record a conversation in online mode for later playback





Widget on the screen of the mobile device notifies the user of unauthorized wiretapping.





GREEN HEAD

ADVANTAGES





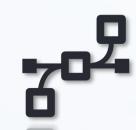
Green Head does not affect the speed of operation of your smartphone





Green Head has intuitive interface and is clear for people with different technical competencies





Green Head is flexible for people who use smartphones for both personal purposes and work







Protection for Industrial Control Systems



United States Patent claim № US 13458662

METHOD AND SYSTEM FOR PROTECTION OF AUTOMATED CONTROL SYSTEMS FOR SMART BUILDINGS



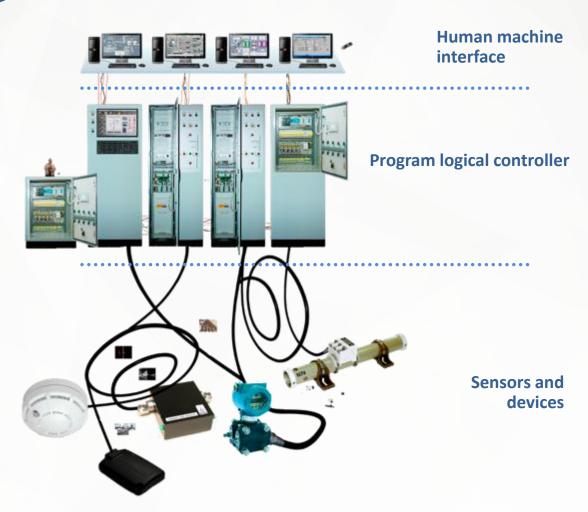


CURRENT PROBLEMS

Typical Industrial Control System

Industrial control systems informational security

- Different industrial process control systems (ICS) are widespread and used in transport, manufacturing, living spaces, mass gathering places (shopping malls, airports, etc.)
- With the growing number of such systems the number of malware grows as well. The main goal of the malware is to get unauthorized access to information and control over the object.





Attack on Syria state gas and

Importance of industrial control systems protection

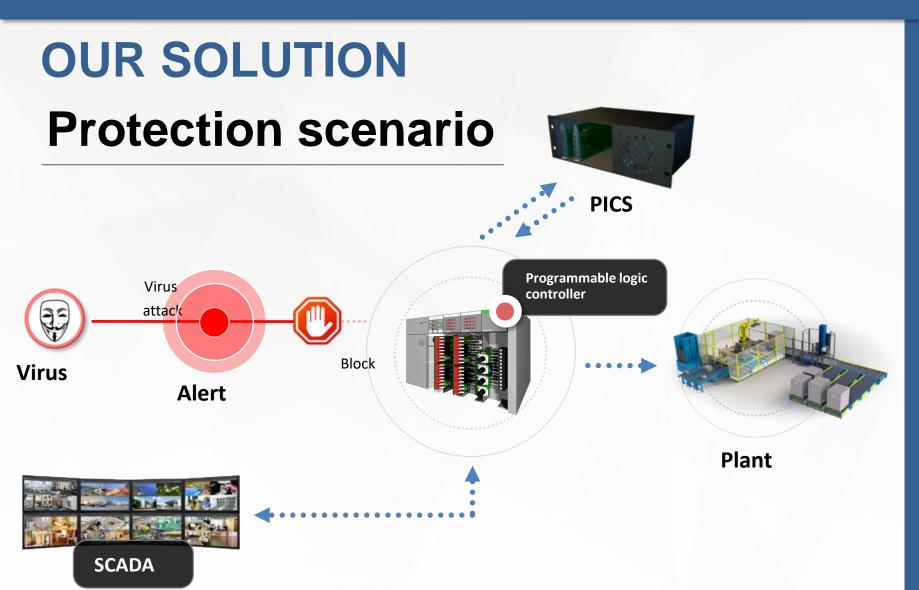
Consequences of the attacks on the industrial control systems

- Infringement of working capacity of the key systems at the enterprise
- Technological disasters
- Data leakage

Known Worldwide attacks on the industrial control systems







PICS is the unique patented hardware/software solution and the first Intrusion Prevention System (IPS) for industrial process control systems, which detects, prevents or blocks malware in information infrastructure systems of automatic control for various production and technological processes:



