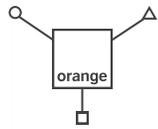
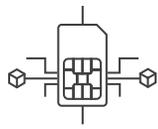


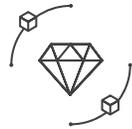
 **skey** network  
Blockchain Ecosystem



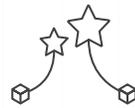
Orange's Live Objects



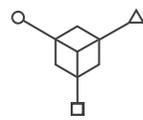
Blockchain-of-Things SIM



Smart NFT Token



Oracle 2nd Generation



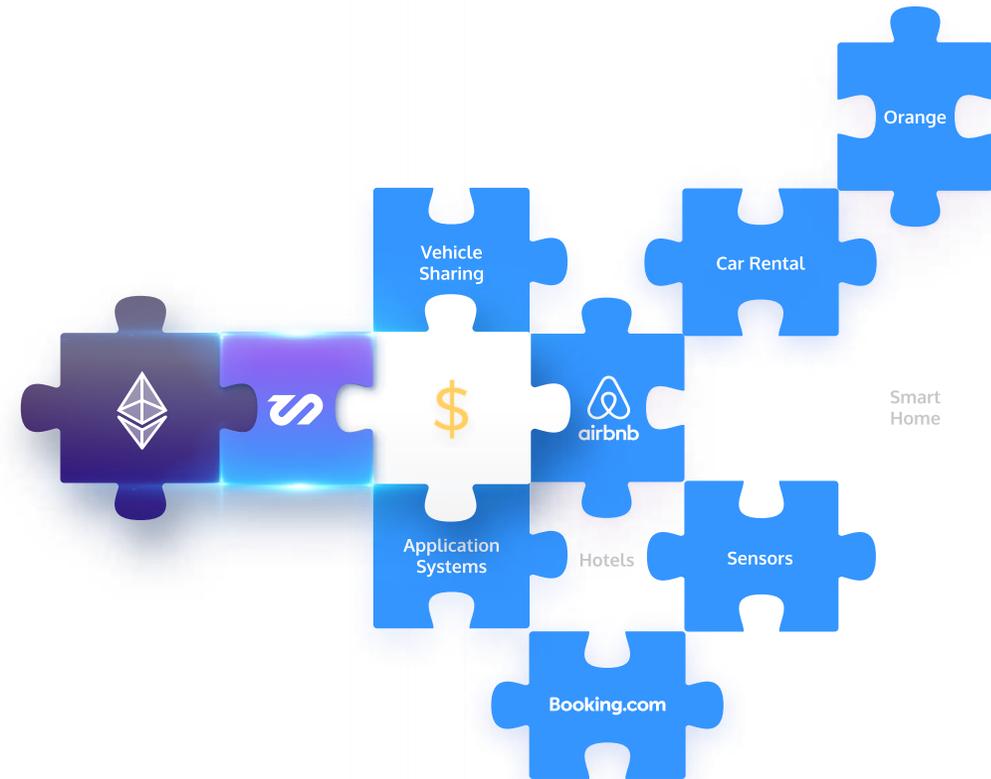
BloT - Blockchain Internet of Things



Skey Network connects the world of decentralized finance (DeFi) and blockchain with the world of physical assets.

„BloT“ Blockchain Internet Of Things

We are the first working platform that can connect physical assets („BloT“ Blockchain Internet Of Things) with DeFi projects based on the Ethereum blockchain.



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Blockchain - connective tissue for the smart cities of the future

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- Skey Network is a bridge
- Barriers to BloT

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Advanced levels of integration

- Level I
- Level II

Skey Network capabilities - BloT connector

Future market

Token Metrics and Distribution

- Technical
- Allocation Description
- Skey Network Units
- Token Distribution
- Decentralized and centralized exchanges

Token Economy

Skey Network Products

Case Study

Roadmap

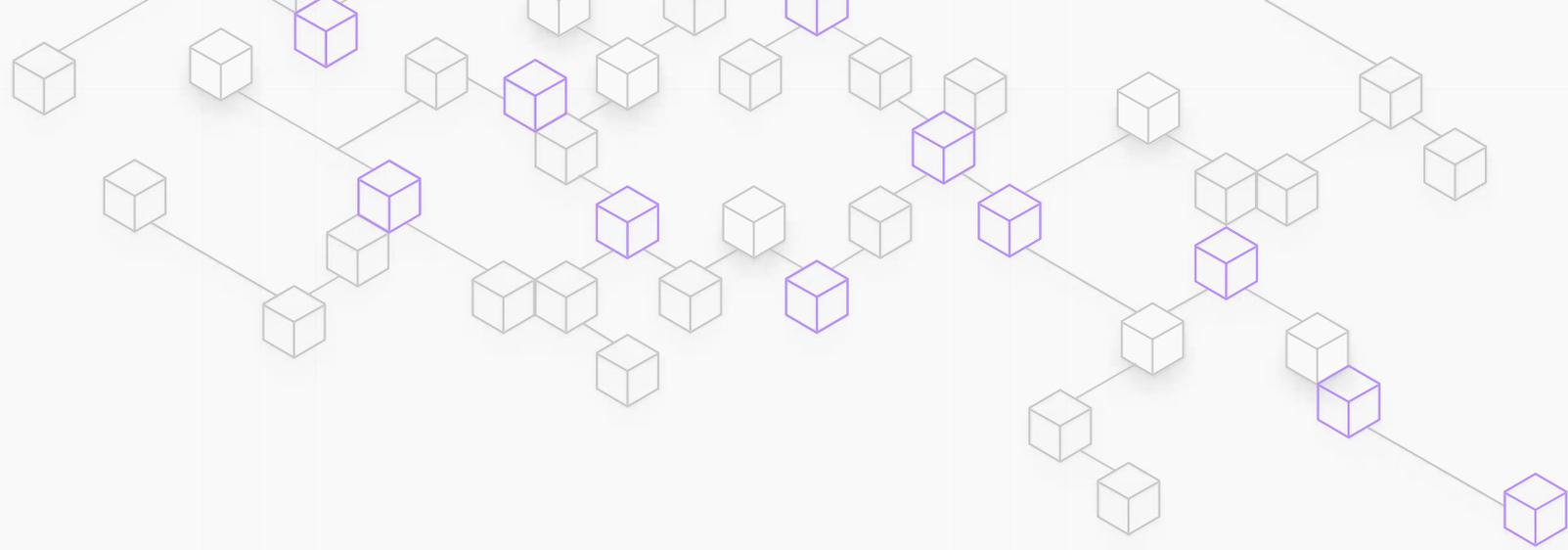
Technical pages

Skey Network Partners

Media & Press

Company, Legal disclaimer

**Skey Net\_DeFi gate makes it possible to create new economic models based on ETH Smart Contracts carried out by hundreds of DeFi projects.**



## Skey Network - the connective tissue for the smart cities of the future.

Skey Network was created to maximize the opportunities offered by decentralized finance. The network will allow users to create new business models around traditional services such as carsharing, car rental, or home rental. A simple web page is enough to connect your business to the Skey Network.

The Skey Network combines Oracle II generation technology with BloT technology, This creates a unique smart contract in the form of a NFT token called Skey Network which defines the rules of access via an IoT device. The NFT-Skey Net contract is an IT record and manages activity.

**The Skey Network project is a working BoT platform with multiple live integrations with household name brands and companies.**

# Vitalik Buterin's Three Phases of Digital Value Development

## no. 1

### Token Market and digital payments

Passive digital value. Tokens become traded on exchanges and can be used for digital payments.

## no. 2

### Tokens + DeFi in a closed ecosystem

Working smart contracts are used on the Ethereum network. Decentralized economy (DeFi) projects that can use more advanced systems.

## Key Network is part of Phase 3:

Blockchain projects that connect decentralized finance (DeFi) with the assets of the physical world will open up an entire new market. Skey Network is already a leading BloT network with proven real-world examples of its technology being used and will be at the forefront of this new market.

## no. 3

### DeFi + BloT in a hybrid model

Integrating digital assets to the physical world through the process of automatic access and management of these values. Ability to process digital payments without intermediaries and for the BloT (Blockchain Internet of Things) to be a bridge to physical values. The use of DeFi projects in the physical world managed by digital technology, electronic data, information from sensors, and automated access.

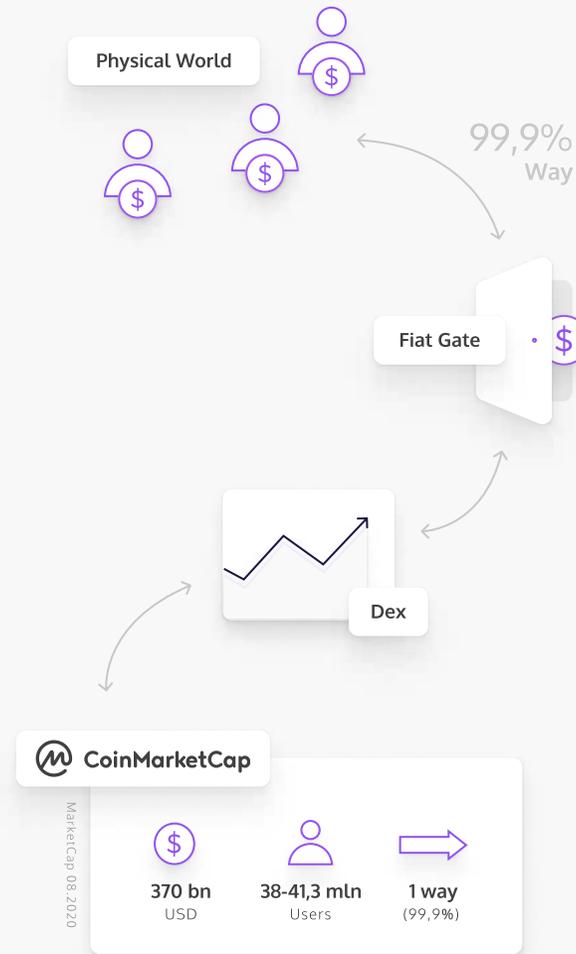
## Skey Network is a bridge for:

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

## Barriers to BloT:

Transactions between physical and digital assets often require multiple stages e.g. converting one digital asset to another and then converting a digital asset into FIAT currency. As it stands, value is lost at each stage of this transaction through intermediaries which charge (often high) fees and commissions. This dissipates value throughout the chain and erodes value for asset-holders.

Skey Network will act as the single bridge between physical and digital assets, significantly reducing the network fees accrued by asset-holders.



Digital currencies into FIAT model.  
FIAT gate (exchange) – a middleman in the exchange process.

## Connecting the two sides of the market.

Using smart contracts, Skey Network will enable limited-time-access and payment services to be fulfilled through IoT devices such as electronic locks and sensors, with full profile verification.

The Skey Network project focuses on heavily on automating billing and service access (e.g. unlocking cars for ride-sharing, providing secure home access to authorized persons via security gates).

Skey Network will provide the universal platform on which partners, companies, and individuals can build their own applications. This will allow for wide implementation of Skey Network in various business models.

As Skey Network requires a utility token, SKEY, in order to transact on the network, early investors in SKEY stand to benefit as the network grows.

### Blockchain oracle: connecting the smart cities of the future

Skey Network is a decentralized oracle network that works on both the Ethereum and Waves blockchains.

Blockchain oracles are the bridges between the on-chain and off-chain world. They allow blockchains and smart contracts to access off-chain assets, making them far more powerful and interoperable. Using blockchain oracles, Skey Network will connect the on-chain world of digital assets, smart contracts, and DeFi with off-chain data, services, and devices.



## NFT Access Token

### **An NFT access token is a combination of three different technologies.**

The first technology is BloT (Blockchain Internet of Things). BloT is used to connect an IoT device's unique IT record to the Blockchain. IoT devices can be installed in cars, gates, homes, parking lots, offices, parcel locker systems, and so on.

The second technology used to make the unique NFT is the Oracle system. Skey Network uses a second-generation Oracle system. It can be used to verify elements that will affect the value, such as weather conditions or seasonality. It may be also used to verify information about the user such as his credit record. This is especially important when creating smart contracts in order to rent an apartment or a car. Verifying the user and his ability to pay for possible damages to the asset may be crucial in those cases.

New Business Models  
Sell & Trade on Exchange  
**Smart NFT**  
Access and Management  
Sharing Economy



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



BoT



Oracle



Smart Contract



## What is a Non-Fungible Token?

The third technology that is used to create the access token is the Smart Contract conditions. Those conditions can be decided by the person issuing the contract with various levels of customization. These conditions include (but are not limited to): contract expiration time, time of access, price, rules of user verification, deposit amount, and others.

