

InBic

InBic Inc

A vision AI solution specialist company
leading the artificial intelligence era





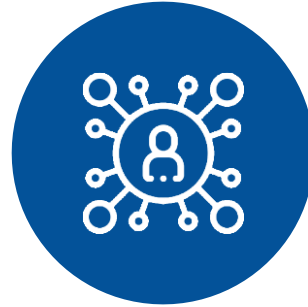
01 | COMPANY

Company Profile
History
Organization Chart



02 | PRODUCT

Product
Service
Application Field
Performance



03 | CONTACT

Cooperative Companies
Location



Greeting

We sincerely welcome you to InBic Inc.
InBic is with you as you leap into a
safer world.

InBic Inc. is a Vision AI(Artificial Intelligence) solution specialized company established in
2020.

As a Vision AI solution specialized company, we are leading the era of Artificial
Intelligence.

For customers, we provide Artificial Intelligence technology applied Vision AI solutions in various video
sources,

including CCTV, IR Camera, EO, Thermal Camera, and others.

Our product 'AI real-time night video convert solution

[NOX]

provides images as bright and clear as day



See the Unseen Beyond the Darkness

Company Overview

Company Name	InBic Inc.
CEO	Ji Hyochul
Establishment Date	June 30, 2020
Main Product	AI Solution 
Corporate Registration Number	607-87-01820
Location	20F, 8, Seongnam-daero 331beon-gil, Bundang, Seongnam, Gyeonggi, Republic of Korea
Website (URL)	http://www.inbic.ai/
Demonstration Video (URL)	http://www.youtube.com/watch?v=pZH12GzIzLZS



History

- 2020.06
 - Company establishment
- 2020.11
 - Establishment of a corporate research center
- 2021.04
 - Selected as NIPA AI voucher project by the MSIT
- 2021.07
 - Venture business certification
- 2022.03
 - ETRI artificial intelligence source technology transfer
- 2022.04
 - Selected as a stepping stone (first step) project by the MSS
- 2022.08
 - **Selected as a conditional purchase project by the MSS (Navy)**
- 2023.02
 - Selected as Hanwha Vision SI partner
- 2023.05
 - S-Startup King of Kings Grand Prize
 - Defense AI Innovation Forum Artificial Intelligence Association Chairman's Award
 - Transfer of defense technology to the Agency for Defense Development
- 2023.08
 - **Grand Prize in the General Division of the Startup Contest**
Using Defense Technology (DAPA)
 - **Selected as NVIDIA Inception Program**
 - **Attracting seed investment from Korea SMEs and Startups Agency**
- 2023.10
 - INNO-8I2 certification
 - Green technology certification
- 2023.11
 - Genetec Direct Partner Certification
- 2023.12
 - **Selected as a global defense industry small business development project by DAPA**
- 2024.01
 - **CES 2024**



See The Unseen Beyond the Darkness

InBic Inc. will become a company
that brightens up the dark world and,
furthermore, a company for a safe world.



Vision

See The Unseen Beyond the Darkness

It is still essential to watch and record in various areas, not only in the industry and defense field but also in multiple areas, including our daily lives. Among them, social safety and protecting people are paramount.



Comprehensive and organic designing is necessary for AI to be good at reporting, recording, detecting, and controlling.

- 1) Watch and record.**
- 2) Ultimately, people judge what is recorded.**

CEO



AI and Vision technology specialist from Samsung with domestic and overseas sales force

Work Experience

- Samsung Techwin CCTV Development Team (CCTV Development/Defense Business TF)
- Hyundai Wia European Corporation (Germany) Overseas Sales