Highest level SCADA, MES



Middle level PLC, HMI







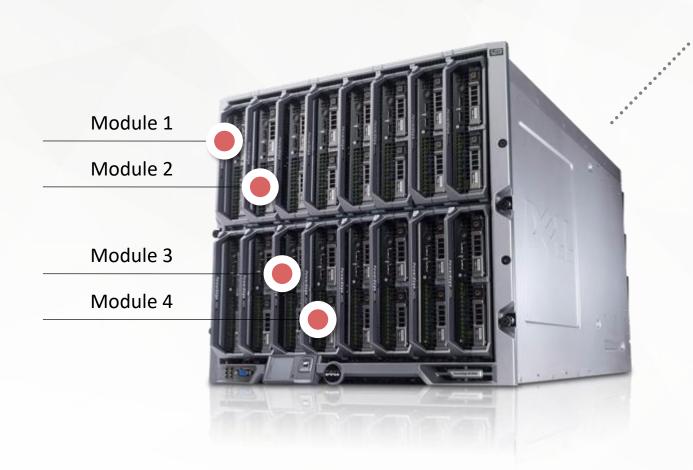








List of protection



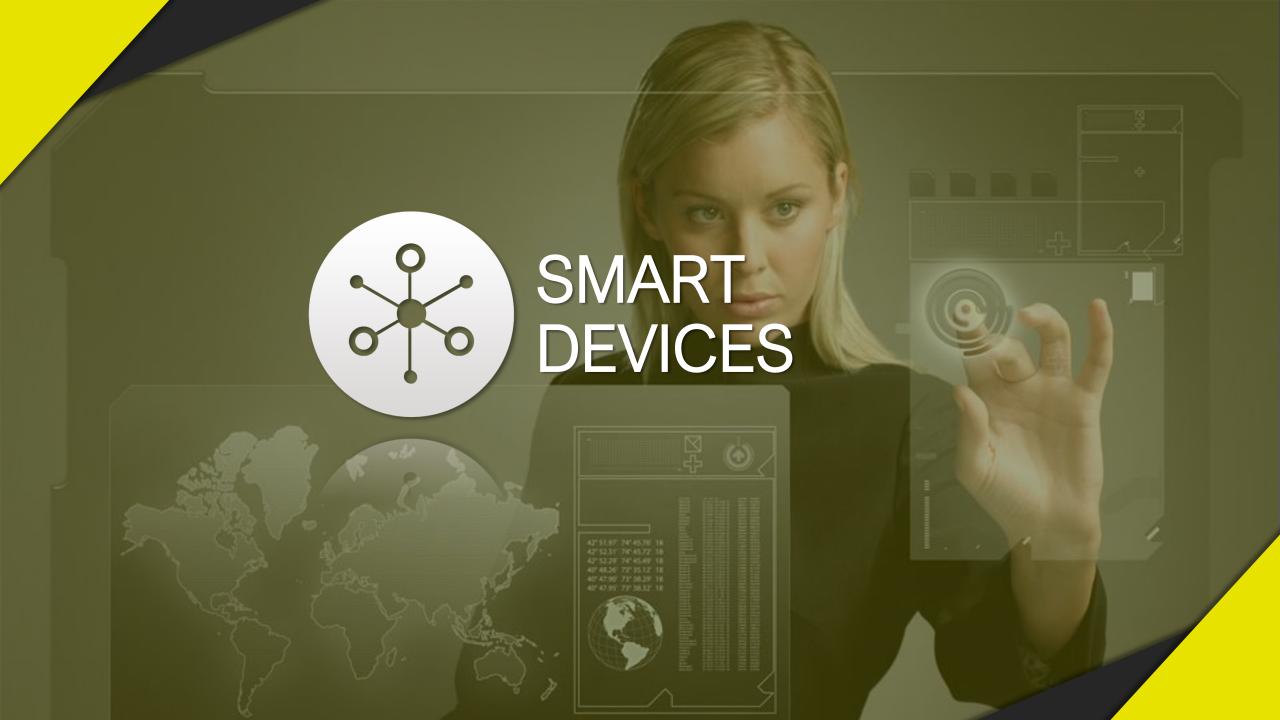
Plug-in extend system

Flexible plug-and-play easily extendable procedure

Modules:

- Module 1 Siemens controllers protection
- Module 2 ABB controllers protection
- Module 3 GE controllers protection
- Module 4 Emerson controllers protection

. . .









blackbeetrack

SYSTEM FOR CARGO TRANSPORTATION CONDITIONS VIOLATIONS PREEMPTION



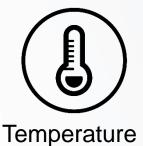






A tag is placed next to the product in the container with the goods

EVERY 5 MINUTES, THE TAG RECORDS DATA OF ENVIRONMENTAL CHANGES:







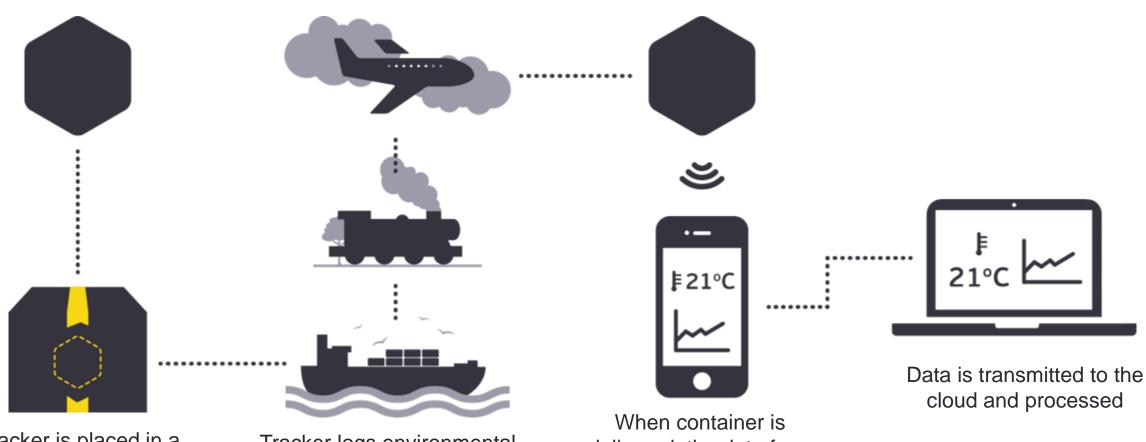






BLACKBEETRACK





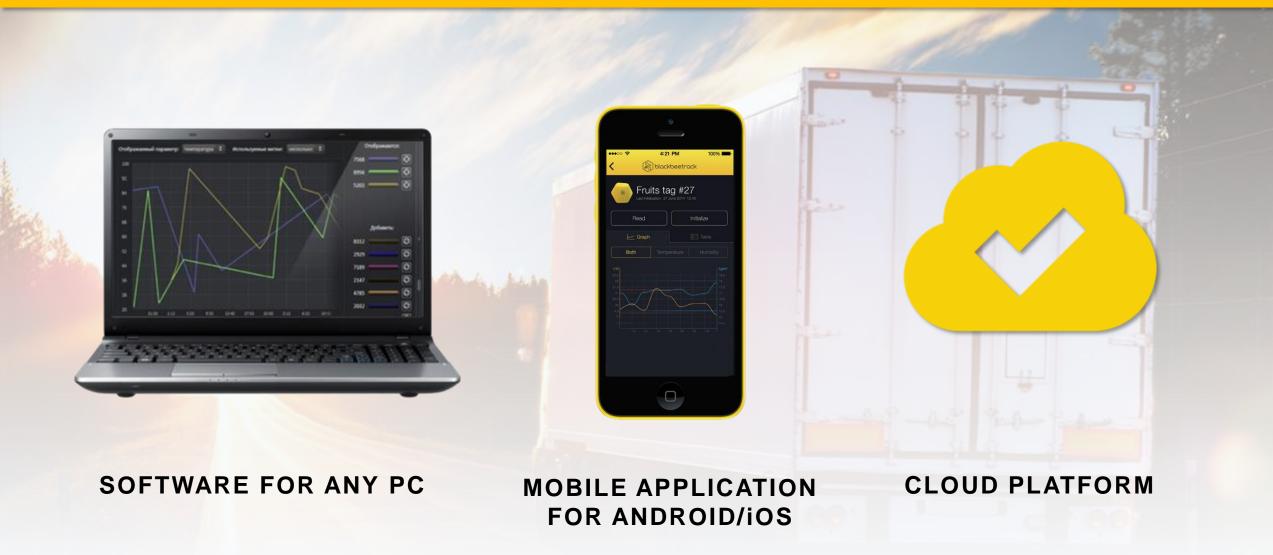
A tracker is placed in a container with the commodities and it is being dispatched

Tracker logs environmental conditions: temperature, humidity and shaking level during transportation within predefined period

When container is delivered, the data from the tracker is read via Bluetooth using a smartphone

BLACKBEETRACK





BlackBeeTrack tag and software can be used by anyone even without special training Possibility of integration with ERP-systems like SAP or warehouse counting systems