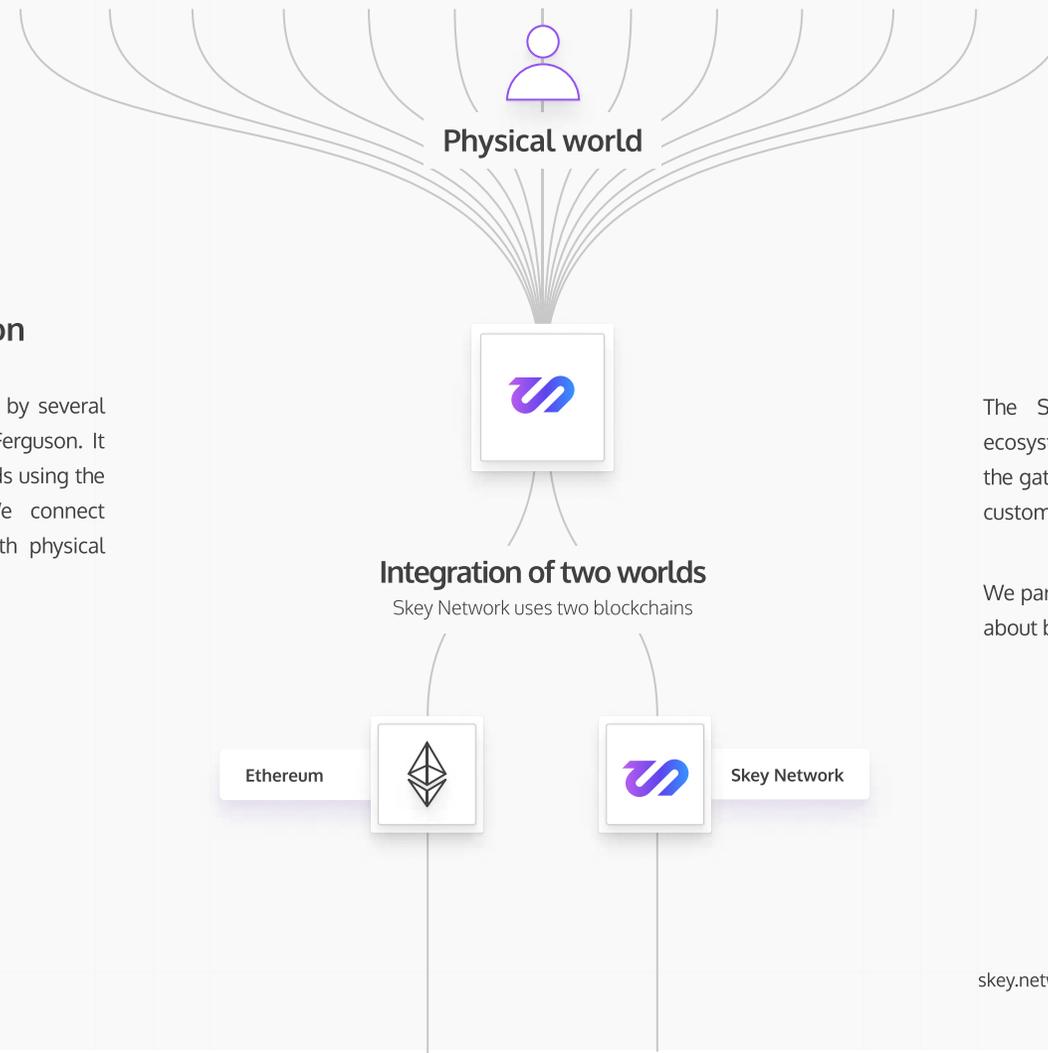
Combining those three technologies creates a unique smart contract in the form of a NFT token called Skey Network. The token defines the rules of access to a given physical value managed by an IoT sensor.

This value can then be sold using a simple website or application, traded on exchanges, or used to build new business models.

This creates a solution that will become critical to the sharing economy of the 21st century.

What is more, it will bring NFT tokens to a whole new level where they will be used for more than speculation. Skey Network technology will bring NFT tokens real physical value and utility to the world.

## Integration



### Skey Network BloT Connector Solution

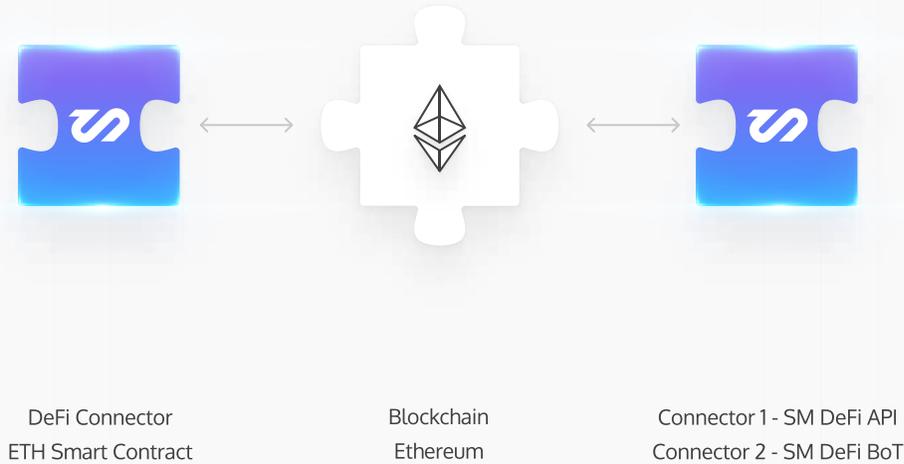
is a platform already operating on the market and used by several international companies including Orange, Wekta, and Ferguson. It allows you to safely connect the digital and physical worlds using the BloT "Blockchain Internet of Things" technology. We connect Ethereum Blockchain and Skey Network ecosystem with physical devices and software through the SM\_BoT gateway.

The Skey Network BloT connector supports two blockchain ecosystems: Ethereum and Skey Net's own blockchain. The choice of the gate, i.e. the ETH vs Skey Network smart contract, is made by the customer of the technology connector.

We partner with Chainlink as our oracle of choice, You can learn more about blockchain oracles and the Skey Network on our Medium.

### Advanced levels of integration.

The Skey Network platform provides blockchain integration at two levels. The parties to the contract choose the solution, i.e. the level of integration with the blockchain.



## Integration

### Level I

**Level I 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.**

Level I is implemented by the SM\_DeFi\_API connector, which allows any mobile application to be connected to the Ethereum or Waves blockchain, or with software based on shallow integration (intermediary), an external client. It provides purely digital services such as mobile applications. Level I integration is modeled on payment platforms and task-oriented services.

Version 0.3 of SM\_DeFi\_API allows you to trigger off-chain actions with on-chain commands e.g. accessing securely located gates via an app. It creates the possibility to integrate with 1/3 of decentralized exchanges and ETH deposit contacts and payments for digital service.



## Integration

### Level II

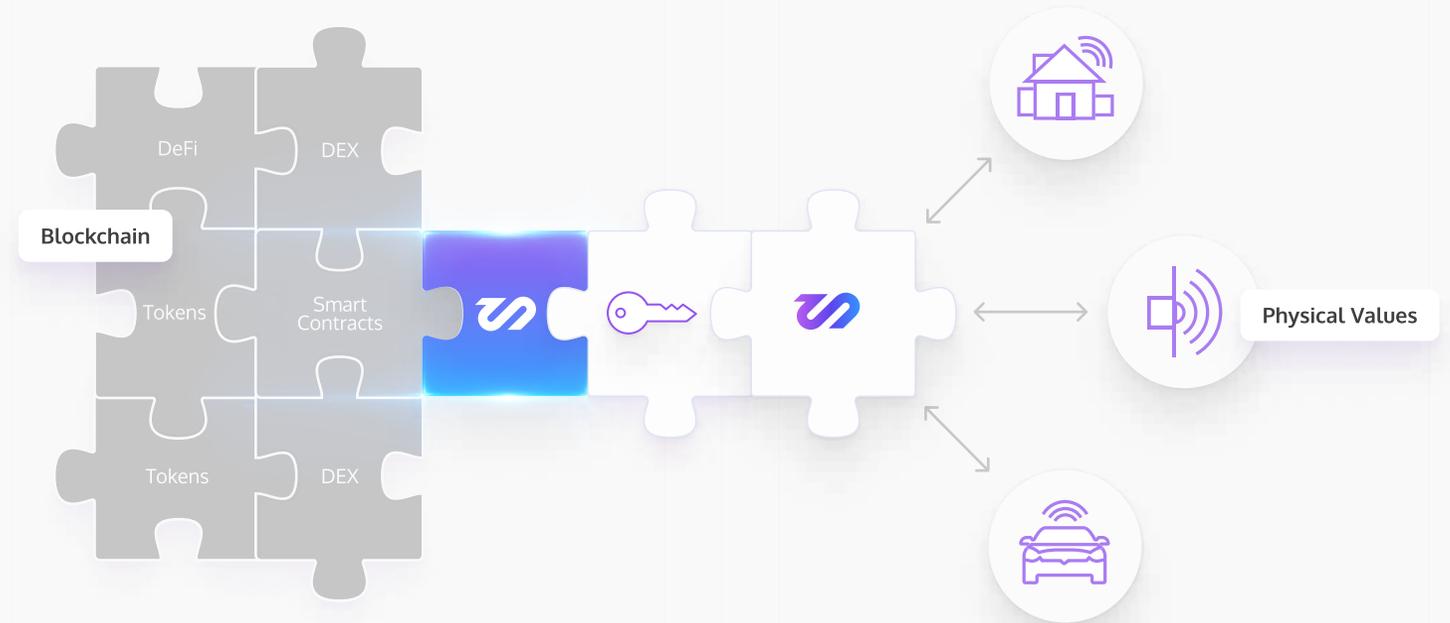
**Level II consists of advanced electronic services: connection of the payment and access application (operator), i.e. the performance of the contract, complete with a generated temporary access key.**

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 Skey Network that allows temporary access to physical assets.

The system generates smart contracts which define 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).

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 the sharing economy, i.e. building business processes and models based on complete automation of access contracted in digital currencies.

## Opportunities

### Skey Network capabilities - BloT connector

- Automatic access and the ability to build new models based on decentralized finance 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 or 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 Skey Network.

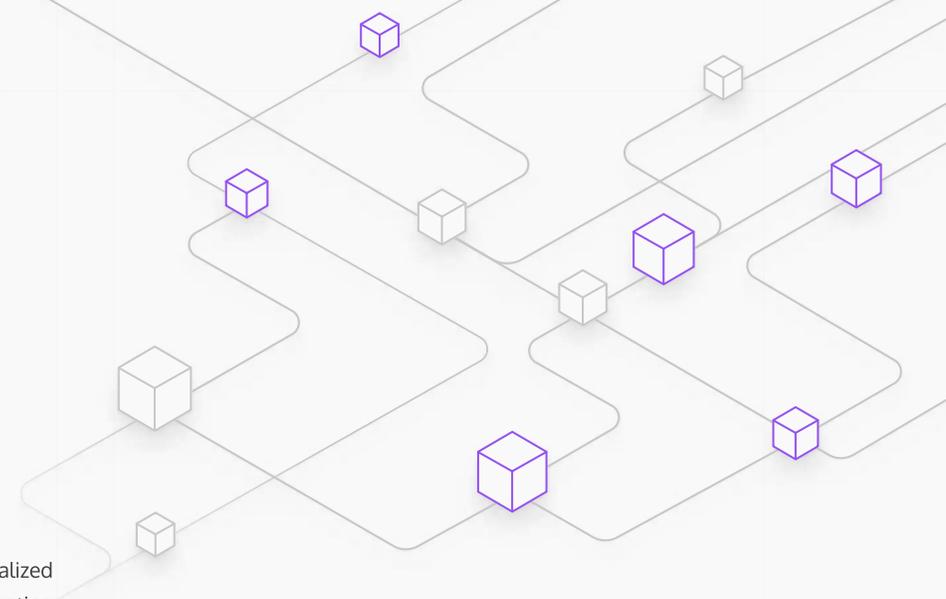
### Future market.

By combining Blockchain of Things technology with decentralized finances (DeFi) Skey Network creates the possibility of integrating each verified Ethereum contract with solutions such as Airbnb, carsharing, HotDesk, parking 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 triggered by a smart contract.

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

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



## Token

# Token Metrics and Distribution.

### Technical description:

- name: Skey Network (SKEY) token, ERC20 utility

- platform: Ethereum (ETH)

The initial amount of Skey tokens: 1,000,000,000.

Skey's tokens are deflationary; as implementation increases, they are burned and their amount in circulation decreases.

**Current phase: 927 748 650 = 100%**

[0x06A01a4d579479Dd5D884EBf61A31727A3d8D442](#)



Full logo



Unit Icon

### Company BoT Global

Measures securing the implementation of the project over time. The funds guarantee the proper development of the company as well as reserve for other key operations as part of the development strategy.

[0x4718178EBC45994Aad24531c59752d84770C0F56](#)

### BoT Reserve

The core reserve of the company, which is allocated to the mitigated risks related to the operations of the BoT company.

[0x43167a5c939203B3Bbab59B1b76A93500B6f1134](#)

### Partners

Support for project partners and companies willing to implement their processes and operational activities using the Skey Network blockchain technology.

[0xB448c31dB943aAfc8aBF2aA49AbdD2Fa76Fe2981](#)

### BoT Investment

Funds allocated to the implementation of targeted, technological investments. Investments will concern the introduction and development of other projects on the Skey Network blockchain. Purchase of Fine Tech services.

