BLOCKO
Company Credential

BLOCKO

Platform Player for Everyone's Blockchain

BLOCKO

BLOCKO was founded in 2014 by database experts who were looking for technology beyond the limits of existing databases (DB).

We are living in an era where data is as essential as crude oil. BLOCKO is striving to achieve the popularization of blockchain—the blockchain for all—where everyone is given equal information and democratization can be achieved. To achieve this goal, we are focusing on blockchain technology development, and continually launching and testing solutions and services that leverage trusted and verified data.

Since the launch of AERGO Mainnet, BLOCKO has been constantly working on developing technology and upgrading the platform. With our technical expertise, BLOCKO offers a blockchain platform customized to what businesses and individuals need, moving across the boundaries between public and private blockchains.

BLOCKO will take the lead in democratizing data and popularizing the blockchain.

BLOCKO at a glance

BLOCKO

CEO	Won-Beom Kim
Founded	2014. 12
Areas of business	Blockchain platform development and distribution, blockchain software development, consulting
Number of employees	68 (As of February 2020)
Products	AERGO Enterprise, AERGO Hub, INSTSIGN
Website	blocko.io
Address	#16F, 331-8 Sungnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
Contact number	+82 31 8016 6253

Strengths

Blockchain Technology Specialist

o Korea's first GS-certified(ISO-compatible) blockchain platform

o Development and commercialization of our own blockchain engine and enterprise platform

o Over 60% of the employees are core developers and engineers

- Unique strengths in blockchain software
- Continuous development of performance, stability, ease of development, and management tools

Greatest number of use cases in Korea, globally recognized skills

o Greatest number of successful consulting, construction, pilot projects and commercialized cases

o Blockchain platform with highest technological standard and ease of use to satisfy customer demands

o Blockchain company recognized by Gartner

- Selected in blockchain PaaS sector alongside AWS and IBM
- One of the only companies to be simultaneously listed in Hype Cycle of Blockchain Technologies 2019 and Market Guide

BLOCKO's symbolic numbers

BLOCKO

0
Mainnet failure

Transactions processed per second
8,443+ TPS

Corporate clients
50 +

Large enterprises, government agencies working with BLOCKO
15 +

Mainnet commits (open-source contributions on Github)
2,600+

Transactions
562,222+ TX

Mainnet updates
65
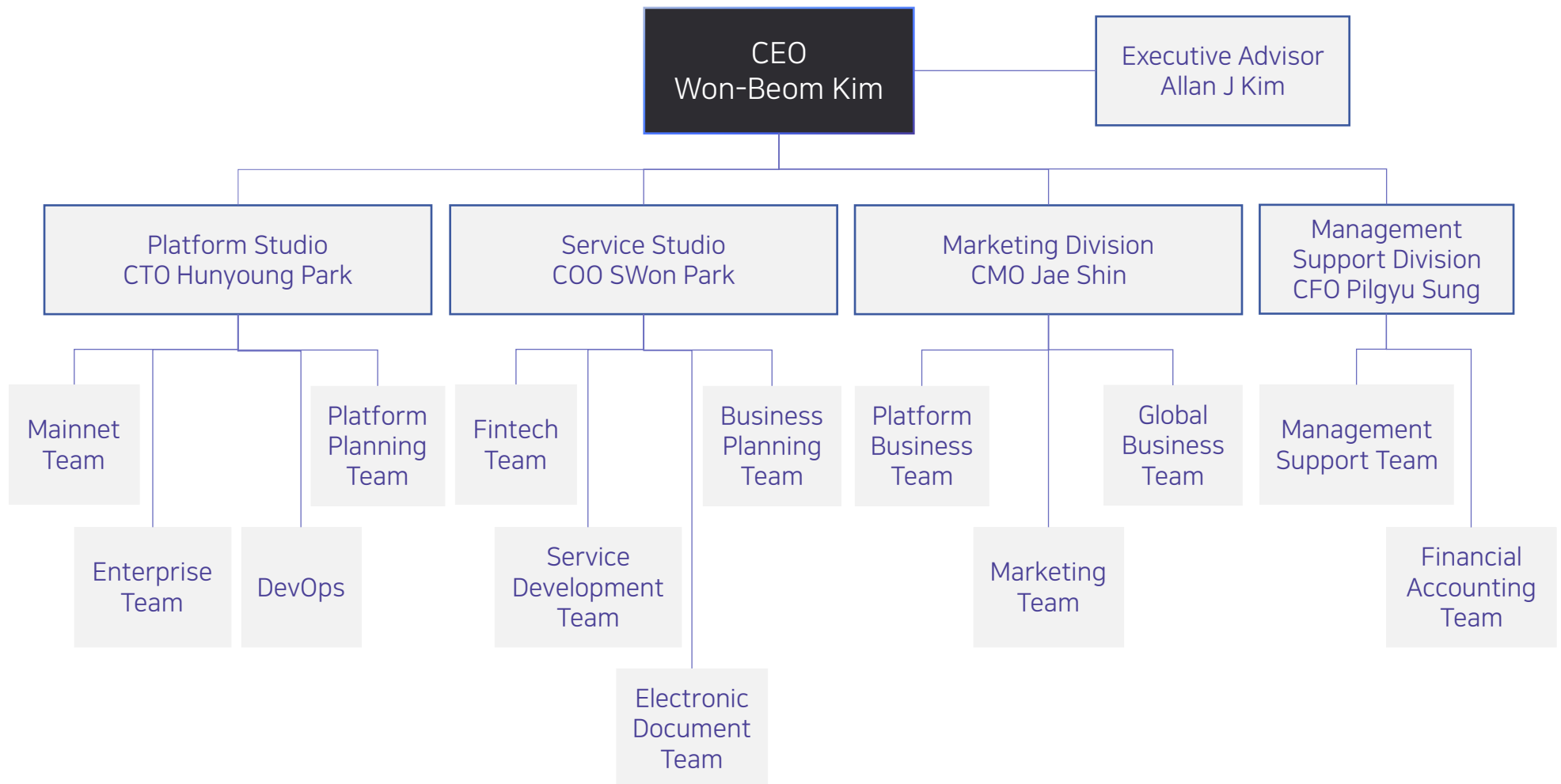
Mainnet BPs across diversified industries
13

