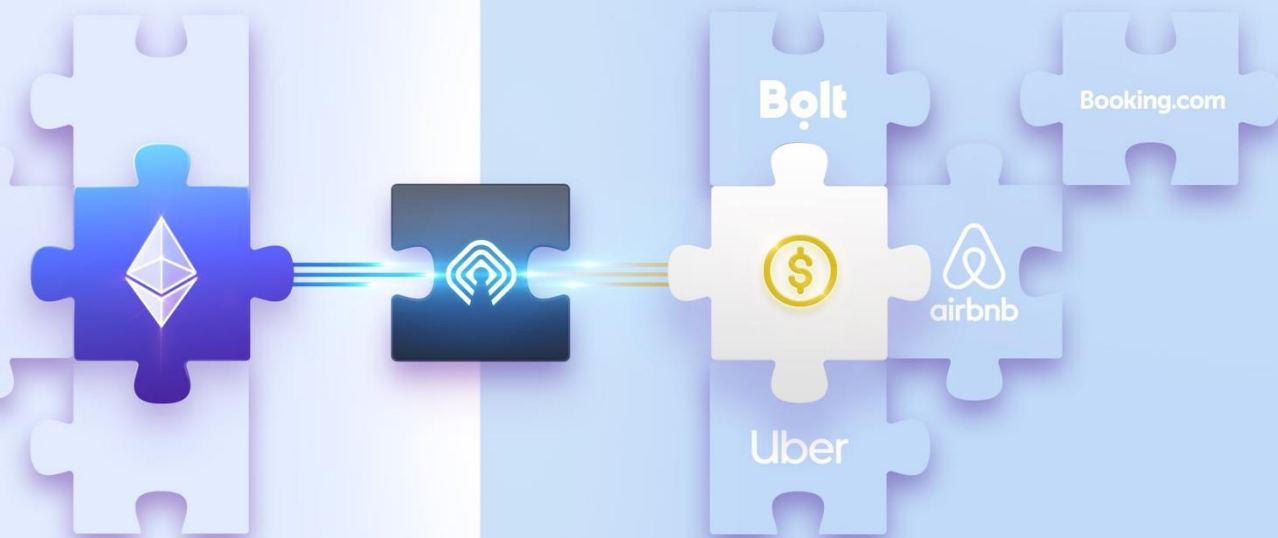# BoT SMART KEY

DeFi Connector

White Paper
Ver. 0,9
December 2020

Smartkey is a bridge, **the missing puzzle** that connects decentralized finance (DeFI) world with physical objects world.

We are the first working platform that allows to connect physical things („BoT" Blockchain Of Things) with DeFi projects based on the Ethereum blockchain.

Smartkey_DeFI gate gives possibility to create new economic models based on ETH Smart Contracts carried out by hundreds of DeFI projects.

www.smartkeyplatform.io

Possibilities of Blockchain

Blockchain projects evolution is a dynamic process that defines the value of decentralized code from scratch. The evolution of blockchain means primarily the process of seeking new connectors – gates between worlds. In other words, the process of finding new way of integration with decentralized finance platforms that are the alternative to current, traditional ways of payments, settlements and banking systems.

Below you can find 3 phases of blockchain market development. The beginning of the evolution were the DeFi projects. Experiments such as services that used dedicated tokens to give access to closed services (closed ecosystem) (Token market 2016-2018, ICO and IEO). Nowadays the market is more comprehensive. Current projects use Smart Contracts (the base of decentralized economy) in order to implement advanced services such as banking service, deposits, loans or active loans.

The market of tomorrow are the projects that connect decentralized finance (DeFi) with the assets of physical world. SmartKey project is an already working BoT platform. SmartKey is the leader in its field, way ahead of other platforms such as ChainLink. This fact is later proven in this document.

Vitalik Buterin, Puzzle Economy.

Vitalik Buterin, Ethereum leader, he defined the projection of digital value development (processes based on blockchain) in 3 phases:

no. 1
Token market

Passive digital value. Tokens traded on exchanges, digital trust, first functionalities given to tokens. (digital payments).

no. 2
Tokens + DeFi market. Closed ecosystem

Smart Contracts, that create traffic, generate traffic in Ethereum ecosystem. Decentralized economy projects that will use more advanced systems.

no. 3
DeFi market + BoT. Hybrid projects.