[0x29C37a3f88dD39A098eceC16E66e785c155e8b00](#)

### Marketing

Funds allocated to the implementation of marketing activities and support activities for the popularization of the Skey Network platform.

[0x013ca139cd701Ad530aED2B8327966D1ba5221CF](#)

### DEX/CEX support

Support and protection of liquidity on decentralized exchanges, Skey Network bridge to ETH and BNB networks. Support for liquidity allocation in Fine Tech processes.

[0xdE148e2c1D00f8c6630c0c67657eCbb9BC8a8909](#)

### Team

Funds belonging to the Team, launched according to the schedule. Previously, the Team had 20% of the tokens. The tokens in the amount of 10% were divided into marketing activities and the company BoT Global.

[0xC74256C178282E7bf6e697177AeB901AA02E20C9](#)

### Advisors support

Funds allocated to marketing activities, i.e. acquiring key well-known personalities and media representatives supporting the project, as well as lobbying groups for the introduction of technology.

[0x0072DB52d8773fa27B373A2A77d4c99eebF827e4](#)

### DEX/CEX listing investment

Purchase of listing services on exchanges and securing contractual liquidity (deposit of Skey tokens).

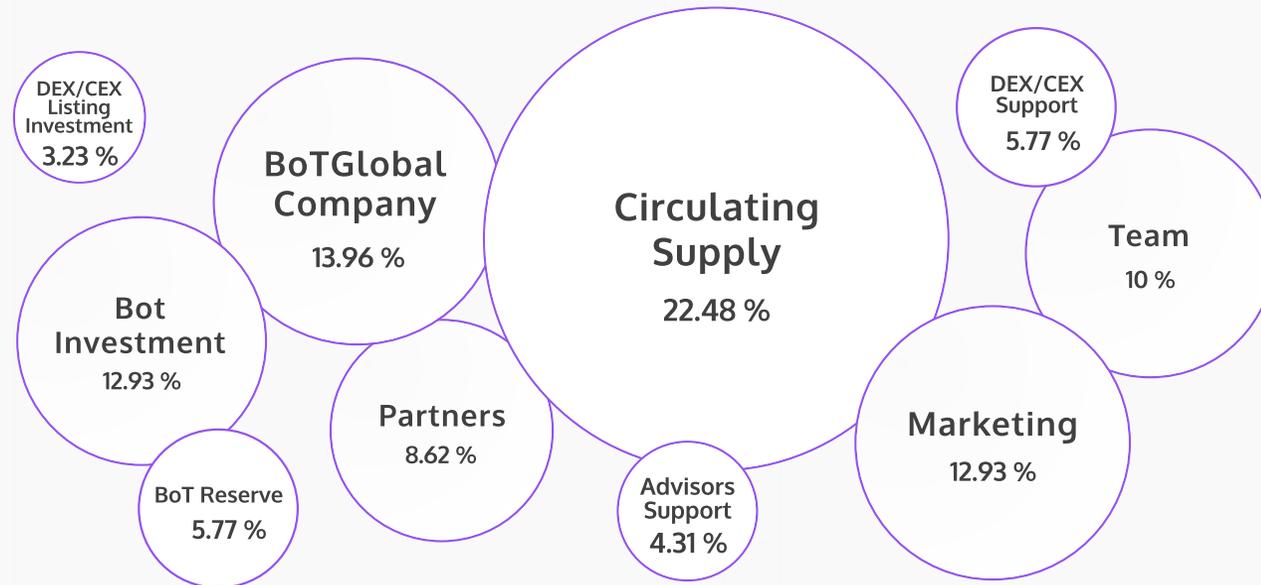
[0xEc7a242245a48877Ad057ed3E9359bacF2d25197](#)

## Skey Network units



### Burned Skey Tokens

Skey tokens are deflationary; as implementation increases, they will be burned and their quantity in circulation will decrease.  
927 748 650 = 100%



## July 2022

22.48% - Circulating Supply

13.96% - BoT Global Company

12.93% - BoT Investment

12.93% - Marketing

10% - Team

(before: 20%, the team donated 5% to marketing and 5% to the company)

8.62% - Partners

5.77% - BoT Reserve

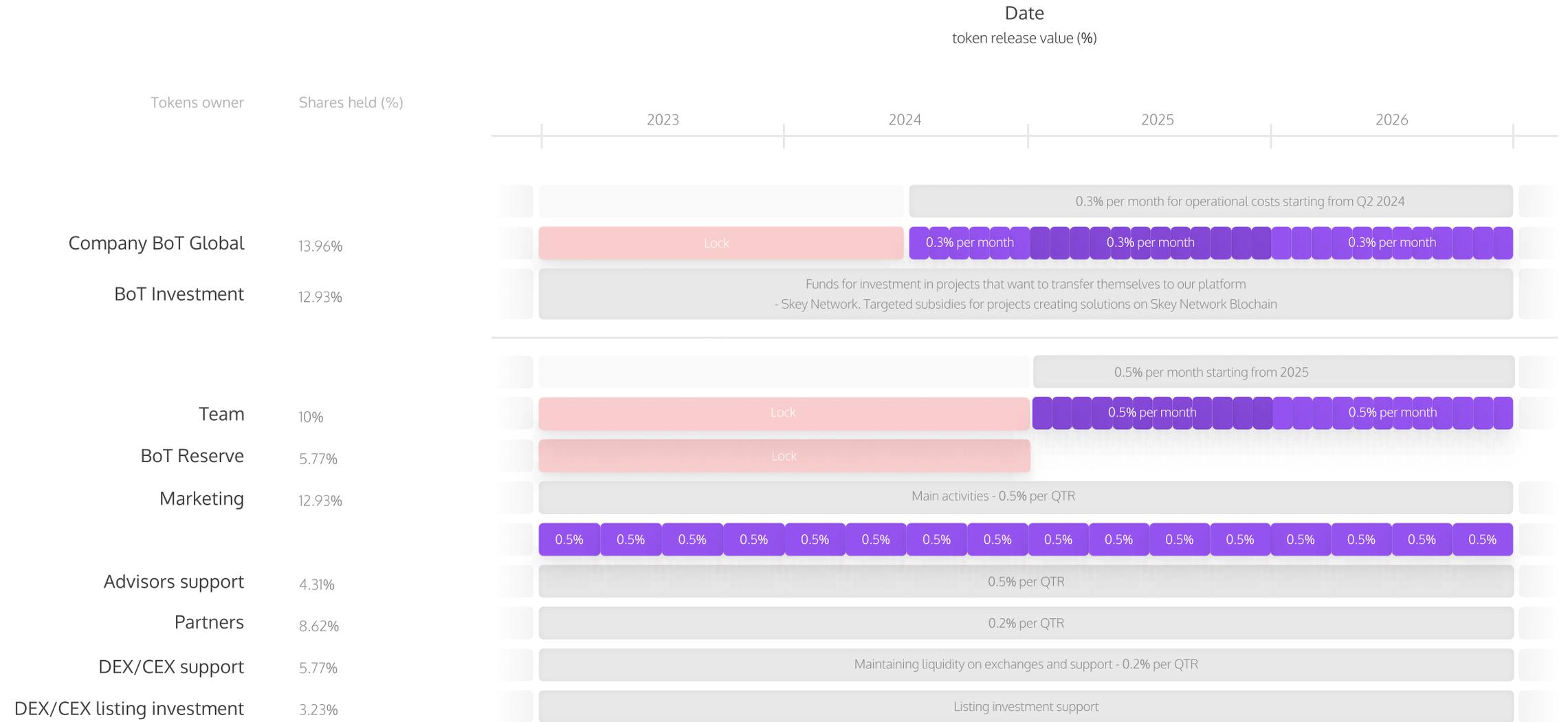
5.77% - DEX/CEX support

4.31% - Advisors Support

3.23% - DEX/CEX Listing investment

All changes in the distribution of company tokens take effect by **August 10, 2022**.

# Token Distribution



## Exchanges

### Decentralized and centralized exchanges



#### Probit - Listed 12/2020

Sale in 2 rounds (5%)

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



#### Uniswap - SALE 11-12/2020



#### Metamask - SALE 10/2020

Smart contract between the buyer and the official Skey Network wallet.

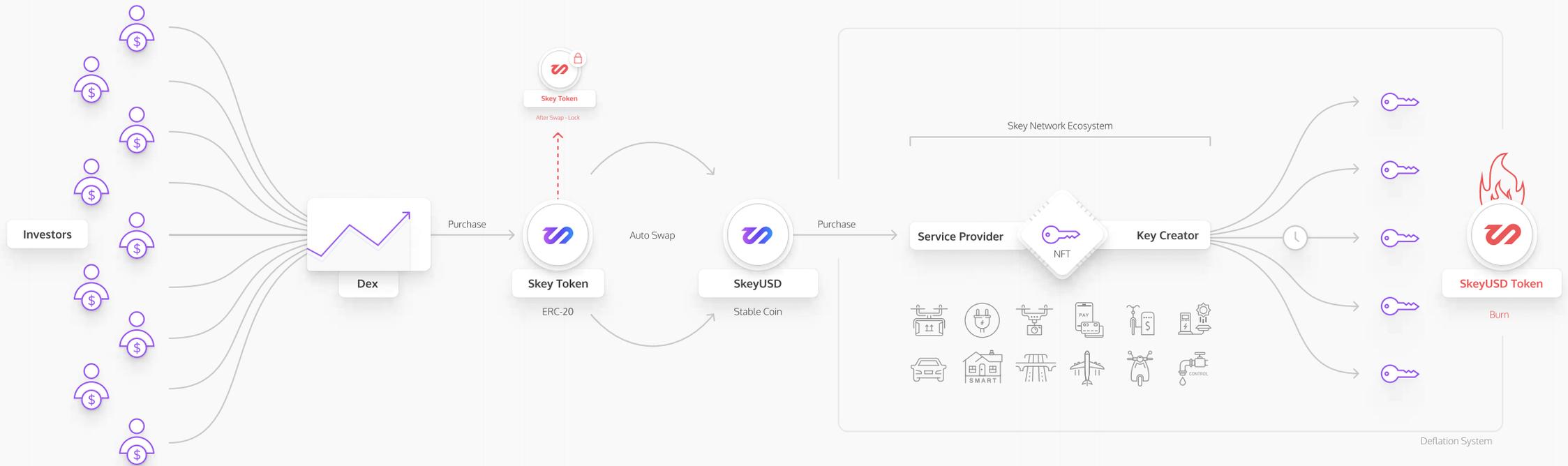


#### BitMart - Listed 23/11/2021 One of the Top 15 Exchanges



#### KuCoin - Listed 19/03/2021 One of the Top 5 Exchanges

## Token Economy



## Introduction to the Skey Network Ecosystem

In order to provide services within the Skey Network Ecosystem, it is necessary to own SkeyUSD technical tokens. At the time of account creation, each service provider's SkeyUSD balance is 0. After authorization of the account, the Service Provider may purchase SkeyUSD tokens. This is done through the automatic exchange (autoswap) of SKEY (ERC-20) tokens, that must be purchased on the market.

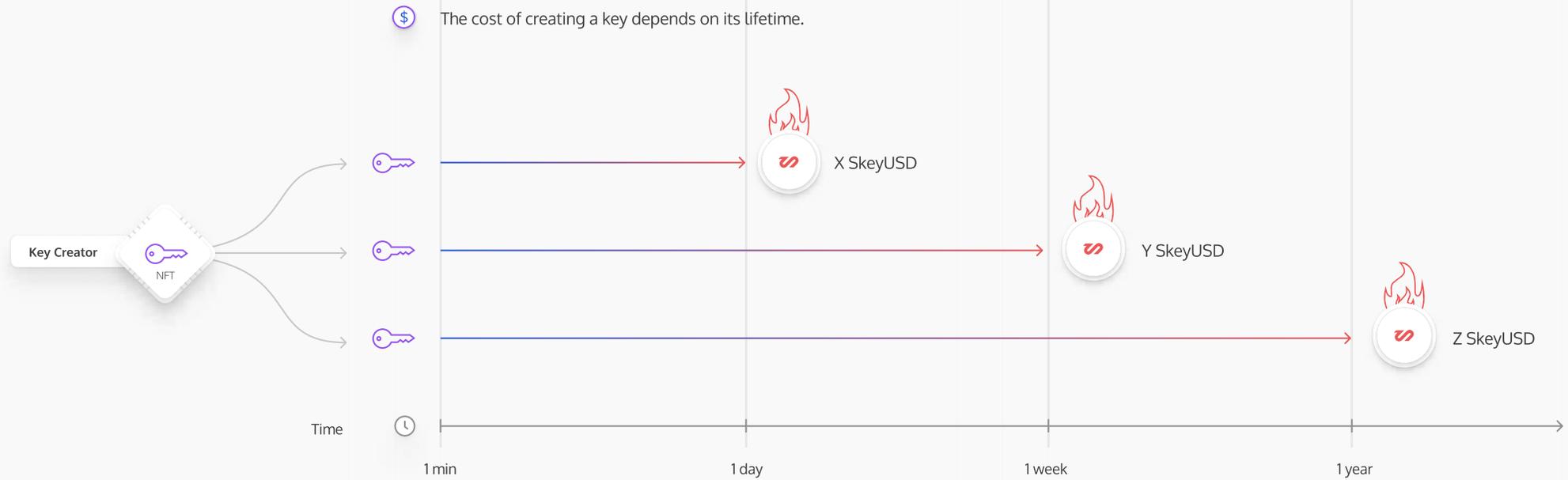
## AutoSwap and the SkeyUSD token

AutoSwap mechanism - The AutoSwap mechanism is used to swap SKEY (ERC-20) tokens to SkeyUSD tokens. The system causes the SKEY(ERC-20) token to be Locked, which means that the token no longer returns to the market.

