

## 「2025 Global Accelerating Support Project」 Presentation

# CHUNG CHEONG Co., Ltd

: Unmanned Automation Company  
in the Road Construction Industry

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Presenter : Jaehyun Park (CMO at CHUNG CHEONG Co., Ltd)

# Company Overview

- **Name** : CHUNG CHEONG Co., Ltd
- Date of Establishment : September 24, 2019
- **Business Field** : Road safety facilities manufacturing,  
Construction business (with construction license),  
Special purpose machinery manufacturing business
- **CEO** : Min-Jin Choi (10 years of experience in the construction industry)
- **Head Office** :  
1001 ho, 134 Gongdan-ro, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea
- **Branch Office** :  
Korea Institute of Civil Engineering and Building Technology (KICT)  
110 ho, 283 Goyang-daero, Ilsanseo-gu, Goyang-si, Gyeonggi-do, Republic of Korea
- **Web Address** : [www.ccrd.co.kr](http://www.ccrd.co.kr), **Youtube** : [www.youtube.com/@autong](https://www.youtube.com/@autong)

# Company Main History

- **2019.** Establishment of a corporation, Acquisition of construction business license (construction license)
- **2020.** Venture Business Registration, Product Registration and Sales at Public Procurement Service Product Registration and Sales
- **2020.** **Winning a Special Prize at Chungbuk Innovation Startup Competition**
- **2021.** **Winning an Excellence Award in the the construction equipment sector at Smart Construction Expo**
- **2022.** Establishment of an affiliated research institute
- **2022.** **Receiving** a citation as a promising businessman from Chungbuk
- **2022.** **Winning a Bronze Medal from Korea** Invention and Patent Exhibition
- **2023.** **Winning an official commendation from National Assembly of the Republic of Korea**
- **2024.** **Receiving a commendation from the Minister of Land, Infrastructure and Transport**  
Winning the Korean Intellectual Property Office Award  
Being designated as an innovative product by the Public Procurement Service.
- **2025.** **Winning the Innovation Award from CES 2025**



Lane Divider



Lane Delineator



Road Stud

## Problems

### Limitations of Road Construction Site

Construction of  
Road Facilities



Lane Painting Work



Deaths Every Year



## Problems

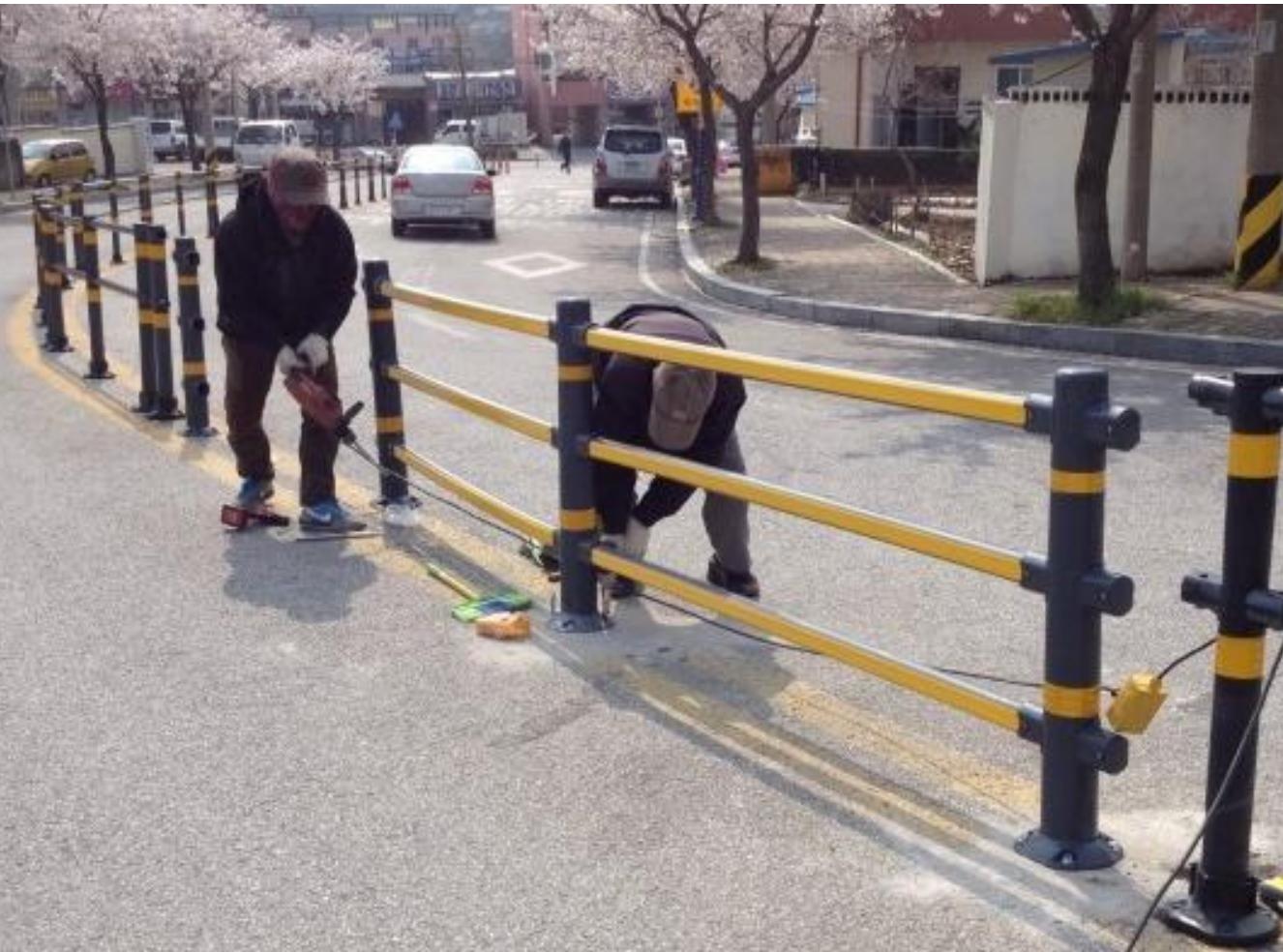
### Current Status of Road Construction Site

#### Worker-centered construction



- Non-standardization of work
- Decrease in the durability of a product

#### Dangerous Work Environment



- Frequent occurrence of industrial accidents
- labor shortage
- the danger of a serious accident

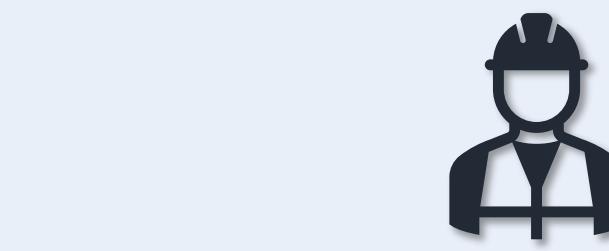
#### Impediment to Industrial Development



- Impairs of product performance
- Same as 23 years based on facilities

Lane Recognition Driving + Simultaneous Multiple Perforation + Dust Capture

## “AUTONG”, True innovation in road construction



- Automation

- Prevention of casualties



- Standardization of work
- Reduction of construction period



- Air and water pollution prevention



## Product Information

# AUTONG : Lane-aware driving automatic drilling machine



### 제품사양

구분	내용
품명/모델명	AUTONG
크기	1,300 * 1100 * 800
천공범위	80*80~300*300 / $\Phi$ 115~430
무게	약 250 kg
제조사/제조국	주식회사 충청 / 대한민국

### 시공사양

구분	내용
동시 천공	최소 1 개 ~ 최대 5개(차선분리대, 시선유도봉, 표지병)
조작방법	자동, 무선
동작전원	DC 24V, AC220
속도	최대 5km/h
천공범위	$\Phi$ 115mm~430mm