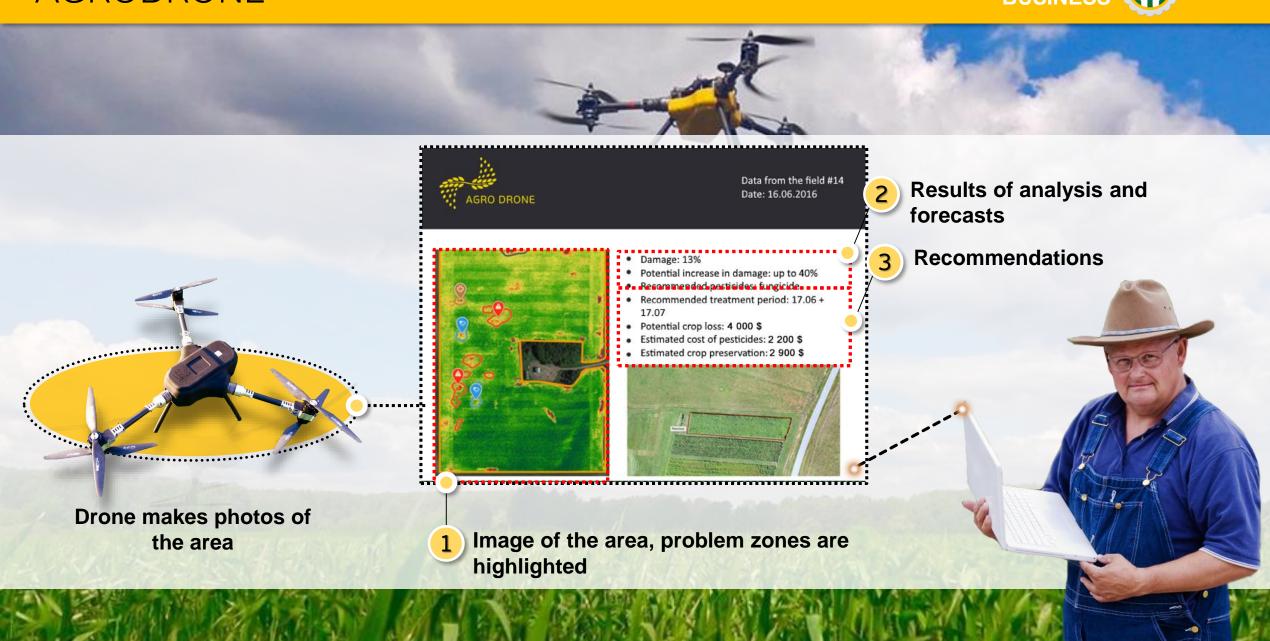
SMART DEVICES





AGRODRONE









FIELD INSPECTION RESULT



HEALTHY PLANT

DISEASED PLANT

DYING PLANT



AGRO-UBER: profit for every party



Pilot

- Finds demand for his services
- Performs the analysis of images
- Reduces barriers for agro industry market penetration



Farmer

- Gets access to all available pilots
- Gets qualitative data in a clear format
- Gets recommendations for field works

Advertiser

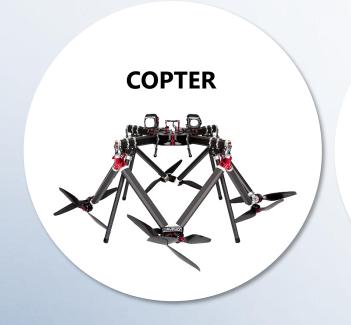
- Gets an advertising platform with a guaranteed target audience
- Advertising is shown only in case of real possibility to apply particular chemical depending on analysis result
- «Dentist recommends toothpaste» model







COMPOSITION OF THE FLYING FOX SYSTEM











Unmanned reconnaissance system







Flight time: 40 min

Extension : up to 70 min

Max speed: 43 km/h

Range: 3 km

Extension: 12 km



SPECIALBLOCK

Modules for specialized reconnaissance and EW are in development

Jammer



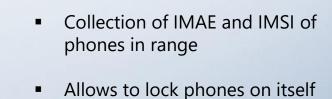








Virtual base station



- Allows to provide with selective access to communications in the region
- Allows to create an internal local network







OPERATING MODES



Manual control



2. Semi-automatic control

Takeoff/landing in manual mode, possibility of flight correction by the operator on a pre-determined route