## SkeyUSD token

For example: In order to buy 100 units of SkeyUSD at \$1 per unit, we have to pay a total of \$100. The important part is that the payment must be made in SKEY (ERC-20) tokens. At \$0.20 per SKEY unit, the fee we have to Lock is 500 SKEY.

## Token Economy



### NFT Access Key generation

Each NFT Access key will have its lifespan, after which it will lose its functionality. The price of generating a NFT Access key depends on its lifespan, which is counted every 1 minute. The longer the lifespan, the higher the cost of generating such a key. This cost is paid in SkeyUSD tokens.

### Examples of services paid in SkeyUSD tokens (paid by the service provider):

- Blockchain Node registration
- Account registration
- A public description in the Skey Network MarketPlace
- Generating a device Access Key
- Device owner change
- Device activation / deactivation
- Device metadata changes
- Service Provider's dApp metadata changes
- Adding / Removing a key from a device whitelist

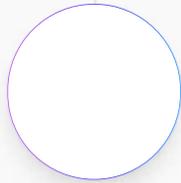
### Main economic rules summary

Due to the fact that Cities and service providers bear the costs of maintaining the blockchain network, end-users do not pay any transaction fees for using keys and transferring them between accounts.

Only service providers who generate revenue through the NFT keys in the Skey Network ecosystem bear the costs of creating those keys.

Pro-social Organizations may create keys without any fees.

# Types of Skey Network Ecosystem Users



## Service Provider

- covers all costs of using the ecosystem
- is required to set up a Blockchain NODE
  - pays for key generation
- earns its revenue on services provided

IoT device manufacturers, application providers, sharing economy service providers  
e.g. companies such as Orange or Teltonika

business use - profit-making goals

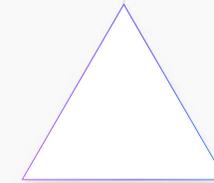


## Organization

- covers costs of using the ecosystem
- is required to set up a Blockchain NODE

city authorities, NGOs, public service providers

pro-social goals



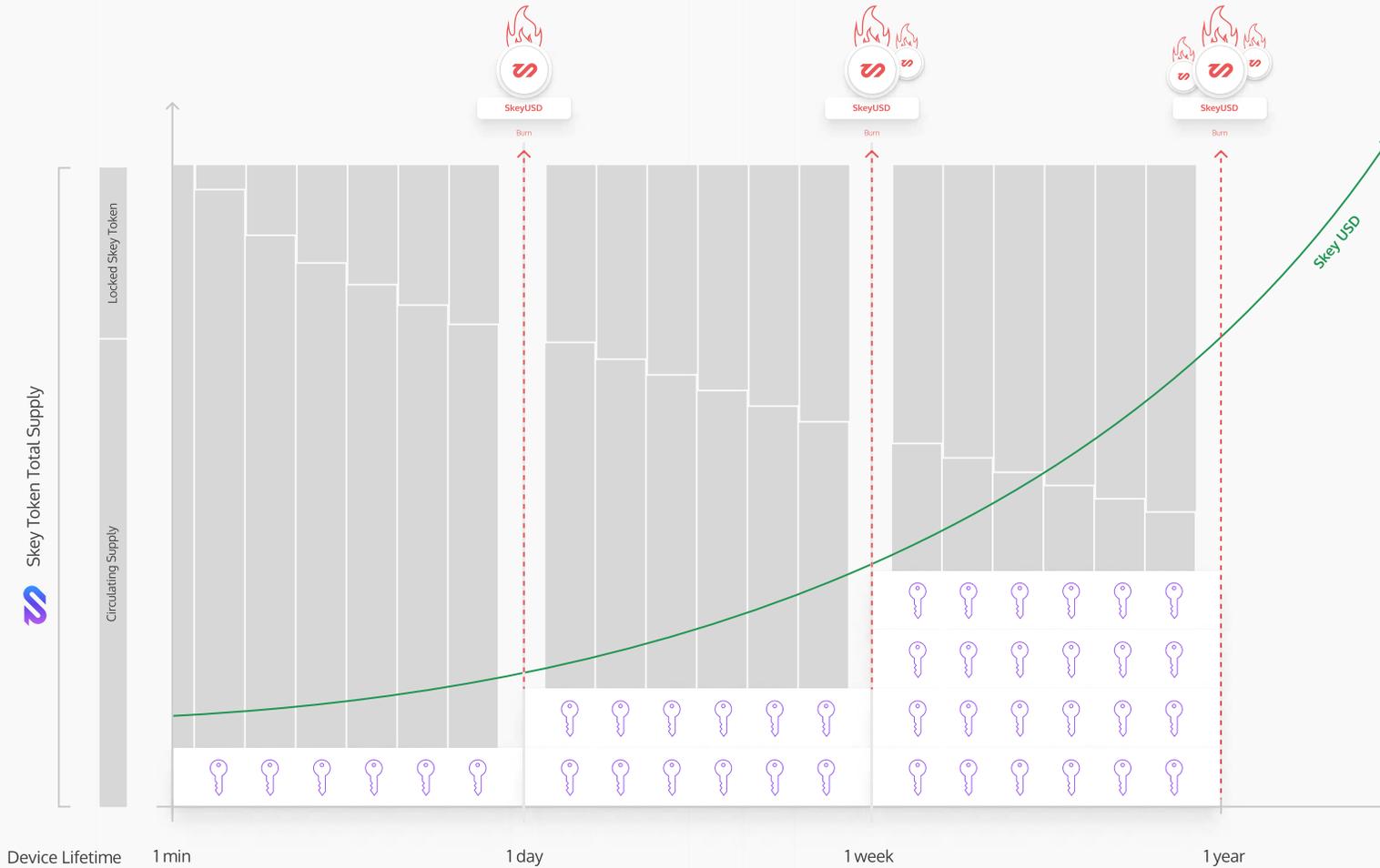
## End-User

- no transaction fee for using keys
- no transaction fee for transferring keys between accounts
- Pays only for receiving the key from the service provider.  
e.g., renting a scooter, accessing a hotel room

e.g. individual users

customers - service recipients

## Token Economy



## NFT Access Key generation

Each NFT Access key will have its lifespan, after which it will lose its functionality. The price of generating a NFT Access key depends on its lifespan, which is counted every 1 minute. The longer the lifespan, the higher the cost of generating such a key. This cost is paid in SkeyUSD tokens.

Keys are created for each BloT device. Usually, such devices operate on the market for 5 to 10 years. If we generate monthly keys for the device, we will have to create a new key every month in exchange for the expired one.

The consequence of this is that each new device increases the batch of locked Skey (ERC-20) cyclically.

## Factors that will impact the amount of Locked SKEY (ERC-20) tokens:

New partnerships and new service providers that will join the Ecosystem.

- The number of devices connected to the system.
- The number of keys generated for each device.
- The cyclicity of generating keys for devices connected to the Ecosystem.
- Number of end-users utilizing the keys

# Skey Network Products.

Skey Network's vision is to lay the foundations for the smart cities of the future. In order to do that, we are developing a range of products, partnerships, and technical solutions. These products use the universal BloT / Oracle Standard system to connect devices, technologies, systems, and clouds to blockchain platforms.

Skey Network's products are more than just an application for each of our partners. Our solutions are a universal base on which our partners and later other companies or individuals can build their own applications. This allows for a wider implementation of Skey Network in various business models.

In the long run, it will benefit our investors because our cryptocurrency is a utility coin. This situation means that SKEYs are needed to connect service providers with the blockchain.

## Product development stages description:

### 1 Analysis Stage

Business analysis of our product's potential strengths, weaknesses, opportunities, and threats. The analysis stage helps the project team to identify business partner's/client's needs and expectations.

### 2 MVP Stage

Minimum Viable Product is a version of a product with enough working features to be usable by early adopters/consumers who can provide feedback. Quick feedback is important for effective future product development.

### 3 Beta Stage

Beta testing is the first end-to-end testing of a product carried out by the Skey Network team.

### 4 Implementation Test Stage

Implementation tests are used to provide the product to real users who can help with uncovering any bugs or issues that can be addressed before the final release.

### 5 Release Stage

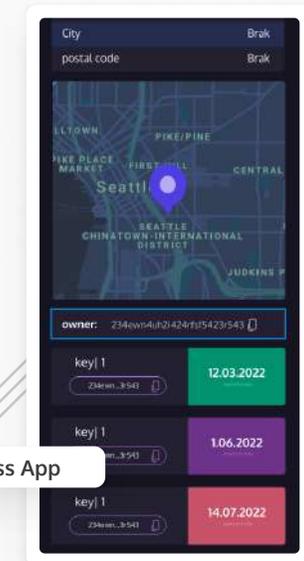
Launch of production version of the product.



Product development stage



An application that uses Skey Network technology to store access keys for IoT devices. The application is dedicated to business (B2B model) and individual users for personal use. Skey Access has the possibility of keeping and sharing keys with others. This will enable a facility to open a gate, barrier or device by touching a card.



Skey Access App

Application Trailer

<https://www.youtube.com/watch?v=GQayC08F3Kc>

Adnroid version

<https://play.google.com/store/apps/details?id=network.skey.access>

## Organization Manager

Product development stage

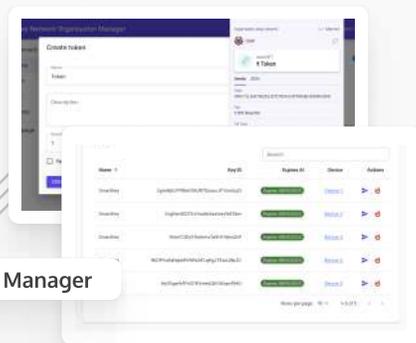


This is a control panel dedicated to service suppliers.

It allows:

- Generation of access keys for devices.
- Management of IoT devices.
- Decisions on their parameters.

Organization Manager is dedicated to organizations, companies, decision-makers. This Manager creates smart contracts containing parameters such as: the time of access to sensors or devices, the date of expiry of the contract (access to the device), the cost of access, user verification, and other parameters relevant to a given service. A service supplier (resource owner), e.g. a hotel, creates a model contract which it puts up for sale. By creating the contract, the supplier will select basic parameters, such as: the period of access to the service, e.g. hotel room, the method of user verification, e.g. hotel guest. Keys can be created based on the economic parameters of the supplier, so the key can be paid for or free.



Organization Manager

Organization Manager  
<https://dev-organization-manager.web.app>

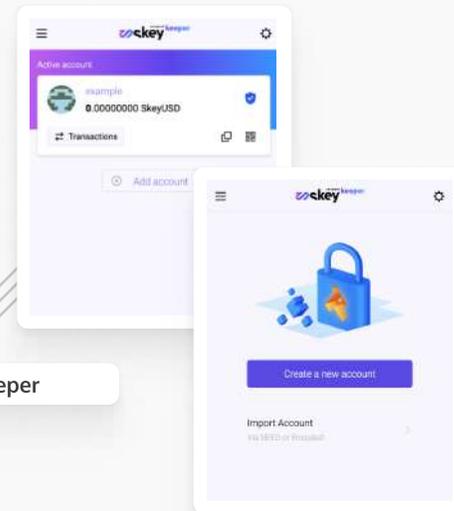
## Skey Keeper

Product development stage



Skey Keeper is a crypto wallet that can be used to save and manage access keys. The keys are generated by the service providers and sent to the device users' wallets. The additional function of the wallet is sharing the keys between other users.

See more: [https://www.youtube.com/watch?v=N\\_Z0aTaFnzw](https://www.youtube.com/watch?v=N_Z0aTaFnzw)



Skey Keeper

Skey Keeper Chrome Extension  
<https://chrome.google.com/webstore/detail/skey-keeper...>

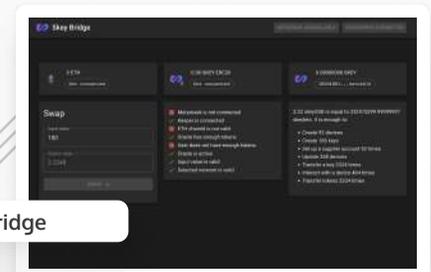
## Skey Bridge

Product development stage



The Skey Bridge is designed for corporations and city authorities that use our technology. The swapping process requires the connection of Skey Keeper and Metamask Wallets. Metamask is the wallet from which the ERC20 tokens will be taken, and Skey Keeper is the wallet into which the technical tokens will be sent after the swap.

