



**SABIGLOBAL**

**WHITE PAPER**

**SABIGLOBAL**

**SAFETY FIRST**

System of Adaptive Biometric  
Identification (SABI)

2018

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# INTRODUCTION

Any development, application of innovations creates information, which is the main value and requires protection. Both corporate and private information require protection.

We constantly face protection of information – fingerprint scanners, iris scanners, facial recognition systems, complex methods, passwords, logins, bracelets, codes, access cards, and terminals. However, it is an extremely short list of technologies used today. In fact, it is much longer. Such methods are often incompatible with each other. They can be counterfeited. And the range of prices for them is extremely wide. Each object needs its own protection.

A person should remember all logins, passwords and apply various methods of information protection. In the context of fast pace of life valuable time is spent on authentication processes that require human participation, memorization and entering of authentication information, replacement and restoration of lost authentication hardware. It is inconvenient, uncomfortable and time-consuming.

We offer a universal system of identification and authentication. It is universal and can be used in various areas. It is autonomous and can work locally. The system uses the technology that is based on a unique electromagnetic imprint of a person and analysis of their nervous and cardiovascular systems and cell structure by using a non-contact probing low-intensity SHF and EHF signals. This technology is called SABl (System of Adaptive Biometric Identification).

SABl technology presupposes provision of a continuous access to a secure system, when the user's logging in to the area covered by a SABl module starts the authentication and authentication process allowing the protected system to securely authorize the user, and the user's logging out the area means that the system must interrupt authorization. The module from time to time performs the user authentication process and sends control signals to the protected system about changes in the user status.

SABl technology will be the basis for a system consisting of several products aimed at solving various tasks in the field of information security and secure identification and authentication:

- \* **SABl-auth authentication module** that allows implementing the procedure of safe logging in to various systems and devices, such as smartphones, computers, homes, cars, etc.

- \* **SABl-net distributed authentication network** based on the blockchain technology, which represents reliable secure authentication of users registered in the network anywhere in the world; it will become a global database for the authentication of most services and can be a universal ID, if identity verification is necessary.

- \* **SABl-storage external memory** – a SABl hard drive with biometric identification and

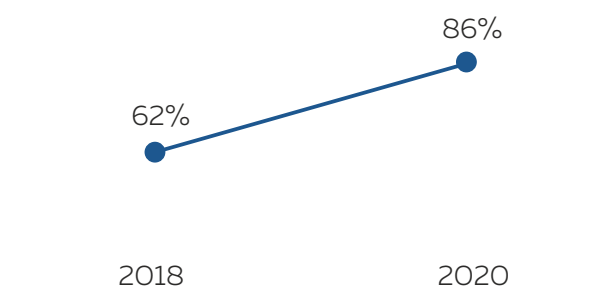
# INTERNATIONAL MARKET OF BIOMETRIC IDENTIFICATION MEANS

Biometric identification and authentication is an important component of information security. Identification and authentication ensure access control and management. It is one of the fast-growing areas of technology, which is now being introduced into the banking business, the sector of mobile technologies and systems, medicine, police, education and other spheres. Last few years the market was filled with means that allow identifying a person based on various biometric indicators, for example, the facial shape, fingerprints, retina or other biological factors.

## Biometrics helps to create a safe and convenient world!

According to Wise Guy Reports ("Global Biometric Systems Market Research and Forecast, 2018–2023"), Research and Markets ("Global Biometrics Market Forecasts Report 2017–2025") etc., biometrics will be implemented in 86% of companies by 2020. 62% companies have already implemented this method of authentication, 24% will come to it by 2020.

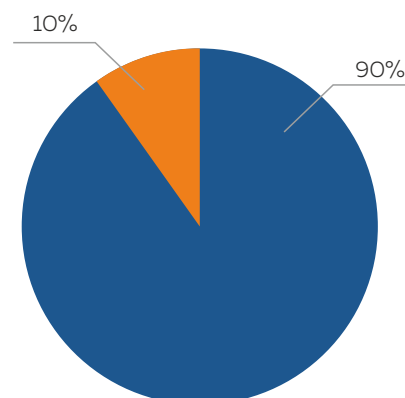
Increase in biometrics application by companies

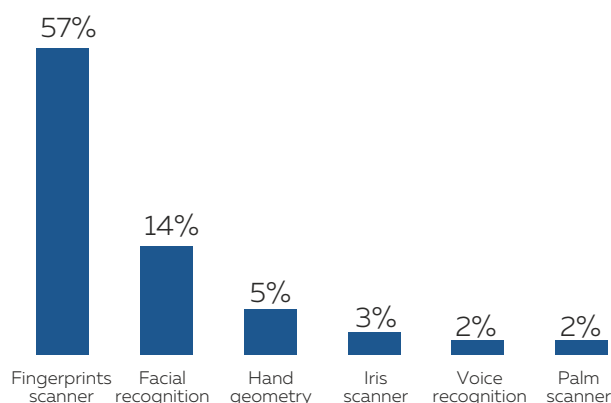


Respondents of an independent poll consider biometrics to be more reliable as compared to the login/password pair or PIN codes. But only 10% of respondents consider this method to be sufficient enough. The rest ones tend to the fact that there must be some additional form.

Attitude towards biometric identification systems

- Biometrics required
- Biometrics not required





According to a research conducted by Biometrics Research Group, Inc., the volume of the mobile biometrics segment around the world will amount to more than \$50 billion by 2020. Biometrics for identification and authentication will be used to unlock mobile devices, as well as arrange multi-factor authentication and instant confirmation of electronic payments, carry out online monitoring and authenticity confirmation, while the user is working in the system. The number of users of mobile phones, cold cryptocurrency wallets and computers equipped with biometric sensors increases by 20% every year, and it is projected to exceed 3 billion by 2020.

The world market of biometric solutions has reached the phase of active innovation and an increase in their use in government, law enforcement, military, and commercial sectors, rapidly integrating into the banking sector, retail industry, mobile applications, Internet products, healthcare, education, etc.

#### **Information about the markets where biometric identification is already used:**

- The volume of "smart home" solutions market reached \$200 billion.
- The volume of the smartphones market is about \$500 billion (1.5 billion pieces per year).
- The volume of the cold cryptowallets market exceeds 12 million pieces.

# MODERN METHODS OF AUTHENTICATION

At the moment a vast majority of modern technologies are susceptible to hacking, data diddling and counterfeiting.

Let's compare modern authentication methods.

## Authentication methods can be divided into three categories:

- Password - authentication using information that the user knows.
- Authentication device - authentication using the device that the user has.
- Biometrics - authentication using a special physical or psychological trait that the user has.

Biometrics is the simplest method of authentication from the user's point of view. There is no need to remember the password or carry an authentication device with you. But, on the other hand, biometrics is the most expensive and complex authentication method. The choice of the authentication method depends on the properties and characteristics of a particular system.

## Comparative analysis of authentication methods:

Name	Advantages	Disadvantages
Password	Ease of use	Can be lost or stolen. Mandatory procedure of data entry
Authentication device (key)	Ease of use	Can be lost or stolen. Mandatory procedure of data entry
Fingerprint	High accuracy of authentication. Reliability	The biometric characteristic can be lost or damaged. Can be substituted. Mandatory procedure of data entry
DNA	High accuracy of authentication. Reliability. Optional procedure of data entry	Complex procedure of analysis. Complex procedure of data entry
Voice	Ease of use. Ease of data collection	Can be substituted. Mandatory procedure of data entry
Iris	The highest accuracy	Can be substituted. Mandatory procedure of data entry
Hand geometry	Devices are used in cases when it is difficult to apply finger scanners due to contamination or injuries	The biological repeatability of hand geometry is about 2%. Can be substituted. Mandatory procedure of data entry



Facial thermogram	Systems allow identifying a person at a distance of up to tens of meters	High percentage of errors.
Facial recognition	Allow identifying a person at a distance from half a meter to a few tens of meters using "regular" means (web camera, phone camera, etc.)	Can be substituted

It is seen from the table that most modern technologies are susceptible to hacking, data diddling and counterfeiting. For example, computer security experts from the University of Michigan (USA) in 2015 cracked a fingerprint scanner, which is a component of many modern smartphones, using a conventional inkjet printer. According to the data collected in autumn 2016, Kaspersky Lab found at least 12 vendors on the black market offering skimmers that can steal fingerprint data, and at least three researchers working on technologies that can crack systems of wrist vein pattern and iris recognition.

However, the abovementioned methods of biometric identification have a number of disadvantages – from a possibility to bypass the authentication algorithm to a complete impossibility of authentication in case of changes in the relevant parts of the human body.

For example, a person can look like the person who passes identification. The most perfect facial scanner cannot distinguish twins, cannot distinguish a person in a cap or hat from the same hatless person. In case of retina scanning, the person will fail to pass verification if the lens was exchanged or the corneal was replaced. A finger can be lost. Accordingly, the efficiency of biometrics use is reduced to the provision of identification based on the current state of human biometrics.

About 75 million cases of biometric identification are registered every year throughout the world; the accuracy reaches about 80%.