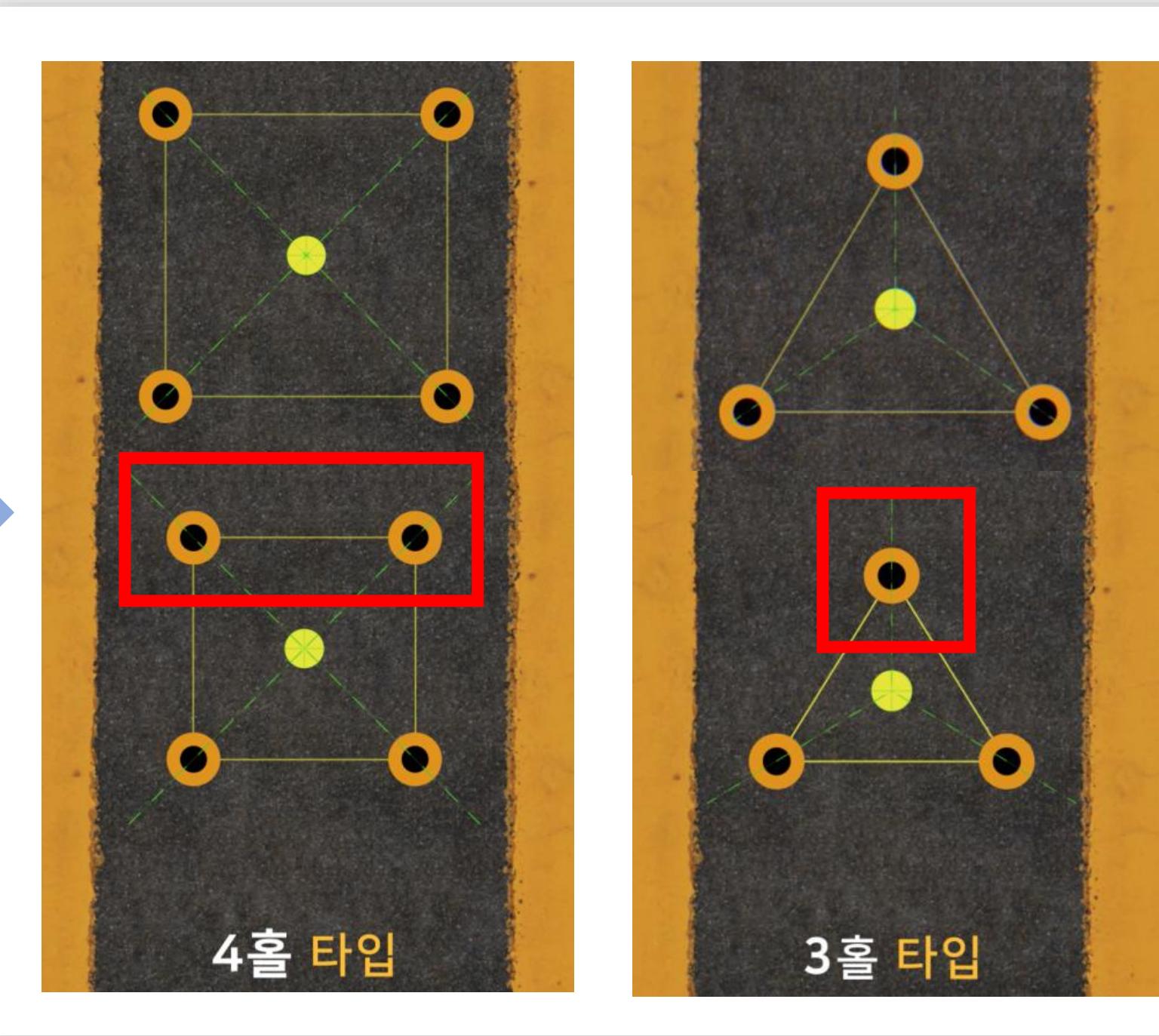
Technological Competitiveness

Compatible with different specifications by manufacturers

■ Four-hole type



■ Adjustable the distance and angle



4홀 타입

3홀 타입

■ Three-hole type



## Efficiency compared to the past

### Existing Labor-Oriented Operations

Standardization of operations

processing power

work environment

- Depends on the worker
- 200 for 8 hours (5 people)
- Construction by a contractor

on the road

- Dust Scattering
- Perforation carried out

according to the product specification

environmental pollution

Puncturing hole compatibility

### AUTONG Operations

- Compliance with the specification
- 400 for 8 hours (3 people)
- Only assembly personnel required
- Dust Collection
- Simultaneous perforation of various types of holes
- separation work of Perforation and assembly process



### \* The values we offer

Ensure reliability of results &

**01**

Improve construction quality

**02**

Reduce construction time by 40%

& Reduce required manpower

**03**

Prevention of industrial accidents

**04**

Dust blocking

**05**

Flexible response

by product specification

Technological Competitiveness

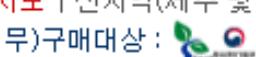
Application of "AUTONG" in construction site for the first time in Korea



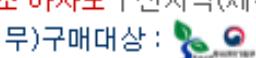
# Market Preparation

## Preparation completion for Domestic sales

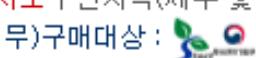
### Korea ON-line E-Procurement System(KONEPS)

세부품명 : 차선분리대 (4616157501) 제조  
 규격 : 차선분리대, 충청, CCL-118,  $\Phi 121 \times 1800 \times 965$ mm, 연결형  
 식별번호 : 23767186 [다수공급자계약](#)  
 회사명 : 주식회사 충청 [중소기업]  
 원산지 : 대한민국  
 계약종료일 : 2026/02/18 | 납품기한 : 30일(납품요구일로부터)  
 현장설치도 | 전지역(제주 및 도서산간지역 운임비 별도)  
 우선(의무)구매대상 : 

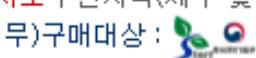
180,000 원  경간 

세부품명 : 차선분리대 (4616157501) 제조  
 규격 : 차선분리대, 충청, CCL-119,  $\Phi 121 \times 1800 \times 965$ mm, 독립형  
 식별번호 : 23767187 [다수공급자계약](#)  
 회사명 : 주식회사 충청 [중소기업]  
 원산지 : 대한민국  
 계약종료일 : 2026/02/18 | 납품기한 : 30일(납품요구일로부터)  
 납품장소 하차도 | 전지역(제주 및 도서산간지역 운임비 별도)  
 우선(의무)구매대상 : 

190,000 원  경간 

세부품명 : 차선분리대 (4616157501) 제조  
 규격 : 차선분리대, 충청, CCL-116,  $\Phi 121 \times 1500 \times 965$ mm, 독립형  
 식별번호 : 23767185 [다수공급자계약](#)  
 회사명 : 주식회사 충청 [중소기업]  
 원산지 : 대한민국  
 계약종료일 : 2026/02/18 | 납품기한 : 30일(납품요구일로부터)  
 현장설치도 | 전지역(제주 및 도서산간지역 운임비 별도)  
 우선(의무)구매대상 : 

200,000 원  경간 

세부품명 : 차선분리대 (4616157501) 제조  
 규격 : 차선분리대, 충청, CCL-119,  $\Phi 121 \times 1800 \times 965$ mm, 독립형  
 식별번호 : 23767187 [다수공급자계약](#)  
 회사명 : 주식회사 충청 [중소기업]  
 원산지 : 대한민국  
 계약종료일 : 2026/02/18 | 납품기한 : 30일(납품요구일로부터)  
 현장설치도 | 전지역(제주 및 도서산간지역 운임비 별도)  
 우선(의무)구매대상 : 

210,000 원  경간 

시선유도봉(4616159701) 주식회사 충청 중소기업 제조  
 시선유도봉, 충청, CCG-450,  $\Phi 210 \times \Phi 85 \times 450$ mm  
 식별번호 25095226  
 우선(의무)구매대상  납품사례 (0)  
 원산지 대한민국 계약종료일 2026.09.30 납품기한 30일(납품요구일로부터)  
 인도조건 납품장소 하차도  
 공급가능지역 전지역(제주 및 도서산간지역 운임비 별도)

19,000원  다수공급자계약 

시선유도봉(4616159701) 주식회사 충청 중소기업 제조  
 시선유도봉, 충청, CCG-450,  $\Phi 210 \times \Phi 85 \times 450$ mm  
 식별번호 25095226  
 우선(의무)구매대상  납품사례 (0)  
 원산지 대한민국 계약종료일 2026.09.30 납품기한 30일(납품요구일로부터)  
 인도조건 현장설치도  
 공급가능지역 전지역(제주 및 도서산간지역 운임비 별도)

22,000원  다수공급자계약 

시선유도봉(4616159701) 주식회사 충청 중소기업 제조  
 시선유도봉, 충청, CCG-750,  $\Phi 210 \times \Phi 85 \times 750$ mm  
 식별번호 25095225  
 우선(의무)구매대상  납품사례 (0)  
 원산지 대한민국 계약종료일 2026.09.30 납품기한 30일(납품요구일로부터)  
 인도조건 납품장소 하차도  
 공급가능지역 전지역(제주 및 도서산간지역 운임비 별도)

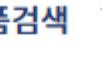
26,000원  다수공급자계약 

시선유도봉(4616159701) 주식회사 충청 중소기업 제조  
 시선유도봉, 충청, CCG-750,  $\Phi 210 \times \Phi 85 \times 750$ mm  
 식별번호 25095225  
 우선(의무)구매대상  납품사례 (0)  
 원산지 대한민국 계약종료일 2026.09.30 납품기한 30일(납품요구일로부터)  
 인도조건 현장설치도  
 공급가능지역 전지역(제주 및 도서산간지역 운임비 별도)

29,000원  다수공급자계약 

### Innovative Product Market



대표제품검색  AUTONG 

혁신제품 전용몰	혁신시제품 지정	혁신제품 시범구매	R&D 수요조사	혁신수요 발굴	참여기관 업무
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| 상품 정보 1건의 검색결과가 조회되었습니다.