Explainer: [https://www.youtube.com/watch?v=FuRYIT\\_cvxY&t](https://www.youtube.com/watch?v=FuRYIT_cvxY&t)



Skey Bridge

Skey Bridge  
<https://bridge-skey-dev.web.app>

# Skey Blockchain

Skey blockchain enables the creation of digital services, products, and applications. It is a flexible, fully independent database. Blockchain Skey is a data bus for emerging digital services and products. We provide full support, products, and tools.

- Access to a fast, scalable, and cheap blockchain
- Digital data security and decentralization
- Ready-made blockchain applications and tools
- User-friendly and easy to implement



Skey Blockchain

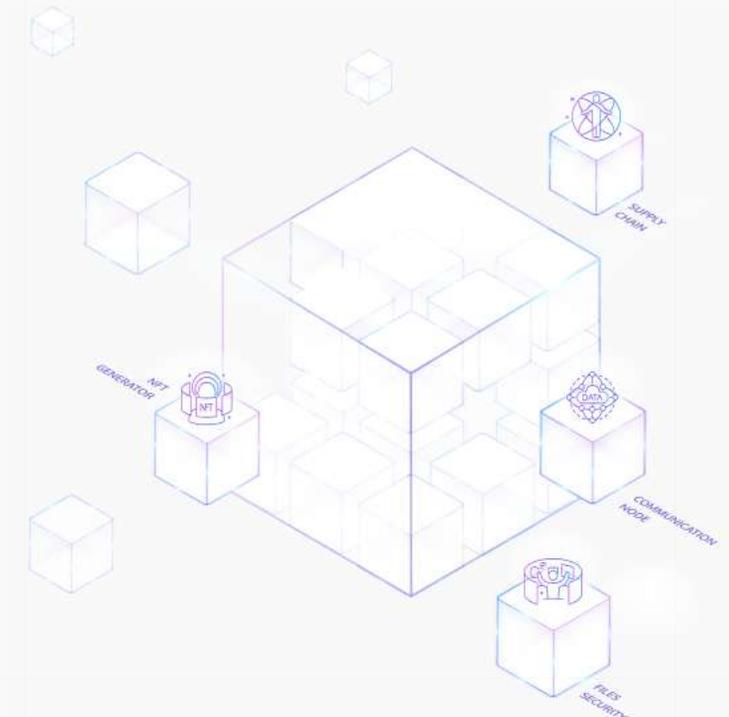
<https://skey.network/products/blockchain>

# BOX

Skey Box - Bring your business into blockchain in just a few minutes. Skey Box is a set of a few tools to enable the implementation of blockchain technology, reducing the integration time. Skey Box - a set of tools that allow the company to enter blockchain technology quickly.

Skey Box is a product:

- easily scalable and universal - for every industry and every company, regardless of its size;
- low cost in implementation - the entry barrier for the client is set at an attractive financial level;
- works equally well on several hundred and several million implementations;
- a package/modular solution means easy adaptation/changes according to the needs of a given client;
- adding new services to the package or commissioning external companies to create additional components we can add to the box is very simple (after prior consultation and training by Skey Network experts).

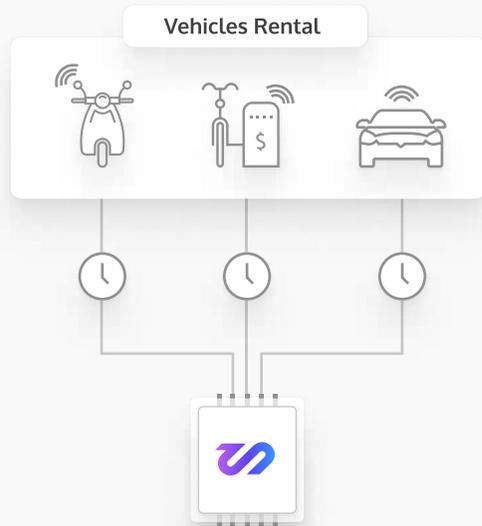


Skey Box

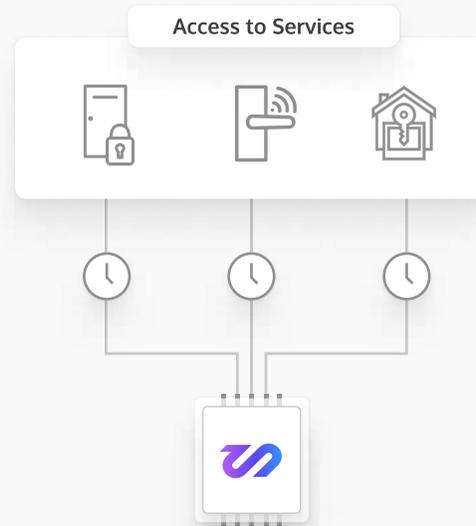
<https://box.skey.network/>



Rental module is designed specifically to meet the needs of automotive and transport businesses. With the Rental module, users can automate access to their fleet of vehicles for rental or other purposes. Our Skey universal communication system greatly supports Sharing Economy. Skey BoT technology and products, allow you to share cars and public scooters with just a few clicks on a simple app.



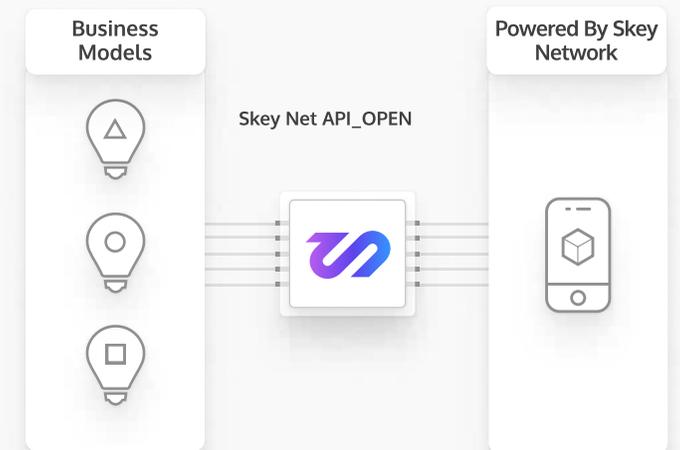
Our service module is designed to manage access to private assets such as residential properties. This can be to provide limited access to trusted services such as couriers, builders, cleaners, and repair teams. Using the Service module, users will be able to provide access to multiple authorized persons or companies without the need for multiple keys or devices. The big advantage of using our technology in providing access to residential areas is the ability to issue virtual keys with a set expiration date. A good example of the usefulness of this system is giving access to a building to a repair team.



This module is dedicated to partners and service providers that have a lot of assets that could benefit from being connected to the Blockchain ecosystem.

It will be used in management systems for hotels, home and office rentals, parking lots, and other zones with paid access.

Using the Business module, service providers can leverage automation and smart contracts to manage access to their physical assets. New economic models for your business will be possible in future smart cities using the Skey Network Business module.



## Case Study

# Examples of the use of the Skey ecosystem

Skey Network is ready-made blockchain technology. An ecosystem that allows you to create entirely new products and business opportunities. We present examples of the use of Skey Network technology; some are already implemented and many are being tested.



## Cloud Connector

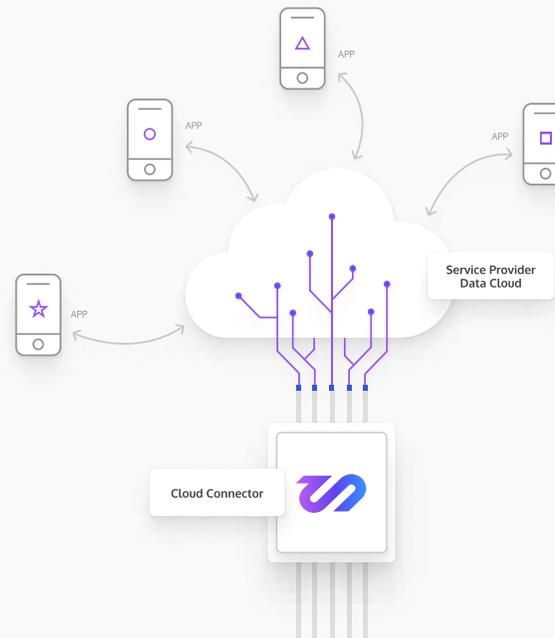
The Skey Net Cloud Connector will provide hundreds of cloud-based apps with access to an array of blockchain ecosystems, including Ethereum, Polkadot, Tron, and Waves.

This solution makes it possible to use Skey Network technology for every project that is using the cloud which has implemented the connector. Projects that could benefit from these solutions are IT services, applications, and systems.

Example of use:

The operator provides commercial cloud resources and structures to companies and users. After adding Skey Net Cloud Connector, the operator obtains new technological and economic possibilities for its applications and systems.

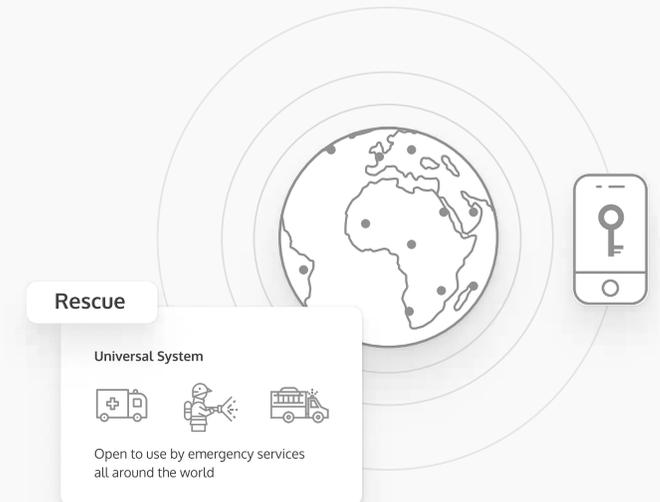
Hundreds of cloud-based applications can automatically start providing Blockchain access services for various ecosystems - Ethereum, Polkadot, Tron, Waves.



## Rescue

SkeyNet's Rescue module is used by emergency services to reduce travel time to the scene of an incident. Rescue opens gates to guarded communities using the Skey Network. This solution eliminates the need for emergency services to track down the key holder before being able to enter a restricted zone. The system allows for opening gates to guarded communities by combining the functionality of Blockchain technology with the Internet of Things (IoT).

The Rescue module is already released and used in the Warmian - Masurian region of Poland. The Skey Network assumes wider adoption of this module in the near future.





Caruma - uses the Skey Network blockchain, which powers the One Key by Caruma application. It is a virtual key that provides access to many spaces - gates, barriers, intercoms. It improves the work of municipal services because they can more easily get where they need to. It is the implementation of the Smart City strategy. These Polish cities have already joined to Skey ecosystem:

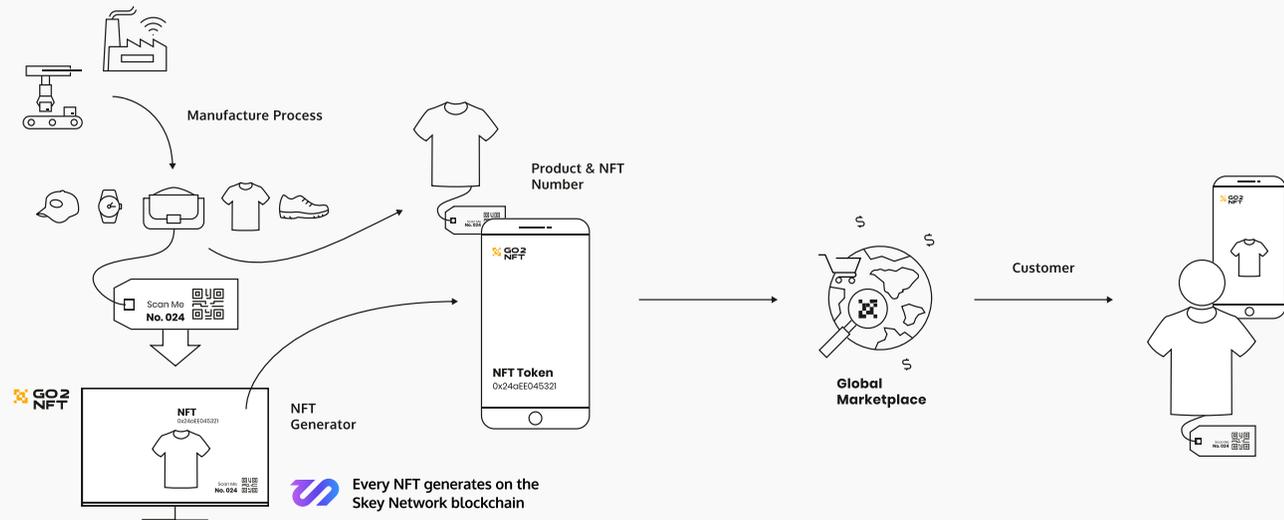
- Kolobrzeg,
- Grudziadz,
- Warsaw,
- Olsztyn.



Caruma is testing its solution for access control on the infrastructure of the Olsztyn-Mazury Airport. The airport services use our app in the areas that are restricted - parking places.



