

# COMPANY PROPOSAL

Technology for humans, challenge for the future  
IoT, big data-based smart AI city construction and climate technology company

[www.blakstone.co.kr](http://www.blakstone.co.kr)

2024



# CONTACT



Chapter 01.

**INTRODUCE** ————— **01**

Technology for humans, challenge for the future

IoT, big data-based smart AI city construction and climate technology company



Chapter 02.

**ORGANIZATION** ————— **02**

We have professional development personnel and organizations for hardware, software, servers, smartphones, etc.



Chapter 03.

**TECHNOLOGY** ————— **03**

Introduction to technical possession certificates for our patented technologies, national certifications, etc.



Chapter 04.

**SOLUTION** ————— **04**

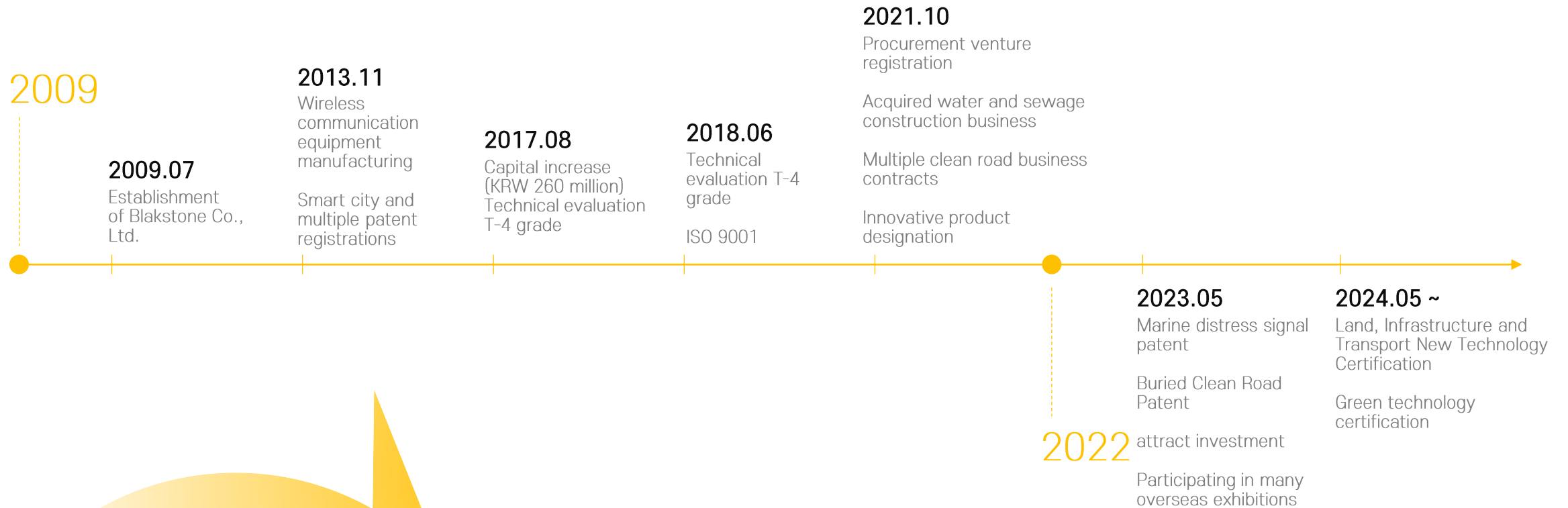
marine distress signal  
Solar-based IoT sensor products  
Smart IoT Clean Cooling System

# **BLAKSTONE**

Based on **technology for humans**  
We take on the **challenge of the future.**

- We are a technology company that respects human life and permeates our lives.
- We provide climate tech solutions that can respond to climate change based on IoT technology, big data, and low-power manufacturing technology.
- We develop human-centric future products suitable for smart cities.
- Our products are not operated by humans, but provide automated solutions that operate according to the climate environment.
- We provide optimal solutions for our families, friends, people, and cities.

# TIMELINES



## 'Company Organization'



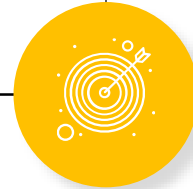
### Institute of Technology

Smart city solution development  
IoT sensor products  
Firmware Development Team  
Wireless communication product development  
Solar and wind energy products  
Control management server program development  
Smartphone program  
integrated control system  
Big data, AI development



### Planning Department

Smart city product planning  
Urban Analysis Team  
IoT product planning  
Service model planning  
Climate Tech Solution Planning  
Overseas solution planning  
exhibition planning



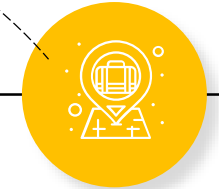
### Consulting

Domestic public Consulting  
City consulting  
Overseas city consulting  
Business proposal  
Discover new business



### Management team

Accounting, general affairs, fund management  
Resource management  
Human management  
Human resources management



### Sales Team

Domestic public institution sales team  
Overseas Business Team  
Customer discovery  
Technical support  
Product development support  
Overseas company support  
Brand business management  
R&R Management

# Our Technology

## Industrial asynchronous mesh network in low-speed RF communication environment

The original technology of an asynchronous wireless communication method that can communicate with 1/3 the battery consumption compared to synchronous wireless communication methods such as WiFi, Bluetooth, Lora, and Zigbee in the existing wireless communication environment.



