INFINITY INNOVATION ENITT ENITT, a company that creates new value

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Table of Contents

- 01 About Company
- 02 Disaster Safety Al Solution
- 03 Growth Strategy







About Company







We create a safe world beyond technology. ENITT, the place where infinite innovation begins

Established in February 2018, we are carrying out business in the field of Al-based disaster safety & energy efficiency, We are steadily growing with new technologies and constant challenges.

We actively reflect creative thoughts and opinions that are freely expressed, Also, we help our employees to work joyfully with challenges so that we can be the leader of creating the safe future with innovative technology through continuous challenges.

Core Value







Creative idea

Balance & Principle

Challenging spirit

Company Overview

Company name	ENITT Co., Ltd.	Management Ideology	INFINITY INNOVATION We will make a safe future through innovation.
CEO	Song-do Ki	Industry	Electromagnetic Measuring/Testing/Analysis Equipment Manufacturing Software Development and Supplies
Established date	February 7, 2018	Key products	Al solutions for disaster safety management Al solutions for energy efficiency
Capital	610 million won	Address	#303, Siheomsaengsan-dong, 333, Cheomdan Gwagi-ro, Buk-gu, Gwangju
Full-time employees	31	Seoul·R&D Center	371-28 Gasan-dong, Geumcheon-gu, Seoul (701, B)
Website	www.enitt.co.kr	Jeonnam Branch Office	#704, 679, Bitgaram-ro, Naju-si, Jeollanam-do

01

Strong teamwork with technical expertise and know-how



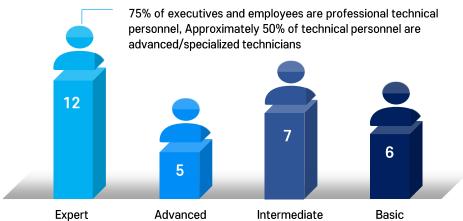
The highest level of education

Sunchon National University (Master's/Ph.D.)
Electrical Engineering

Major career history

- · Research Director of El System Co., Ltd.
- Current KIAT Planning Advisory Committee member
- Currently an evaluation member of the Integrated R&D and Information System
- Current Planning Member, Korea Evaluation Institute of Industrial Technology
- Currently a member of the Technology and Information Promotion Agency for SMEs

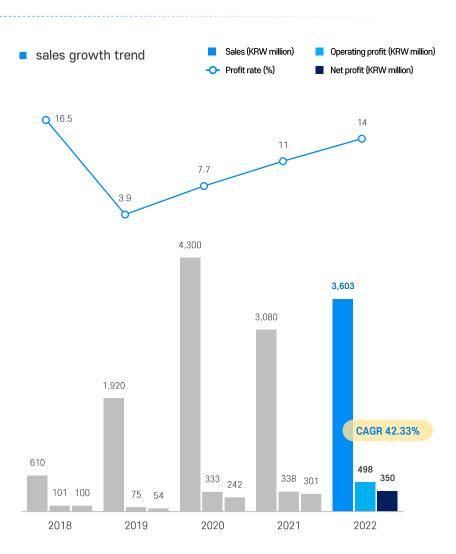




CEO

Ki Song-do

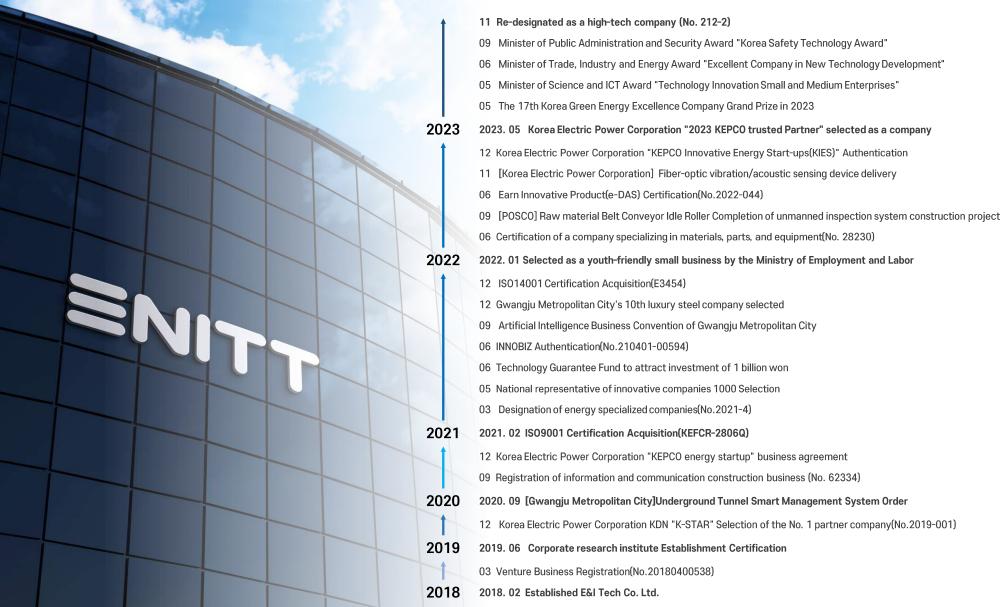
*Source: National Legislation Information Center (Appendix 2 of the Enforcement Decree of the Engineering Industry Promotion Act)