Introducing digital assets to the physical world in the process of automatic access and management of these values. Digital payments without intermediaries. The BoT (Blockchain of Things) gate to the world of physical values. Enabling DeFi projects to go out into the physical world - the use of DeFi projects in the physical world managed by digital technology, electronic data, information from sensors, automated access.
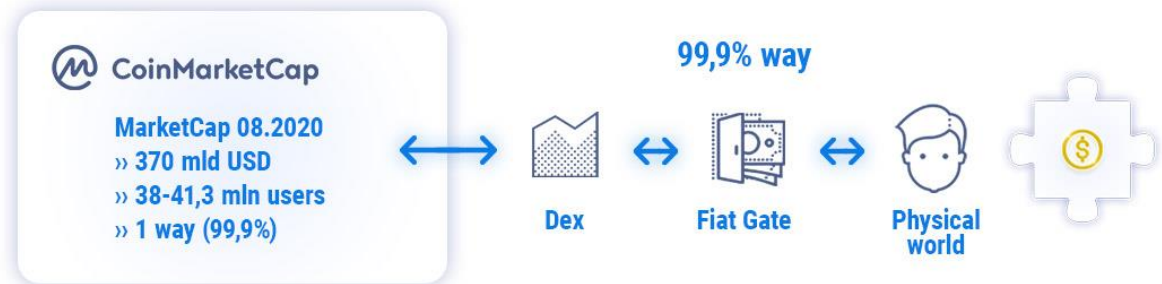
Smartkey Project is Phase NO. 3
Working, proven technology of the future that opens access to physical values for any decentralized project - DeFi platforms.

Introduction:

The problem of digital assets is the need to exchange digital currencies, tokens into FIAT currencies (traditional money). We can then use FIAT currencies to purchase other physical values as well as purchase digital services, applications, systems. We can make payments with the help of intermediaries, i.e. banking operators which means paying high commissions.

Graphics no. 1 Digital currencies into FIAT model.

FIAT gate (exchange) – a middleman in the exchange process.

Two sides of the process, one barrier between assets.

First side of the Market are owners of digital assets, companies implementing projects based on blockchain technology and DeFi projects that want to perform automated operations on the assets of the physical world. Those operations can be access to applications, systems and databases. Other examples include access to more advanced solutions i.e. Airbnb or CarSharing without the need to exchange digital currencies into FIAT currencies using exchange offices - centralized exchanges.

The second side of the market are millions of companies that provide services in the physical world. Those companies want an easy access to the rapidly growing crypto-assets market and access to systems of the decentralized economy - the DeFi market.

Decentralized economy services in the form of advanced DeFi Smart Contracts will set a new trend in business models and processes between worlds. This is already a trend in the development of blockchain technology that will become an alternative to the existing solutions of FIAT currency payments

Currently 99.99% of all services in the world are paid in FIAT currencies. Millions of companies in the world that have their mobile applications, websites, systems or provide services based on GSM-GPS access devices do not have access to the world of physical assets.

What is the Puzzle Economy?

Puzzle Economy is a collection of Smart Contracts that implement separate processes that we can connect - A puzzle of patterns based on the Ethereum ecosystem, its

capabilities and resources. Currently, about 20k of various types of projects use the ETH ecosystem in the form of Digital Tokens or more complex projects. DeFi projects, which are active representatives of the ETH ecosystem.

Decentralized economy projects offer new opportunities to actively use the assets already accumulated in the ETH blockchain node. Today, the assets accumulated on the ETH platform are about 110 billion (the value of ETH and DeFi projects and tokens generated as part of the ETH platform).

How the Puzzle Economy works?

Puzzle economy is the selection of ready-made elements or puzzle patterns that we want to use to customize them.

We develop the process and the result that we want to achieve, e.g. our service model and the business model of our project. We select the elements of interest (DeFi puzzles) and create an equation. We program the form of a deposit or activity, and determine the level of remuneration or other elements that are to be of value for us or our project.

Graphics no. 2 Puzzle Economy DeFi

Assets flows between active Smart Contracts. Closed ecosystem ETH, DeFi Internal ledger - digital assets.

The Value of DeFi

- decentralized assets exchange protocols "Smart Contracts"
- active deposits, primary bank farm,
- dependent processes implemented between smart contracts linking deposits, processes and DEX.
- other experimental economic model and processes,
- an attempt to connect blockchain with external databases.