AUTONG-

330,000,000 원

물품식별번호 25215406

세부품명번호 2315329801

규격 Mobility - Weight : 1500kg - Depth rating : 2500m - DOF : 6 (Surge...

인증정보 혁신제품

Entering the Global Market

# Entry into Vietnam



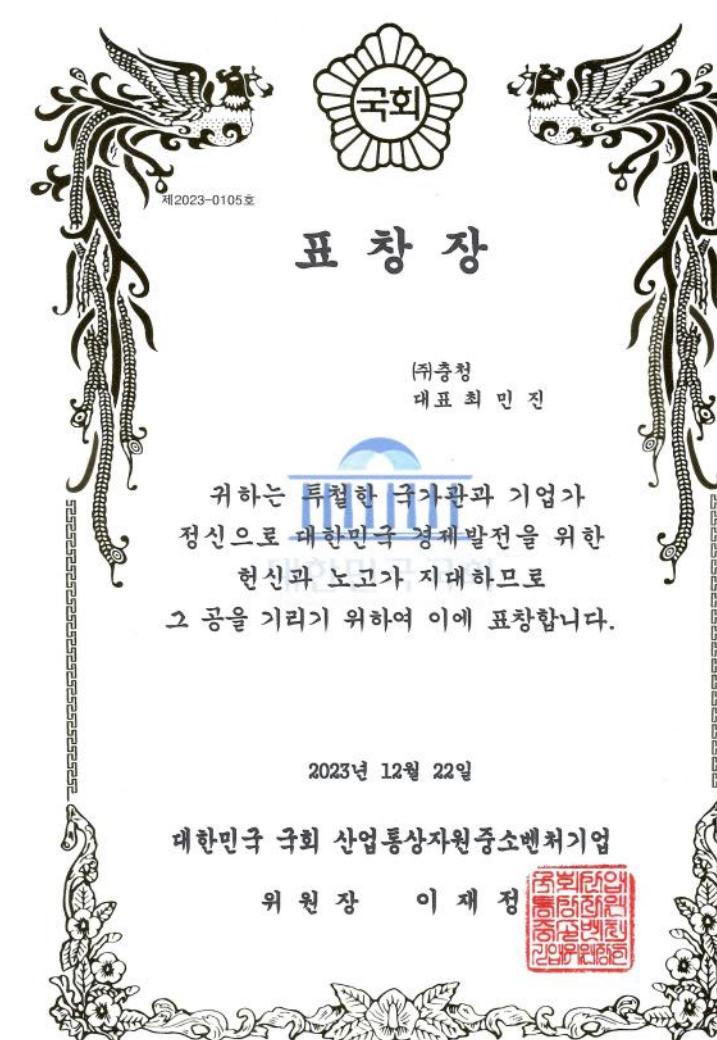
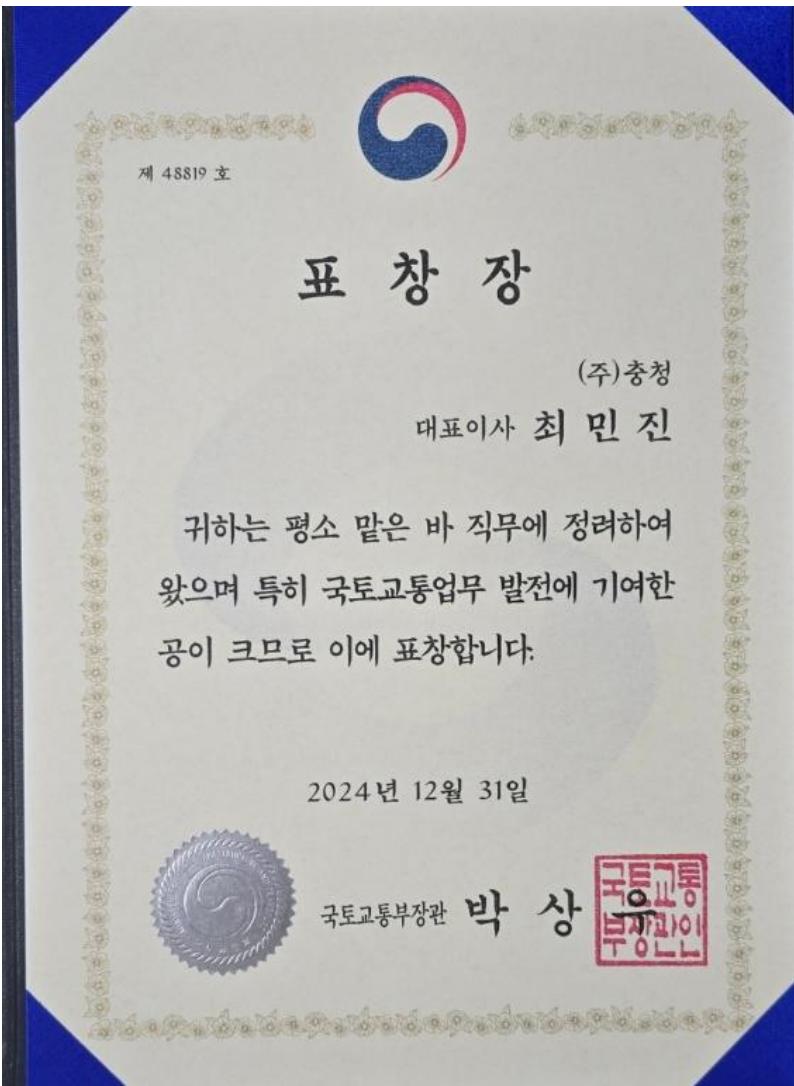
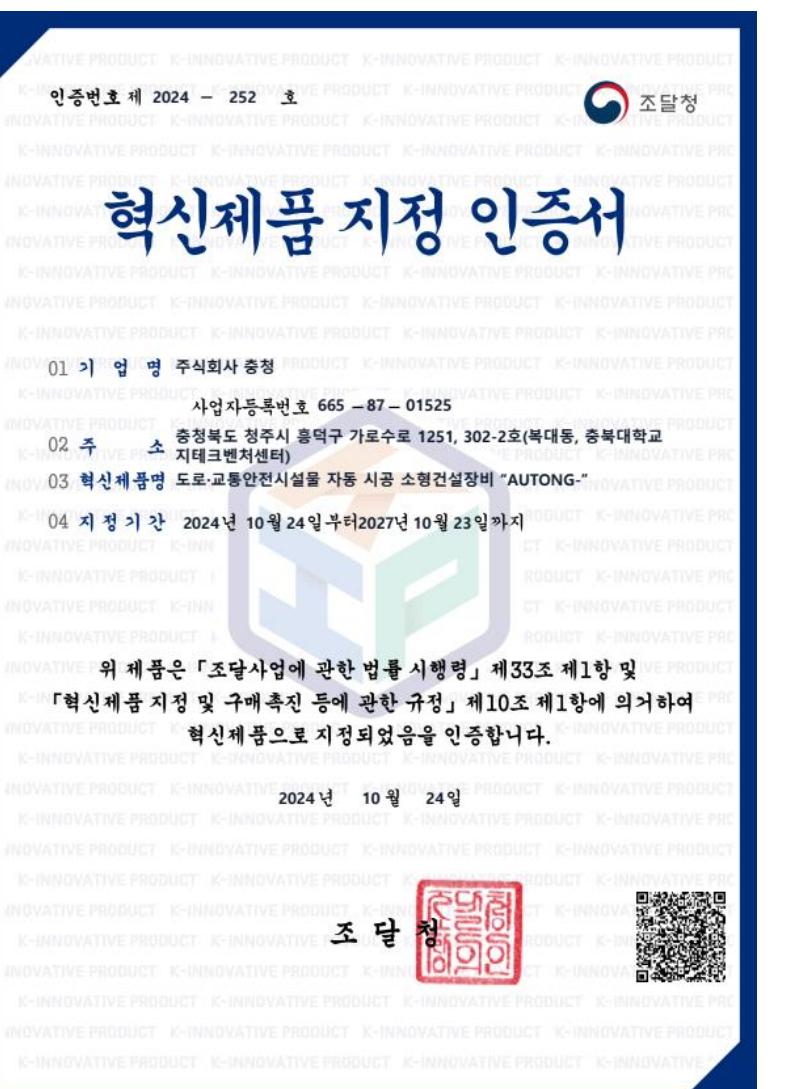
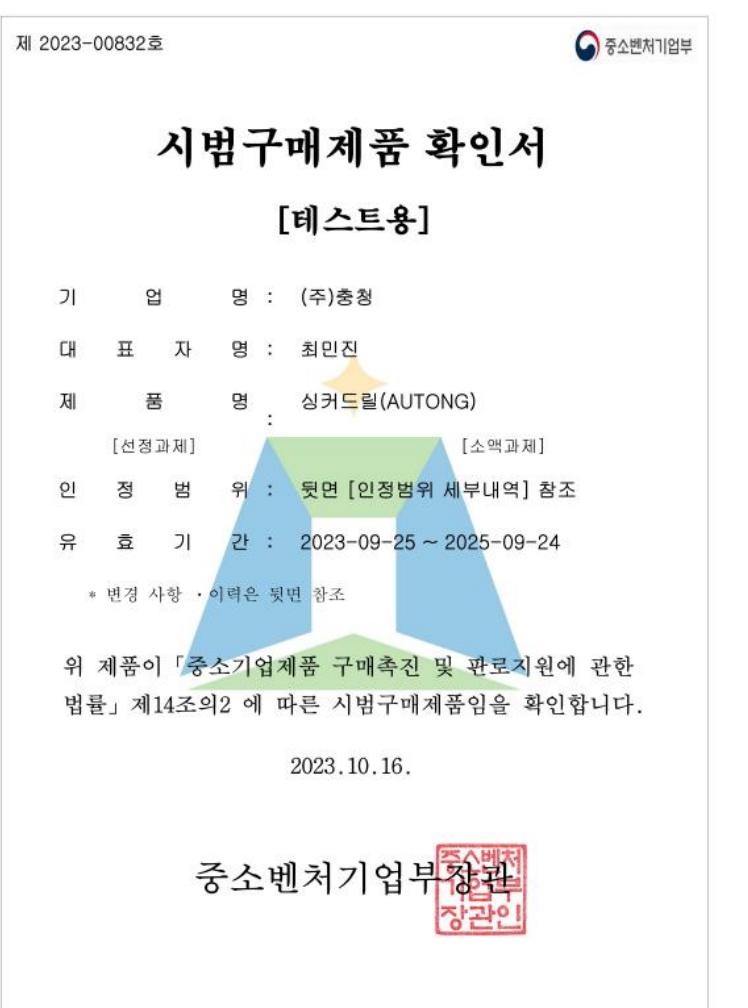