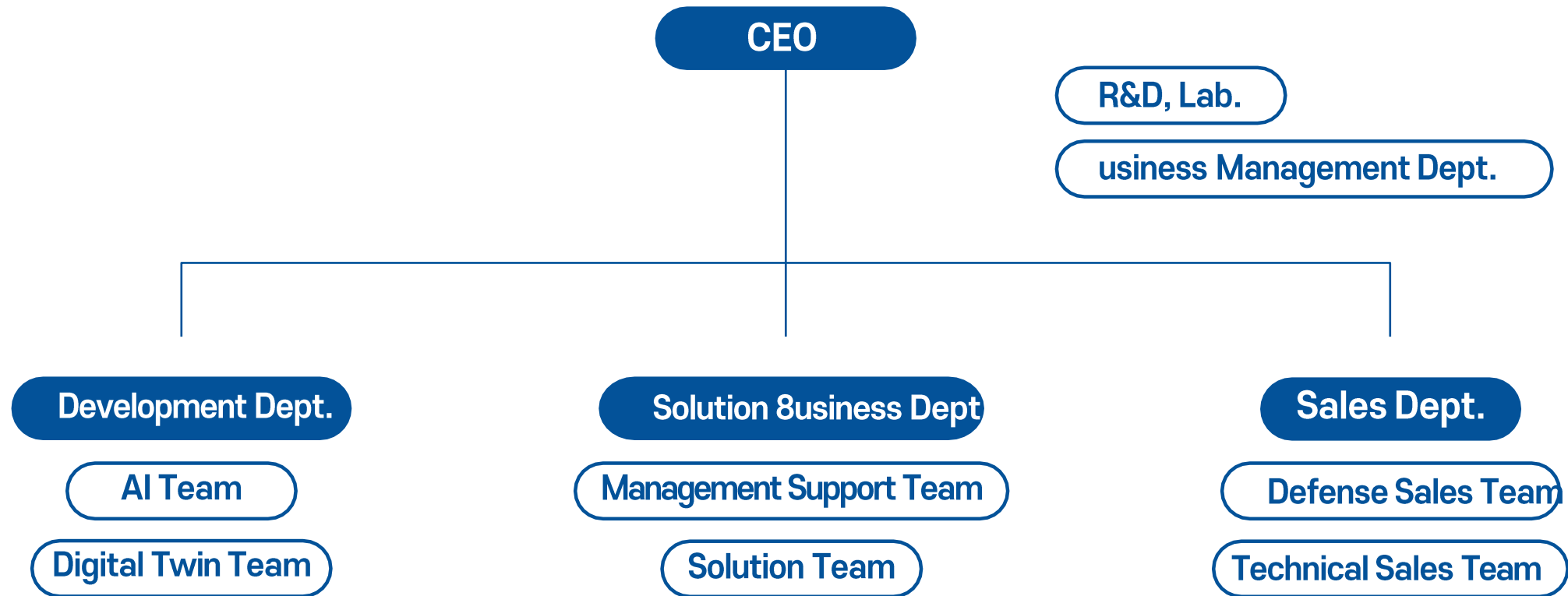
Education

- General Director of AI Business at BioBrain Co., Ltd.
- Pusan National University, AI Graduate School PhD Program
- Yonsei University, Bachelor of Biomedical Engineering, Master of Electrical and Electronic Engineering
- Exchange student at Dortmund University (Germany)
- Completion of KAIST Intellectual Property Strategy Advanced Program (AIP)

Partners



Organization Chart



Partners



Hanwha Vision

World-class optical design, manufacturing, and image processing
A global video security solution company with technology



Leaders Systems

A company that leads AI Deep learning,
the core technology of the 4th Industrial Revolution



Republic of Korea Navy

The main organization of the Armed Forces
that conducts maritime operations and landing operations



KAIST

Korea Institute of Science and Technology Information.
Public agency under the Ministry of Communications



Pusan National University

National University of Busan. The first national university
established after Korea's liberation from Japan's colonial rule



Defense Acquisition Program Administration

The central administrative body of the Republic of Korea
in charge of affairs concerning improving defense capabilities,
procuring military supplies, and fostering the defense industry



AeroVironment

U.S. defense industry based in Arlington, Va.,
that designs and manufactures uncrewed aircraft



S-Oil

An oil refinery in South Korea. It is one of the
four largest oil refineries



GDL System

Defense professional company with defense
tactical data link and battlefield management
system solution



Genetec

A Global security company specializing in the
Convergence Security Solution field that provides
security solutions for businesses, governments, a
nd other organizations



DataVoucher

Supports data purchase and processing vouchers
to create an ecosystem of data demand and supply
and to promote the utilization of digital-based data
in all industries



National IT Industry Promotion Agency

An institution specializing in ICT industry innovation
that contributes to economic development and
improvement of people's quality of life by enhancing
the competitiveness of the ICT industry and fostering
growth engines