**The main objective of world trends is technical improvement of biometric access means. Therefore, the developers had to solve the task in two directions:**

- Eliminate the need for direct user interaction with the technology. Make the authentication process automatic and ensure continuous confirmation of the user's presence in the system during operation, i.e. continuous authentication.
- Create a technology focused on its use in various areas and based on unique personal data of the user, which will increase the level of security, reduce the risk of forgery to a minimum and improve the accuracy of user recognition by the system.

# SABI TECHNOLOGY

In the period from 2006 to 2017, in the course of research of the impact of weak electromagnetic fields on human body resources specialists of future company SABIGLOBAL discovered a few electromagnetic radiation (EMR) ranges that give an unusual but well-repeated effect. The essence of the effect is in the combined radiation of frequencies in the SHF and EHF ranges that can penetrate into the tissues of the human body. The discovered effect made it possible to create deeply penetrating probing signals and, based on the analysis of the echo reflected from the body, get a unique electromagnetic profile of a biological object bearing the imprint of electrophysiological, cell and molecular processes occurring in living tissues. When the scanning device interacts with a bioobject, the parameters of the probing signal are adapted to the physiological processes of a particular body to achieve the highest informational value of the reflected signal. So, taking into account the fact that the body also changes its response to time-varying electromagnetic stimuli, which are probing signals, the scanning process turns into a process of mutual adaptation of the external device and the body. This process can take from a few hundred milliseconds to ten seconds. Then the process is stabilized. A self-learning neural network determines the uniqueness in the parameters of such a mutual adaptation process. I.e. the nature of the mutual adaptation process, which is unique for each body, is of importance, but not the electromagnetic profile itself. It's like a kind of electromagnetic handwriting.

The model of authentication system functioning is shown in Fig. 1.

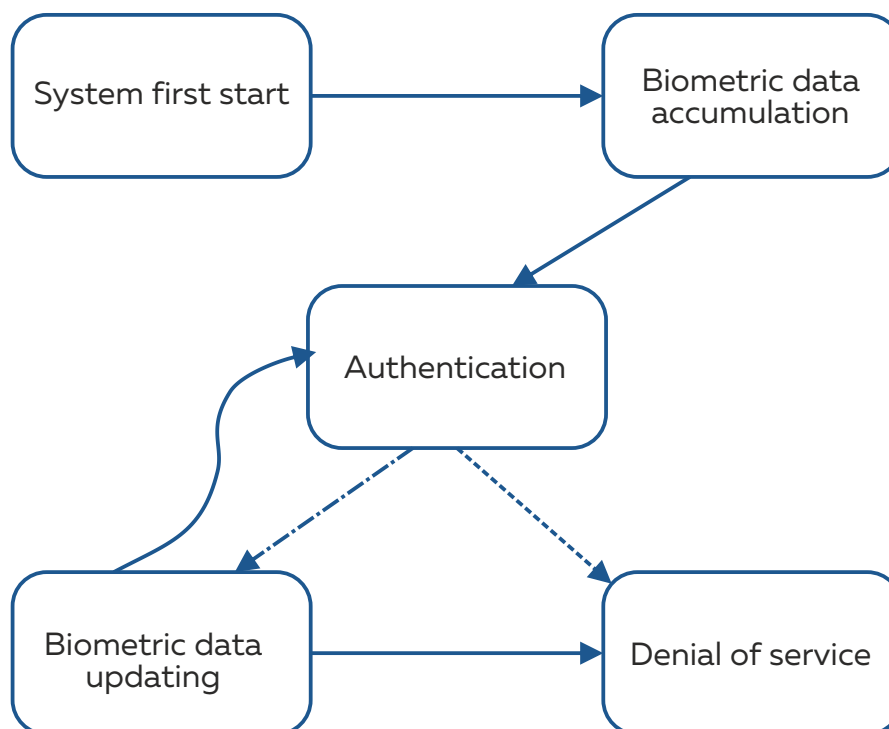


Fig. 1.



**The system has the following properties:**

- Continuous accumulation of biometric data.
- Continuous authentication.
- Continuous updating of biometric data.
- Statistic data continuous maintenance.

The authentication procedure in this system is independent of the user's actions, but remains reliable and resistant to attacks. These factors play a decisive role in choosing the authentication method for this system.

The biometric technology is applied in the system under consideration as a method of authentication. It uses adaptive radio detection and location and a simultaneous analysis of the electromagnetic field of the SHF and EHF band reflected from the user.

**SABI technology differs from other technologies by the following properties:**

- The electromagnetic profile of the body (used for identification) cannot be lost during life.
- The electromagnetic profile of the body cannot be faked due to the features of scanning process implementation (know how).
- Authentication is continuous while the user is within the system scanning range.
- SABI technology is safe for the user, since the frequency range of the scanning radiation is in the range permitted for humans, and its impact is less than the impact of smartphones, WiFi networks and other consumer electronics.

Identification and authentication is carried out contactlessly and automatically, without additional efforts on the part of the user.

# KEY PRODUCT VALUES (MVP)

**Simplicity and ease of use.** The main product consists of a single hardware module that can be used both individually and in complex corporate and international systems. The authentication process does not require any actions from the user, which eliminates user errors.

**Independence.** No need for permanent connection to the servers to carry out the authentication process. Other software components of the protected system can request information from the module via an encrypted channel. The authentication module constantly adjusts its user presentation to adjust to the characteristics of a particular person. The proposed module can fully meet the needs of an organization or company in all areas where user identification and authentication is required, for example, access to workplaces, rooms, devices, data on media, etc.

**Continuous authentication and security.** With the development of information technologies it becomes important not only to authenticate the user when logging in, but also monitor their authenticity while working in the system, in order to eliminate unauthorized access on behalf of an authenticated user. SABI technology is the only system in the world that automatically monitors the authenticity of the user while working in the system without requiring any action from the user. The protected system receives from the SABI module all the necessary information about the user to make a decision about authorization.

**Reduction in the timing parameters.** The authentication module does not force the user to enter data – the very presence of the user within the range of the module is already submission of identification data, which reduces user errors to a minimum. The process of identification is out of sight of the user, and the user does not participate in it directly. In addition, the user has no information about the process and its technical implementation, which increases the satisfaction with the operation of the system, in which SABI technology is applied.

**Growth and scalability.** Due to the fact that more and more products are switching to remote maintenance, technologies that would provide a reliable method of remote authentication are required. The login and password can be stolen, as well as the access token. Modern biometrics can be too expensive and inconvenient for a remote workplace; in addition, it may happen that it does not provide continuous authentication. This trend is natural and scalable, and hence the area of its application will continue to grow for a long time. SABI technology will allow providing remote access to corporate resources with no need to bother about security. Such solutions are easily scalable, allow moving employees, creating and disbanding user groups, flexibly managing places of possible authentication of employees with no need for explicit actions on the part of the latter, if they are registered in the system. SABI technology ensures that exactly the employee who is expected enters the system remotely, and exactly from the place where they should be present.

**High security.** The use of the technology is based on natural indicators, which do not require memorization of information and cannot be lost. The electromagnetic profile of the body cannot be lost during life. The process of identification and authentication using SABI technology cannot be falsified due to the peculiarities of its implementation. This means that this kind of biometrics is the most natural and secure for identification and authentication of a person.

# PRODUCT (MVP)

It is planned to develop three main products SABIGLOBAL based on SABI technology.

## **SABI-auth**

A built-in or external module and software for its maintenance ensure the process of user identification and authentication. It is designed for b2b corporate market. Engineering and software solution Sabi-auth is developed for each market area. Sabi-auth module is the basis for distributed authentication blockchain network Sabi-net.

## **Sabi-net**

We offer a global distributed blockchain-based authentication network based on Sabi-auth technology. This solution will allow users registered in the network to receive various services that require authentication.

## **SABI-storage**

SABI hard drive with biometric identification and authentication ensuring safe storage of data, which can be extracted only in the presence of the user owning the data. The product is intended for b2c market.

These products will be considered in detail below.

## **SABI-AUTH**

Sabi-auth technology ensures the process of user identification and authentication. The technology is implemented in the form of a built-in or external module and a set of software for its maintenance. Sabi-auth module (authentication module) identifies and authenticates the user by a unique patented algorithm. The biometric technology is used as the basis for the authentication procedure. It is based on the analysis of the electromagnetic field of the SHF and EHF band reflected from the user.