01

Brilliant growth built on superior technology





Securing product reliability by securing and verifying core technologies







Minister of Public Administration and Security Award



Ministry of Trade, Industry and EnergyMinister's Award



Ministry of Science and ICT Minister's Award





Material parts

equipment

months on

(Ming) Khakke







KC Certification GS Certification

Innobiz





IS09001

ISO14001

Energy Technology Grand Prize

public technology before

Twice of original technology transfer

"Distributed optical sensor" field







[10-1817295]

Power facility partial discharge measurement and railway monitoring system technology using temperature measurement-supported optical fiber acoustic sensor

(7) [10-1844031]

Optical frequency domain reflection measurement system for high-resolution strain distribution measurement

Patent registration and applications

Leading company in technology development in new industries

6 patent registrations and 8 applications related to distributed optical sensors



Patent Certificate

'Power generation facility safety monitoring system using optical cables' and 5 other items

Patent trend analysis

Securing monopoly advantage through patent portfolio

5 out of 10 distributed optical sensor core patents are held by Enitt Commercialization of world-class technology

- * Excluding technologies held by public research institutes
- Patent trend survey search formula/conditions

Distributed*Optical Fiber*! (Bragg+Grid+Manufacturing) / Registered Patent









Disaster Safety Al Solution





02



Realization of safe daily life through distributed optical sensor-based disaster safety Al solution

■ *Issue* - Current status of continuous safety accidents on site



- Urban time bomb, aging infrastructure where even the slightest crack can lead to a major disaster
- Casualties and economic losses due to limitations of existing safety inspection technology and systems
- The aging of Seoul's infrastructure **rapidly increased** from 31% in 2018 to **61%** in **2028**.

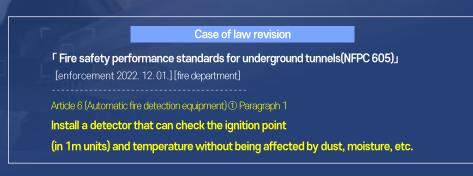






Issue - Status of existing safety management laws and regulations

- Vulnerable to accidents due to unexpected events due to regular safety inspections conducted by personnel
- Failure to secure continuous detection system and standards for facilities with high accident risk
- Revision of underground fire safety performance standards in accordance with strengthened safety requirements



Track maintenance guidelines [enforcement 2023. 5. 11.] [National Railroad Corporation] Article 170 (Inspection by track inspectors), Article 200 (Daily circuit inspection) division high speed rail general railway Track inspection Once a month Once a quarter More than once every 10 weeks walking tour Once a week Depending on the relevant train tour Once every 15 days department

Guidelines for safety and maintenance of facilities, etc. [enforcement 2022. 9. 28.] [National Railroad Corporation]							
safety level Regular safety inspection Precise safety inspection							
А	Maria than anas non half war	More than once every 3 years					
B, C	More than once per half year	More than once every 2 years					
D, E More than 3 times a year More than once every 1 years							

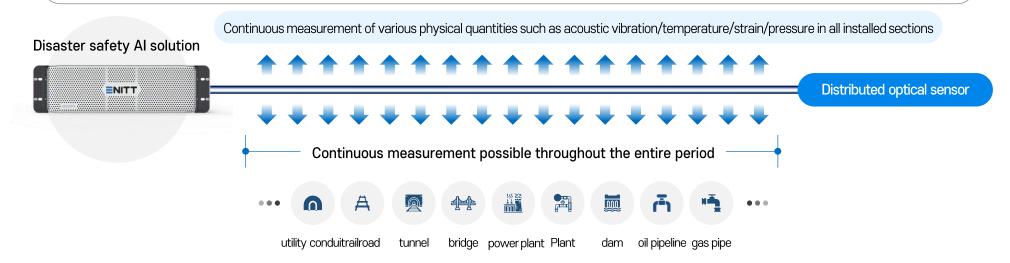




A third eye that predicts risks created with distributed optical sensors and AI technology

Solution Overview

A disaster safety Al solution that continuously measures acoustic vibration, temperature, etc. by installing distributed optical sensors (optical cables for communication) in measurement sections ranging from a few kilometers to tens of kilometers in length, and analyzes the collected data to monitor the presence of any abnormalities in real time.