3. Automatic

Takeoff, flight on a given route, automatic return to the takeoff point, landing

SMART DEVICES





WOW!Mirror

Innovative advertisement tool



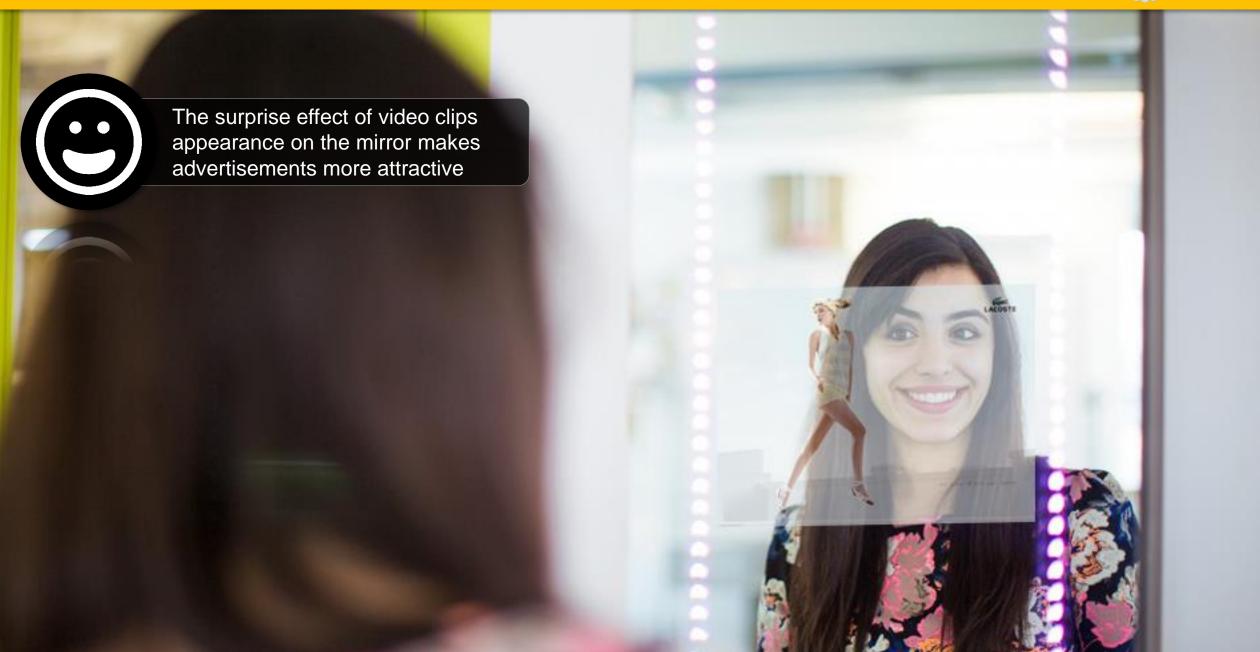
Singapore Patent claim № SG 10201702912S METHOD AND SYSTEM FOR TARGETED ADVERTISING BASED ON PERSONAL PHYSICAL CHARACTERISTICS