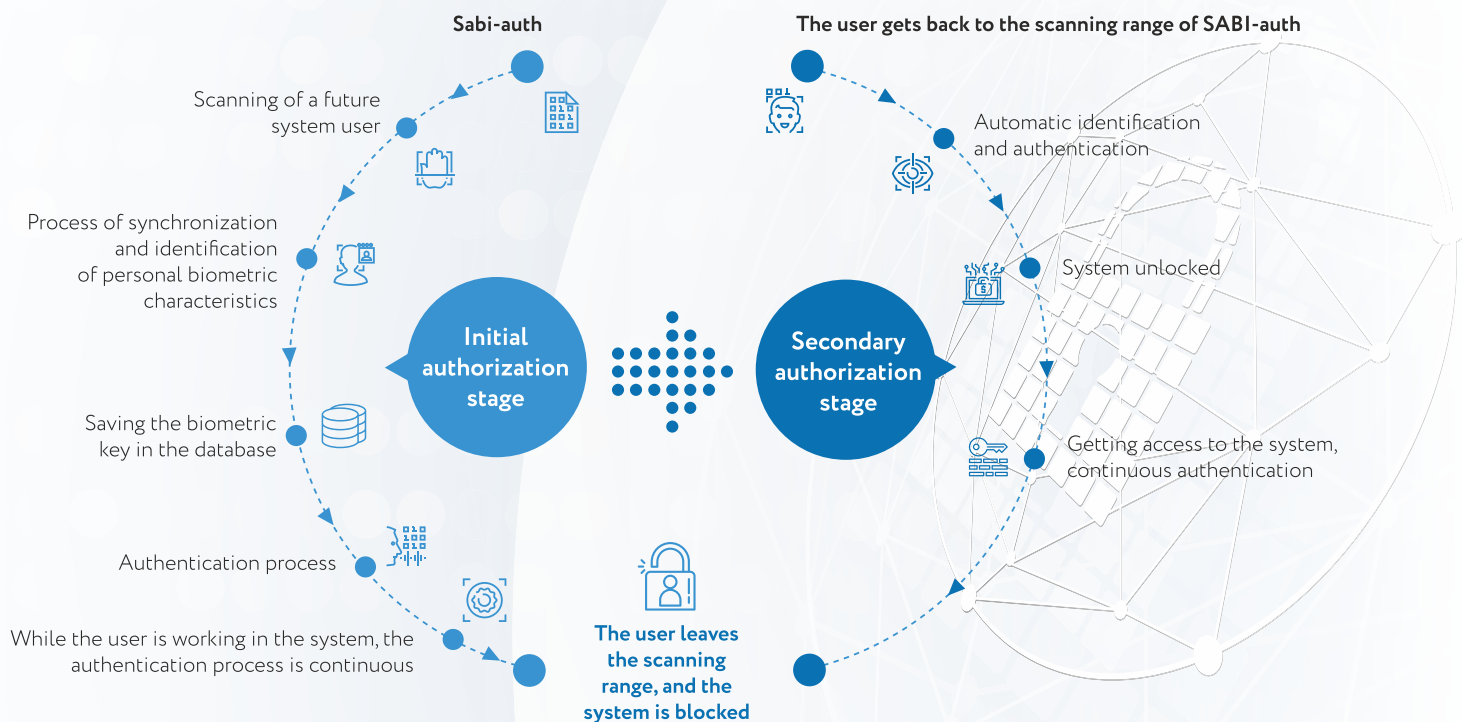
The authentication module is trained to recognize users and store the information necessary for their authentication. The module is trained to use the program accompanying it. Developers of systems that require user authentication embed the module in the system or connect it via external interfaces. Communication with the module at the program level occurs through an encrypted communication channel.

The system software working with the module receives from the module the fact of user authentication and their identifier, which is saved by the system during module training, after that the system software solves issues of user authorization. The authentication module can

near the module and reporting the results of checks to the system software.

The authentication process required the module and the user for whom the module was trained. Authentication technology SABI-auth eliminates any possibility to bypass the authentication procedure by counterfeiting the electromagnetic response, and the encrypted channel for module communication with the system software eliminates any possibility of compromising the module in the chain of the system authorization process. The module can be embedded in information systems, automotive systems, smart home systems, and systems of access control to places, premises and containers. The authentication module can have an autonomous power supply source and ensure authentication data erasure, if a special switch is used, which will allow preventing the user from being forced to provide access. For ease of administration the module is equipped with radio frequency control, which allows deactivating the module remotely, if it is necessary to restrict access to compromised users.

## Scheme of SABI-auth operation



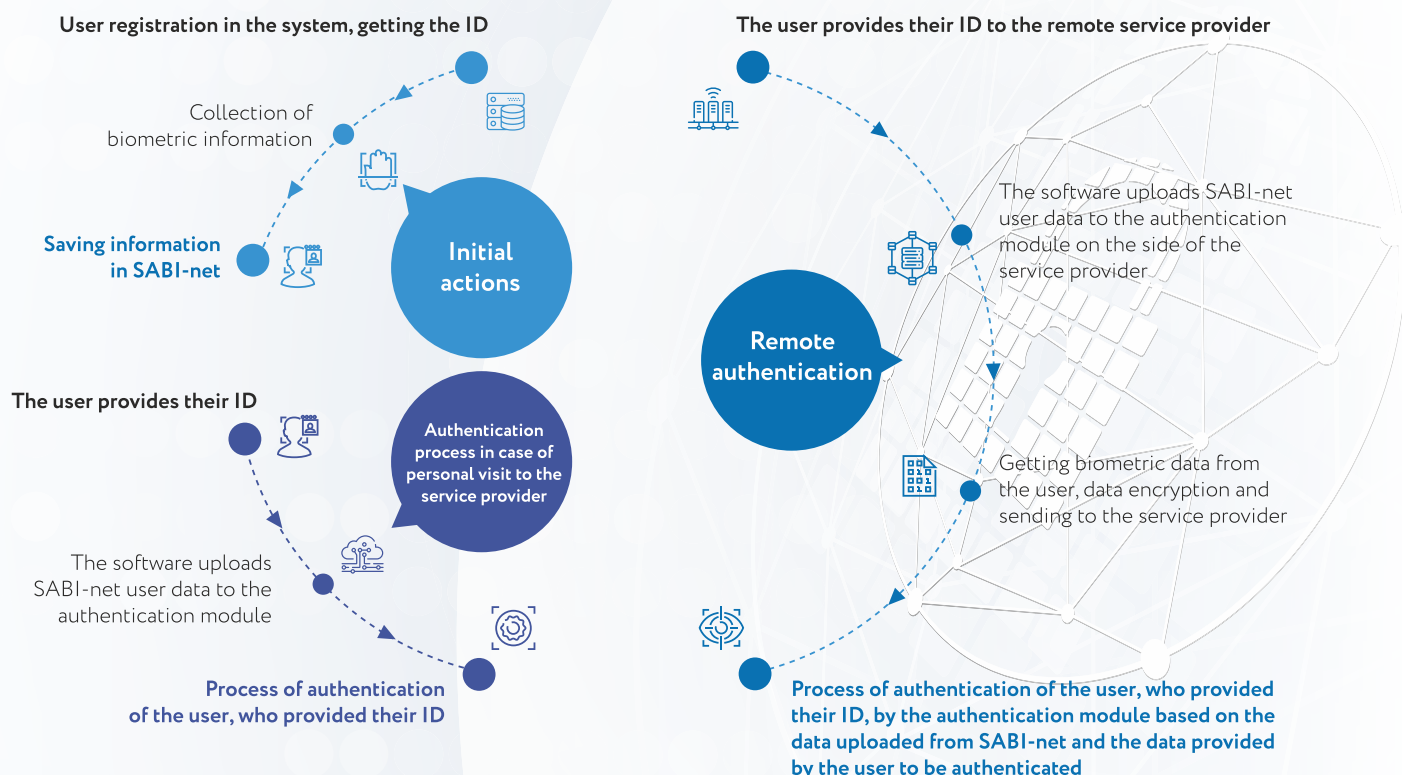
## SABI-NET

We offer a global distributed blockchain-based authentication network based on Sabi-auth technology. This solution will allow users registered in the network to receive various services that require authentication. Authentication is ensured upon provision of the user ID issued by the network to Sabi-auth module, which downloads data from Sabi-net network required for the authentication process by the user ID.

Sabi-net ensures secure storage of user data required for reliable authentication and also enables the service provider to authenticate the person who presented the ID. User authentication by their ID can be carried out anywhere in the world, where there is access to the Internet.

Sabi-net network authenticates the user preserving their anonymity, because no identity documents are required for registration and authentication, and the information stored in the network does not contain any data on the identity of the user and is encrypted. Only the authentication act through Sabi-auth will confirm that the user is compliant with the presented ID.

### Scheme of SABI-net operation



To register with Sabi-net, the user uses a Sabi-auth device, connects to Sabi-net network, and uploads the information necessary to authenticate them in an encrypted form. The network returns the user's ID to the user.

The user can present their ID to a legal or physical person, and the latter one, in turn, can use Sabi-auth module and the supplied software to authenticate the user.

The program uses the presented ID to download the necessary information from the blockchain-based network (Sabi-net), after that Sabi-auth module performs the authentication procedure.

Joint operation of Sabi-auth and the blockchain-based network eliminates substitution of the user's authentication information and, as a consequence, makes it impossible for the attacker to act as the user with the desired ID.