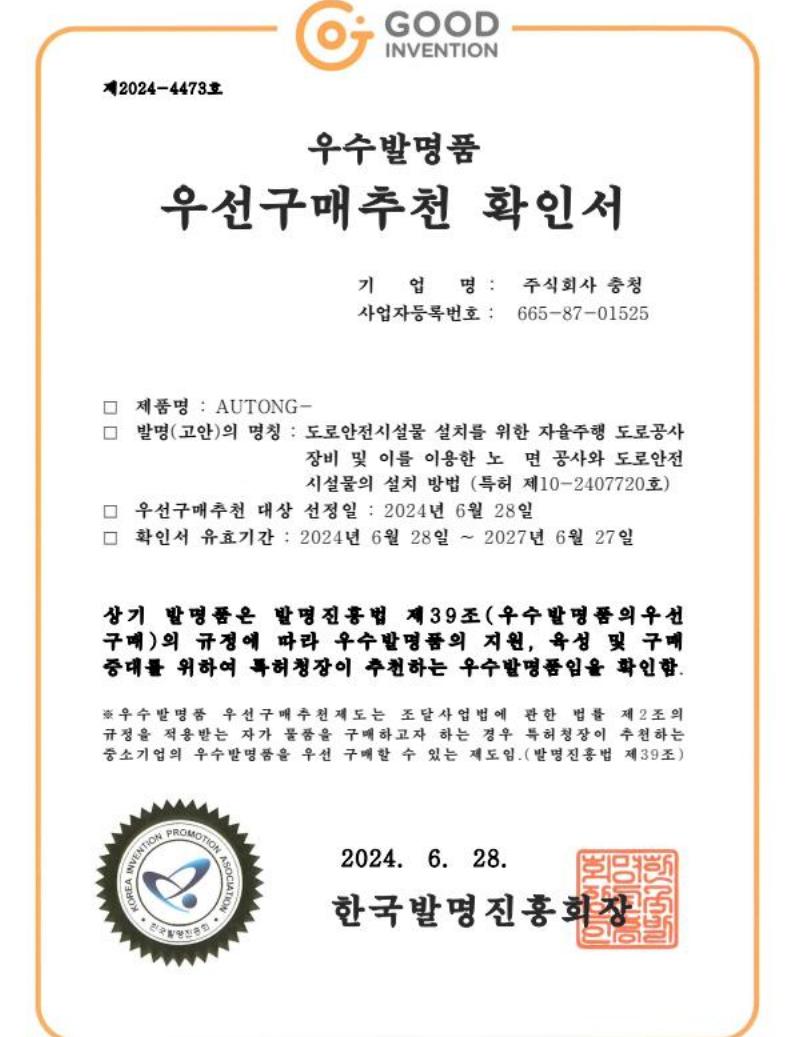
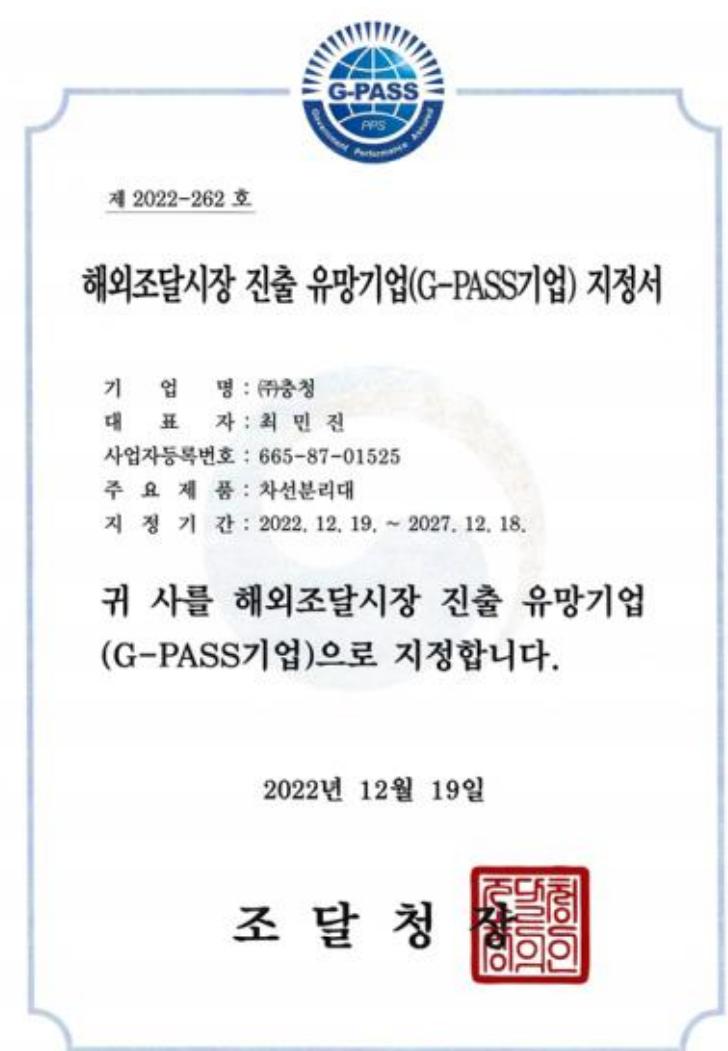
< Installation in Can Tho City,  
2023 >



< Installation in Ho Chi Minh City, 2024 >

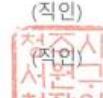
# Product Verification

## Domestic and foreign technology verification



# Current Situation

Public-private cooperation in Korea and abroad is underway.