Go2NFT uses the Skey blockchain to generate corporate NFTs which provide confirmation of the authenticity and ownership of products and a record of all parameters of a given item. This solution can be used by companies and individuals - anyone who wants to secure their product through digitization. Go2NFT is a project whose goal is to permanently connect a physical product already at the stage of production or subsequent mass introduction to the market with a virtual counterpart, i.e. a digital NFT certificate, confirming its value and authenticity.



Go2NFT has a partnership with the VSR Team supported by Lamborghini! They authenticate the various car parts of the racing car using the NFT-NFC technology.



Go2NFT has a cooperation with SU-2 - Kiteboards Factory, a manufacturer of kitesurfing boards. The merger of the brands aims to digitize a series of collector's boards by giving them an NFT. It allows the customer to confirm their properties and check all parameters of a given board.

## Roadmap

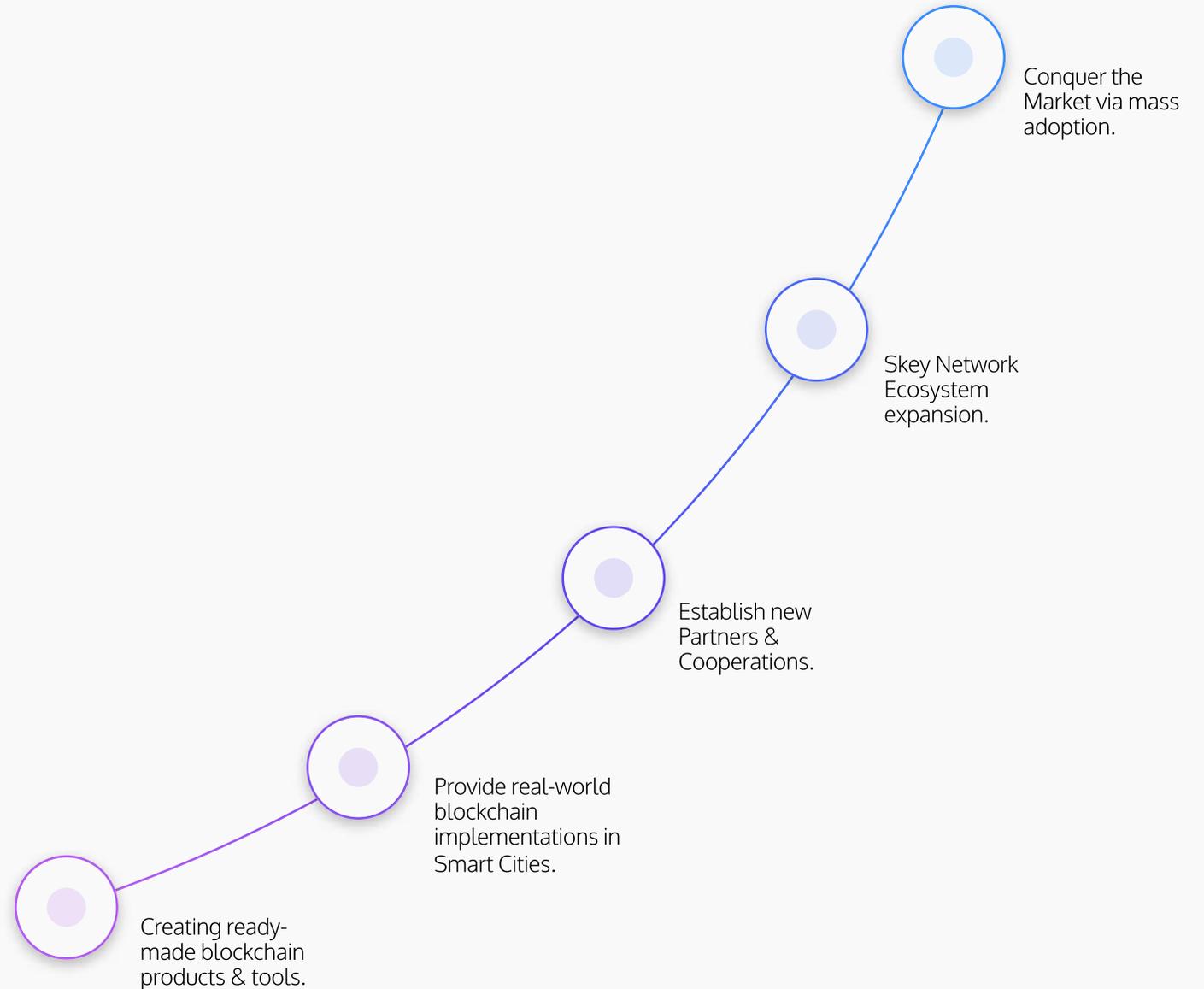
# Roadmap

We are constantly increasing the quality of our products and the recognition of the Skey Network brand as a blockchain ecosystem. Our blockchain is fast, low cost, easy to implement and ecologically sustainable (Leased Proof of Stake).

Our Tokenomic is unique. More and more implementation means burning Skey tokens and increasing of Skey price. It's a utility token for creating NFT for IoT devices. The increasing number of keys means price growth.

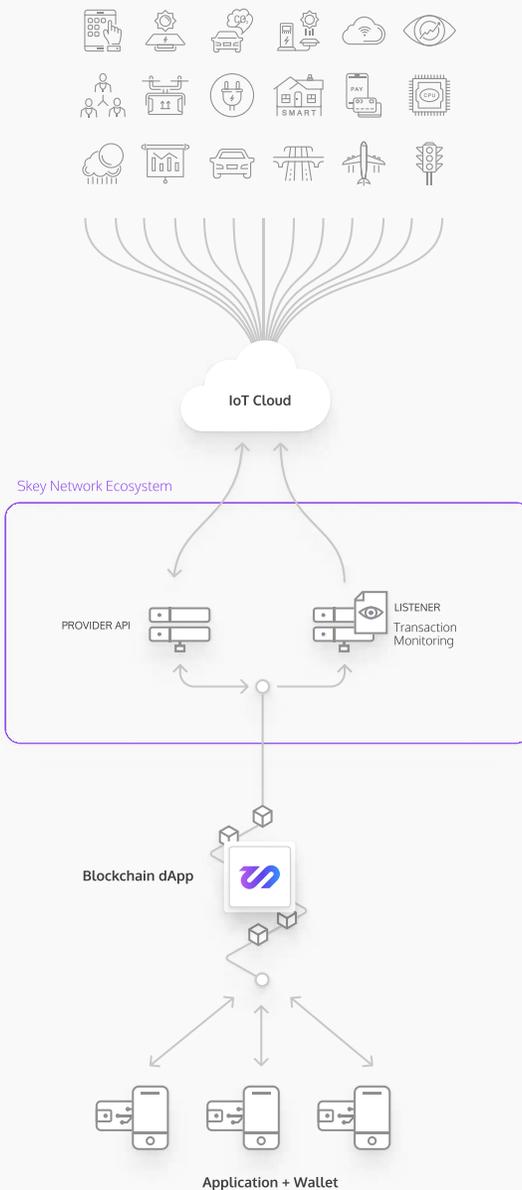
Our latest product Skey Box can bring your business into blockchain in just a few minutes. Skey Box is a set of a few tools to enable the implementation of blockchain technology, reducing the integration time.

Our mission is to help companies and together lead to mass adoption in many areas of the economy. We want to provide blockchain and tools for quick, simple and cheap integration. We are increasing the recognition of our brand as a blockchain ecosystem. This is the long-term strategy that we believe in and want to pursue.

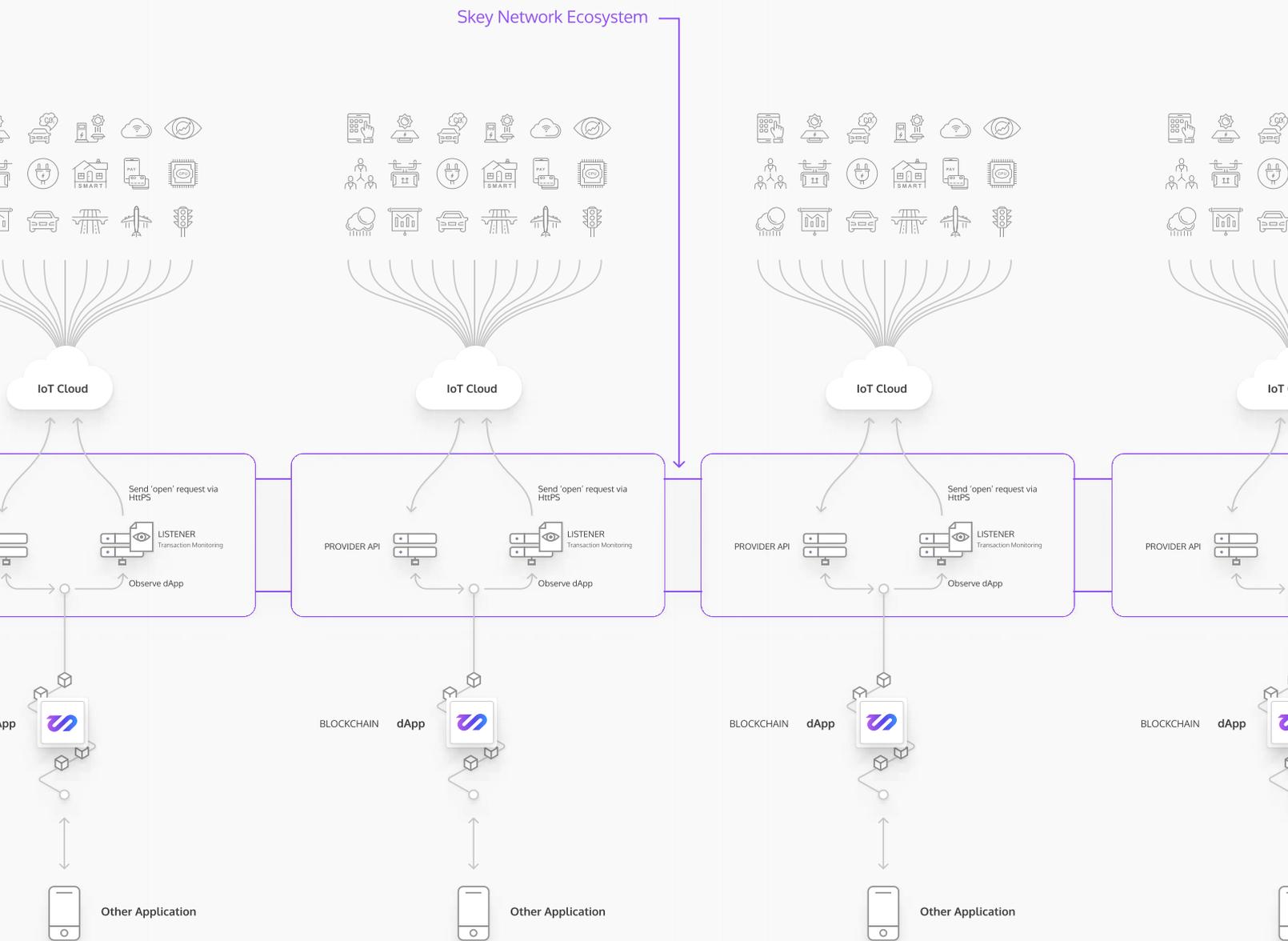


In order to connect to the Skey Network technical blockchain, each of the Partners is treated as a 'provider' of a new service, which must implement elements of the Skey Network architecture on its side, such as:

- REST API as an interface for managing the main dApp of the provider.
- Listener that listens to events on the provider's dApp and sends a signal to the IoT cloud with the command at the right moment.
- The elements that consist of the entire ecosystem called Oracle



## Technological description of the integration of technological partners with the Skey Network technical blockchain

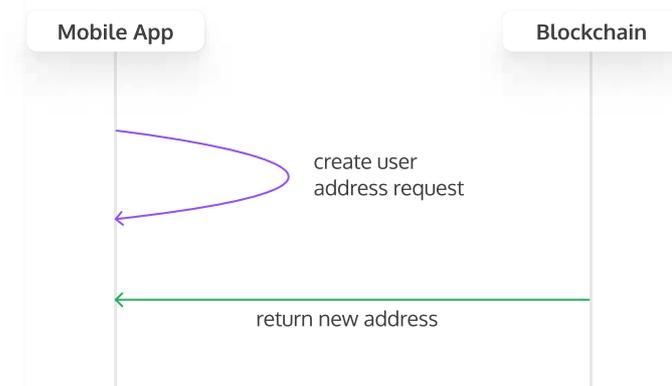


After connecting to the Oracle, partners can communicate and transfer data via Blockchain and Sky Network dApp.

The tangent element of both providers is the Blockchain and the device keys (tokens) generated in it.