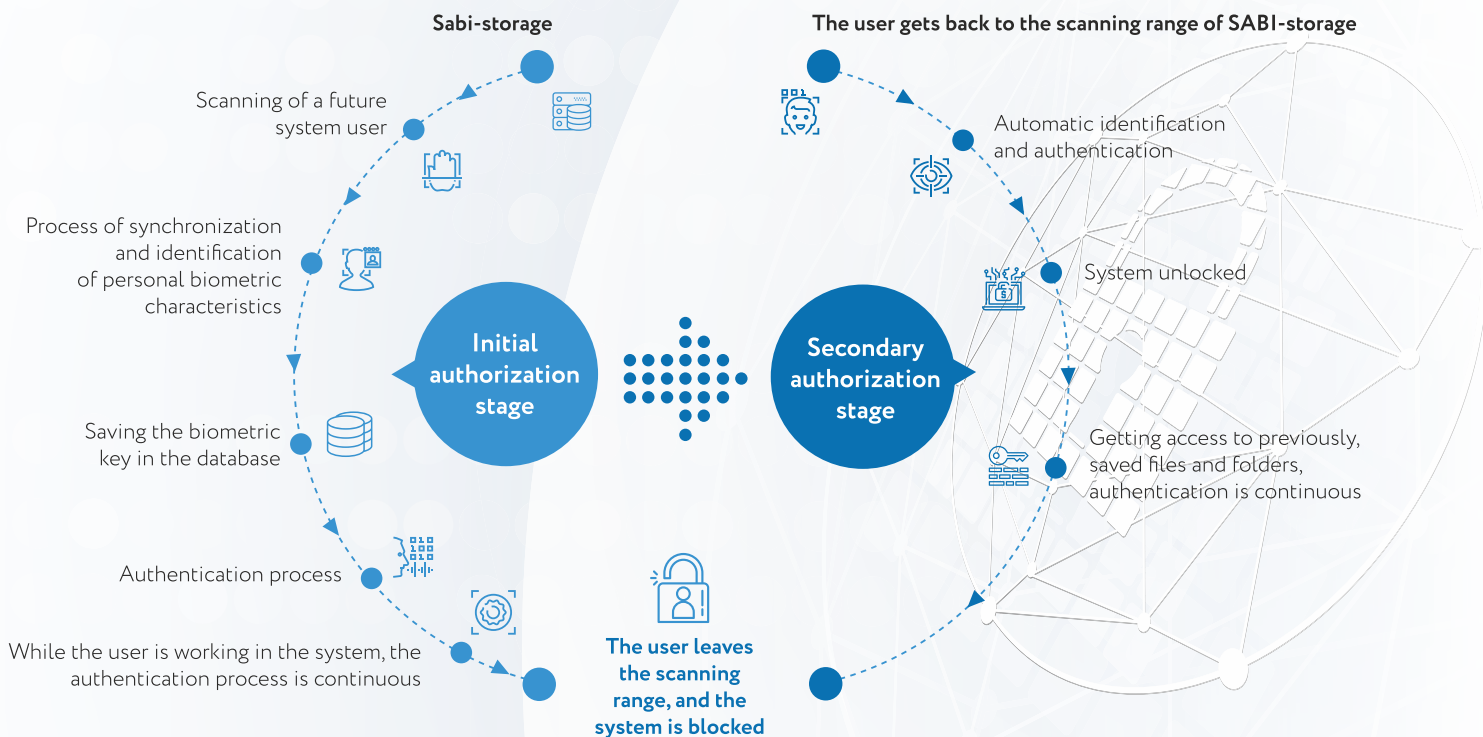
In the future SABI project can replace all paper documents and identification markers and create a basis for free trade based on smart contracts taking into account SABI authentication.

## SABI-STORAGE

Sabi-storage technology ensures safe storage of data, which can be extracted only in the presence of the user owning the data. Information written to the drive is encrypted by hardware streaming encryption algorithms during writing. The encryption key is stored in the drive controller and cannot be retrieved from there. The controller identifies and authenticates the user by a unique patented algorithm. The controller sends data about the authenticated user to the authorization module, which decides on granting access rights to the data.

The biometric technology is used as the basis for the authentication procedure. It is based on the analysis of the electromagnetic field of the SHF and EHF band reflected from the user. The controller is trained to recognize users and store the information necessary for their authentication.

### Scheme of SABI-storage operation





The procedure of hardware authentication built into the drive controller controls access to information – a non-authenticated user cannot get access to the drive. The user who wrote the information shall be present for its correct reading. The use of a unique biometric electromagnetic identification technology ensures reliable protection of the user data from unauthorized reading. Even extraction of the drive or memory chips will not bring positive results to the attacker, because the information is encrypted with a key stored in the inaccessible memory, and the decryption process is possible only in the presence of the user. An access password can be used as an additional security measure. The drive will not identify the user using Sabi technology without it.

Individual solutions can provide for an external authentication module (Sabi-auth) that is trained to authenticate users who are allowed to get access to the storage device, which will ensure additional protection of information and make it impossible to force the user to read data, if the authentication module is not available.

Sabi-storage drives can work in multi-user and single-user modes, and also allow the authenticated user to destroy information on the drive.

# COMPETITOR ANALYSIS

The technology does not have direct competitors. In terms of technology it represents a different level, and it is ahead of all known developments for 5-10 years. Nobody has learned to work with the cell structure, nervous and cardiovascular systems as the information environment.

The proposed access technology competes with other systems that are analyzed in the table.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Control software (logins, passwords, prompts)	Access IS ACTatek Acuant Aditya Infotech Ltd. Advance Access ADVISION Aeroturn USA Allday Time Systems Amadale Global Systems AmpleTrails Anviz Global AnyVision APIARY Applied Recognition Aprilent Systems Aratek Argus Global ATIEMPO Aurora Computer Services Ltd Authentik Solutions AuthenTrend autonomous_ID B-Secur Baztech Incorporated Behaviosec Beyond CCTV & Bio Bio-Metrica LLC Biocertification BIODIT GLOBAL TECHNOLOGY Ltd. BioEnable Technology Pvt Ltd BioGrp TECHNOLOGY BioLink Solutions Biometric & IT Solutions BioMetric Solution.com Biometrics Technologies Biometricvox	38	It does not require memorization of complex combinations. There is no need to store in text form. There is no risk of accidental copying or paper version and its loss with login parameters. No user participation is required when getting access to the equipment or operating procedure. Less time is required for the operation with the authentication module. It allows arranging rooms and individual spaces, which determine the level of access for each user.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Control software (logins, passwords, prompts)	BioScan Tek BioSec Group Ltd. BioSITE Systems Ltd Biosmart s.r.o. Biowatch SA Bloom solutions Private Limited Blue Lock Capture Innovations Capture Innovative Solutions Card Tech CardLogix Central Security Group Kansas City Certify Global Chongqing Huifan Technology Co., Ltd. CIVINTEC Global Computer Time Systems CPqD Cuckoo Tech Customer Clever D3-Digital Data Dimension Datascrip DeepEyes Defense Strategies Institute Delaney Biometrics Digital Barriers Digitus Biometrics, Inc. E & M Technologies Easy Clocking Eco Time and Attendance Emsphere Technologies Enacomm Entrust Datacard ePortID eSecurityToGo LLC esync security solutions EyeLock Inc. Eyenetwatch.com Face Forensics Inc. FacePhi FaceTec, Inc. Fingerprint Cards Fingertec USA FotoNation Limited FST Biometrics Fujian Joyusing Technology Co., Ltd. Fujitsu Gemalto	38	It does not require memorization of complex combinations. There is no need to store in text form. There is no risk of accidental copying or paper version and its loss with login parameters. No user participation is required when getting access to the equipment or operating procedure. Less time is required for the operation with the authentication module. It allows arranging rooms and individual spaces, which determine the level of access for each user.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Control software (logins, passwords, prompts)	Genetec Get2world Systems Guardforce Herta Security Heyce Technologies HID Global Corporation Hitachi America Human Recognition Systems iBeta Quality Assurance ICIL Technologies (Pvt) Ltd. Ideal Innovations, Inc. Identita Inc. IdentityTech Solutions America IDEX ASA IDspire ievo Ltd Imprivata Incept Infinity Optics Solutions Innercalc Insecsolutions Interoptic Networks Inttelix Security Solutions Pvt. Ltd. InventIndia Innovations Pvt. Ltd. INVIXIUM Ipsidy iPulse Systems, Inc Iris ID IrisGuard Inc. ITPS-SA JMAC Supply Kaba Keesing Technologies Key Control Systems Kimaldi Electronics LG IrisAccess Liopa Live Register Ltd Logiscenter London Clocking Systems Mantra Softech India pvt ltd Matrix Access Control MeReal Biometrics Mia Teknoloji Micro Fusion Technologies Pvt. Ltd. Microlatch Mitobi Integrated	38	It does not require memorization of complex combinations. There is no need to store in text form. There is no risk of accidental copying or paper version and its loss with login parameters. No user participation is required when getting access to the equipment or operating procedure. Less time is required for the operation with the authentication module. It allows arranging rooms and individual spaces, which determine the level of access for each user.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Control software (logins, passwords, prompts)	Services Monkeetech, LLC Natural Security Neokoros TI Ltda Net-X Solutions Ltd NeuBio Technology Corporation NEXT Biometrics Group NITGEN Nuance Communications Nymi onefacein Analytics Research Ltd Plurilock Security Solutions Inc PRADOTEC Precise Biometrics Princeton Identity Proware HS SA PSP Security Co. Ltd. PT. Witama Sakti Teknologi Raviraj Technologies Rayabin Recogtech B.V. RITCHIE TECHNOCRATS PVT LTD S.I.C. Biometrics Inc Sabre Products Samsung SDS SB Telecoms & Devices Ltd secunet SecurAX Technologies FZCO Secure Logistics Secureteck Services Limited secureye Security Direct Securitykart SekureID SekureID Corp. Semlex Group SensibleVision Shenzhen CAMA Biometrics Co.,Ltd SHS Consultores SIASA Sierra Workforce Solutions SITA Smart Attendance System	38	It does not require memorization of complex combinations. There is no need to store in text form. There is no risk of accidental copying or paper version and its loss with login parameters. No user participation is required when getting access to the equipment or operating procedure. Less time is required for the operation with the authentication module. It allows arranging rooms and individual spaces, which determine the level of access for each user.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Control software (logins, passwords, prompts)	SmartCard America SmartMetric, Inc. SMI Softexinc Solus Sonavation SpeechPro Inc. SRI International Star Link Sthaler STI Card StoneLock Tactilis Pte Ltd Tech Resources International Inc. Techshino Telos ID Tensor TeReSol Private Limited TEXONIC INSTRUMENTS TIME & DATA SECURITY Total IT Touch Biometrix Ltd Touché Touchless Biometric Systems Trac-Tech (Pty) Ltd TREBAX BIOMETRICS TSSI Systems Limited Tx Systems Inc. TypingDNA UINT UNISOL International UNITED BIOMETRICS Valor Wave Group(China) Co., Ltd Vaplica Group VeriCool Ltd VerifyMe Inc. Verint Systems Inc. VIRDI Vision-Box Voice Security Systems Inc. VoicePin Warwick Warp Ltd Watrix Technology Wipaq Trading World Compliance Technologies (WCT) WoVo Identity Solutions, LLC WYSE Biometrics System Pvt. Ltd. YITU Technology Yoti	38	It does not require memorization of complex combinations. There is no need to store in text form. There is no risk of accidental copying or paper version and its loss with login parameters. No user participation is required when getting access to the equipment or operating procedure. Less time is required for the operation with the authentication module. It allows arranging rooms and individual spaces, which determine the level of access for each user.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Tools (cards, keys, bracelets, tokens)	4Gid Access Computech Pvt Ltd ACTatek Aditya Infotech Ltd. Amadale Global Systems AmpleTrails Apace Systems APIARY Aprilent Systems Authentik Solutions AuthenTrend Axon Wireless International BiATM Bio-Metrica LLC BioEnable Technology Pvt Ltd BioLink Solutions Biometrics Technologies Capture Innovative Solutions Card Tech CardLogix Cellnetrix Certify Global CIVINTEC Global CODE Informatics Corvus Integration, Inc. Easy Clocking Elan Microelectronics Corp. eSecurityToGo LLC Face Technologies FlexEnable Gemalto GET Tech Solutions Pvt. Ltd. Hitachi America ICIL Technologies (Pvt) Ltd. ID Technology Partners, Inc. Ideal Innovations, Inc. Identita Inc. IDEX ASA IDTP iPulse Systems, Inc IRIS Corporation Berhad Jinco Universal Kaba Kimaldi Electronics Live Register Ltd Mantra Softech India pvt ltd	120	There is no risk of physical protection means cloning. There is no way to transfer the access key to another person. It does not require coordination of access conditions for different versions of software or hardware. Less time is required for authentication. Access control is almost the same in both technologies. SABI is a more flexible technology, it allows flexibly managing the authentication module, the list of authenticated users, etc.



Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Tools (cards, keys, bracelets, tokens)	Meniko RMS MeReal Biometrics Mia Teknoloji Micro Fusion Technologies Pvt. Ltd. Mobile Authentication Technologies MOSA Technology Solutions, LLC NADRA Natural Security Net1 UEPS Technologies, Inc Orbis System PRADOTEC PRM Group Proware HS SA Radium Box Raviraj Technologies Rayabin S.I.C. Biometrics Inc SecurAX Technologies FZCO Secure Logistics SekureID Corp. Semlex Group SIASA Smart Attendance System SmartCard America SMARTCard Market SmartMetric, Inc. Star Link STI Card SuperCom Ltd. Suprema Inc. Synaptics Tactilis Pte Ltd TIME & DATA SECURITY Time Labs Trac-Tech (Pty) Ltd TREBAX BIOMETRICS UINT Unisys Valid USA Verificados S de R.L de C.V. Voice Security Systems Inc. World Compliance Technologies (WCT) WYSE Biometrics System Pvt. Ltd. Zvetco Biometrics LLC Zwipe	120	<p>There is no risk of physical protection means cloning.</p> <p>There is no way to transfer the access key to another person.</p> <p>It does not require coordination of access conditions for different versions of software or hardware.</p> <p>Less time is required for authentication.</p> <p>Access control is almost the same in both technologies.</p> <p>SABI is a more flexible technology, it allows flexibly managing the authentication module, the list of authenticated users, etc.</p>

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Bioidentification models (retina, face, etc.)	4Gid Aditya Infotech Ltd. Advanced Biometrics Inc. Aeroturn USA Alluxa, Inc Analogics Tech India Ltd Aprilent Systems Argus Global Aware, Inc. BIO-key Bio-Metrica LLC BioEnable Technology Pvt Ltd BioGuard Biometric Identity Systems Pty Ltd BioMetric Solution.com Biometrics Technologies BNKEY Braino Services Capture Innovative Solutions CardLogix Certify Global CMITech Company, Ltd. Corvus Integration, Inc. Credence ID Crossmatch Daon (UK) Ltd E & M Technologies EyeLock Inc. Eyenetwatch.com Face Technologies FotoNation Limited Future Security Controls Guardforce Herta Security Hubino Human Recognition Systems InCadence Strategic Solutions Infinity Optics Solutions IRIS Corporation Berhad Iris ID IrisGuard Inc. IriTech, Inc. Jagstar LG IrisAccess M2SYS Mantra Softech India pvt ltd Mia Teknoloji Monkeetech, LLC	75	No risk to lose the bioidentification marker. SABI can be applied, when bioidentification markers cannot work due to incompliance with the conditions of their functioning – for example, a picture of the face will not work, if you wear a protective suit covering the face.

Technology	Companies	The volume of the world market, \$ billion	SABI advantages
Bioidentification models (retina, face, etc.)	MOSA Technology Solutions, LLC Neurotechnology Nok Nok Labs Personavera, LLC Princeton Identity PRM Group Proware HS SA Radium Box Raviraj Technologies Rayabin Secure Tech Consultancy (Pvt) Ltd Secureteck Services Limited SekureID SekureID Corp. SHS Consultores Sierra Solutions Solus SRI International Tactical Information Systems Tascent Inc. TechMax Solution Techshino Unisys Verificados S de R.L de C.V. VerifyMe Inc. World Compliance Technologies (WCT) XL-ID Solutions Zetes ZOLOZ	75	No risk to lose the bioidentification marker. SABI can be applied, when bioidentification markers cannot work due to incompliance with the conditions of their functioning – for example, a picture of the face will not work, if you wear a protective suit covering the face.

# BUSINESS STRATEGY

**SABI technology is the next step in the system of security provision, where authentication is continuous and no special user actions are required. It will improve the security system in various industries, such as:**

- Mobile technology (smartphones, tablets, laptops).
- Banking and payment sector.
- Cryptocurrencies (exchanges, cold wallets).
- Security and control systems installed at places where a lot of people pass every day (air ports, railway stations, metro).
- Systems of personal safe space (smart home, car).
- Medical sector.
- Internet trading and data storage based on the blockchain technology.

All this will be possible with the use of technical solutions developed on the basis of SABI. The strategic objective of SABIGLOBAL project is to implement engineering and software solutions for each area and market where biometric identification technologies are used.

## **Business analytics for SABI-storage (b2c) based on the analysis of the market of external hard drives with access control on the housing and hardware encryption**

The cost of the final product equipped with SABI-storage hardware is \$40-150. Retail prices will range from \$200 to \$3,000 depending on the type of media, the amount of memory and housing protection.

R&D, development of finished SABI-storage will take 8-10 months. So, SABI-storage as a finished product for batch selling will be ready in about 10-12 months (after ICO completion). The world market of hard drives amounts to 500 million pcs. per year. Every year about 50-100 million external drives are sold throughout the world.

Approximately 5-6 million encrypted drives are sold throughout the world. There are two encryption options: fingerprint – attackers have already learned to crack it, and PIN code – it is required to enter it every time when opening and closing (unnecessary labor efforts), in addition it must be remembered and can be forgotten or lost.

At the moment the prices at which encrypted drives are sold range from \$50 to \$4,500 depending on the amount of memory.

We offer three advantages over these competitors at once: comfort, higher security and continuous authentication (which brings operation to an even higher level of security).

It will be possible to sell 80-100 thousand items during the first year due to the novelty of the technology and the lack of direct competition. Let's assume that the average company's revenue from each product is about \$200, then the revenue from sales during the first year may amount to \$20 million.