Restrictions on decentralized finance (DeFi)

The lack of automatic exchange of assets between worlds. The lack of process automation is a barrier that stops the expansion of DeFi (decentralized economy) processes and connection with BoT (Blockchain of Things) technologies.
In the traditional system of exchange, in order for the two worlds to work with each other and in order to exchange assets between them there must be a third mediating party .
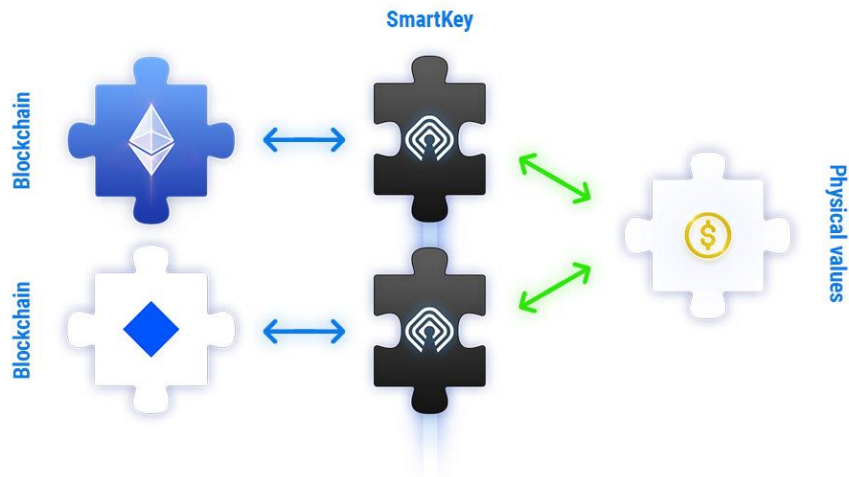
SmartKey DeFi Connector Solution.

SmartKey DeFi connector (SM_DeFi) is a platform already operating on the market. It is tested by several large international companies. It allows you to safely connect both worlds using the BoT "Blockchain of Things" technology. We connect Blockchain Ethereum ecosystem (Waves) with digital devices and software through the SM_DeFi gateway.

SmartKey DeFi connector supports 2 blockchain ecosystems: Ethereum and Waves. The choice of the gate, i.e. the ETH vs Waves smart contract, is made by the customer of the technology connector.

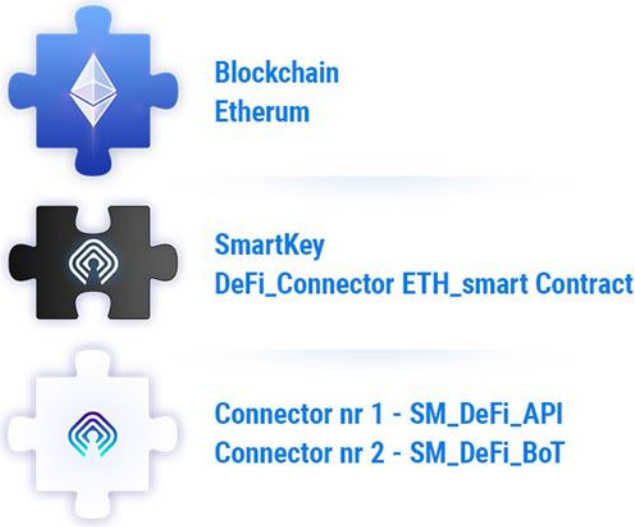Graphics no. 3 SmartKey – the missing puzzle

Advanced levels of integration of digital services with the world of decentralized processes and the economy of DeFi.

The SmartKey platform allows access to digital services of the physical world at two levels of integration. The parties to the contract choose the solution, i.e. the level of integration with the blockchain.

The introduction of 2 SmartKey platform integration connectors was preceded by research and analysis of the currently functioning open systems, applications, access services, zone management and more advanced access services providing their API.