Real-time AI night video convert solution that brightens the darkness

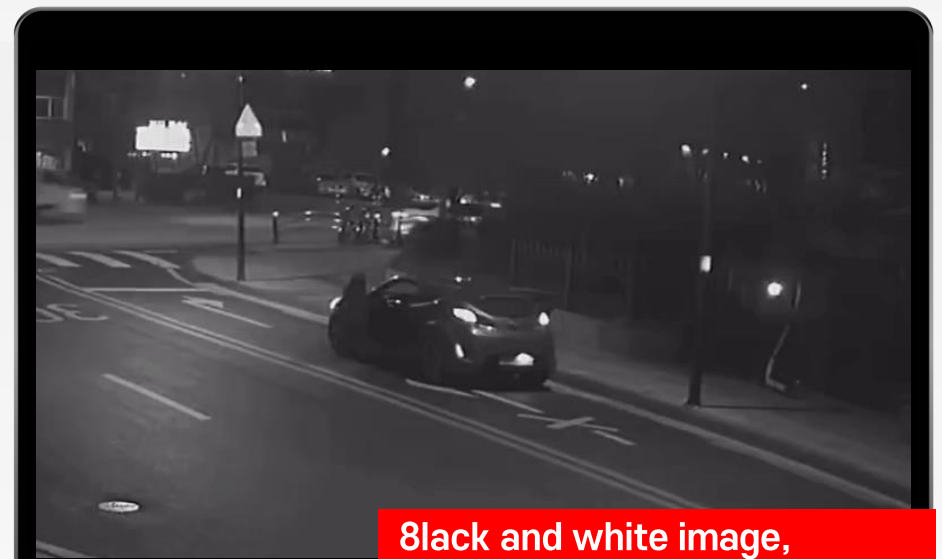


Conventional night IR cameras that are difficult to identify!

There are some unsolved problems
because some parts of the video were not able to identify



Low-definition black-and-white image,
object indistinguishable



Black and white image,
vehicle number not identifiable

Beyond the Darkness

We make **invisible things visible**,
the **indistinguishable stuff distinguishable**.

We light up the darkness
to accurately identify incident events,
enhance safety and security, and
obtain accurate information in real-
time.



Business Contents

Product Name



Services Provided

NOX Software



NOX Hardware



NOX OBJECT DETECTION



Secure USB



Application Methods

NOX Software

Provides software and security dongle to installed servers or central controls

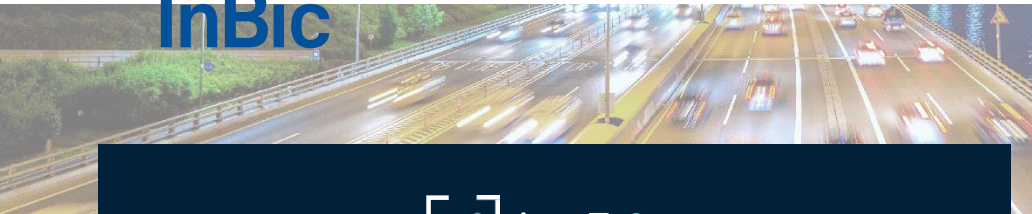
NOX Hardware

Provides an integrated server for deployment and security key delivery

Object Detection

Provides software for immediate application / NOX Sever + Object detection

Technology of InBic



Real-time high-capacity image data analysis and transmission

— Korea's only **4K / 30FPS**


implementation

NOx is an AI solution that is not dependent on the camera (H W)

(Patent holding: image generation method using improved hostile attention network system)

It can brighten the essential part with an emphasis using the hint algorithm (pending patent)

Done



Real-time video conversion using artificial intelligence

low-light video ▶ Converting in frames
▶ Real Time Vision

Convert real-time video to Full FPS
Increase object detection rate

It is expensive compare to other products
BUT
Control-critical facilities require lossless FPS Data

AI Solution Video Convert Solution



Multiple Image
Simultaneous Object Detection
(Multi-modal AI Model)

Digital Twin Services

Differentiated features

Differentiation of NOX What's the difference?

01

Real-time video conversion allows you to check without delay and can implement up to 4K.

02

Available in any NVR with various codecs provided.