100 thousand sales - 100 thousand product users. It is supposed that the software will be conditionally free: it will be either a trial version limited by time or free software installed in the base configuration. The software will be fee-based in case of a more advanced use (multi-user mode and other opportunities to improve and expand the software). The number of paid subscriptions can range from 35% to 45%. The cost of a one-year subscription may start from \$100. So, it is planned that the annual profit will amount to \$3-4 million. It will be allowed to pay for subscription by SABİ tokens at a discount of 35%.

### **Business analytics for SABİ-auth (b2b)**

If the technology is used by the corporate market, the profitability per item is lower, but the volumes are much higher. The technology will be used in the automotive, banking, mobile, and computer markets. Each of them can bring contracts for a few tens or hundreds of millions per year. Since the technology is unique, there are no direct competitors.

### **Statistics for b2b market on the example of selective markets**

The size of the smartphones market: about 1.5 billion smartphones are sold every year. Of them: Apple - 200 million items, Samsung - 300 million items, Huawei 150 million items, OPPO - 112 million items, etc. More than a half of the models sold use different types of biometric identification. Identification module SABİ-auth will be developed for smartphones to unlock and maintain continuous authentication between the owner and the smartphone.

The size of the computer market is about 500 million items per year. Identification module SABİ-auth will be developed to provide access to the system or hard drive, and maintain continuous authentication between the owner and the smartphone.

The size of the automotive market is 500 million items per year. Identification module SABI-auth will be developed to unlock, disable alarm, and maintain continuous authentication between the owner and the car.

Solutions in the form of software and hardware module SABI-auth will be developed for each industry or corporate sector.

**The income from these sectors will be received according to several schemes depending on the contract.**

- 1.** SABIGLOBAL develops SABI-auth license hardware and software module and outsources its production to a certain corporate customer (for example, Apple, Samsung). In this case the customer will pay a license fee for each item produced using SABI technology.
- 2.** SABIGLOBAL develops SABI-auth scanner hardware and software module and independently produces and delivers these modules under contracts.

A potential capacity of 1,500,000,000 pcs. (the aggregate volume of mobile equipment, computers, cars, etc.) was taken to simulate b2b market profitability.

**There are two options for the production and sale of SABI-auth devices:**

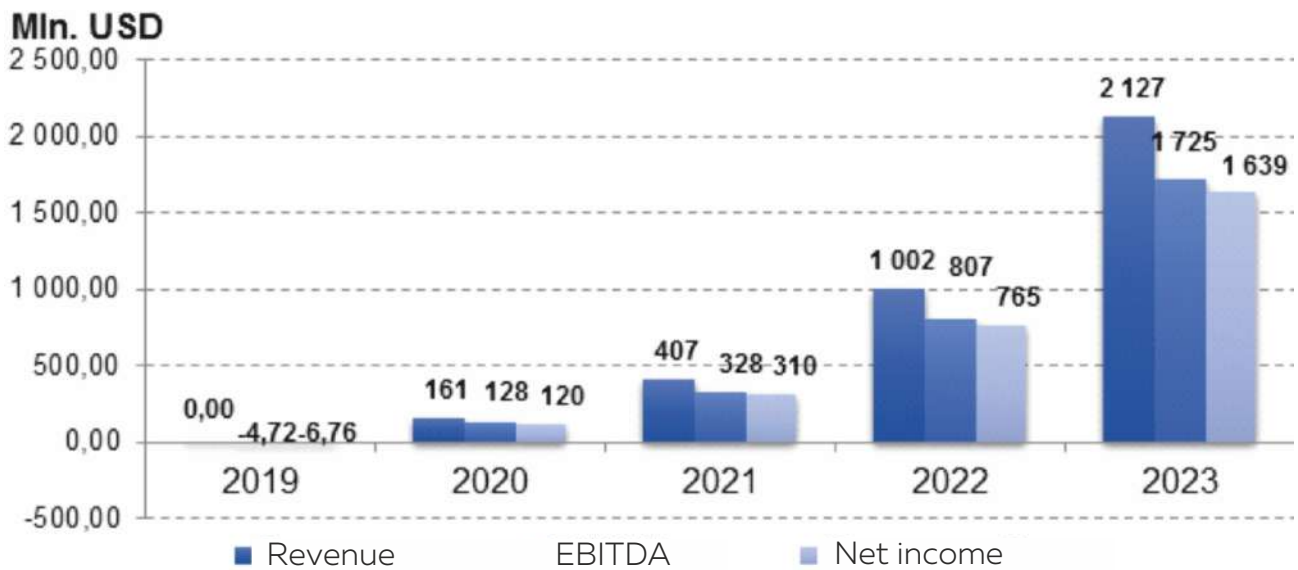
- 1.** SABI-auth scanner. Own production and sale of devices through a network of dealers. The cost of the product is \$40, the retail price is \$200, and the maximum dealer discount is 30%.
- 2.** SABI-auth license. Production and sale of devices by the licensee on the terms of license payment per manufactured and sold product. License fee per device is \$2.

The model presupposes that the sales volume during the first year will amount to 1% of the total market volume. Every subsequent year the sales volume will grow twice.

The volume of sales of SABI-auth scanner and SABI-auth license will amount to 3% of the total volume of sales of SABI-auth devices in the model.

It is planned that the volume of sales during the first year will amount to \$128,000,000, and every subsequent year this figure will increase twice.

**Projected aggregate growth of SABIGLOBAL project profitability  
in the next 5 years of development in all areas.**



Modeling demonstrates that in the next 5 years the volume of sales will reach the projected value – 2 billion USD, and in the following years of project development the volume will gradually increase.

A detailed financial analysis of SABIGLOBAL project is included in “Financial Analytics”.



# BUSINESS PLATFORM

The technology is implemented at the software and hardware level.

The hardware level presupposes development of various engineering solutions on the basis of SABI technology for various industry and corporate areas requiring identification and authentication.

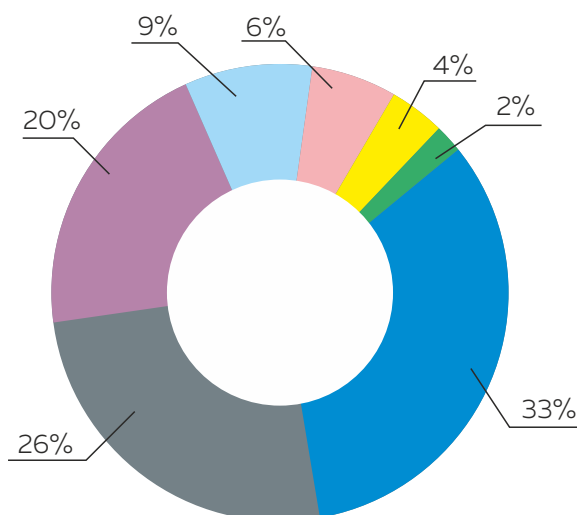
The software level involves the use of machine learning and artificial intelligence. SABI-net blockchain network will be implemented for the decentralized storage of the user database.

Errors will be corrected considering the implemented mechanisms of machine learning. For this purpose the algorithm of the module's operation will include permanent learning on the basis of person-imprint factorial coincidence.

## In this connection funds are required for the following:

1. Design and development of modules (engineering).
2. Development of a blockchain platform for database storage and use.
3. Work on product protection.
4. Marketing.
5. Licensing and approval documentation.
6. Implementation and work with vendors.
7. Intellectual product protection.

All this cannot be outsourced. All of these items must be kept within a single block except sales under a license. It is possible to use the blockchain technology in determining the possibility of participation in the work of the company. The token is planned to be used as an opportunity to get access to the technology and software of the company, as well as to reward for assistance in the development of technology and software.



## Cost breakdown structure

- Technology development and MVP
- MVP production
- Marketing
- Remuneration for the project team (salary project)
- Other expenses
- Administrative expenses
- Legal expenses

## Monetization

Monetization will be implemented through the sale of finished products in the form of hard drives, software and hardware modules for various corporate and industry areas, licenses for the production of modules, royalty from the sale of blocks as parts of embedded devices and modules. Also, as far as SABI-net platform is implemented, monetization will be implemented through the platform introduction into various industry areas to create a secure and free platform for trading, making payments, exchanging and preservation of various values. SABI tokens will be used for full or partial payment.

# TOKEN AND ITS FUNCTIONS

## Economic functions of tokens

SABI tokens will be created as Utility tokens in the form of payment certificates (vouchers) - certificates that allow paying for SABI products and services in the field of innovative biometric recognition.

SABI tokens will conform to ERC 223 standard and will be supported by most payment services and cryptocurrency exchanges.

SABI tokens will have different possibilities depending on the area of product application (for private use/for organizations and businesses).

## Information and legal functions of tokens

SABI team will expand the functionality and possibilities of SABI tokens, as far as the infrastructure of biometric recognition application is developed.

In the future we plan to significantly increase possibilities of using SABI tokens, that's why the project team will prudently foresee the abovementioned functionality of SABI token at the initial stage.

### The main possibilities are as follows:

**1)** Legal basis of the token: it acts as a fee for using SABI hardware and software part and is necessary for connection to SABI ecosystem.