불암1		참가신청서 양식		
<b>스마트건설 기술 적용 선도프로젝트 신청서</b>				
기관(기업) 명		주식회사 충청	대 표 자 명	최민진
주소		충북 청주시 흥덕구 가로수로 1251, 302-2(충북지방중소기업청)		
담당자	책임	부서명 연락처	경영부 043-214-5759	이름/직책 이메일
	실무	부서명 연락처	경영부 043-214-5759	이름/직책 이메일
	기관(기업) 명	(기관(기업)명 기재)	대 표 자 명	(대표자명 기재)
	주소	충청북도 청주시 서원구 사직대로 227(사직동)		
담당자	책임	부서명 연락처	건설과 043-201-6375	이름/직책 이메일
	실무	부서명 연락처	건설과 043-201-6375	이름/직책 이메일
	선도프로젝트 명칭 단계 (복수선택 가능)	도로·교통안전시설물 시공로봇 AUTONG		
		<input checked="" type="checkbox"/> 발주	<input checked="" type="checkbox"/> 설계	<input checked="" type="checkbox"/> 시공
신청 분야 (복수선택 가능)	<input type="checkbox"/> BIM <input type="checkbox"/> OSC/모듈리 <input checked="" type="checkbox"/> 건설지동화(로봇) <input type="checkbox"/> 디지털 센싱 <input type="checkbox"/> 스마트안전 <input type="checkbox"/> 빅데이터 플랫폼 <input type="checkbox"/> 기타( )			
스마트건설 선도프로젝트 모집 신청서를 다음과 같이 제출합니다. 본 신청서 내용(사례)에 중복, 허위 사실이 있는 경우 선정취소 등 조치 사항에 동의합니다.				
2024. 10. 18.				
기관(기업)명: 주식회사 충청		대표자:	최민진	(직인)
기관(기업)명: 청주시 서원구청		대표자:	김응오	
국토교통부장관 귀하				

		개인정보보호, 꼭 지켜야할 우리의 약속입니다		
<b>청주시 서원구</b>				
주식회사 충청 귀하 (우28420 충청북도 청주시 흥덕구 가로수로 1251, 302-2호 수신 (복대동)) (경유)		<b>제목 2024년 스마트건설 얼라이언스 기술실증 지원사업 진행</b>		
1. 2024년 스마트건설 얼라이언스 기술실증 관련 현장을 검토한바 해당 지역을 불임과 같이 선정하여 회신합니다.				
2. 귀사는 공사 추진 전 사업계획서 제출 등 공사 전반에 대하여 협의하여 주시기 바랍니다.				
<b>붙임</b> 서원구 설치 요청구간(3구간) 사진대지 1부. 끝.				
				
주무관 <b>주영학</b> 도로보수팀장 <b>유재길</b> 서원)건설과장 <b>이상학</b> 전경 2024. 8. 27.				
협조자				
시행 건설과-19737		(2024. 8. 28.)		접수
우 28565 충청북도 청주시 서원구 사직대로 227 (사직동)		/ <a href="http://www.cheongju.go.kr">http://www.cheongju.go.kr</a>		
전화번호 043-201-6375		팩스번호 043-201-6409		/ 비공개(5)

  
**CHUNGCHEONGBUK-DO**  
82 Sangdang-ro, Sangdang-gu, Cheongju-si, Chungcheongbuk-do, Korea, 28515  
Tel. +82-43-220-3461-6 Fax. +82-43-220-3469

December 4, 2024

**Director Department of Science and Technology,**  
**Hai Phong City, Vietnam**

Dear Sir or Ma'am:

I hope this letter finds you well.

Chungcheongbuk-do province, one of the 17 Metropolitan cities and provinces in Korea and strategically located in the central part of the country, has pursued to establish cooperation networks in Vietnam. Through the extensive expansion efforts, we have built mutually beneficial relationships with Vinh Phuc province and Ho Chi Minh City, among others, by holding business-to-business meetings, exploring energy and smart farming projects, and deepening our understanding of each other through the secondment of officials and mutual visits.

Currently, the Public Procurement Service of Korea is promoting an overseas pilot purchase program for innovative products developed by domestic companies. This program aims to support overseas demonstration projects for companies that aspire to expand internationally with their innovative products.

In this regard, one of our local companies, *Chung Cheong Co., Ltd.*, has developed the "Autong", an automatic drilling machine that performs drilling operations required for road facility installations, and intends to install this product in Hai Phong City, Vietnam, as part of the Public Procurement Service's pilot purchase program to assess its potential in the international market.

To encourage the overseas expansion of local businesses, Chungcheongbuk-do is pleased to forward the company's proposal for your review. We kindly ask for your consideration of the attached proposal. For further details, please contact Mr. Choi Min-jin, CEO of *Chung Cheong Co., Ltd.*, at [ceo@ccrd.co.kr](mailto:ceo@ccrd.co.kr) or **+82-10-8207-5759**.

Sincerely,

*YJ en 200*

**Park U-Jeong**  
Director, International Cooperation and Trade Division,  
Chungcheongbuk-do Provincial Government, Republic of Korea

Enclosure: Business Proposal and Product Brochure



<div style="text-align: center;">  <p>EMBASSY OF THE REPUBLIC OF KOREA</p> <p>KEV-24- 1431</p> <p>Đại sứ quán Đại Hàn Dân Quốc tại Việt Nam kính chào Ủy ban nhân dân Thành phố Hải Phòng nước Cộng hòa xã hội chủ nghĩa Việt Nam.</p> <p>Với mục tiêu hỗ trợ quảng bá ra nước ngoài các sản phẩm đổi mới thuộc Danh mục chỉ định của Tổng cục Mua sắm công Hàn Quốc, Tổng cục Mua sắm công Hàn Quốc hiện đang triển khai thực hiện "Dự án mua sắm thí điểm để tăng cường xuất khẩu sản phẩm đổi mới" (sau đây gọi là Dự án mua sắm thí điểm) dành cho đối tượng các doanh nghiệp mong muốn quảng bá sản phẩm ra nước ngoài.</p> <p>* Sản phẩm thuộc Danh mục chỉ định của Tổng cục Mua sắm công Hàn Quốc: Là các sản phẩm hoặc dịch vụ thuộc lĩnh vực phát triển đổi mới như đồ thị thông minh, trí tuệ nhân tạo v.v. được Tổng cục Mua sắm công xem xét và chỉ định sau khi đã được công nhận về tính đổi mới và tính cộng đồng.</p> <p>Về vấn đề này, Công ty TNHH Chung Cheong, doanh nghiệp chuyên cung cấp thiết bị an toàn đường bộ của Hàn Quốc, hiện bảy tò mong muốn được lắp đặt thiết bị "AUTONG" đã được Tổng cục Mua sắm công Hàn Quốc công nhận là sản phẩm đổi mới trên địa bàn Thành phố Hải Phòng trong khuôn khổ Dự án mua sắm thí điểm nói trên.</p> <p>Đại sứ quán xin gửi tới Quý Cơ quan tài liệu thuyết minh về Dự án mua sắm thí điểm và bản Đè xuất của Công ty TNHH Chung Cheong (đính kèm), kính mong Quý Cơ quan xem xét nội dung đề xuất. Mọi thông tin chi tiết liên quan đến nội dung đề xuất dự án xin liên hệ Ông Choi Min Chin – Giám đốc Công ty TNHH Chung Cheong (Email: ceo@ccrd.co.kr;ĐT: +82-10-8207-5759).</p> <p>Nhân dịp này, một lần nữa Đại sứ quán Đại Hàn Dân Quốc tại Việt Nam xin gửi tới Ủy ban nhân dân Thành phố Hải Phòng nước Cộng hòa xã hội chủ nghĩa Việt Nam lời chào trân trọng và hy vọng mối quan hệ hợp tác giữa Việt Nam và Hàn Quốc sẽ ngày càng được tăng cường trong thời gian tới.</p> </div>	<p><i>Dính kèm:</i></p> <ol style="list-style-type: none"> <li>1. Tài liệu thuyết minh Dự án mua sắm thí điểm để tăng cường xuất khẩu sản phẩm đổi mới của Tổng cục Mua sắm công Hàn Quốc.</li> <li>2. Thuyết minh sản phẩm.</li> </ol> <p>Hà Nội, ngày 02 tháng 12 năm 2024</p> <div style="text-align: center;">    </div> <p>Kính gửi: Sở Khoa học và Công nghệ - Thành phố Hải Phòng</p>
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SCIENCE - TECHNOLOGY DEVELOPMENT AND INNOVATION  
CENTER  
276B Lach Tray Street, Nghe Quyen District, Hai Phong City, Viet Nam  
Tel: 0225.364.0748 - Fax: 0225.3757.101 - Email: info@isc.lvn

## Approval Letter For Pilot Program Of Creative Product

Dec. 05th, 2024

To: - Embassy of the Republic of Korea  
- International Cooperation and Trade Division, Chungcheongbuk-do  
Provincial Government, Republic of Korea  
- Chung Cheong Co., Ltd

We would like to express our gratitude for your trust.