For proper operation, each of the elements is described with procedures for easy and intuitive integration of the Partner with the Sky Network ecosystem platform. One of the main procedures are, among others, the following processes:

- setting up a user account, i.e. a wallet from a dedicated application

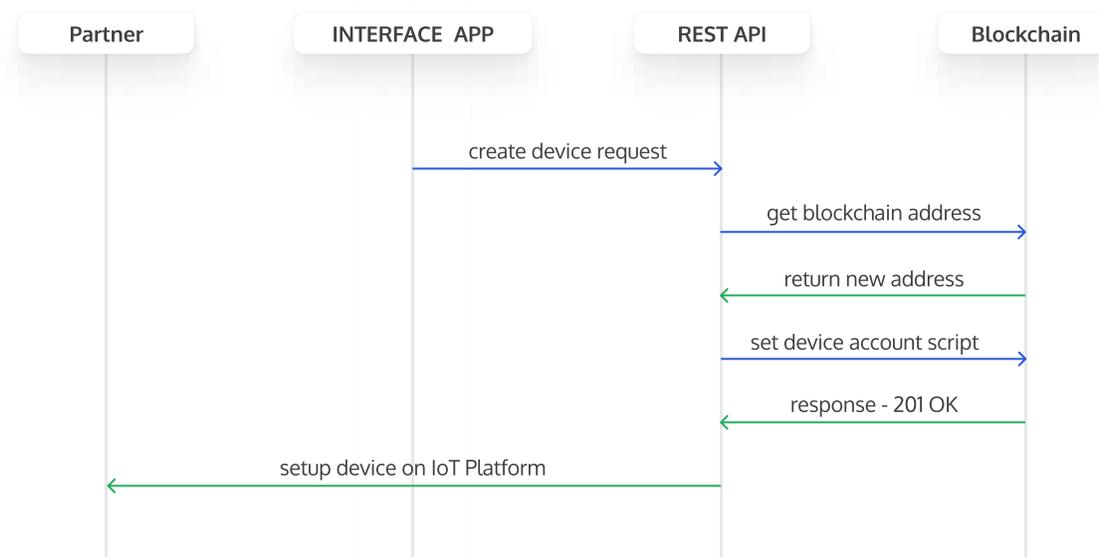


```

7  export class Account {
8    readonly address: string
9    readonly publicKey: string
10   readonly privateKey: string
11   readonly seed: string
12
13   // Each value can be derived from seed phrase
14   // seed => private key => public key => address
15
16   constructor(seed: string) {
17     this.seed = seed
18     this.privateKey = Crypto.privateKey(this.seed)
19     this.publicKey = Crypto.publicKey({ privateKey: this.privateKey })
20     this.address = Crypto.address(
21       { publicKey: this.publicKey },
22       config.skey.chainId
23     )
24   }
25
26   static random() {
27     return new Account(Crypto.randomSeed(15))
28   }
29 }
30
31 export const formatError = (err: any): string => {
32   switch (err.error) {
33     case 112:
34       return "Your account doesn't have enough funds"
35     default:
36       return 'Unknown error'
37   }
38 }
39
40 // The convention is that it has to have 15 words, all lowercase and delimited by spaces
41 export const validateSeed = (seed: string): boolean => {
42   if (seed.trim().split(' ').length !== 15) return false
43
44   const lowercaseOnly = /^[a-z|\ ]+$/g
45   if (!lowercaseOnly.test(seed)) return false
46
47   return true
48 }
49
50 export const fetchBalance = async (address: string): Promise<number> => {

```

### • Adding an IoT device

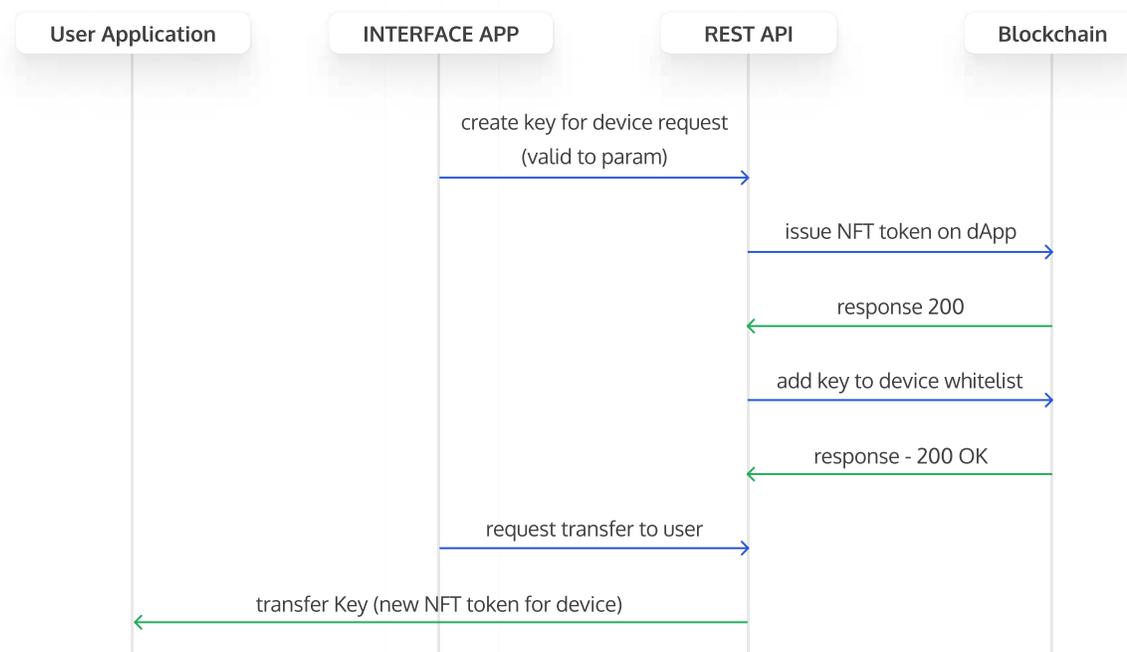


```

1 import {
2   Controller,
3   Post,
4   UseGuards,
5   Get,
6   Param,
7   Delete,
8   Body,
9   Put
10 } from '@nestjs/common'
11 import { AddressValidationPipe } from '../validators'
12 import { JwtAuthGuard } from '../auth/jwt-auth.guard'
13 import {
14   CreateConnectionDto,
15   CreateDeviceDto,
16   EditDeviceDto
17 } from './devices.model'
18 import { DevicesService } from './devices.service'
19
20 @UseGuards(JwtAuthGuard)
21 @Controller('devices')
22 export class DevicesController {
23   constructor(private readonly devicesService: DevicesService) {}
24
25   @Post()
26   async create(@Body() createDeviceDto: CreateDeviceDto) {
27     return await this.devicesService.create(createDeviceDto)
28   }
29
30   @Get()
31   async index() {
32     return await this.devicesService.index()
33   }
34
35   @Get('/:address')
36   async show(@Param('address', AddressValidationPipe) address: string) {
37     return await this.devicesService.show(address)
38   }
39
40   @Delete('/:address')
41   async destroy(@Param('address', AddressValidationPipe) address: string) {
42     return await this.devicesService.destroy(address)
43   }
44 }

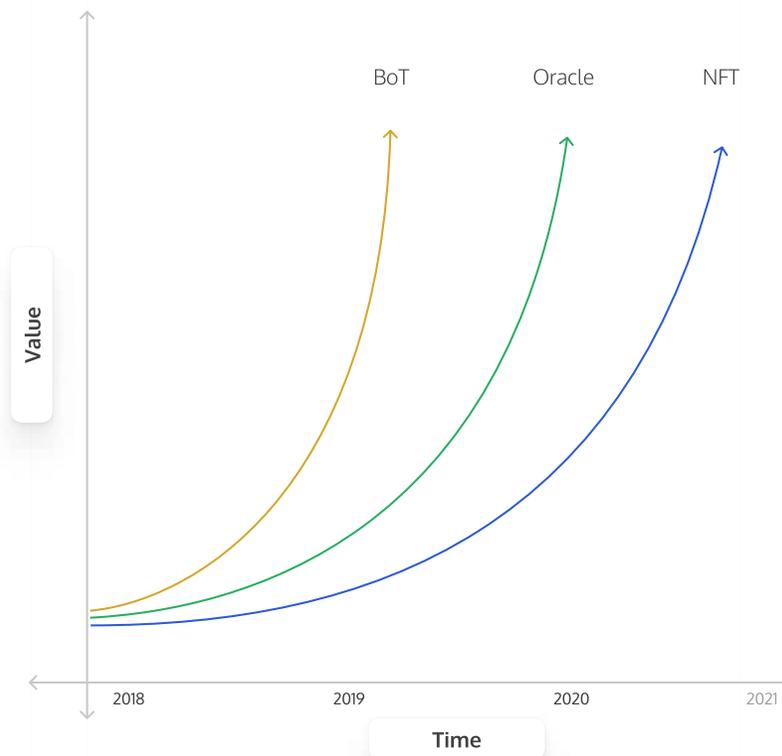
```

• Generating and transferring the Skey Network key



### The technologies that combine to create the NFT access token are as follows:

BloT (Blockchain Internet of Things). BloT is a combination of Blockchain functionality and Internet of Things devices. IoT devices are becoming more and more common in the world that surrounds us. Examples of where such devices can be installed are gates, cars, parking lots, parcel locker systems, apartments, and buildings. Our project is focusing mainly on devices that grant access to assets but is not limited to them.



Oracle. A set of servers that are used to retrieve data from the internet and store it on the blockchain in a form of a smart contract. On the previous graphs, the PROVIDER API and the LISTENERS are our solutions Oracles. In the case of Skey Network, Oracles can be used to verify elements that will affect the value of the Smart Contract such as weather conditions or seasonality. They can have also other functions like verifying the parties of the smart contract. An example of this would be a case in which the Oracle is used to make a contract that will be validable only when it's raining. The Oracle will connect to the internet to check the weather conditions and then decide if the contract can be executed.

**Contract conditions. These can be decided by the party issuing the smart contract. They can include:**

- Time in which the contract is validable. For example, the access to a hotel room may be active from 4 pm to 10 am the next day.
- Contract expiration date. For example, a car may be accessed for 24 hours.
- Payment and payment method. Skey Network will give its users access to gates linking various cryptocurrencies as well as FIAT payments.

NFT Access tokens are unique non-fungible keys made out of the combination of above-mentioned technologies. The key can then be:

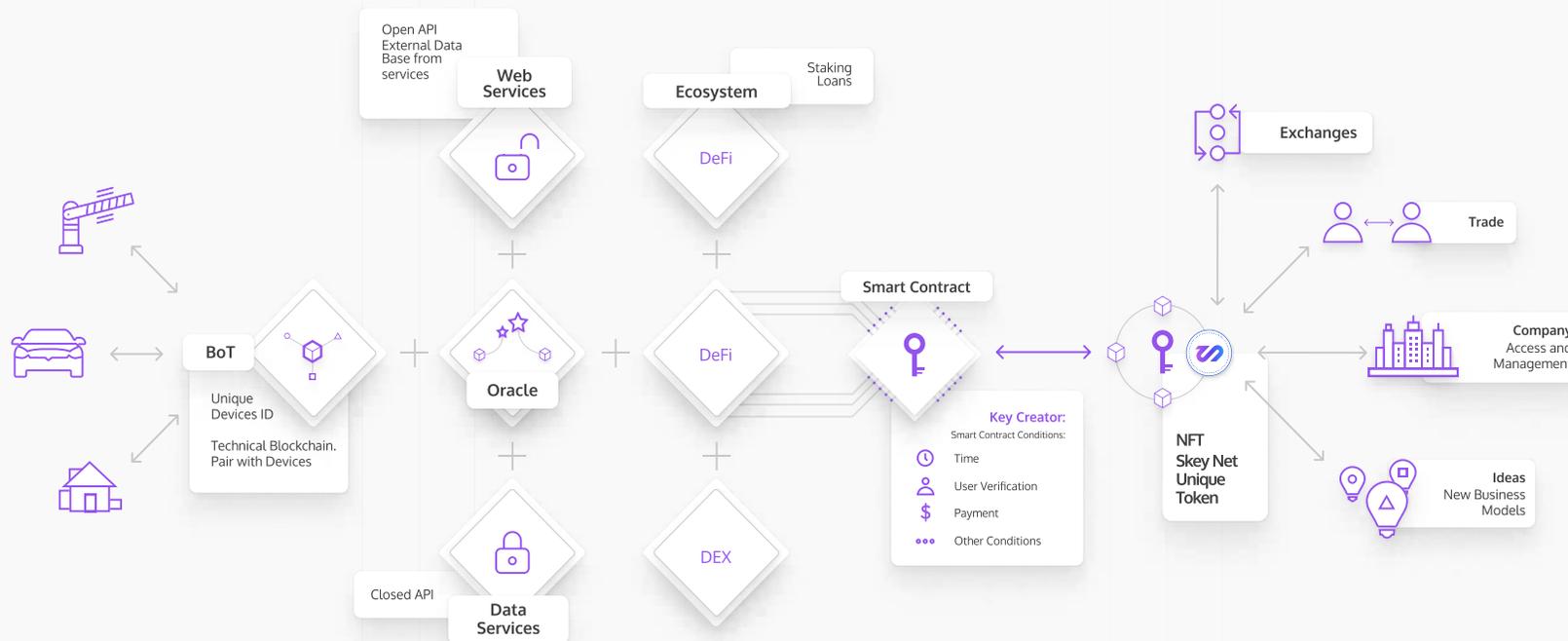
- Rented
- Sold
- Traded

Used to form new business models based on Sharing Economy – car rental, Airbnb services, etc.