03

Integrated vms were applied to provide a variety of services.

04

It can be selected and applied to the customer's desired location and camera.





The unsettling moments
that we feel in our environment,
[Fog, rain, snow, night]
Inbic's VISION AI technology
will make the world clearer.



Before Application



**Person, text, vehicle number
not identifiable**

After Application



**Person, text, vehicle number
identifiable**

Security Desk Monitoring

east VM16270

East Hall

Original

Real-time video conversion

West Entrance

West Fence

FL1 - Employee Entrance Access granted

East Gate License plate read

FL1 - Main Entrance Access granted

Camera Live

REC

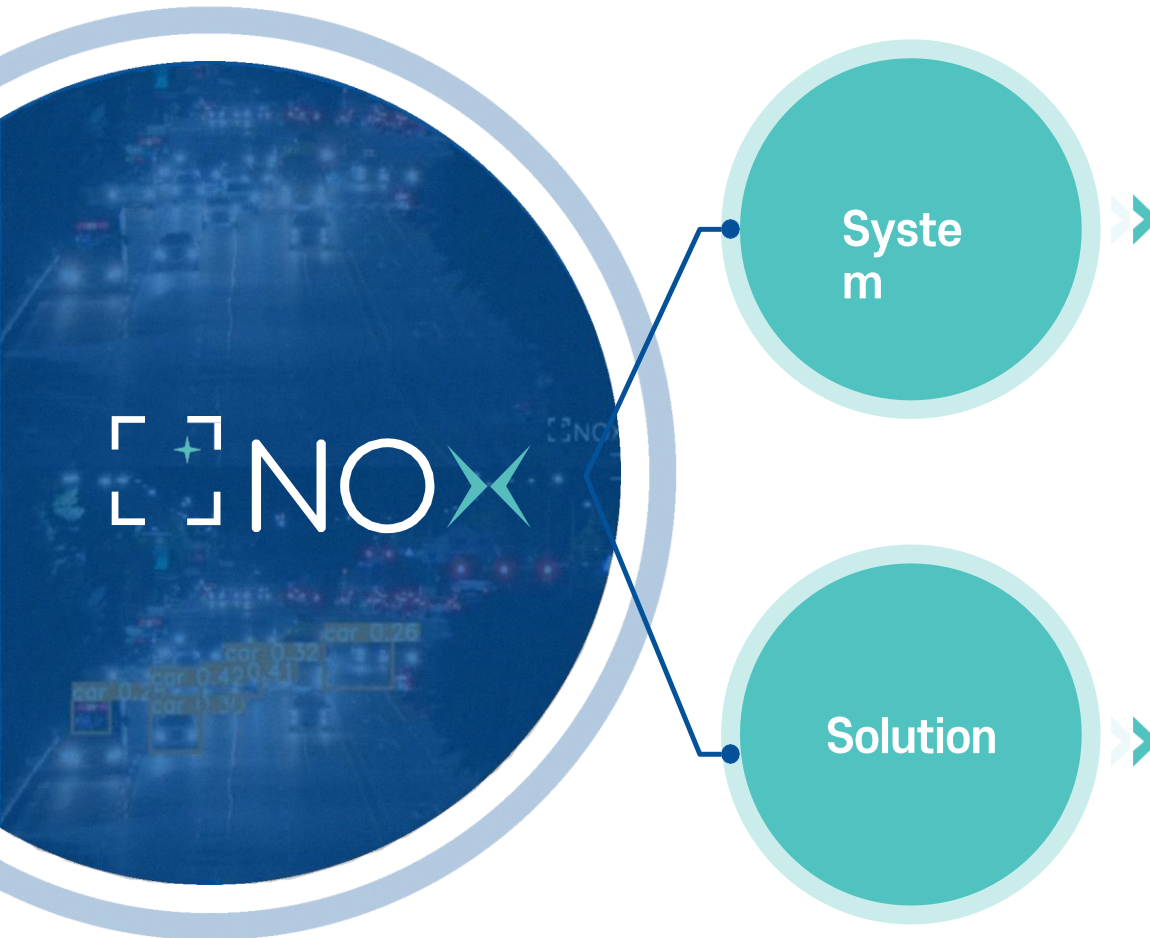