We have received official letter from the Embassy of the Republic of Korea in Vietnam KEV-24-1431 dated 02/12/2024; from International Cooperation and Trade Division, Chungcheongbuk-do Provincial Government, Republic of Korea date 04/12/2024, as well as the product brochure from Chung Cheong Co., Ltd. regarding the AUTONG product.

After reviewing the product and considering based on our functions and tasks, we agree to support Chung Cheong Co., Ltd. in bringing the AUTONG product to a Vietnamese enterprise for a pilot program of Public Procurement Service of Korea. The product will be used for road traffic line painting in that company.

Detailed information regarding the cooperation will be exchanged thoroughly in subsequent documents after approval.

For further information, please contact:

Ms Do Thi Nhung - Phone: 0904163863 (Zalo, Viber);  
Email: Isc.haiphong.info@gmail.com; Thongtin@hatex.vn

SCIENCE - TECHNOLOGY DEVELOPMENT  
AND INNOVATION CENTER  
DIRECTOR



NGUYEN THI CAM HUONG

	<p style="text-align: center;"><b>Vietnam National University Hochiminh city</b></p> <p style="text-align: center;"><b>Hochiminh University of Technology</b></p> <p style="text-align: center;"><b>Research and Application Center for Construction Technology (REACTEC)</b></p>
Address: Building C7, 268 Ly Thuong Kiet St, District 10, Ho Chi Minh City, Vietnam	
Email: <a href="mailto:info@reactec.vn">info@reactec.vn</a>	
12 <sup>th</sup> April, 2025	
<b>Approval Letter for Pilot Program of Creative Product</b>	
To: Chung Cheong Co. Ltd.	
We would like to express our gratitude for your trust.	
We have received the product brochure from Chung Cheong Co. Ltd. Regarding the AUTONG product.	
After reviewing the product and considering it based on our function and tasks, we agree to support Chung Cheong Co. Ltd. in bringing the AUTONG product to a Vietnamese enterprise for a pilot program of Public Procurement Service of Korea. The product will be used for road traffic line painting in that company.	
Detailed information regarding the cooperation will be exchanged thoroughly in subsequent documents after approval.	
For further information, please contact:	
Dr. Luu Xuan Loc – Director of Research and Application Center for Construction Technology (REACTEC)	
Email: <a href="mailto:lxloc@hcmut.edu.vn">lxloc@hcmut.edu.vn</a>	
Research and Application Center for Construction Technology	
	
Dr. Luu Xuan Loc	

# Current Situation

## Export to Vietnam is scheduled for October 2025.

### Memorandum of Understanding

The Memorandum of Understanding (hereinafter referred to as this "MOU") is entered into by and between the Chungcheong Co., Ltd (referred to as "Party A") and Research and Application Center for Construction Technology, HCMC University of Technology-REACTEC (referred to as "Party B") (each a "Party"; and collectively the "Parties") to perform both Parties' businesses smoothly under mutual cooperation in good faith as follows:

#### Article 1 (Objective)

The objective of this Memorandum of Understanding (MOU) shall entail fostering mutual cooperation between both Parties through the execution of the K-INNO Global Program, supporting companies engaged in the development of innovative technologies, and facilitating the advancement of national innovative industries.

#### Article 2 (Terms and Conditions)

Both Parties shall mutually cooperate with each other with respect to each of the following terms and conditions based on good faith, and any other matters not specified in this MOU shall be specified through separate discussions of both Parties:

1. (Establishing an action plan) Party B, REACTEC, provides Party A with the action plan for the K-INNO Global Program in collaboration with an Innovative Product supplier.
2. (Carrying out the K-INNO Global Program) Party B, REACTEC, conducts an on-site demonstration in partnership with an Innovative Product supplier in accordance with the aforementioned action plan.
3. (Assisting with the K-INNO Global Program) Party B, REACTEC, actively supports the effective implementation of a usage of products, providing resources such as human resources, materials, and sites.
4. (Management and supervision) Party B, REACTEC:
  - A oversees all processes outlined in the action plan.
  - B promptly informs the Chungcheong Co., Ltd upon detecting any illicit acts or problematic issues involving the Innovative Product supplier during the usage period.
  - C cooperates with the Chungcheong Co., Ltd by facilitating an interim review of the K-INNO Global Program implementation upon the Institute's request.
5. (Result of the K-INNO Global Program) Party B, REACTEC, is required to submit a completion report for the K-INNO Global Program within one month of concluding the K-INNO Global Program. Additionally, Party B cooperates with the Chungcheong Co., Ltd in providing any requested supplementation to the report.
6. (Ownership) Party B, REACTEC, consistently utilizes and administers an innovative product following the transfer of ownership from the Chungcheong Co., Ltd subsequent to the conclusion of the K-INNO Global Program.
  - A. Regardless of the official judgment of the K-INNO Global Program result, 'success', after its completion, if Party B decides against transferring ownership of the innovative product, it must bear full responsibility for all associated expenses for the return and

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restoration of the product.

- B. If the official judgment of the usage result is deemed a 'supplement' or 'failure', the decision regarding the transfer of ownership of the innovative product will be determined through discussion between Party B and the innovative product supplier. The supplier is mainly responsible for bearing all associated expenses in this scenario.
7. (Bilateral administration) Both Parties shall cooperate to promote, advertise, and disseminate the opening of the new public market based on the usage results.
8. The detailed operation concerning the K-INNO Global Program adheres to the Regulations on Management of the Purchase of Innovative Products. Any objections and issues not explicitly addressed in this documentation will be interpreted in accordance with the program's objectives.

#### Article 3 (Effect)

The effect of this MOU is valid from the day on which the presidents of both Parties sign this documentation until a decision to terminate this MOU, made through the cooperation of both Parties, is reached.

#### Article 4 (Good faith contract)

Both Parties shall faithfully perform the matters specified in this MOU based on the principle of good faith.

1. If Party B's performance is found to be unfaithful, rendering the implementation of the K-INNO Global Program impossible, Party A disqualifies Party B from participating in the program for a period of three years.

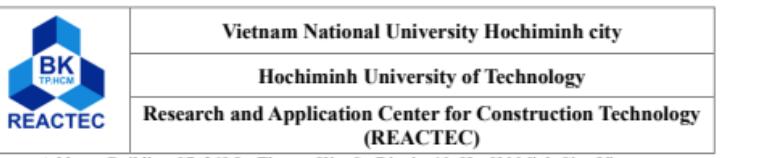
IN WITNESS WHEREOF, both Parties have executed and signed this MOU in duplicate, keep each.

April, 10, 2025  
Party A: Choi Minjin  
(President)  
Chungcheong Co., Ltd.  
Republic of Korea Chungcheongbuk-do  
Cheongju-si Heungdeok-gu Garosu-ro  
1251,302-2

Sealed  
Party B: Luu Xuan Loc  
Director  
Research and Application Center for  
Construction Technology  
Building C7, Ho Chi Minh City University of  
Technology, 268 Ly Thuong Kiet St, Ward 14,  
District 10, HCMC, Vietnam.



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Vietnam National University Hochiminh city  
Hochiminh University of Technology  
Research and Application Center for Construction Technology (REACTEC)

Address: Building C7, 268 Ly Thuong Kiet St, District 10, Ho Chi Minh City, Vietnam

Email: [info@reactec.vn](mailto:info@reactec.vn)

12th April, 2025

### Approval Letter for Pilot Program of Creative Product

To: Chung Cheong Co. Ltd.