Blockchain Etherum

SmartKey DeFi_Connector ETH_smart Contract

Connector nr 1 - SM_DeFi_API
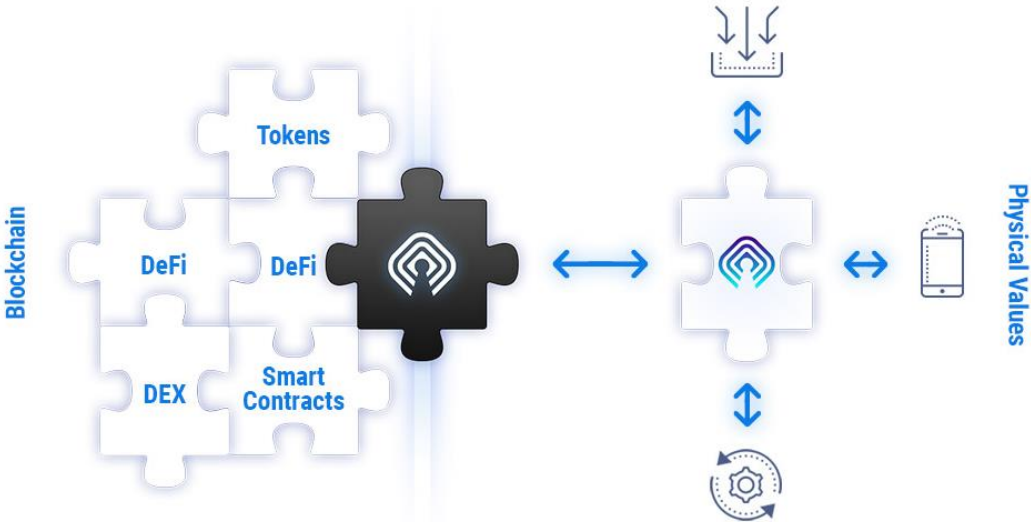**Connector nr 2 - SM_DeFi_BoT**

Level I

Level 1 consists of services provided in a purely digital form, such as mobile applications, dedicated systems, websites, support systems or passive sensors as well as supervision systems or data centers.

The level is implemented by the SM_DeFi_API connector. Which allows any mobile application to be connected to the ETH or Waves blockchain or software based on shallow integration (intermediary), an external client.
The basis of the solution that is being developed is modeled on a process that was developed on the basis of the logic of integration with the currently functioning payment platforms (traditional banking systems) and task-oriented services.

SM_DeFi_API. The 0.3 version of Smart Contract allows you to connect payment processes for the solution's customers, i.e. applications and external systems. It creates the possibility to integrate with 1/3 of decentralized exchanges and ETH deposit contacts and payments for digital service.

Graphics no. 4 SmartKey level 1
Digital integration, access to services, applications and systems.

Level II

Level 2 consists of advanced electronic services: connection of the payment and access application (operator), i.e. the performance of the contract, completed with a generated temporary access key.

Projects such as Airbnb platforms, carsharing, HotDesk offices paid by the hour, parking lots, controlled and limited paid access zones that use intermediary systems between the service provider and the recipient.

SM_DeFi_BoT version 0.7 Smart Contract allows for integration with advanced digital devices connected to the Internet.

The system in version 0.7 is dedicated to solutions with extended functionality, i.e. the possibility of receiving a signed Smart Contract ETH in the form of a SmartKey key that allows temporary access to physical assets.
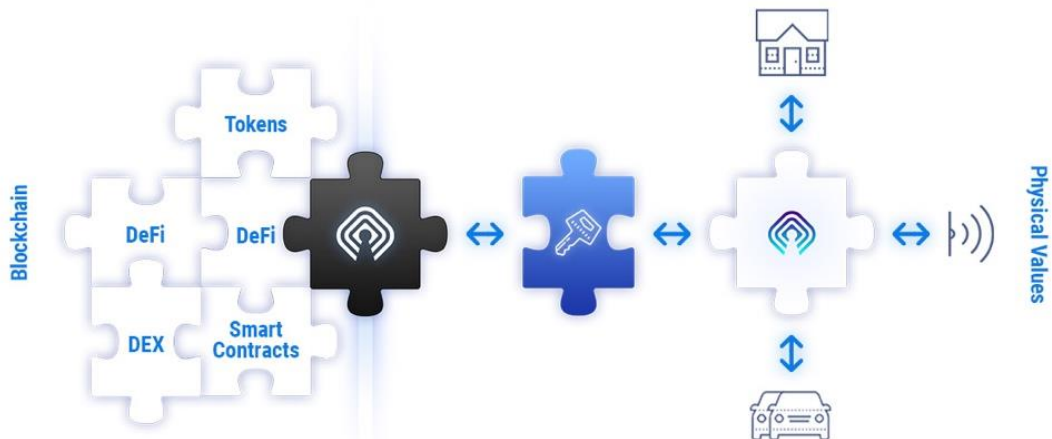
The system generates Smart Contracts which defines the rules of access, payment method, time (service completion date - access) and other dependencies that can be verified in digital form.

The service provider receives a digital payment and the recipient receives an electronic key in the form of a Smart Contract that allows temporary access to the physical assets, i.e. devices such as:
- camera, sensors.
- digital lock (access to the Carsharing, Car Rental, office, premises or apartment - Airbnb hotel).