Commercialized projects
13

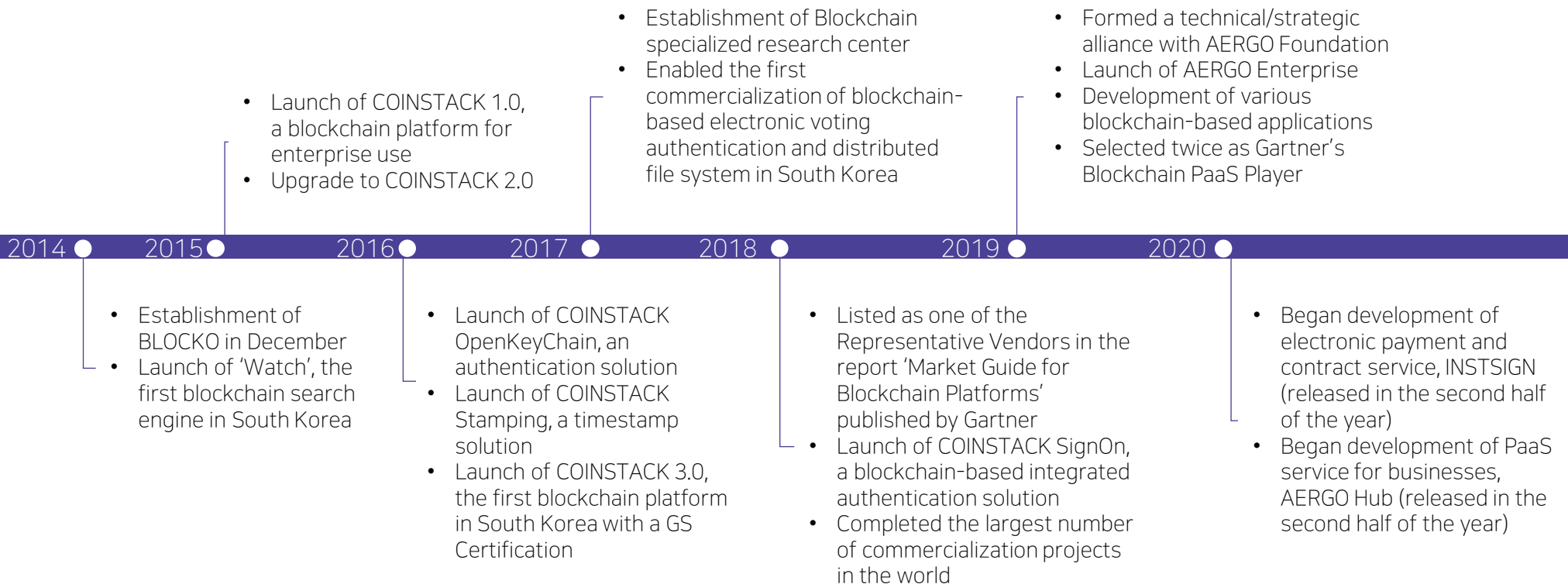Block produced
37,000,000+

BLOCKO and people

BLOCKO's organizational structure consists of a platform studio and a service studio to focus on strategic product development but will be unified from the customer's perspective. BLOCKO is optimized as a PaaS and SaaS business that is easy for clients to access and creates added value.