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Dr. Luu Xuan Loc – Director of Research and Application Center for Construction Technology (REACTEC)

Email: [lxloc@hcmut.edu.vn](mailto:lxloc@hcmut.edu.vn)

Research and Application Center for Construction Technology



Dr. Luu Xuan Loc



## Status of technology holdings

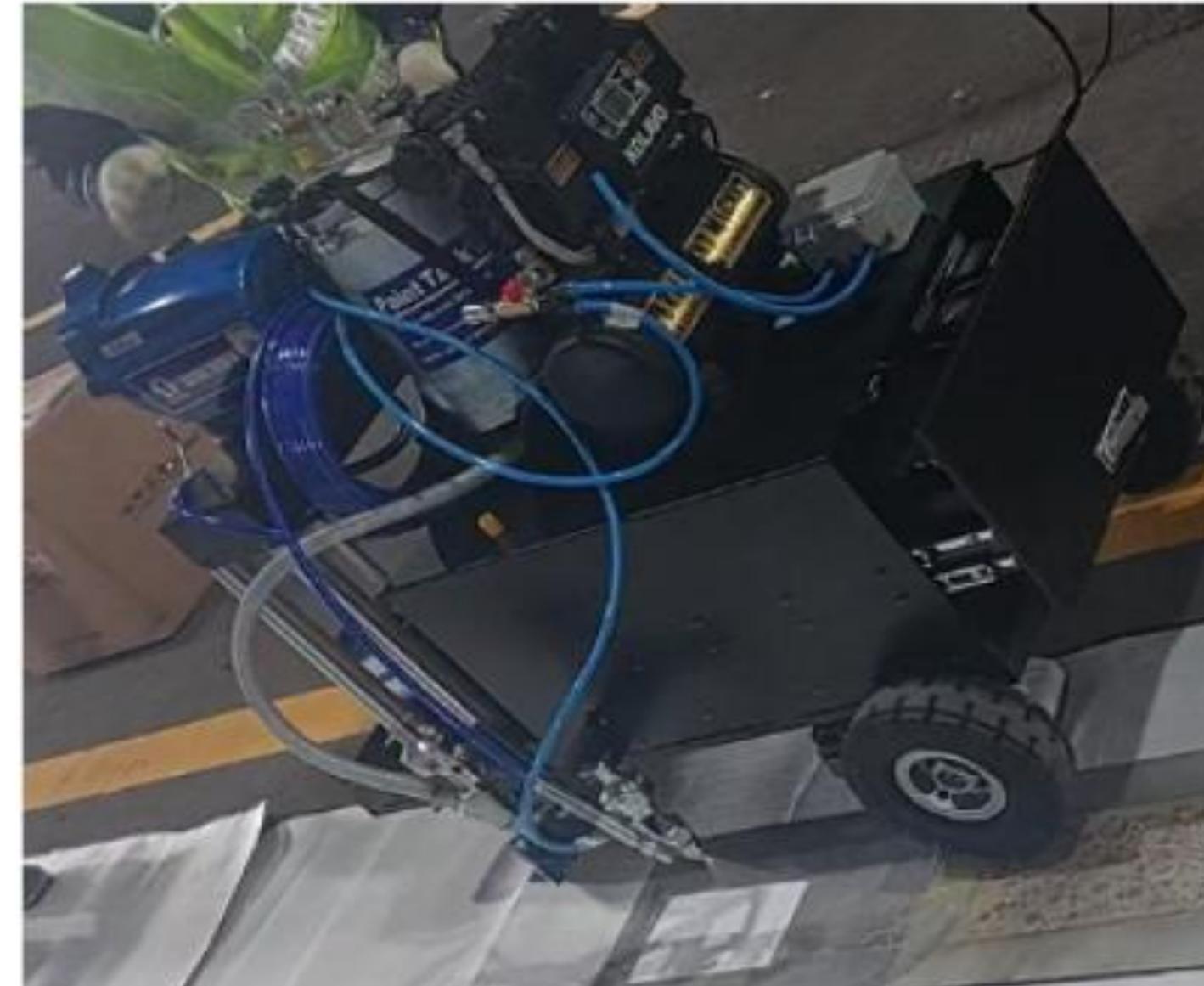
### Patents owned by the company(Design, Trademark)

구분	등록번호	명칭	만료일	비고
특허	제10-1693414호	위치오차 보정이 가능한 경로 추종 자율 주행장치 및 자율 주행 시스템	2035.02.23	충북대학교 산학 협력단 기술이전
특허	제10-2126738호	차선분리대	2038.04.16	-
특허	제10-2222352호	간격 조절이 가능한 도로안전시설물 설치용 천공 드릴 장치와 이를 포함하는 도로 천공기	2040.09.25	-
특허	제10-2407720호	도로안전시설물 설치를 위한 자율주행 도로공사 장비 및 이를 이용한 노면 공사와 도로안전시설물의 설치 방법	2042.06.06	
특허	제10-2495834호	도로안전시설물 설치를 위한 수동식 천공기 및 이를 이용한 천공홀의 천공과 도로안전시설물의 설치 방법	2041.07.28	
특허	제10-2636360호	도로안전시설물 설치용 천공기와 천공 유니트 및 이를 이용한 도로 안전시설물 시공방법	2043.06.27	
PCT	PCT/KR2021/010380	도로안전시설물 설치를 위한 도로공사 장비 및 이를 이용한 노면 공사와 도로안전시설물의 설치 방법	-	2021.07.06 출원
VN	VN-1-2021-05538	도로안전시설물 설치를 위한 도로공사 장비 및 이를 이용한 노면 공사와 도로안전시설물의 설치 방법	-	2021.09.07 출원