Private person	Company
<ul style="list-style-type: none"><li>+ The customer can pay up to 50% of the cost of the product using SABI tokens.</li><li>+ Up to 100% to pay for software use</li><li>+ According to the loyalty program, if the client pays for a purchase using SABI tokens, he/she will get 30% of the amount paid by SABI tokens expressed in US dollars.</li></ul>	<ul style="list-style-type: none"><li>+ Organizations can pay a fixed portion of the product in the amount of 20% of the full value of the contract for the supply or use of the product using SABI tokens</li><li>+ 20% discount for the amount paid by SABI tokens</li></ul>

- 2)** The token acts as a unit of values exchange within the system and allows users to earn and spend tokens within our ecosystem. Users contribute to system development, assistance in design and experimental tests and receive remuneration in the form of tokens.
- 3)** The token is also designed to enrich and develop the platform and is used as a reward for the improvement of the existing hardware and software complex and development of the partner and branch network.

## Smart contracts

The system of smart contracts plays a key role in creating a reliable infrastructure for servicing transactions for the sale and use of company products using SABI tokens.

According to the abovementioned possibilities, each smart contract at the time of the transaction will include a fair amount of SABI tokens corresponding to the market value of the allowable portion of the product to be paid with tokens in US dollars.

SABI token smart contract fully complies with all modern standards and has a number of additional features. A full technical description of our smart contract can be found on GitHub (use the link).

## Basic details of a token sale smart contract

- 1.** At the heart of a smart contract is a crowd sale contract, which ensures sale of tokens according to the pre-set parameters. The process of tokens selling is divided into several stages. The dates and duration of each stage will be determined at the time of contract activation (placement), until then the main dates and duration can be adjusted by contract holders. All information described is public and available to all users.
- 2.** The exchange rate of the US dollar to the currency of purchase (BTC/ETH) will be fixed at the time of funds crediting to the holder's wallet.
- 3.** A crowd sale ends automatically after reaching the Hard cap or upon the expiration of the time set for a certain stage.

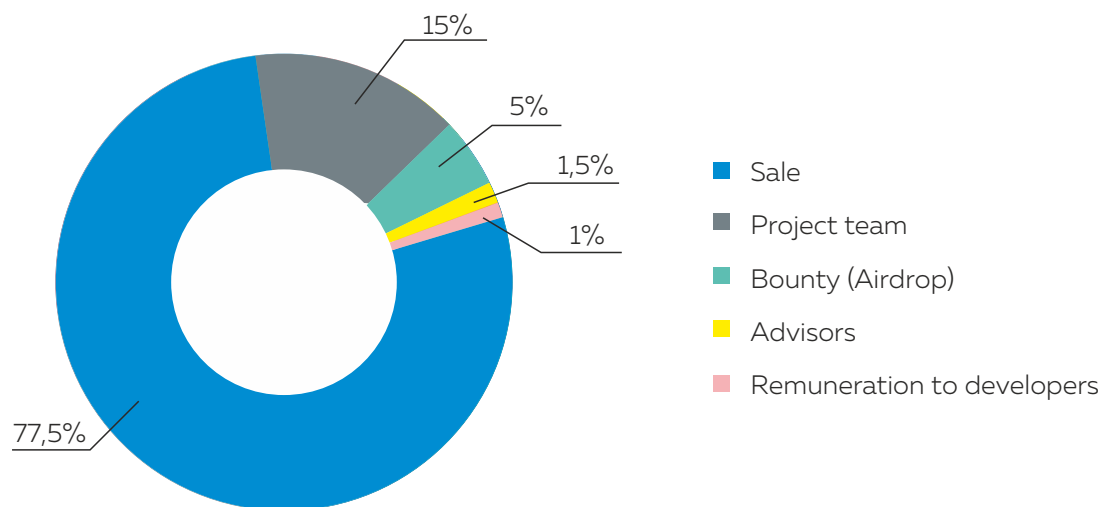
## SABI token price

The goal of the project team is to make innovations in the field of biometric identification more accessible to everyone, that's why the value of the token is 2 cents (it is equivalent to \$0.02). This will substantially increase the interest in this asset not only of end customers, but also of professional participants of the securities and electronic assets market.

A total of 1,400,000,000 SABI will be created. The structure of tokens distribution is presented in the diagram below.

Upon execution of their function related to payment for the company's services spent SABI tokens will be subjected to burning.

The project team reserves the right to create additional SABI tokens for the subsequent stages of project financing (if necessary) and to ensure the functions underlying SABI tokens.



# ICO PROGRAM

## Brief information about SABI tokens sale

Token name	SABI token
Ticker	SABI
Website	Sabiglobaol.io
Dates	From October 18, 2018 to <b>November 07, 2019</b>
Platform	Ethereum
Soft Cap (lower limit)	4,000,000 USD
Hard Cap (upper limit)	18,000,000 USD
Base cost of one SABI token	0.02 USD
Total number of SABI tokens	1,400,000,000 SABI
Accepted currencies	ETH, BTC, BCH

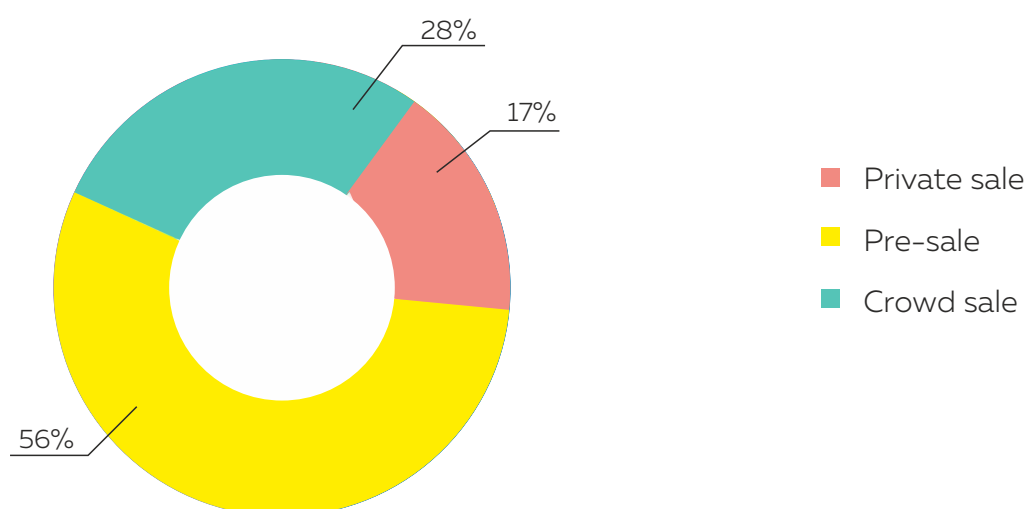
**! The upper and lower limits are fixed in USD final amount.**

**! ETH/USD or BTC/USD exchange rate is fixed at the moment of SABI tokens purchasing.**

Token sale structure:

**The sale of SABI tokens will be conducted in several stages:**

- 1.** Private sale 3,000,000 USD
- 2.** Token sale 15,000,000 USD
  - a.** Pre-sale 10,000,000 USD
  - b.** Crowd sale 5,000,000 USD



Each of the abovementioned stages has its own conditions and limitations, which are presented in detail in this document.

The total number of SABI tokens offered for sale (excluding bonuses) will be 900,000,000 SABI; it will be possible to issue more SABI tokens, if all available SABI tokens are used and disposed of.

### Important:

- Each stage will be limited by time.
- In case at the end of all the stages the required minimum amount is not collected, all funds will be returned to the participants of the crowd sale.
- All unallocated tokens intended for sale will be disposed of by means of burning under a smart contract.

### Private sale

Start date – October 18, 2018. End date – **June 07, 2019.**

Purpose of fundraising: Beginning of research on the development and implementation of innovative biometric recognition technology and ensurance of marketing activities for the project.

Hard cap – 3,000,000 USD

During the entire stage a 40% bonus will be available (additional bonus tokens will be granted for all purchased tokens).

Private sale – minimum amount of tokens to purchase:

1250 000 SABI (50 000 \$).

### Pre-sale

Start date – **June 08, 2019.** End date – **September 07, 2019.**

Purpose of fundraising: Creation of a prototype of the innovative biometric recognition system.

Hard cap – 10,000,000 USD. During this stage the following system of bonuses will be applied. Pre-sale – minimum amount of tokens to purchase: 2500 SABI (50\$)

### Pre-sale bonus

Month	1	2	3
Bonus, %	25%	20%	15%



## Token sale

Start date – **September 08**, 2019. Duration – 2 months.

Purpose of fundraising: Creation of a ready-to-sell product. Hard cap – 5,000,000 USD.

Sale – minimum amount of tokens to purchase: 1000 SABI (20\$).

The affiliate program is in force during all token sale stages: 3% of the amount of SABI tokens purchased by an invited investor is paid for each invited investor.