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                    ┌──────────────────────┐        ┌──────────────────────┐
                    │         CEO          │────────│  Executive Advisor   │
                    │    Won-Beom Kim      │        │     Allan J Kim      │
                    └──────────────────────┘        └──────────────────────┘
```

CEO Won-Beom Kim — **Executive Advisor Allan J Kim**

- **Platform Studio CTO Hunyoung Park**
  - Mainnet Team
  - Enterprise Team
  - DevOps
  - Platform Planning Team
- **Service Studio COO SWon Park**
  - Fintech Team
  - Service Development Team
  - Electronic Document Team
  - Business Planning Team
- **Marketing Division CMO Jae Shin**
  - Platform Business Team
  - Marketing Team
  - Global Business Team
- **Management Support Division CFO Pilgyu Sung**
  - Management Support Team
  - Financial Accounting Team

History

Founded in 2014, BLOCKO provides blockchain platforms that are designed optimally for enterprise use.
We maintain to have an unrivaled share in the domestic blockchain platform market for enterprise use.

2015
- Launch of COINSTACK 1.0, a blockchain platform for enterprise use
- Upgrade to COINSTACK 2.0

2017
- Establishment of Blockchain specialized research center
- Enabled the first commercialization of blockchain-based electronic voting authentication and distributed file system in South Korea

2019
- Formed a technical/strategic alliance with AERGO Foundation
- Launch of AERGO Enterprise
- Development of various blockchain-based applications
- Selected twice as Gartner's Blockchain PaaS Player

2014 — 2015 — 2016 — 2017 — 2018 — 2019 — 2020

2014
- Establishment of BLOCKO in December
- Launch of 'Watch', the first blockchain search engine in South Korea

2016
- Launch of COINSTACK OpenKeyChain, an authentication solution
- Launch of COINSTACK Stamping, a timestamp solution
- Launch of COINSTACK 3.0, the first blockchain platform in South Korea with a GS Certification

2018
- Listed as one of the Representative Vendors in the report 'Market Guide for Blockchain Platforms' published by Gartner
- Launch of COINSTACK SignOn, a blockchain-based integrated authentication solution