## IoT-based low-power road water spray system

This is a patent for automatic water spraying according to various hazardous substances on the road and road surface temperature. It is a big data-based system patent that can set various spraying conditions according to changes in the climatic environment.

## U-City Change Prediction System (Smart City Patent)

It is a smart patent that can respond in various ways according to various conditions of urban space, and is a basic information system patent for urban response measures based on information on human-space-behavior.



## IoT Platform and Software Technology Certification

Technical certification for IoT sensor data collection and big data processing  
 Certification of a platform program that can handle all processes ranging from collection, management and control of various city data

## Marine distress signal transmitting device (patent)

This is a patent for an automatic marine distress rescue signal that automatically transmits the rescue signal and GPS coordinates by voice through ch.16 in case of distress at sea.



## New technology for land transport

Real-time monitoring of environmental information by assembling an environmental measurement station (fine dust, road surface temperature, etc.) incorporating a low-power, high-density integrated circuit RF wireless communication method, IoT sensor, and solar power operation system, and a watering facility developed using a non-dig method like Lego blocks. A method of automatically spraying water according to the road environment through

# Our Technology

## Salt spray system including street lights

It includes street lights that display different colors depending on the weather, and a salt spray system that sprays salt water on frozen road surfaces using information received from a black ice sensor.



## Road environment information measurement station

Technology that measures the environment on the road and transmits information to the server. Fine dust, CO<sub>2</sub>, NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>, and road surface temperature can be measured.



## Protective cover for preventing shock to piping and nozzles of Clean Road road water spray system

Block-assembled protective cover that protects the nozzle for spraying water on the road from foreign substances and external shocks.



## Road buried pop-up nozzle device

Buried pop-up nozzle device with improved water pressure control and structural stability



## Helical antenna device for maritime distress signal transmission device

Device for transmitting distress signals. It can be stored in a folded form, so it can be easily mounted on a victim's life jacket, etc.



## Cover for road water spray device piping

Cover for road water spray device piping that protects the pipes and nozzles of the water spray device from external shock caused by vehicles driving on the road.



# OUR PRODUCT

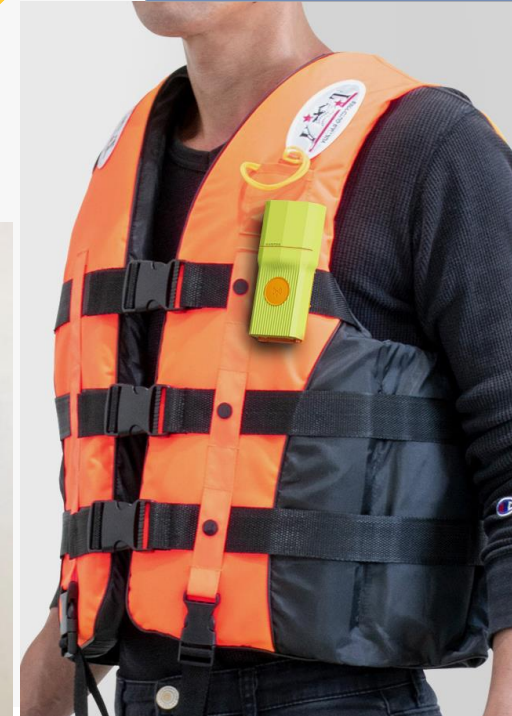
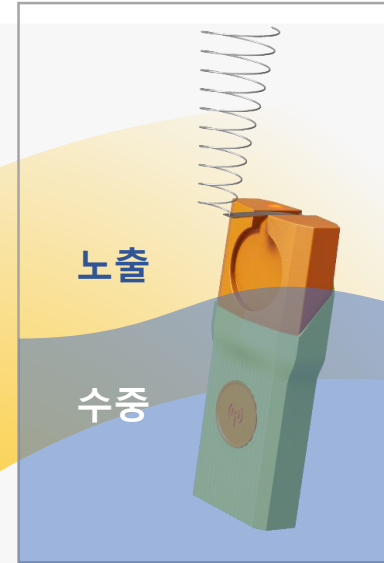
## Voice-based marine distress signal

In case of a distress accident at sea

A device that automatically **transmits your GPS location as a voice**

It is a device that indicates one's location in case of distress at sea.

It is a device that automatically transmits a rescue voice to nearby fishing boats and other ships by transmitting its GPS location through Ch.16.





# OUR PRODUCT

## Road environment measurement station

Solar-based road hazardous substances  
Information collection device for IoT sensor  
operation

A device that measures the road surface temperature and hazardous substances (So<sub>2</sub>, No<sub>2</sub>, Co<sub>2</sub>, VOC) on urban roads in real time and transmits them to the server.