Live



Title

Synchronize video

142 XGQ 142XGQ, QC, 1/11/2021 3:04:38 PM

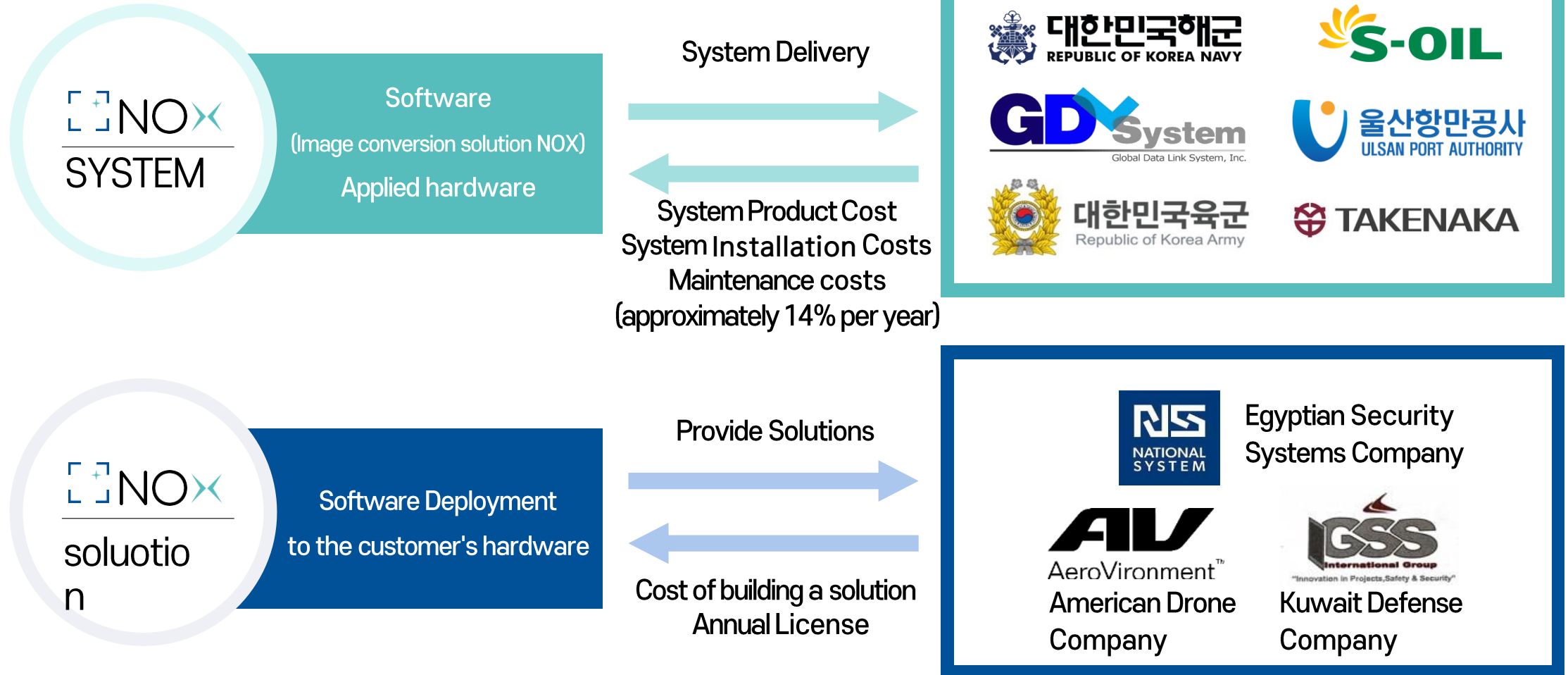
Revenue Model



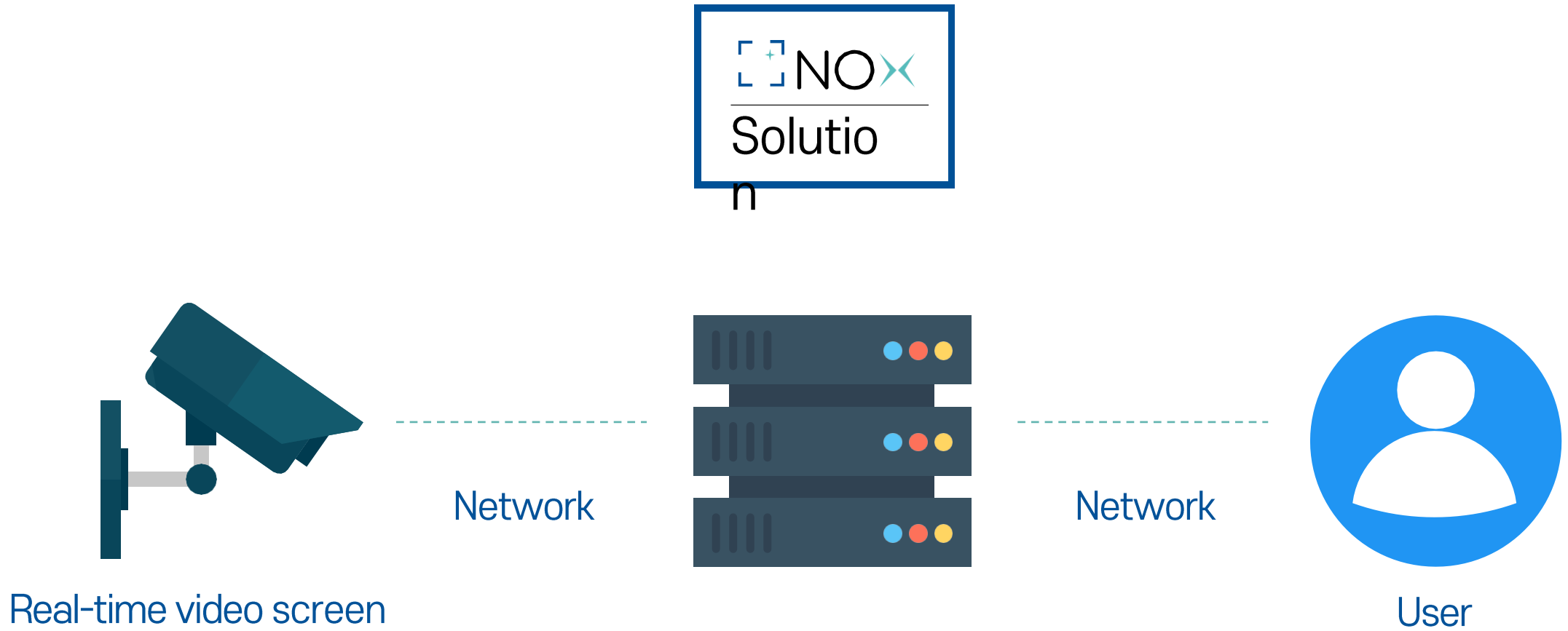
Domestic	B2G	 대한민국해군 REPUBLIC OF KOREA NAVY	2022-2024 Naval Headquarters' 'Purchase Conditional Tasks' are carried out Integrated control system contract completed: 2.76 billion (12 units in total) Unit demonstration in 2024	Ongoing
	B2B	 GD System Global Data Link System, Inc.	frigate image conversion system (27 vessels) 30 million won X 27 ships = 810 million (2024)	Pushing ahead

Overseas	B2G	 DEPARTMENT OF DEFENSE UNITED STATES OF AMERICA	Unmanned Mexican border Control Systems and Image Conversion Solutions	Pushing ahead
	B2B	 AV AeroVironment™	No. 1 U.S. Department of Defense Drone Delivery Drone Night Image Conversion Solution 10 million won X 10,000 units = 100 billion won	Pushing ahead

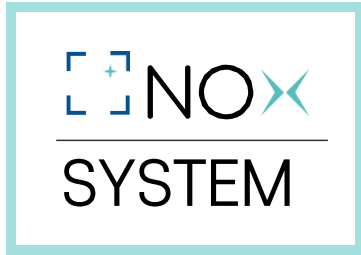
Business Model



Service Process - Solution



Service Process - System Server



- Provides software, a Knox solution, to the installed central control room server
- Security Enhancements. Provide security authentication keys that can only be used by certified people

Camera



Original Video



Improved Video



VMS



+ Implant Knox Software to an Existing Server

Authentication and IP

Certification Performance Status 9 registered patents, 4 applied patents, and 2 PCTs