- Completed the largest number of commercialization projects in the world

2020
- Began development of electronic payment and contract service, INSTSIGN (released in the second half of the year)
- Began development of PaaS service for businesses, AERGO Hub (released in the second half of the year)

BLOCKO's products

- AERGO Enterprise

- AERGO Hub

- INSTSIGN

- Blockchain solutions

- Blockchain services

AERGO Enterprise

BLOCKO presents practical blockchain plans and offers effective management tools with our enterprise blockchain platform. From the introduction of the blockchain to data processing, operations and management, BLOCKO's top priority is business operability.

Optimization of fast data processing	Security at the level of enterprise compliance requirements	Systemic Operations and Management tools	Improve ease of development

Obtain real-world business TPS

13,000 TPS

7,000 TPS

TX   Smart Contract

Applying a Raft consensus algorithm suitable for network operations
- Agreement based on leader node
- Eliminate the possibility of SPoF (Single Point of Failure) occurrence
- Ensure transaction completion and stability

Data
Data encryption to ensure company's privacy

Communication
Apply node connection and TLS encryption

Authorization
Set-up block production, node joining and transaction authorization

Support for a variety of forms
Enable the most efficient and optimized infrastructure

Cloud	On-Premise	
AWS	Open Stack	VM Ware

Web based standalone GUI Tool

Provide the development environment and tools required for the pre-development process
Support the processes prior to development, testing and distribution

IDE	SDK
	SHIP (Package mgmt)
	ATHENA (ATOM IDE Plug-in)
	BRICK
Wallet / CLI	

Able to devise a scalable business model on blockchain infrastructure

AERGO Hub

AERGO Hub platform allows for one-click serverless distribution.
BLOCKO values the developer's ease of developing a blockchain. We are developing the AERGO Hub platform to make blockchain distribution easier and faster. BLOCKO will help you with the back end once you develop it. (released in the second half of 2020)