Graphics no. 5 SmartKey level 2.

Access and product management by interacting with the access right. Launching advanced services by generating the "Smart Contract" key

Level II gives the possibility of developing more advanced economic models such as Sharing Economy, i.e. building business processes and models based on complete automation of access contracted in digital currencies.

SmartKey capabilities - DeFi connector.

Automatic access and the ability to build new models based on decentralized finances in the world of physical services.

Opportunities to create new value projections, new services or markets for automated services combined with decentralized finances.

Diversification of financing of physical world services, an alternative to payment systems of traditional banking operators.

Harmonization, access to customers from all over the world thanks to the universal ETH data bus.

The platform allows you to create your own business models, your own systems such as Carsharing, Car Rental or Airbnb services without the need to create your own advanced software. A simple web page is enough to connect your service to the SmartKey platform.

Future market

By combining Blockchain of Things technology with decentralized finances (DeFi) SmartKey creates the possibility of integrating each verified Ethereum contract with solutions such as Airbnb, Carsharing, HotDesk, paring services.

Limited, time-access services where Smart Contracts are a combination of a payment service, the asset providing company's profile verification service as well as vehicle and digital key transfer system. The transfer of the key and physical asset (vehicle) is resulting from the contract.

SmartKey project heavily focuses on on automating the billing process and service access. All operations, from booking to access, are mostly carried out using simple systems such as sensors, electronic locks that can be easily connected to the SmartKey gateway by selecting integration level 1 or 2.

SmartKey is a project that was created to combine the above assets with access to the opportunities offered by decentralized finance today.

Examples of the use of technology by project partners. Presentations of the SmartKey BoT solution.
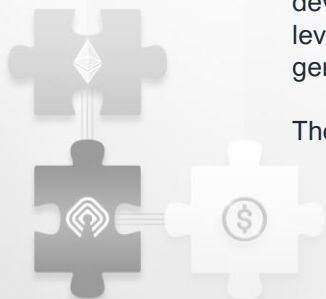
<u>Project Partner no. 1</u>

KIA Corporation is one of the main partners of the project. The South Korean corporation is a leader in introducing new technological solutions in cars as well as technical and operational solutions that optimize the use of automobiles in urban agglomerations.

For the purposes of integration of SmartKey technology with KIA cars, our first client has developed an application, with the working name Blockchain Cars. Blockchain Cars is a level 2 integrator. The system allows you to manage access to the car, its systems and generate access rules to the car.

The possibilities of the client application dedicated to KIA cars are:

- Managing access to the car without the need for physical keys.
- Generating time keys for people to whom we want to share cars.
- Specifying the car rental parameters, i.e. we can determine the price of the car rental, the time of renting the car, dependent parameters, i.e. make a lien on the tenant's wallet to secure the contract etc.

The KIA Corporation's interest in the project is mainly due to new process (technical) and financial possibilities offered by blockchain technology.
- Introducing new forms of credit currently unavailable such as 1-day or 7-day leasing.
- Introducing corporate solutions, i.e. possibility of sharing car fees by several people, companies and other entities thanks to DeFi contracts.
- Security of the car, no physical keys.

SmartKey technology in KIA Cars - Korean version
https://www.youtube.com/watch?v=oFYdD2Tm4tY&feature=emb_logo

SmartKey with KIA partner English subtitles
https://www.youtube.com/watch?v=eUOF0HERDZw&feature=emb_logo

Merits of SmartKey Project Collaboration with KIA Corporation.

- Experience in project relationship with a large, international corporation.
- Building trust in technology on the market through partnerships with a prestigious company.
- The partnership contribute towards the marketing and the spread of information about SmartKey solution.

The effect of the above. Team work:

Creation of a dedicated company using SmartKey technology for a premium car manufacturer. Publication of information in Q1 2021

Project presentation no. 1 – Daimler Benz "Mercedes Benz"

Mercedes with SmartKey technology.
https://www.youtube.com/watch?v=kpqRgGoGgTA

Smartkey presentation in the BlockchainCars client application on the Waves blockchain. Presentation of the adaptability of the solution in various blockchain nodes, Ethereum and Waves.
https://www.youtube.com/watch?v=jLggqBdDA68

The SmartKey project was presented at the headquarters of the Daimler-Benz corporation in Warsaw, the manufacturer of Mercedes Benz cars.
In order to present the SmartKey platform - the technology connector, we used the BCC client applications, called BlockchainCars worms. Mercedes made the car assemblies available for testing and presentation purposes. The presentation of the platform was held on the Waves blockchain to show the universality of the solution, i.e. the possibility of connecting, adapting various blockchain platforms.