# STAGES OF PROJECT DEVELOPMENT / ROADMAP

## 2017 Q1 - 2018 Q2

- Idea
- Research and development
- Strategy development
- Market research
- Team building
- Brand development

## 2018 Q3 - Q4

- Start of research and development works
- Patenting of SABI technology (1st stage)
- Registration of SABIGLOBAL operating company under the jurisdiction of MALTA
- Submission of documents for license obtaining
- Carrying out of a marketing campaign

## 2018 Q4 – 2019 Q2

- SABI token creation
- Private sale, pre-sale, crowd sale carrying out
- Production of SABI working model

## 2019 Q3 – 2020 Q1

- Acquisition of equipment
- Creation of a team of specialists, Patenting (2nd stage)
- Carrying out of a crowd sale
- Adding of SABI token to the listings of cryptocurrency exchanges
- Development, patenting and licensing of SABI-storage batch product
- Development of SABI-net blockchain platform
- PR campaign
- Presentation of SABI technology to the corporate sector
- Conclusion of contracts, development and implementation of SABI- auth in industry areas

### 2020 Q2 – 2020 Q3

- Manufacturing of a production batch of SABI-storage
- SABI-storage sales start
- Service and support

### 2020 Q4 – 2021 Q4

- Technology evolution
- Development and production of new products
- Service and support
- Further development of SABI-net blockchain platform
- Development of a mobile application

# PROJECT FOUNDERS AND DEVELOPERS



**Sergey Solovyev**  
Co-founder, CEO

SABIGLOBAL — CEO & co-founder, BIOMEDIS Technologies Co. — Chief Executive Officer & co-founder  
Ph.D. Information technologies. Top manager. The founder and head of the company producer in the sector of diagnostic health improvement technologies BIOMEDIS. Radio physics Co author of range of patents for neurocomputer and technologies of virtual neural networks "EMBRION" and devices of health improvement direction.

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**Sabukhi Sharifov**  
Co-founder, CTO

SABIGLOBAL — Chief Technical Officer & Co-founder, BIOMEDIS Technologies Co. — Chief Technical Officer & co-founder  
Founder and chief engineer of production company in sector of diagnostic and health improvement technologies. Inventor. Developer of a range of devices for health improvement. Head of the engineering center. Radio engineer. Co-author of a range of articles on application of neurocomputer "EMBRION" and patents for the devices.

Scientific practical activity, engineering, development.

<https://linkedin.com/in/sabukhi-sharifov-813a3716a>



**Vladimir Tcygankov**  
CRO

SABIGLOBAL — Director for Scientific Research, BIOMEDIS Technologies Co. — Director for Scientific Research  
Gr.Ph.D IAIT, Candidate of technical sciences, corresponding member of International Academy of Informational support. Radio engineer, neurocybernetic scientist, author and head of development of range of works and models of virtual neurocomputer "EMBRION", author of more than 170 publications, 13 monographs and 5 patents of RF and USSR. Member of International Scientific Public Union "IAIT".

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**Nikolay Ignatik**  
Teamlead Software Engineer

Software engineer with over 12 years of experience in software development in different areas like compressing algorithms, web and desktop development, machine learning and big data. Aiming to invent creative solutions, find innovated ideas. Ultimate goal is to connect unconnected.

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**Ilya Gorlachev**  
CFO (Chief Financial Officer)

Education: Finance Academy under the Government of the Russian Federation. Department: Credit and Finance. Professional participant of the Russian stock market. Holder of FSFR 1.0, FSFR 2.0, FSFR 5.0 certificates. Over 8 years of operational experience in the financial sector. Key competence - analysis of geopolitical processes and their influence on the world financial markets.

Experience:

Barclays Bank. Establishment and development of an office in Costa Rica AML PLS.

Currently Ilya is the co-founder of ico-factory.com, is engaged in ICO analytics and architecture.

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**Sdobnov Ilya**  
CMO (chief marketing officer)

Russian University of tourism and service (master)

Experience:

Over 8 years of experience in marketing. The founder of Russian company Smart kit. Successful promotion of projects in digital and real sectors. Cooperation with international tender projects in the economic sector and industrial production sector.

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**Anna Shakhnazarova**  
Community manager

Communication with potential and existing users and partners of Sabiglobal with the help of social networks and other Internet sites in order to information and maintenance of interest in the company's projects and products

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**Grigory Skazochkin**  
Frontend / UI

Refactoring of the main site, development and improvement of the frontend of the subsystems of the portal and the new front-end architecture

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**Alexey Ivakhin**  
Fullstack developer

Team lead development team frontend / fullstack - architecture, setting tasks, code review, process control, developer competence

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**Tatyana Golubovskaya**  
Marketing manager

Development and implementation, analysis of advertising campaigns participation in the development of advertising materials (elements of off-air content promotion), preparation and analysis of reports, work with research databases

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**Svetlana Davydova**  
Designer

Design and design of web interfaces Interface design for DLP-system The development of the blockchain ICO platform

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## Advisors



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Doctor of Technical Sciences

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**Gerald Manshin**  
Scientist in the field of technical cybernetics

Scientist in the field of technical cybernetics, management. Corresponding Member of the National Academy of Sciences of Belarus (1994), Doctor of Technical Sciences (1983), Professor (1986).

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**Sergey Petukhov**  
Doctor of Physical and Mathematical Sciences

Doctor of Physical and Mathematical Sciences, Candidate of Biological Sciences, laureate of the State Prize of the USSR, Academician of a number of National and International Academies. Head of the laboratory of biomechanical systems of the Institute of Mechanical Engineering of the Russian Academy of Sciences.

<https://www.linkedin.com/in/sergey-petukhov-90a305170>



**Nikolai Timofeev**  
Legal Advisor

COO at Prifinance Consulting  
Professional Summary  
Legal advisor with 15 years of career experience in business, IT and legal environments. Business law expert skilful at creating and building on relationships and identifying and helping to establish company positioning.

Core Qualifications

Master degree of Law

Professional Qualifications

- Contract management and negotiations.

- Business and legal expertise

- Excellent communication skills

Key Skills

- Strong Knowledge of business and private law

Work Experience  
Legal Advisor at BCC CONSULT Ltd -Prifinance-, Tallinn Estonia

2013 Present Day

- Protecting company interests and maintaining a strong business position through revision to contracts.

- Reviewing various contracts and recommending revisions when necessary.

Researching the current legal position of the company to present it in the best light possible at all times.

<https://www.linkedin.com/in/nikolai-timofeev-19667715b>

# ARBITRATION PROCESS

The arbitration process touches upon the application of the module itself, its hardware and software parts.

The user who purchased the required system is responsible for module application. Upon its acquisition a document is signed. This document describes that the product is used at the user's own risk and the manufacturer does not determine its intended use. The buyer shall observe all possible precautions and identify areas of using this equipment. The manufacturer and developer shall not be liable for all cases of equipment use, since in 90% of cases it is impossible to provide the base configuration by default.

The assembler or producer shall be liable for module production and delivery to the developer. The developer shall provide instructions for assembly and ensure a possibility to carry out checks. If no checks were carried out, then the developer shall be liable for all cases.

The software part is developed according to all requirements for cryptography and innovative technologies. If it is required to complete the module with special features or install a service at the request of the customer, then modification shall be carried out according to the terms of reference.

All claims are subject to settlement in court at the place of legal seat of responsible persons. The developer shall not be liable for damage caused, except when modification is customized.



# RISKS

## Personal risks

Bioidentification is a way of protecting information, but its application depends on the will of the person and external circumstances. It is very likely that identification can be passed without a desire or a conscious intention.

Bioidentification can be carried out without the knowledge of a person using their helpless or another state, when the person cannot be accountable for actions.

Personality rights can be blacklisted in the process of getting access to information. If the information bank is common, then such an ID can be entered into almost all data banks and the person will get access neither to the protected product, nor to related ones. In the long term this means complete isolation from the social environment.

It is possible to overcome the above risks by regulation and determination of permissible changes in the human state, as well as by combination of the proposed module with other protective means.

## Legal risks

The proposed module carries out identification by a combination of technological means. In this case data can be stored on a remote server. In this regard there is a possibility of restricting access to this method of identification from any country for various reasons.

If the servers with databases are located in the territory of a single state, it is easier to administer, but the state can restrict access to any system participant. If all the data in the country is stored in the country itself, the risk is that different technological level of development of countries may prevent introduction of such a method of identification.

It is possible to overcome these risks by using a standard method of collection and processing of the information received. It is enough to use international standards for data storage consistency. It will be of interest to transnational corporations and geographically distributed companies.

The process of data collection is an additional risk. For its development it is required to make personal data collection easier and, preferably, data shall be collected when the client first contacts the company. This makes it possible to accelerate the process of appeal registration, as well as create a mechanism that will be implemented for multi-identification. So, it is required to expand the scope of bioidentification application with respect to equating paper documents with existing systems of identification.

## Technological risks

Platform creators understand that at any time an opportunity and a technological solution that will work more efficiently than the developed platform may emerge.

The platform is an idea that is embodied in the proposed project. At the beginning of the project a typical solution is proposed, which in the future can be implemented in the consumer demand segment. This functionality is planned and can be modified at any time.

The platform is developed on the basis of a smart contract and does not act as an exchange offering services for further implementation of the project.

It is possible to overcome risks by platform technological basis improvement and provision of its operation safety. The creators will do their best, but they will not take into account a possibility of a potential decrease in operation parameters due to platform usability deterioration. In general, there will be an opportunity for further growth. The rest technological issues will be implemented during the discussion and analysis of the overall situation.



**Contact us**

  
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