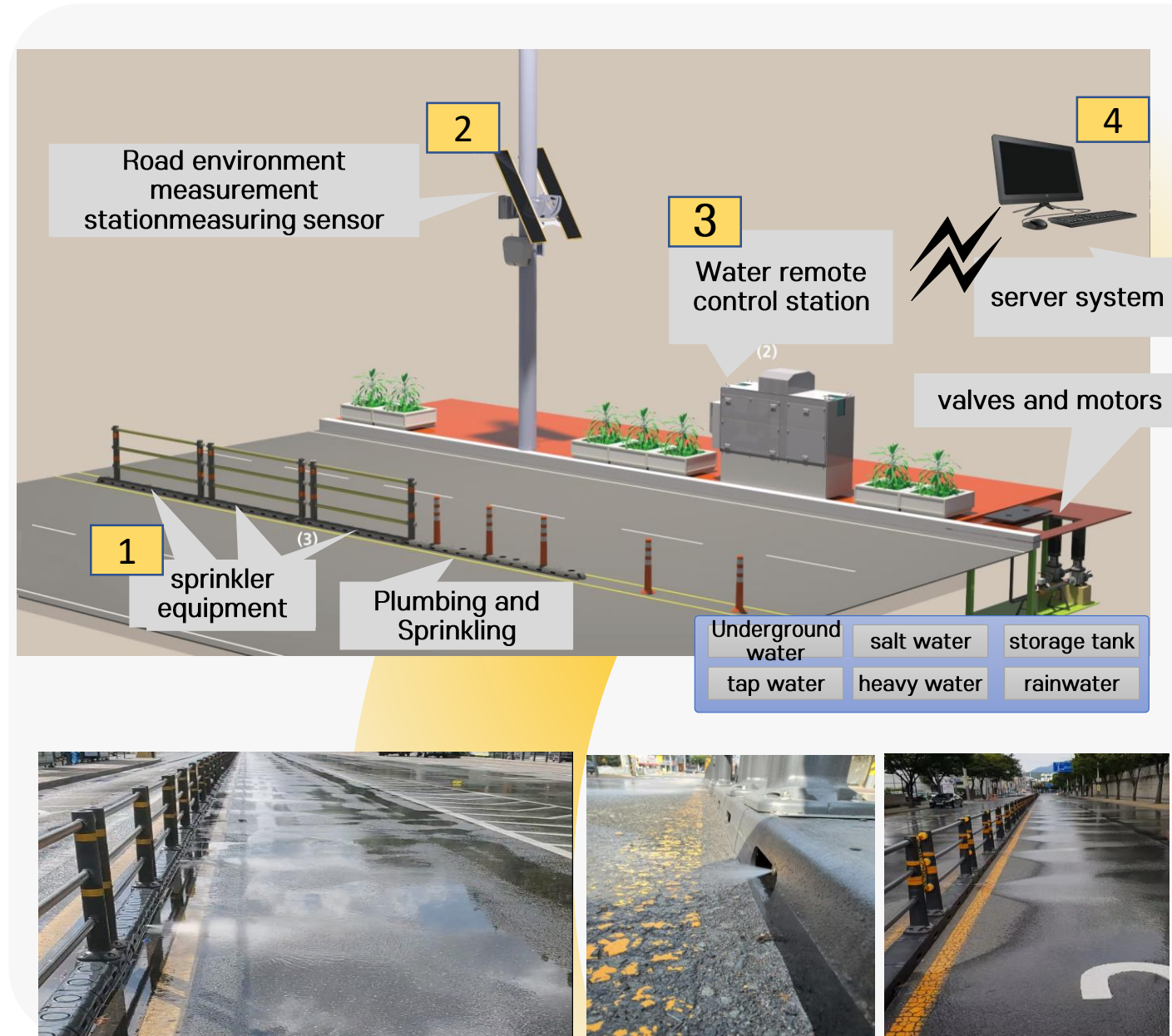
Real-time battery status can be monitored by applying LIC batteries



# OUR PRODUCT

## Smart IoT Clean Cooling System

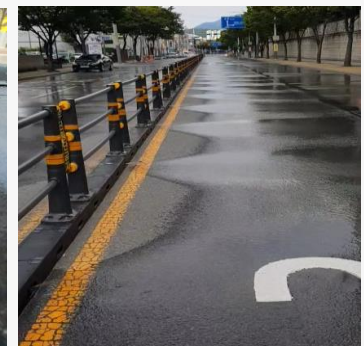
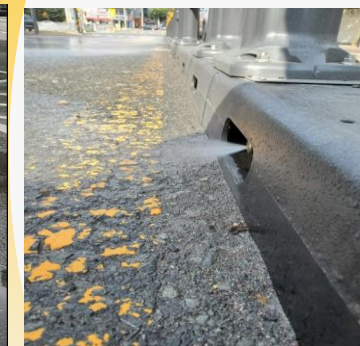
Climate Tech smart city solution that automatically sprays water according to road surface temperature and fine dust.



Solutions for alleviating urban heat waves and heat islands due to climate change

A system that can reduce road surface temperature and fine dust by recycling the city's discarded water (subway runoff, rainwater, recycled water, gray water, industrial water, etc.)

Installation locations: 5 locations in Seoul, Anseong-si (2.7km), Dalseong-gun, Daegu-si





# CONTACT US

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