Mercedes, just like KIA, is interested in solutions based on access management and rental settlement, as well as car rentals in Blockchain technology.
SmartKey presentation using the Blockchain Cars client application on the Waves Blockchain. Presentation of the adaptability of the solution in various blockchain nodes, Ethereum, Waves.
https://www.ledgerinsights.com/mercedes-supply-chain-blockchain/

https://www.coindesk.com/mercedes-maker-daimler-tests-blockchain-for-supply-chain-data-sharing
https://cointelegraph.com/news/mercedes-benz-manufacturer-daimler-to-collect-data-using-blockchain

<u>Project partner no. 2</u>

TELTONIKA

Teltonika.
https://teltonika-iot-group.com/

Teltonika is one of the 3 largest providers of IoT (GSM-GPS) solutions for the management of access zones, vehicle deployment or telemetry. The main application of Teltonika devices are:
- Car rental, Carsharing,
- Scooter rentals, scooters,
- Residential access platforms, parking gates.
- Airbnb management, office and office management platforms (Hot Desk systems).

Teltonika devices support Airbnb's home systems, they also operate in over 10 million vehicles around the world. One on three Carsharing companies in Europe uses Teltonika solutions.

Cooperation:

Connector developed with a partner: SM_DeFi_BoT version 0.7 It allows the integration of each of Teltoniki's devices with one of the 2 blockchain ecosystems Ethereum or Waves. In order to present the technology - the possibility of cooperation, we have developed 2 dedicated applications:
- Blockchain Cars - a connector client dedicated to integration with cars, etc. vehicles
- AirbnbSmart - a connector client dedicated to integration with Airbnb systems. The connector is tested by 4 large 3 and 4-star hotels.
The official premiere of the system on 11.2020.

SmartKey. First hardware devices powered by Blockchain of Things.
https://www.youtube.com/watch?v=3w03TqczFHI

Blockchain of Things (BoT) - next step in IoT. Integration with a connector dedicated to Blockchain Cars
https://teltonika-gps.com/about-us/cooperation-with-blockchaincars-io/

The effect of the above. Team work:
Interest in SmartKey DeFi connector technology, mainly in the area of Carsharing, Scooters, Airbnb services.
Cooperation offer and test participation request sent by over 15 major assets exchange platforms.

The merits of cooperation with Teltonika.
Introduction of Blokchain solutions as an alternative bus for communication with devices.
Possibility of acquiring new clients and new possibilities of using Teltonika's devices.

Summary:

The presented project has been carried out since the beginning of 2019. The project has undergone several logical and process modifications that focused on proving the value of the first business goal and researching the interest of potential buyers of the technology. First buyers are companies wanting to integrate their assets and services with Blockchain ecosystems.

SmartKey API, currently implements about 65-70% of the functions of the ChainLink platform at the Level I, i.e. the advantage of the SmartKey platform over the Chainlink project is mainly the implementation of level II services, where we can demonstrate more adaptation of the system and confirmed operating systems.

The clear advantage of the SmartKey system is the automation of contracting and access to physical assets in the form of generating electronic keys that are used by most GPS-GSM devices currently installed in Cars and Airbnb systems.

Value building strategy.

1. Adaptation and launch of API_SmartKey in 11 million Teltonika's devices as an alternative bus for communication and assets settlement.
Any company that uses Teltonika's devices will be able to connect their devices with Blockchain gateways.

2. Building partnerships based on key / known technology partners.
The use of the marketing message, i.e. the trust of 2 car manufacturers in our technology as a starting point to future partnerships in the area of Carsharing, Car Rental

3. Dynamic marketing activities, providing a description of integration in the Internet, support in implementations.
A strategy for building market communication based on the proven value of the SmartKey platform.
Active participation in industry conferences and the largest industry events in the world.

4. Lobbying to establish standards for Smart City that could use the SmartKey connector standard.

Media Partner:

Crypto World News – 572k members (TELEGRAM)
@CryptoWorldNews

Media partner of the project. The CWN channel is an element of the SmartKey project's market and investment communication. CWN is the largest Telegram media channel about cryptocurrencies and DeFi.