What is a distributed optical sensor?

The most advanced measurement technology among optical fiber sensor technologies, it is an innovative technology that can continuously measure physical quantities across the entire range without dead zones based on scattered signals, regardless of the sensor installation interval.



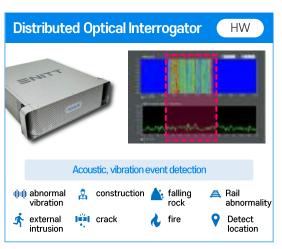
index	IoT sensors	CCTV	Distributed sensor
Blind Spot	0	0	Continuous measurement throughout the entire period
Installation restrictions	0	0	u il oughout the entire period
Operating environment	Limit product installation and construction costs	Requires constant power supply	Sensing Data
characteristic	Operation of multiple sensors	Installation in certain sections	Continuous measurement based on scattered signals
Measuring distance	Up to 10m	Up to 50m	Up to 50km (dramatic cost savings when applied to the same section)

Next-generation disaster safety Al solution that meets industrial needs



SW







Big data-based Al analysis





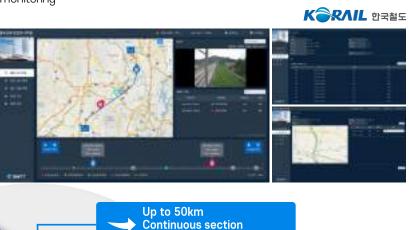
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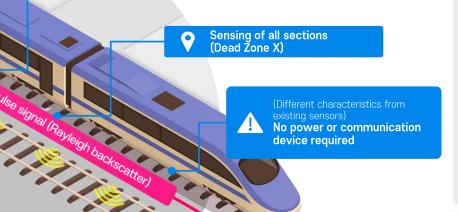


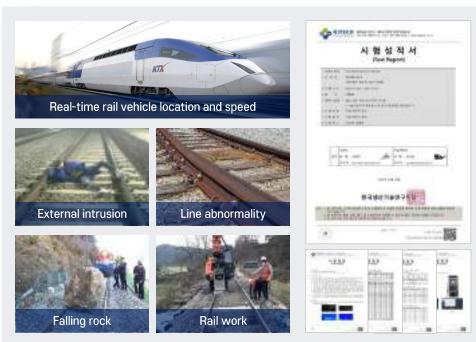


- Empirical test #01 F Railway track safety monitoring verification (21.12.)
 - Support for operational safety through verification of the Osong-Gongju (47km) and Seodaejeon-Gyeryong (19km) sections
 - Accident prevention and maintenance efficiency through track condition monitoring

measurement







No	Evaluation Criteria	Evaluation Method	Certification criteria	Result
1	Phase/frequency based data reception	Check whether DAS Process module receives HMI	Dual data reception distance	50.425km

(syncopation)

6	abnormal condition of track	Rail joint analysis at train passing points	Classification Accuracy	90.91%
7	Worker (intruder) detection	Repeated movement of sections around the track	Classification Accuracy	90%
8	Construction (human work) detection	Implementation of human work events on the ground around the tracks	Classification Accuracy	100%
9	Construction (mechanical work) Implementation of mechanical work events or the ground around the tracks		Classification Accuracy	100%
10	Falling rock detection	Repeated rockfall test around the track	Classification Accuracy	100%





Verified Customized Technical Applicability through Various Extreme Environmental Tests

- Demonstration test _ #02 \(^22.06.\)
 - Real-time Monitoring of the Rotating Components (Roller) of Raw Material Transfer Belt Conveyors
 - Optimal Maintenance Support through Al Analysis of Abnormal Vibration Occurrences

posco



Real-time Monitoring of Rotating Components

Substitution of Periodic Inspections to Prevent Human Accidents

Optimal Maintenance Support

belt conveyor Roller

- Demonstration test #03 [Underground Bunker Monitoring System] (20.12.)
 - 24/7 Unmanned Continuous Safety Inspection of Urban Lifelines (Power Lines, Water Lines, Communication Lines)
 - Simultaneous Measurement Support for Vibration and Temperature through e-DAS and e-DTS