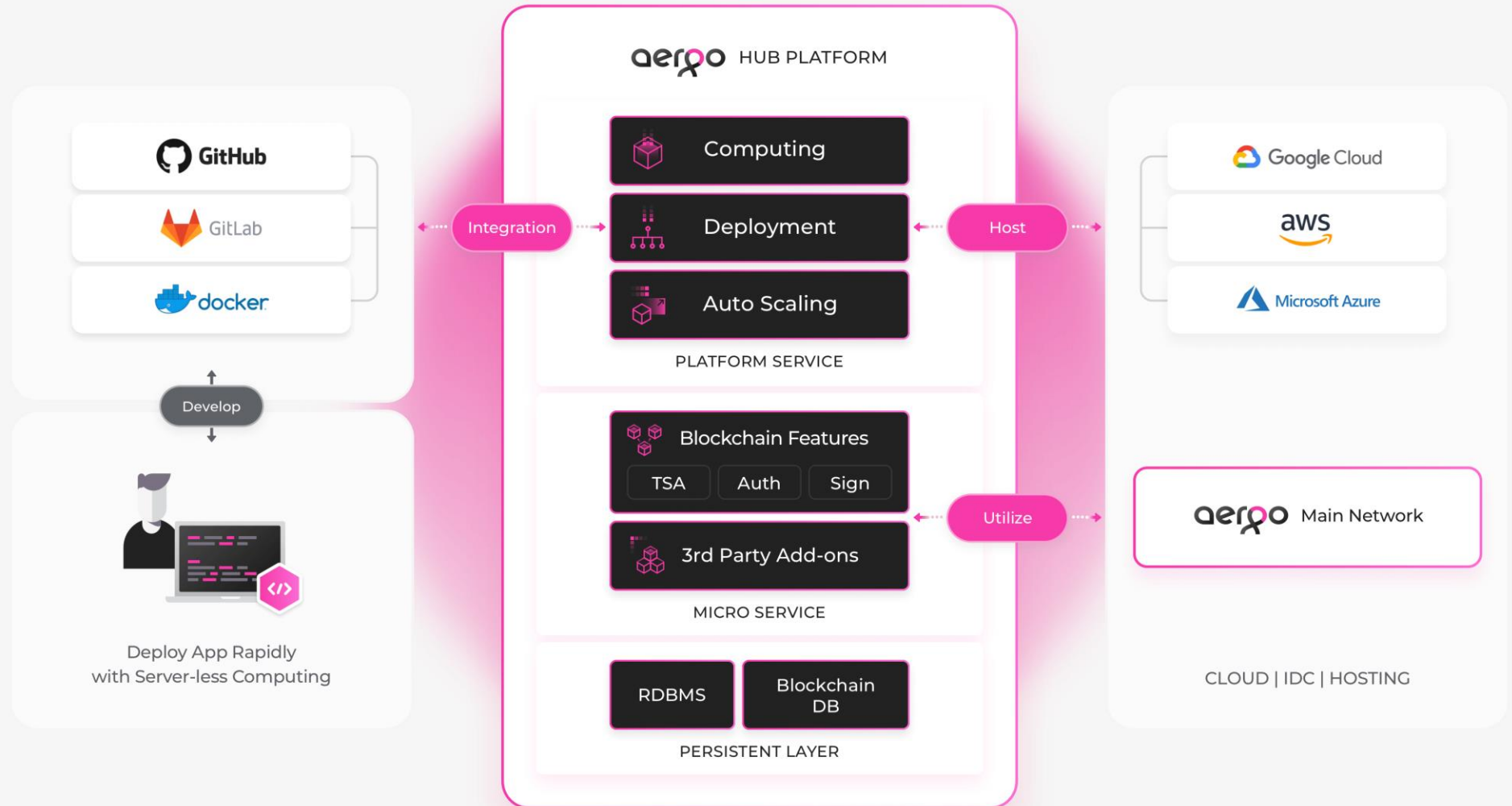
INSTSIGN

This is an electronic contract and payment service platform that integrates the reliability, contactless and paperless technology of the blockchain. BLOCKO is developing it to open the market for smart contracts beyond simple image exchange contracts. It will be launched in the second half of 2020.

INSTSIGN

Key Functions

| Web-based electronic contract platform | Smart alerts on the main contents of the contract | Contract recommendation | Legal consulting services in conjunction with law firms | Providing contract formats for all kinds of industries | Ensuring contract reliability through blockchain |

Blockchain solutions

BLOCKO offers customers optimal blockchain solutions for a variety of environments. Local and foreign conglomerates and public institutions can purchase solutions that meet their needs and use them immediately.

e-Voting

Areas of use
- Survey
- Voting, etc.

Features
- Use the mobile keystore
- Multiple selection, multiple choice and open-ended items available
- Variety of clients
- Variety of installation options
- Able to specify level of personal information to be offered

Clients
- Broadcasting stations
- Companies, organizations, and any other entities that require voting
- Public opinion research companies, etc.

Establishment of a transparent voting system, payment through cryptocurrency

e-ID

Areas of use
- O2O service
- Non-face to face verification
- Gateway to use other blockchain services

Features
- Linking of various methods of authentication, such as Single Sign On (SSO), biometric identification, etc.

Clients
- O2O service companies
- Financial services

Providing diverse authentication methods that can be linked to existing systems and laying the groundwork for introduction of blockchain services

e-Tracking

Areas of use
- Logistics/distribution
- Medical/pharmaceuticals

Features
- Records various information such as shipping information, distribution environment, etc. and applies it to the existing distribution system

Clients
- Global manufacturers
- Shipping and logistics companies
- Pharmaceutical companies