Token Metrics and Distribution

A. Description Pre-Sale.
- name: SmartKey (Skey) token, ERC20 utility
- platform: Ethereum (ETH)
- Supply: 1,000,000,000 closed collections

Unit Icon.

Full logo.

SMART KEY

B. Launch

Phase I – project price evaluation**.**
Pre-Sales starting stage (20% - SmartKey)
Stage A Sale 10%, average price: 1 SmartKey = 0,0172 / 0,0178 USD
Stage B Sale 5%, average price: 1 SmartKey unit = 0,025 / 0,035 USD

The process is implemented by a Smart Contract connected with the wallet of the company. The goal of this phase is to gain community supporting the project.
15-25% of ETH collected will enter Phase II as Pool Cover (Uniswap)

Phase II – project price evaluation**.**
Entrance I offering in dex pools. (10% - SmartKey)
Stage A Sale 5%
Stage B Sale 5%

Minimal price: 1 SmartKey unit, price in range of 0,10 / 0,12 USD (may be subjected to change)

Expected operating reserve + 5% to keep liquidity (supply) highly valued. (may be subjected to change)

Phase III
Entry to centralized exchanges
Stock exchange – liquidity 5%

Decentralized exchanges Pre-Sale:

METAMASK

SALE 10/2020

Smart contract
between the buyer and the official SmartKey wallet.

SALE 11-12/2020.

Uniswap

Uniswap 2,0 exchange contract.

BoT
SMART KEY

Ensuring liquidity: centralized exchanges – AML.

IEO Start 20.11.2020 – 20.12.2020
Sale in 2 rounds (5%)

PROBIT

Probit (created in 2016) – stable,
fast growing exchange on Asian market – mostly in Korea. Avg. daily Volume 65/100 M USD secures liquidity.
Lack of barriers for SmartKey token listing on the exchange. Listings of Waves blockchain available. Strong partnership with exchange.

BITFINEX

KuCoin

One of the largest exchanges.
We are in the middle of talks with 3 exchanges:
Bitfinex, KuCoin, bithumb (bithumb Global)

bithumb

Offering in q2/q3 2021.
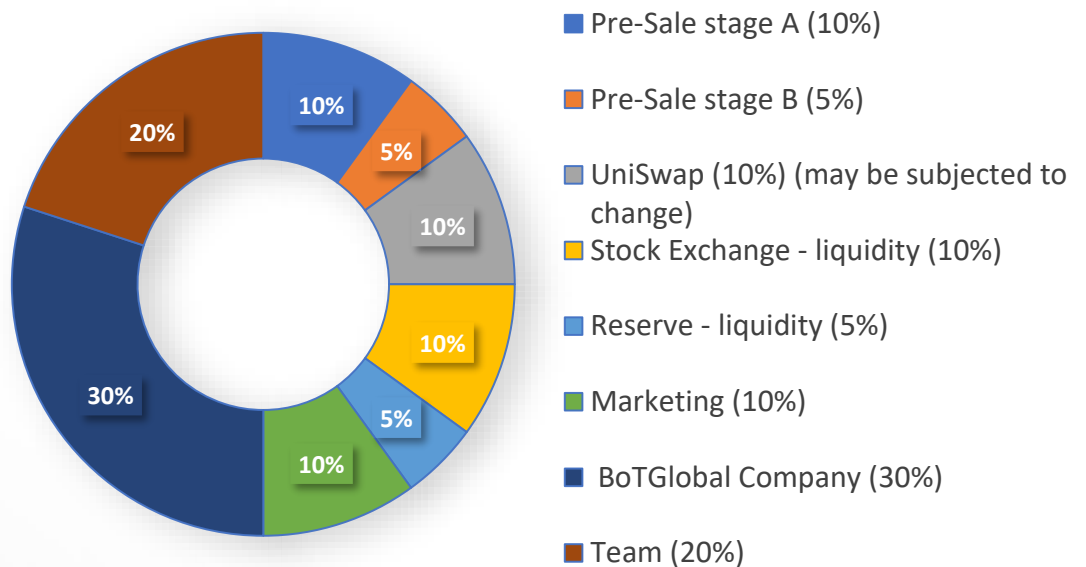Goal of the project - listing on the top decentralized stock exchange.

D. Sales restrictions:
- No possibility to purchase tokens by VAT payers. If you have purchased units or are going to, please contact us.
- Transactions over EUR 15,000 must be notified prior to their execution.