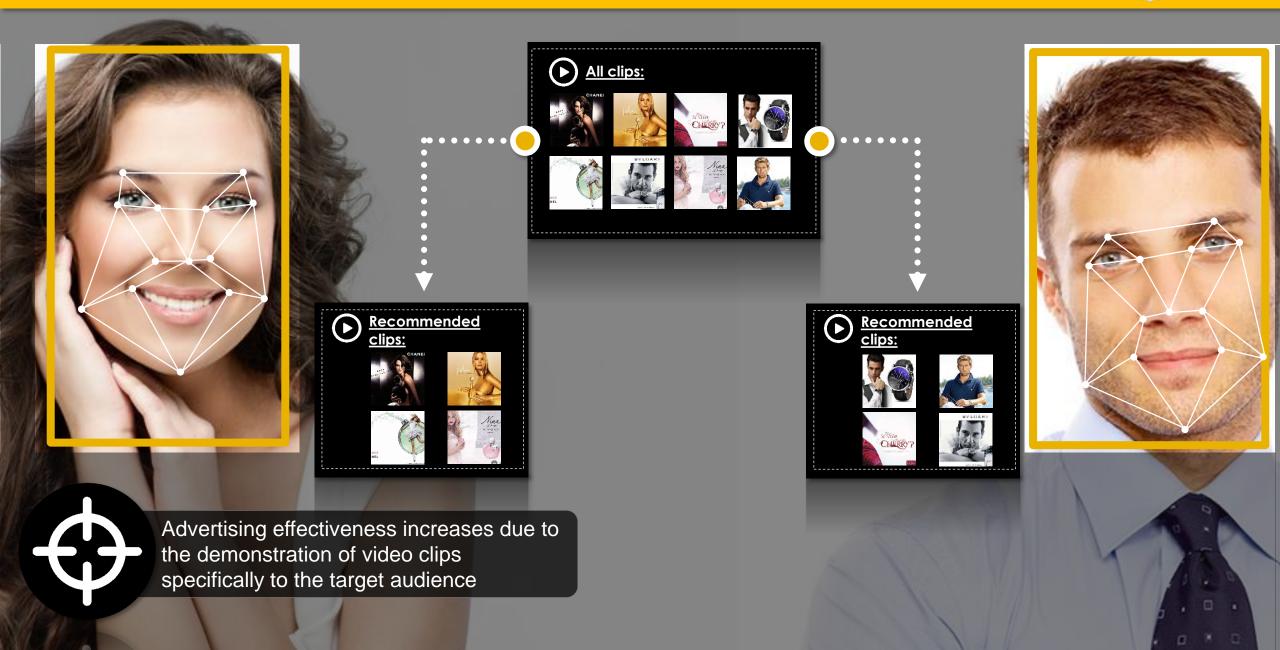














Flexible settings for advertising campaigns

- Select the media device for your advertisement campaign
- Adjust the target audience
- 3. Set the date and time when you want to advertise







WOW!Mirror















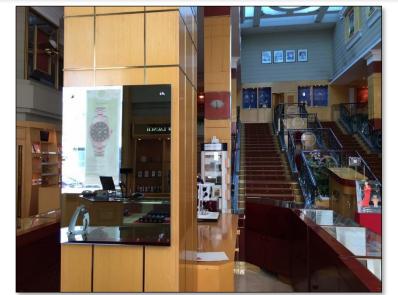
WOW!Mirror in Turkish airports







WOW!Mirror in Bahrain









WOW!Mirror in Ho Chi Minh and Hanoi, Vietnam









Online ticket booking for airline website



Client relationship management system (CRM) for airline



Terminal for registration and payment of luggage at the airport



Main facts about AeroLabs solutions:

- ✓ AeroLabs solutions are free for Airlines, we charge for service
- ✓ AeroLabs solutions increase Airlines income by 20%



Online booking module

Our proposed Online booking module allows:



Customization according to Airline requirements.



A reduction of the host Global Distribution System requests by up to 90%, significantly reducing cost



Free updates



"Calendar of prices" option





Customer Relationship Management



more than

+ 100 default tags

As far as AeroLabs system processes all online web checkin it puts all information to biggest database and process all information based on BigData principles for airline to address each client of the airline individually. It gives growth in share of loyal and profitable clients



Customer Relationship Management

Customer Relationship Management because of individual approach helps to Increase flight loads



For example CRM finds passengers, flying 3 times a year in one direction and sends them e-mails or place personal proposals in their profile.



Self-service terminal at the airport

We offer a terminal for check-in and payment of luggage at the airport that:



Check in without waiting and queues



To pay for extra baggage





There is no risks for airline in implementation of Aerolabs system at all



Implementation cost is \$ 0

For the first stage we take only 1 to 5% of traffic

After testing we increase by 20%/week

We take 100% traffic only if you are completely satisfied







PhotoN

is a software complex which allows to detect frauds of any level automatically and reliably.



Metadata analysis.

Every image has hidden parameters (metadata) which are changed (deleted) after image is edited



Deep digital analysis.

Assumes imposing different kinds of «filters» on the image which allows to identify the edited areas.



PhotoN provides reliable fraud detection

PhotoN analyses the code of images instead of applying popular recognition algorithms.



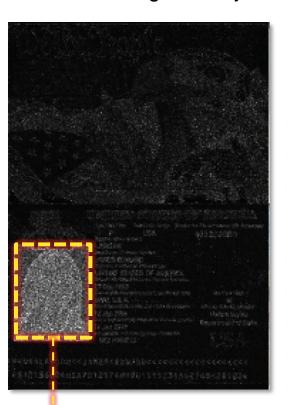


Fraud examples

Fake passport photo

AMES EDWARD NITED STATES OF AMERICA OHIO, U.S.A. United States 1 Jan 2019 P<USALALSON<<JAMES<EDWARD<<<<<<<< 4512136004USA7012174M1901115231642363<281034

The result of digital analysis



Fake document scan

The result of digital analysis