Transition of logistics/SCM from paper to paperless documents. Storage of information on the entire logistics flow

Blockchain services_AERGO GEM

A stable token service based on AERGO Mainnet, this distribution reward service stably guarantees a value against a specific currency. Through AERGO GEM, various organizations and companies can establish reward infrastructures with ease. It can be easily used by companies that are concerned about the scalability of points currently in operation, or local governments and public institutions that need to issue local currency.

※ Example of service

Advertising platform B-Tree pays reward points to end users of partner game companies in 'AERGO GEM'. Users can convert their AERGO GEM at Btrade Virtual Currency Exchange to AERGO ERC20, as well as exchange it to Korean won. BLOCKO provides the technology and infrastructure for AERGO GEM issuance and distribution, as well as swap services and exchange rate information for AERGO GEM and AERGO ERC20.

Earn points in stages through various missions

Apply for easy and simple conversion of points earned

Blockchain services_AERGO TSA

This is a timestamping service on the web that easily verifies authentication using blockchain. Based on AERGO Mainnet, it issues timestamps for all digital content to prevent source verification and data forgery. Users can save digital content hash values of different file types, including general files, text and image files, and electronic documents, in the blockchain. Subsequently, they can search for and view the information values of the source.

Use of data timestamping

Digital Copyright
Proof and management of digital content, which is an intellectual property right

Enterprise Business
Protection of original data with real-time timestamping instead of recovering lost data in the enterprise

Research and Project Data
Minimization of the likelihood of forgery through batch timestamping function for mass data

Development Code Audit and Proof
Prove that the code has not been modified by registering it with AERGO TSA
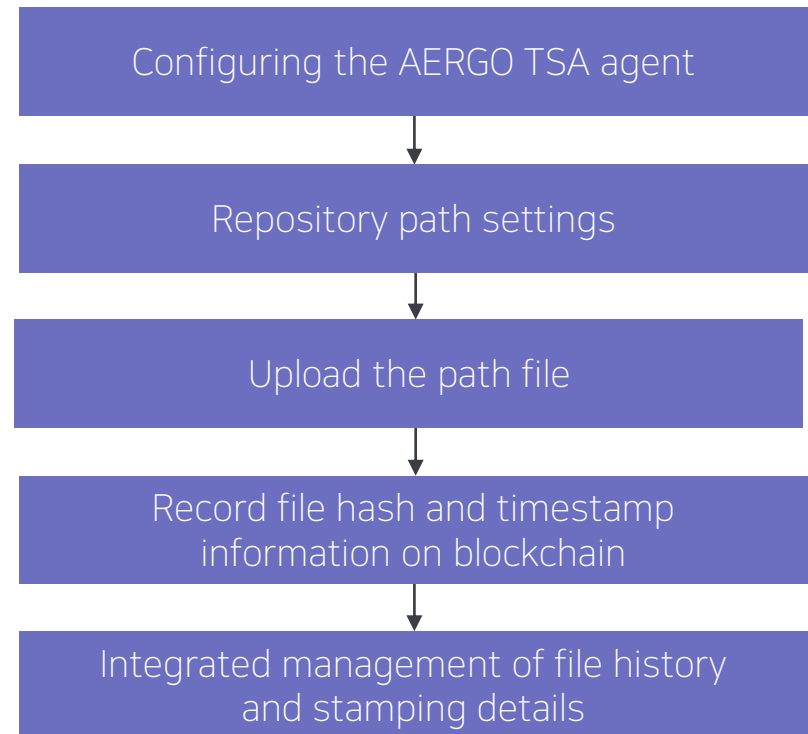
Healthcare Industry
Timestamping is applied to each patient's medical record and stored in a blockchain for safe management