E. Allocation, number of tokens.
Justification for the allocation of SmartKey tokens.

Allocation SmartKey units

- ■ Pre-Sale stage A (10%)
- ■ Pre-Sale stage B (5%)
- ■ UniSwap (10%) (may be subjected to change)
- ■ Stock Exchange - liquidity (10%)
- ■ Reserve - liquidity (5%)
- ■ Marketing (10%)
- ■ BoTGlobal Company (30%)
- ■ Team (20%)

Crowdfunding - The process of obtaining financing for the project is carried out in the second phase.
Phase I - is gaining a community supporting the SmartKey project and its solutions.

Phase II - is the project's entry into the liquid market of open exchange of units in the form of creating a pool on the UniSwap exchange.

Phase III - is listing and maintaining liquidity for SmartKey units for the purposes of covering a number of risks associated with investing and securing individuals with SmartKey units.

BOT Global - The owner of the SmartKey project, the operator of funds obtained from the sale of SmartKey tokens. The funds guarantee the project development, administration (license, legal services, security and economic audit of the company in accordance with the reporting standard of the organization in Estonia), maintenance of personnel - foreign representative offices and project development. The company will undertake a number of activities to build partnerships, implementations and analyze risks that affect project development.

Marketing - a set of marketing activities presenting the value of the project, its usefulness and its possible implementations. In the first period of marketing and promotional activities, target markets will be covered for the purposes of creating a recognizable brand with function identification and value. The opening of offices - representative offices in Seoul that will announce the solution and obtain partnerships, which is a key implementation activity.

Team - Securing the team in the company. Allocation for the team will allow us to keep a team that is attractive on the labor market for competitive projects. The basic team is 11 people, during the project development the team will increase to 25-35 people.

Table 1. Exit dates - token releases

Tokens owner	Shares held (%)	Date, token release value (%)			
		2021	2022	2023	2024
Company BoT Global	**30%**	**1/2 QTR Lock 3/4 per QTR 2,5%**	**2,5% per QTR**	**2,5% per QTR**	**2,5% per QTR**
Reserve - liquidity	5%	Reserve to maintain liquidity, asset position or implement corrective actions. Release of the provision by BoT Global management decision in case of significant risk.			
Team	20%	**Lock**	**2% per QTR**	**2% per QTR**	**2,5% per QTR**

F. Allocation of funds.

The project's relational strategy consists of three components:
- SmartKey platform. Programming and technical tasks.
- Implementations and partnerships interested in implementing the platform, providing commercial HUBs,
- Marketing activities, support and communication concerning the project's achievements regarding exchanges. Taking part in investor conferences organized by the crypto exchanges in order to report stories and milestones completion.
The funds go to BoTGlobal OÜ (a company registered in Estonia).

Promoting project value – Marketing:
Promotion, solution implementation, networking. Creating project partnerships.
Active promotional activities on target markets: ASIA (Korea). Opening of representative offices in Seoul. Participation in the targeted trade fairs of the automotive market and the hotel industry, Airbnb as the first element of the implementation of the platform for the service and support of real estate HUB.

Marketing: a set of information and advertising activities to create a project community and a group of ambassadors.
- Participation in industry events to present the value of the solution.
- Acquiring partners interested in SmartKey technology
Promoting the product with partners, joint marketing KIA, Teltonika. These partners are the foundation of the company that will contribute towards better results in the second stage of obtaining funds.

Crypto exchange – liquidity support:
Strategy of supporting the position of the SmartKey token on crypto exchanges. Active support of events organized by the crypto exchanges for the purpose of presenting the SmartKey solution. Strategy to build investor confidence in the project.

Operating reserve:
Crypto with financial resources for the purpose of undertaking extra-curricular activities, supporting the effectiveness of implemented activities. Unforeseen risks.

Company, Legal disclaimer.

Project implemented by the company:
BoTGlobal OÜ (registry code 14808450):
Estonia, Tallinn, Kesklinna linnaosa, Maakri tn 19/1-7K, 10145

Security - project reporting.

The company operates in accordance with the European Union law regarding the principles of accounting and reporting. Financial data and risk reporting by a certified auditing company, CIA audit standard (Certified Internal Auditor).

Contact:

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Trade & exchange support
trade@smartkeyplatform.io

Integration and tests of the SmartKey platform
support@smartkeyplatform.io

Media:

SmartKey

https://twitter.com/SmartKeyDeFi

SmartKey.News

https://t.me/SmartKeyNews

Smartkey.Chat

https://t.me/SmartKeyChat