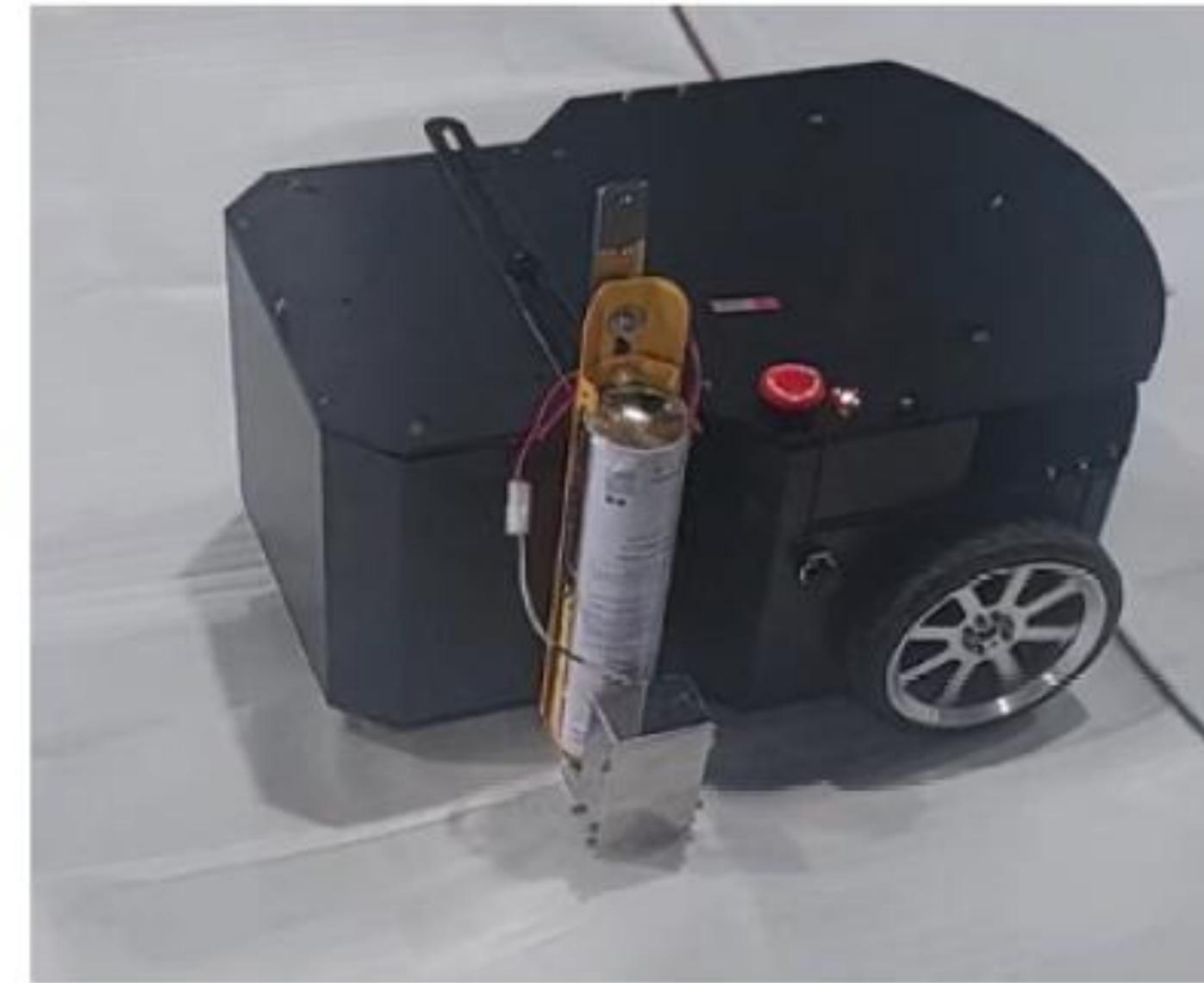
# Various Models of AUTONG



AUTONG



AUTONG - L



AUTONG - M



AUTONG - F

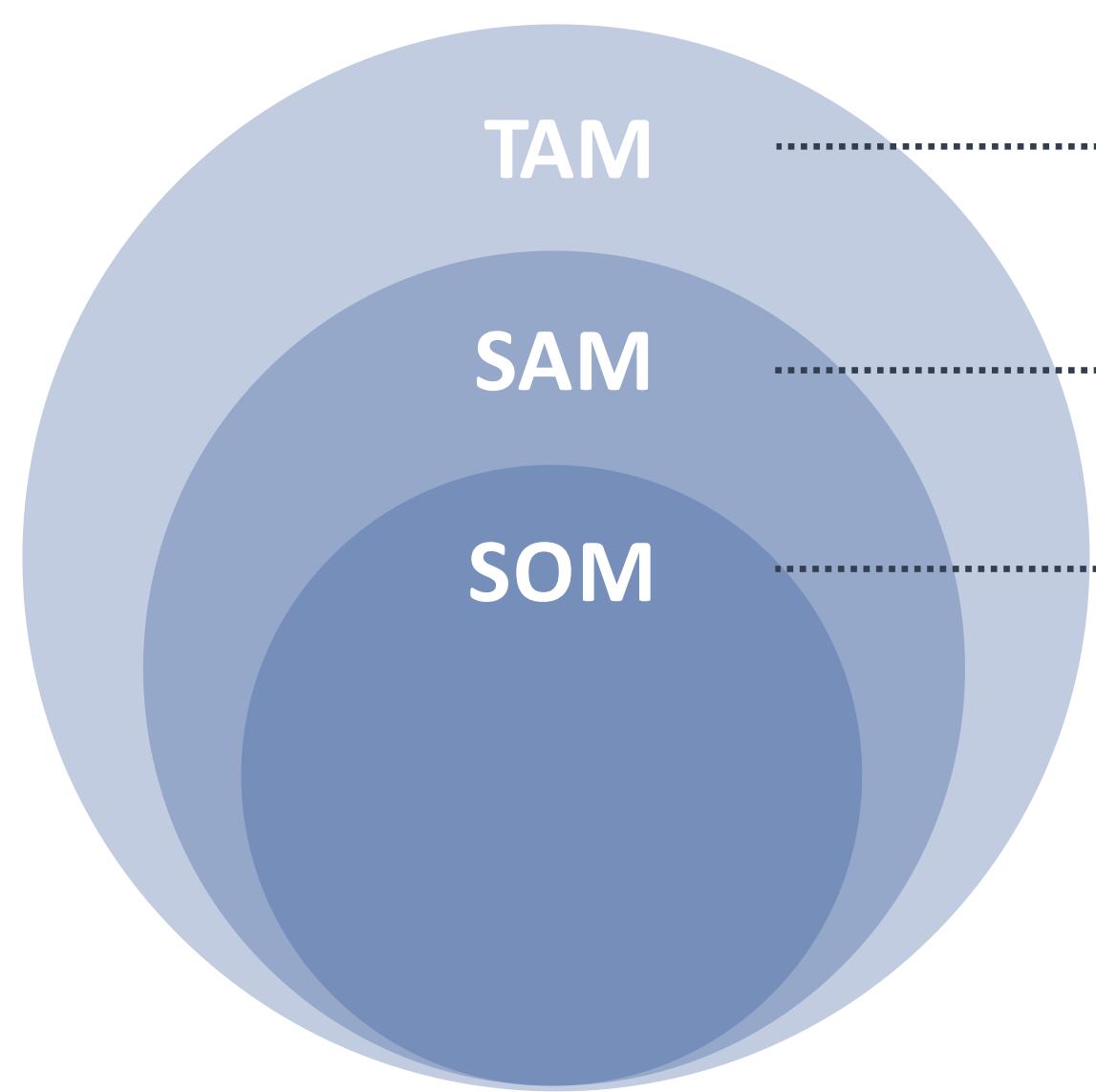
- Automatic Perforation for Facility Installation
- Carrying Heavy Goods

- Automatic Lane Painting

- Guide Line Marking Before Lane Painting

- Support for Clustered Safety Measures at Construction Sites
- Carrying Heavy Goods

## TAM-SAM-SOM



- Lane Painting
- Supply of Facilities
- Construction of Road Facilities

**World Construction Market \$10.7 trillion**

Annual average growth forecast of about 4%

**Global Smart Construction Equipment Market  
USD 1.5 Billion**

Annual average growth forecast of about 12%

**3 Global Road Painting Market \$8.8 Billion**  
Annual average growth forecast of about 5.2%

**2 Korea's Road Painting Market ₩630 Billion**

**1 Korea's Road Facilities Market ₩300 Billion**

\* Source: IHS Markit, Korea Construction Policy Institute, Public Data of Public Procurement Service, Planning Articles of Korea Construction Technology Institute, Professional Construction Newspaper, Lane Painting Association MarketsandMarkets, ROAD MARKING MATERIALS MARKET, 2018

# Sales Plan by Model

Category	AUTONG-	AUTONG-F	AUTONG-L	AUTONG-M	Note
Direct or Indirect Order	o	o	o	o	Direct Construction
Equipment Contract Construction	o	o	o	o	Subcontract
Domestic Rental	△	△	△	△	Agency
Domestic Sales	x	o	△	△	Some Products
Overseas Sales	△	△	△	△	Overseas Agency
Overseas Rental	o	o	o	o	Overseas Distributor

- In the domestic market rental business, equipment rental is reviewed according to market share
- Prioritize the expansion of the equipment utilization market
- Establish a rental plan after securing a base for each country for overseas business (Sales or Royalty)
- It is the same as the domestic construction system, so it is applied overseas according to the spread of the domestic market

## Team Members

# Company Motto : Make the impossible possible!



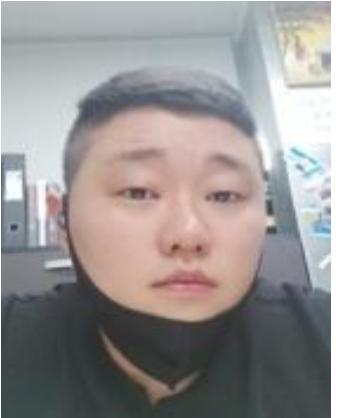
**Minjin Choi**  
CEO

- Majored in Business Administration
- 10 years of experience as a construction engineer
- Entrepreneurship Promotion Agency, Chungnam Creative Economy Innovation Center Mentor
- General Manager of Procurement Sales



**Miseob Rim**  
CTO

- Majored in Robot Engineering
- 15 years of experience in intelligent control system
- AUTONG Development of control systems



**Junhyuk Lee**  
Product Development

- Majored in Mechanical Engineering
- 8 years of experience in H/W System Development
- Instrumental Development of AUTONG



**Jonggil Byun**  
General Manager  
of Sales

- Majored in Mechanical Engineering
- 8 years of experience in Procurement Sales



**Jaehyun Park**  
CMO

- Majored in Mechanical Engineering
- 7 years of experience in Advertising Film Production
- 13 years of experience in Marketing & Sales



**Wanyoung Byun**  
Sales Manager in  
Metropolitan Area

- Majored in Journalism
- AUTONG Sales and Advertising



**Minju Kim**  
International Marketing

- Vietnamese Married to Koreans and Naturalized
- Interpreter at National Police Agency and Ministry of Employment
- Communication with Vietnamese agency



**Seokjin Yoo**  
On-site Construction

- 12 years of experience in construction
- construction engineer

Conclusion

## Replacement of outdoor construction site personnel