Financial Data
Use blockchain to verify financial data where consistency between linked information is paramount
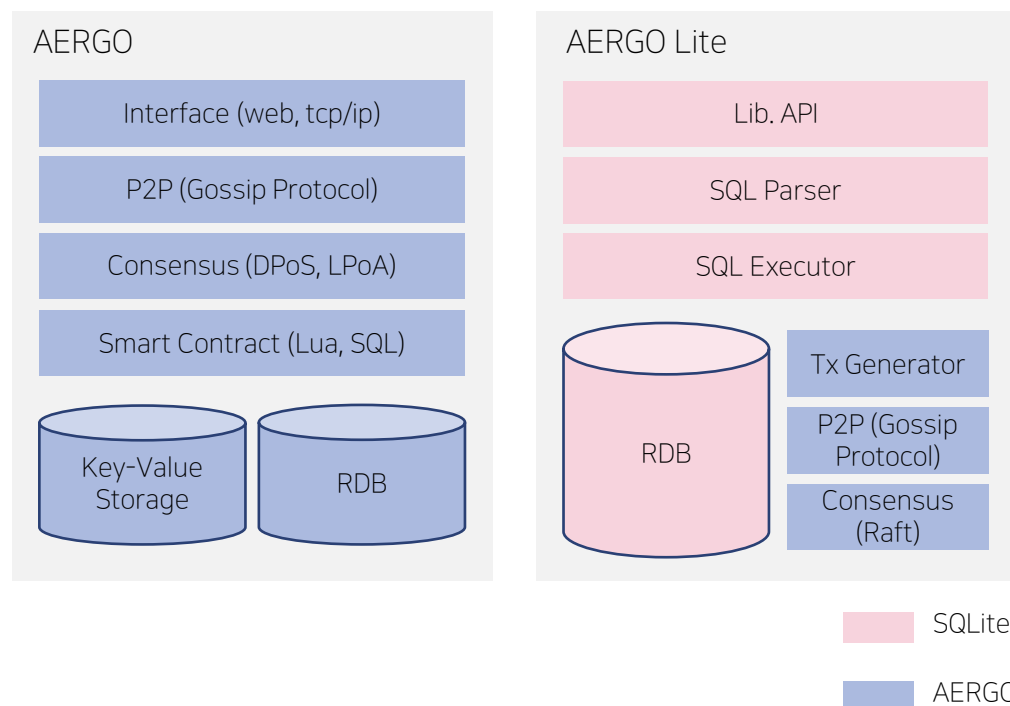
AERGO TSA usage process

Configuring the AERGO TSA agent

↓

Repository path settings

↓

Upload the path file

↓

Record file hash and timestamp information on blockchain

↓

Integrated management of file history and stamping details

Blockchain services_AERGO Lite

BLOCKO

This application uses SQLite and is a platform that uses blockchain protocol to share or backup the contents of a specific table. It is easy to build a distributed IoT infrastructure that is based on blockchain.

Comparison between AERGO and AERGO Lite

AERGO

- Interface (web, tcp/ip)
- P2P (Gossip Protocol)
- Consensus (DPoS, LPoA)
- Smart Contract (Lua, SQL)

Key-Value Storage

RDB

AERGO Lite

- Lib. API
- SQL Parser
- SQL Executor

RDB

Tx Generator

P2P (Gossip Protocol)

Consensus (Raft)

SQLite

AERGO

Strengths of AERGO Lite

1. Seamless integration with SQLite

2. SQL support based on SQLite for optimized development

3. Powerful data synchronization without separate implementation

Clients and partners
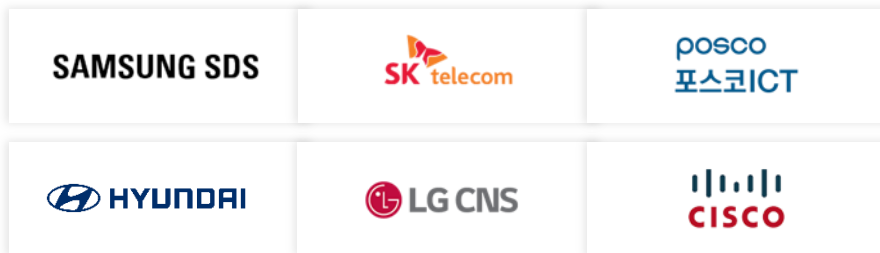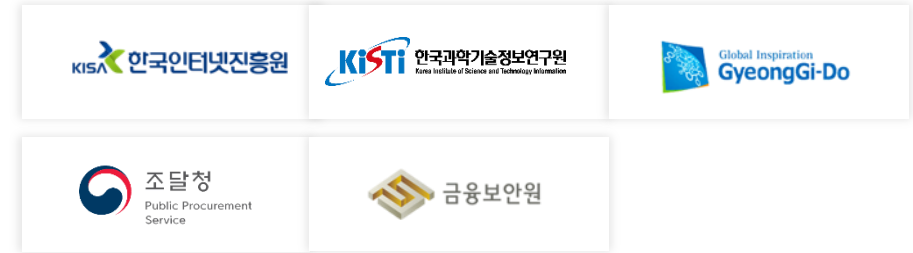
- Clients
- Partners

BLOCKO

Clients

BLOCKO is the blockchain company with the largest reference in Korea. We want to add trust to data with the blockchain and add value to data that has been trapped. More data is shared transparently between individuals, businesses and governments, enabling 'destructive collaboration' without boundaries.
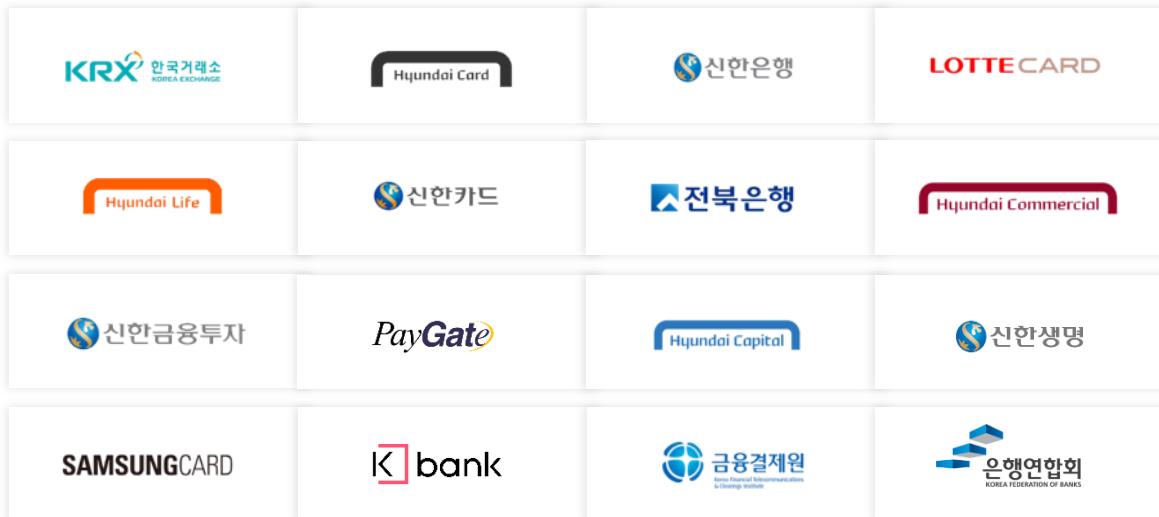
ENTERPRISE

SAMSUNG SDS	SK telecom	posco 포스코ICT
HYUNDAI	LG CNS	CISCO

PUBLIC SERVICES

KISA 한국인터넷진흥원	KISTI 한국과학기술정보연구원 Korea Institute of Science and Technology Information	Global Inspiration GyeongGi-Do
조달청 Public Procurement Service	금융보안원	

FINANCIAL SERVICES

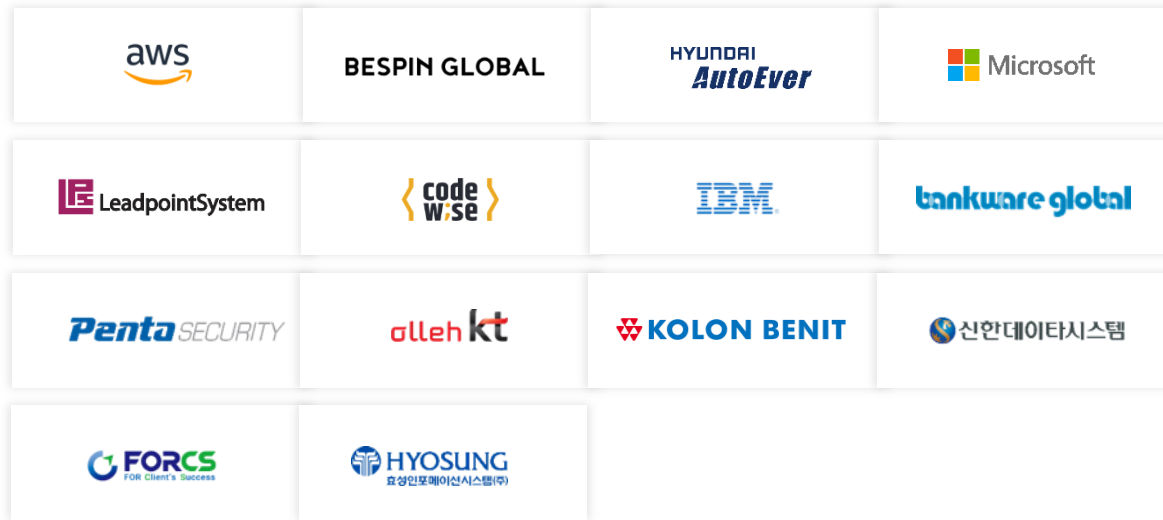|			
KRX 한국거래소 KOREA EXCHANGE	Hyundai Card	신한은행	LOTTE CARD
Hyundai Life	신한카드	전북은행	Hyundai Commercial
신한금융투자	PayGate	Hyundai Capital	신한생명
SAMSUNG CARD	K bank	금융결제원 Korea Financial Telecommunications & Clearings Institute	은행연합회 KOREA FEDERATION OF BANKS