* DTS: Distributed Temperature Sensing,



Laser pulse signal (Reilly rear scattering)





Tailored Disaster Safety Al Solutions based on the characteristics of disaster management targets and structures



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Mode	el Name	[©] DAS	PORTABLE	HYBRID	©TS	⊕SS	[©] F8Gi
Detect	ed Items	Acoustic vibration	Acoustic vibration	Acoustic vibration/ Temperature	Temperature	Strain	Strain
	urement ethod	Fixed Type	Moved Type	Fixed Type	Fixed Type	Fixed Type	Fixed Type
S	Size	1U	1U	3 U	3 U	3 U	1U
0 .: 17				Distributed Sensor			Grid Sensor
Uptical I	Properties	Rayleigh	Rayleigh	Rayleigh, Raman	Raman	Rayleigh, Brillouin	VCSEL















OptaSense⁶

Amplitude DAS







Model	e-DAS	N-52 Series	iDAS	OptaSense	Treble+	DAS
Country of Manufacture	Republic of Korea	Germany	UK	UK	Australia	Republic of Korea
Reliability	< 95%	< 90%	< 90% Simple Vibration Detection			
Maximum Detection Range	100km	70km	45km	50km	40km	40km
Spatial Resolution	1m~10m	1m	10m	7.5m	1m	10m
Technical Support and Maintenance	Fast and easy		Impossible/Overcost			
Measurement	Phasa DAS			Amplitudo DAS		

[Differences in measurement techniques]

Technique

Phase DAS

¹⁾ Amplitude DAS: As only amplitude is measured and long-distance (25 km) sensing is limited, there is a weakness in that long-distance sensing is only possible by amplifying the pulse through an amplifier (EDFA) for long-distance sensing.

²⁾ Phase DAS: This is a method of measuring vibration by extracting amplitude + phase change, enabling innovative noise filtering and vibration sensing in a specific frequency range compared to the Amp method. This makes it easy to detect specific abnormal events in work sites with a lot of noise and vibration.

^{*} Advantages: improved measurement distance, detection of fine signals, miniaturization of product

^{*} Construction costs vary depending on the site situation or construction distance

^{*} Source: IEC 61757-3-2 Standard applicable, refer to each company's catalog







Fast and easy











Model	e-DTS	N-45-Series	XT-DTS	Bandweaver	TS3000	DTSX 3000
Country of Manufacture	Republic of Korea	Germany	UK	China	Republic of Korea	Japan
Maximum Detection Range	15km	50km	35km	40km	10km	50km
Spatial Resolution	1m	2m	0.5m	5m	2m	1m
Technical Support	Fact and pacy			mnossible/Overco	0+	

Impossible/Overcost

and Maintenance

* exchange rate: 1,291.50(2023.11.29)

^{*} Construction costs vary depending on the site situation or construction distance * Source: IEC 61757-3-2 Standard applicable, refer to each company's catalog

















Model	e-DSS(OFDR)	OBR 4600	FEBUS G1-R	iDSS	T-BERD/MTS-8000	BOCDA
Country of Manufacture	Republic of Korea	USA	France	UK	USA	Japan
Strain Measurement Range	3000με	2000με	2500με	2000με	-30,000~ 40,000με	1500με
Strain Resolution	5με	1με	5με	1με	5με	60με
Measurement Sensor Length	100m	70m	100m	50m	100m	500m
Technical Support and Maintenance	Fast and easy	Impossible/Overcost				

* exchange rate: 1,291.50(2023.11.29)

^{*} Construction costs vary depending on the site situation or construction distance * Source: IEC 61757-3-2 Standard applicable, refer to each company's catalog





















Model	e-FBGi	Fl3300/Fl3400	LCM-2700	GTR	FBG	si255
Country of Manufacture	Republic of Korea	Republic of Korea	USA	Nethelands	China	USA
Wavelength Accuracy	6pm	20pm	1pm	2pm	1pm	1pm
Wavelength Range	5nm	85nm	70nm	50nm	75nm	100nm
Measurement Speed	10kHz	10kHz	19.2kHz	19.23kHz	19.2kHz	10kHz
Technical Support and Maintenance	Fast and easy		I	mpossible/Overcos	t	1

* exchange rate: 1,291.50(2023.11.29)

^{*} Construction costs vary depending on the site situation or construction distance * Source: IEC 61757-3-2 Standard applicable, refer to each company's catalog



Have customer performance references in different fields and build technical partnerships



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Thank You!

Investor Relations 2023

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