Used in other business models based on providing access to assets – parcel lockers, storage lockers, etc. And so on.

Used by a company for asset access managing – for example giving their employees access to the companies office.

Used by an individual person for his own needs – like opening and closing a house or giving access to an apartment to the cleaning services.



```

22 @UseGuards(JwtAuthGuard)
23 @Controller('keys')
24 export class KeysController {
25     constructor(private readonly keysService: KeysService) {}
26
27     @Get()
28     async index(
29         @Query('limit', LimitPipe) limit: number,
30         @Query('after', OptionalAssetIdValidationPipe) after: string
31     ) {
32         return await this.keysService.index(limit, after)
33     }
34
35     @Post()
36     async create(@Body() createKeyDto: CreateKeyDto) {
37         return await this.keysService.create(createKeyDto)
38     }
39
40     @Get(':assetId')
41     async show(@Param('assetId', AssetIdValidationPipe) assetId: string) {
42         return await this.keysService.show(assetId)
43     }
44
45     @Put(':assetId/transfer/:address')
46     async transfer(
47         @Param('assetId', AssetIdValidationPipe) assetId: string,
48         @Param('address', AddressValidationPipe) address: string
49     ) {
50         return await this.keysService.transfer(assetId, address)
51     }
52
53     @Delete(':assetId/device/:address')
54     async removeFromDevice(
55         @Param('assetId', AssetIdValidationPipe) assetId: string,
56         @Param('address', AddressValidationPipe) address: string
57     ) {
58         return await this.keysService.removeFromDevice(address, assetId)
59     }
60
61     @Delete(':assetId')
62     async burn(@Param('assetId', AssetIdValidationPipe) assetId: string) {
63         return await this.keysService.burn(assetId)
64     }
65

```



## GitHub Documentation

All documentation describing the processes is available on GitHub along with the source code of the solution.

<https://github.com/skey-network>

<https://skey-network.gitbook.io/skey-network/>

## Project Partners



### Orange

Orange Polska is one of the most popular telecoms in Poland. In addition, the company also deals with IoT solutions and their implementations. Orange already has 2 million M2M IoT solutions and a wide range of satisfied users. Currently, almost 80 cities are using Smart City solutions provided by Orange in Poland, which continues to grow. Their solutions had a positive impact on the daily lives of many residents.

<https://smartkeyplatform.medium.com/smartkey-x-orange-the-worlds-first-blockchain-of-things-sim-for-smart-cities-9e7edad42d28>



### Chainlink

Chainlink and Skey Network are proven blockchain technologies that aim to revolutionize the IoT market and connect future smart cities. Chainlink is Skey Net's blockchain oracle of choice. By simplifying how smart contracts access off-chain resources, Chainlink is accelerating the development of useful IoT smart contracts. Skey Network takes Chainlink's capability a step further by enabling easy connections to physical devices performing key IoT-enabled services. The partnership of Skey Network and Chainlink will open up new data-driven smart contract use cases in IoT, such as automatic activation of emergency response systems during bad weather conditions, authorized access to gated municipal areas when city-wide alerts are issued, and many other possibilities. You can learn more about blockchain oracles and the Skey Network on our Medium.

<https://smartkeyplatform.medium.com/smartkey-and-chainlink-to-collaborate-in-government-approved-blockchain-project-to-power-smart-e205e2a2ac13>



### Teltonika

Teltonika's bestselling GPS trackers (FMB920) are mounted on every single emergency vehicle, as well as closed district and private property barriers, gates, and building intercom systems. Integration with Skey Network will allow users to track their device's location and control the corresponding locks via GPS and remote commands sent from the mobile app through the Skey Network. In partnership with Teltonika, the city of Olsztyn in Northern Poland became the first in the world to successfully introduce SmartKey-controlled building access for municipal emergency services. You can read more about the pioneering project on Teltonika's website.

<https://teltonika-gps.com/about-us/pioneering-blockchain-project-for-emergency-services/>

## Project Partners



### Waste 24

Comprehensive waste24.net system for municipal management. The Waste24.net system makes working with BDO easier. Thanks to full integration with the waste base, waste management becomes simpler, automated and more intuitive.

<https://waste24.net>



### VP Plant

Comprehensive waste24.net system for municipal management. The Waste24.net system makes working with BDO easier. Thanks to full integration with the waste base, waste management becomes simpler, automated and more intuitive.

<https://vpplant.pl>



### Ferrum Network

Ferrum Network is a part of a new product solution. The new implementation will be based on the active deposit and active investment model that will be used in the modern sharing economy of the cities of the future. The Skey Network ecosystem will provide transparent mechanisms for gaining access to physical assets while users will be able to use staking mechanisms in their own business models.

Modern economics is based on the sharing of physical goods. Blockchain can automate deposit and investment processes in the modern economy of the physical world while a deposit product is often needed and can be paid in the form of tuxedo mechanisms.

<https://ferrum.network>

## Project Partners



### BioPoint

BioPoint is a manufacturer of specialized feed additives. It supplies its products to over 40 countries in the world. The agricultural industry is a vast sector and opportunities to use blockchain technology, e.g., as security and transparency of the supply chain.

<https://biopoint.pl>



### Mazury-Airport

A domestic airport in the region of Mazury, Poland where Skey Network has created a blockchain-based test application for access control within the airport infrastructure.

<https://mazuryairport.pl>



### Kleiberit

Kleiberit is a truly global company with more than 70 years of tradition in the chemical industry, specializing in techniques for joining materials by adhesive methods, is entering new areas in its continuous development. The advantages of SkeyNetwork technology, such as transparency, document authentication, and product certification, are aspects valued by Kleiberit.

<https://kleiberit.com>

## Media & Press



Olsztyn claims world-first by linking blockchain to emergency services – English <https://www.smartcitiesworld.net/news/olsztyn-claims-world-first-by-linking-blockchain-to-emergency-services-5900>

Polish city becomes first to adopt Ethereum blockchain for emergency services – English <https://coingecko.com/news/polish-city-becomes-first-to-adopt-ethereum-blockchain-for-emergency-services>

Invest in SmartKey: Why this Cryptocurrency could have Big impact – English <https://cryptoworldnews.us/invest-in-smartkey-why-this-cryptocurrency-could-have-big-impact/>

Global Intelligent Solutions Manufacturer, Ferguson To Adopt Ethereum Blockchain As Standard Across All Devices Using Smartkey – English <https://www.buzzblockchain.com/2020/11/19/global-intelligent-solutions-manufacturer-ferguson-to-adopt-ethereum-blockchain-as-standard-across-all-devices-using-smartkey/>

Smartkey to integrate with leading intercom manufacturer, Wekta – English <https://www.marketwatch.com/press-release/smartkey-to-integrate-with-leading-intercom-manufacturer-wekta-2021-02-19>

City in Poland uses blockchain to assist emergency services – English <https://finance.yahoo.com/news/city-poland-uses-blockchain-assist-110051021.html?guccounter=1>

SMARTKEY TO INTEGRATE WITH LEADING INTERCOM MANUFACTURER, WEKTA, GIVING 3.5M HOUSEHOLDS BLOCKCHAIN-ENABLED ACCESS CONTROL IN LATEST STEP TO BUILDING THE SMART CITIES OF THE FUTURE – English <https://www.greatreporter.com/content/4034/smartkey-integrate-leading-intercom-manufacturer-wekta-giving-35m-households-blockchain>

City in Poland uses blockchain to assist emergency services – English <https://coinrivet.com/city-in-poland-uses-blockchain-to-assist-emergency-services/>

BITWORK CEO AND OKEX FORMER EXECUTIVE ANDY CHEUNG JOINS SMARTKEY BLOCKCHAIN PROJECT – English <https://financialit.net/news/people-moves/bitwork-ceo-and-okex-former-executive-andy-cheung-joins-smartkey-blockchain>

Une ville polonaise devient la première à utiliser Ethereum (ETH) pour ses services d'urgence-French <https://www.cointribune.com/actualites/une-ville-polonaise-devient-la-premiere-a-utiliser-ethereum-eth-pour-ses-services-durgence/amp/>

'스마트키'와 '체인링크', 스마트 시티 동력 공급 위한 파트너십 체결 – Korean <http://www.newsbrite.net/news/articleView.html?idxno=143948>

Polish city becomes first to adopt Ethereum blockchain for emergency services – English <https://www.investing.com/news/cryptocurrency-news/polish-city-becomes-first-to-adopt-ethereum-blockchain-for-emergency-services-2357734>



### Check out our videos:

Skey Network Connector - How does it work - Explainer Video  
<https://www.youtube.com/watch?v=TWC6yUrTM8E>

Solution for Skey Network Emergency Service - Ethereum Blockchain  
[https://www.youtube.com/watch?v=dUPeP7OHvd8&ab\\_channel=SmartKey](https://www.youtube.com/watch?v=dUPeP7OHvd8&ab_channel=SmartKey)

Skey Network solution presentation for Airbnb (Korean version)  
[https://www.youtube.com/watch?v=jC7RspD63X0&feature=emb\\_title](https://www.youtube.com/watch?v=jC7RspD63X0&feature=emb_title)

Payment for renting a Mercedes with the DeFi service.  
Presentation of MVP SmartKey, Blockchain of Things technology. [https://www.youtube.com/watch?v=kpqRqGoGgTA&feature=emb\\_title](https://www.youtube.com/watch?v=kpqRqGoGgTA&feature=emb_title)

Presentation of the Skey Network solution for the project partner KIA corporation.  
[https://www.youtube.com/watch?v=eUOF0HERDZw&feature=emb\\_title](https://www.youtube.com/watch?v=eUOF0HERDZw&feature=emb_title)

Project presentation for the Korean community.  
[https://www.youtube.com/watch?v=oFyD2Tm4tY&feature=emb\\_title](https://www.youtube.com/watch?v=oFyD2Tm4tY&feature=emb_title)

### YouTubers talk about our project:

BitBoy Crypto - One Crypto Project Changes Everything (KEY To The Future) <https://www.youtube.com/watch?v=Hk2okIKj7Pw&t=107s>

BitBoy Crypto - 7 Coins to \$7 Million Dollars in 2021 (Teeka Tiwari DeFi Picks!)  
[https://www.youtube.com/watch?v=odUic8xcSiY&ab\\_channel=BitBoyCrypto](https://www.youtube.com/watch?v=odUic8xcSiY&ab_channel=BitBoyCrypto)

Крипто Батенька - Какую криптовалюту купить в 2021 году? Smart Key сделал 30X и это еще не предел [https://www.youtube.com/watch?v=lvYd9rmj\\_Wo&feature=youtu.be](https://www.youtube.com/watch?v=lvYd9rmj_Wo&feature=youtu.be)

Крипто Батенька - SMARTKEY и CHAINLINK объявили о сотрудничестве <https://www.youtube.com/watch?v=xt0Z0TbOllg&t=5s>

Davincij5 - OMG!! EPIC MOVEMENTS IN THE BITCOIN AND CRYPTO MARKET IMMINENT!!!!  
[here's what I am buying] <https://www.youtube.com/watch?v=VwFslDG5eM&t=1856s>

Made in Blockchain - SmartKey платформа, которая позволяет связать друг с другом физические предметы <https://www.youtube.com/watch?v=kyVvaSBMsUc>

## Company, Legal disclaimer.

Project implemented by the company:

Skey Network UAB

Registration code: 306081745

Lithuania, Lvovo st. 105, 08-104



## 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:

Information

[office@skey.network](mailto:office@skey.network)

This document is not an issue prospectus, an offer to take up shares in a project, to sell property rights on the basis of Estonian or other country's jurisdiction. By purchasing Skey Network tokens, you acquire the possibility to use the Skey Network system services of the skey.network application as well as platforms and solutions that will be created in the future using Skey Network technology. You will be able to use the Skey Network platform as a private individual, entity, organization or company. Skey Network tokens allow access to the platform's technological resources and its capabilities.

## Social Networks:



Twitter

<https://twitter.com/SkeyNetwork>



Youtube

<https://www.youtube.com/channel/UC6oK-SixW9yysYFAXBou6sA>



Reddit

<https://www.reddit.com/r/skeynetwork/>



Telegram

<https://t.me/SkeyNetworkNews>

<https://t.me/SkeyNetworkChat>

[https://t.me/SmartKeyChat\\_Korea](https://t.me/SmartKeyChat_Korea)

<https://t.me/SkeyNetworkChatPL>



Facebook

<https://www.facebook.com/SkeyNetwork>



LinkedIn

<https://www.linkedin.com/company/skeynetwork/>



Discord

<https://discord.gg/kGeFxapyhl>



Medium

<https://skeynetwork.medium.com/>



Kakao Talk

<https://open.kakao.com/o/g9fgzwPc>

<https://open.kakao.com/o/g9sto4hd>