Partners

From infrastructure (cloud, network) to consulting, reselling and deployment, BLOCKO collaborates with partners experienced with all areas of enterprise blockchain.

BLOCKO's partner programs are divided into three categories.
1) ISV/IHV: Programs that support ISV and IHV businesses in developing, testing and building their products based on 'AERGO Enterprise'
2) Programs that support consulting and SI businesses in redesigning and building services for customers based on 'AERGO Enterprise'
3) Programs that help domestic and foreign resellers effectively supply 'AERGO Enterprise' and basic services.

PARTNERS

aws	BESPIN GLOBAL	HYUNDAI AutoEver	Microsoft
LeadpointSystem	code w:se	IBM	tankware global
Penta SECURITY	olleh kt	KOLON BENIT	신한데이타시스템
FORCS FOR Client's Success	HYOSUNG 효성인포메이션시스템(주)		

BLOCKO in press releases

- Media Highlights

Media Highlights

BLOCKO's footprints in the press

- [Samsung-Backed Blockchain Firm Launches in UAE After Securing $16M](#) (Cointelegraph)
- [Samsung-Backed Blocko Launches in UAE After Dubai Blockchain Push](#) (CoinDesk)
- [Korean Banks Back $7.4 Million Funding Round for Blocko](#) (CoinDesk)
- [Enterprise blockchain adoption is happening. Here's why you don't see it](#) (Finder)
- [Hyundai division is developing a blockchain platform to track history of used cars](#) (The Block)
- [South Korea To Implement Blocko's Blockchain System To Process Real Estate Data](#) (BlockTribune)
- [From Coinstack to Aergo: South Korea's Enterprise Blockchain Sector Is on the Rise](#) (Blockonomi)
- [The First $100 Billion Dollar Blockchain Company Could Be The Next SAP](#) (Forbes)
- [Local Government in South Korea Taps Blockchain for Community Vote](#) (CoinDesk)
- [Samsung SDS Invests in Blockchain Startup](#) (CoinDesk)

Thank you.

BLOCKO

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#16F, 331-8 Sungnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

T. +82 31 8016 6253

E. info@blocko.io

Press Release han@blocko.io, marketing@blocko.io

blocko.io

facebook.com/BLOCKO.Official

github.com/aergoio

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