Certification	Organization Name	Date
Venture business certification	Venture business verification agency	2021.07.07
Small and medium enterprise certification	Ministry of SMEs and Startups	2023.05.29
STEP Partner Certification	Hanwha Techwin	2020.07.07
MOPL Partner Certification	Hanwha Vision	2024.01.01
Accreditation of an excellent technology company	The Incredibles	2023.03.23
ISO9001: Quality Management System	Korea Standards Association	2023.05.03
ISO14001: Environmental Management System	Korea Standards Association	2023.05.03
ISO45001: Safety and Health Management System	Korea Standards Association	2023.05.03
Green Technology Certification	Green certification	2023.10.19
Inno-Biz (Inno-Biz) Certification	Ministry of SMEs and Startups	2023.10.20

IPR	Title	Grant/Application number	Holder
Granted	Apparatus and Method for Convolutional Neural Network Quantization Inference	10-2455310	ETRI Technology Transfer
Granted	Enhanced Adversarial Attention Networks System and Image Generation Method Using the Same	10-2567128	InBic Inc.
Granted	Detecting System for Approaching Vehicle in Video and Method Thereof	10-2172849	InBic Inc.
Granted	System For Analyzing Character of Target	10-1858989	ADD Technology Transfer
Granted	Bridge Alarm Management Device and Method	10-1201471	InBic Inc.
Granted	Touch Screen Detection Method Using Fast Search Algorithm	10-1582749	InBic Inc.
Granted	Port Watching System	10-1071379	InBic Inc.
Granted	Abnormal Behavior Detecting System Using Artificial Intelligence	10-2608941	InBic Inc.
Granted	Object Detection and Tracking System and Method Using Edge CCTV	10-2022-0110703	InBic Inc.
Applied	Improving Method of Low-Light Image Using Hint Algorithm	10-2023-0053475	InBic Inc.
Applied	Method And System for Detecting Objects in Night Images Using Image Style Transfer Techniques	10-2022-0124229	InBic Inc.
Applied	Device And Method for Object Recognition in A Low-Light Environment Using Artificial Intelligence	10-2022-0124230	InBic Inc.
Applied	Improving Method of Low-Light Image with Brightness Attention Map	10-2023-0053476	InBic Inc.
PCT Applied	System And Method for Object Detection and Tracking Using Edge CCTV	PCT	InBic Inc.
PCT Applied	Improved Hostile Attention Network System and Image Generation Method Using It	PCT	InBic Inc.



Status of Business Attraction and External Awards

Technology Name	Funding Agency	Development Completion Date
AI Object and Abnormal Behavior Real-time Management System for Industrial Site Safety Management	Ministry of Science and Technology	2021.02 (COMPLETE)
Development of On-Device AI SW with Lightweight AI Face Recognition Algorithm capable of 4K High-Definition Image Data Processing	Ministry of SMEs and Startups	2023.04 (COMPLETE)
Development of AI Edge Box with Object Recognition in Low-Light Environments in the City	Seongnam City	2022.10 (COMPLETE)
Development of Intelligent Monitoring System through Night Image (IR) Color Conversion	Ministry of SMEs and Startups	2024.07
Busan National University's 3rd Stage of Industry-Academic Cooperation Leading University Development Project (LINC 3.0)	The Ministry of Education	2025.02
AI applying on-device artificial intelligence SW technology that supports low-end smart device vision recognition artificial intelligence processing and driving	Technology Guarantee Fund	2024.07
Multi-Wave (EO, IR, Thermal Imaging) Multi-Modal AI-based next-generation real-time digital twin command and control intelligence system	Agency for Defense Technology Promotion (Defense Services Agency)	2026.01

External Awards	Business Title	Date of Award Selection	Reward
Artificial Intelligence Association	Presidential Award of the Defense AI Innovation Forum	2023.05	-
Seongnam Industry Promotion Agency	S-Startup King of Kings Grand Prize	2023.05	20 million won
Information and Communications Industry Promotion Agency	ICT Complex Best Company Selection Award	2023.11	2 million won
Gyeonggi Provincial Small and Medium Venture Business Administration	2023 Startup B15 IR Excellence Award	2023.12	-

Infinite Possibilities





If you want to know more about  NOX

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