



# Change the Wheel, Overcome Any Obstacle

A Wheel Overcome obstacles structurally (Barrier Free)

 **COBOT**



**Autonomous driving and AI have advanced rapidly,  
but conventional wheels still cannot overcome small curbs and bumps.**



**Even advanced mobile robots stop in front of obstacles.**



**On stairs,  
logistics equipment  
becomes an even  
greater burden**



**A '5 cm' curb  
is like a '5 m' wall.**

***The physical limits of wheels restrict the operating range of mobility!***

Existing approaches required redesigning the equipment itself to overcome obstacles. In addition, there are trade-offs such as limited steering, poor driving performance, and payload capacity.

Lifter Type



2 km/h max;  
Damages  
stairs/roads

Morphing Wheel



Limited payload  
(under 40 kg)

Autonomous Robot



Needs 12 motors +  
sensors; high adoption  
& upkeep costs

**Redesign the entire equipment  
just to get over an obstacle?**



**“ With CobotSystems’ technology,  
simply replace the wheels  
and realize Barrier-Free living and industrial sites! ”**

**Just Swap & Go!**

# Overcoming obstacles by transforming its **Physical Structure**

## Wheel Module Platform



### Obstacle-Free

Overcomes  
obstacles taller  
than the wheel  
diameter

### Modular Swap

Swap wheels on  
any moving  
equipment or  
robot!

### Economical

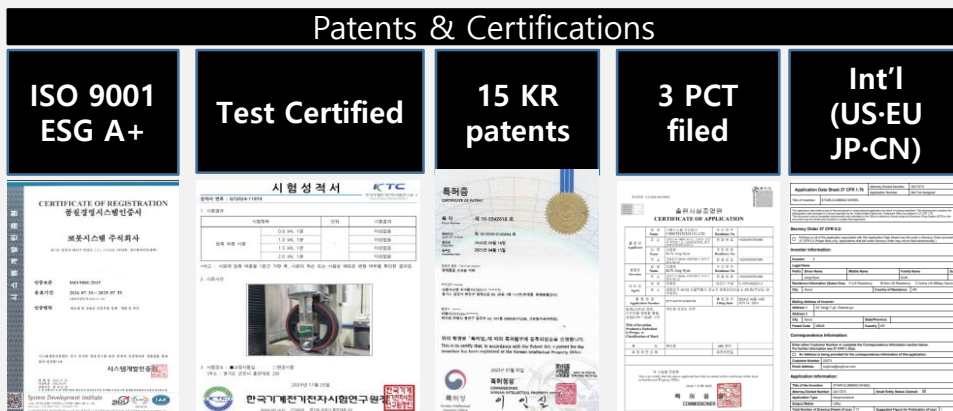
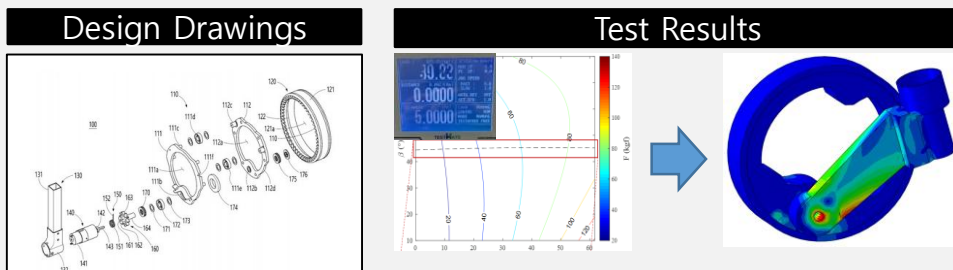
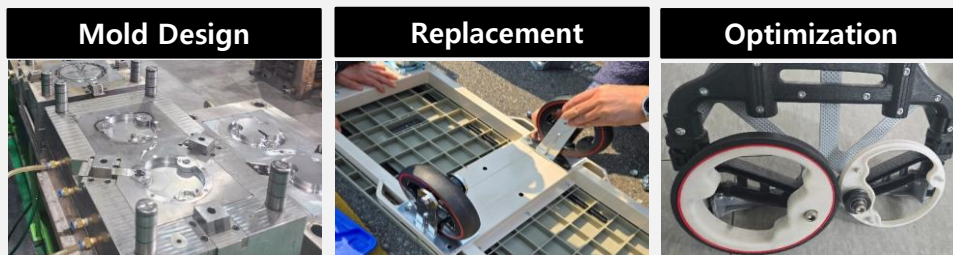
Economical,  
expandable  
across  
industries!



**OVERCOMING ALL OBSTACLES...  
USHERING IN THE ERA OF WHEEL 2.0**



# Cobot Systems' unrivaled technology — globally recognized and validated by patents and testing!!!



Patents cover the wheel and wheel-equipment integration

Overcomes obstacles larger than the wheel diameter

A modular structure that replaces conventional wheels

# Scalable to 28 mobility types, with superior economics vs. existing methods

Fits 28 mobility types  
**High Scalability**

Superior economics  
**vs. existing methods**

Wheelchair



Delivery Robot



Rollator



Industrial Cart

1

**Swap without body changes**  
: 40% faster (install time)

2

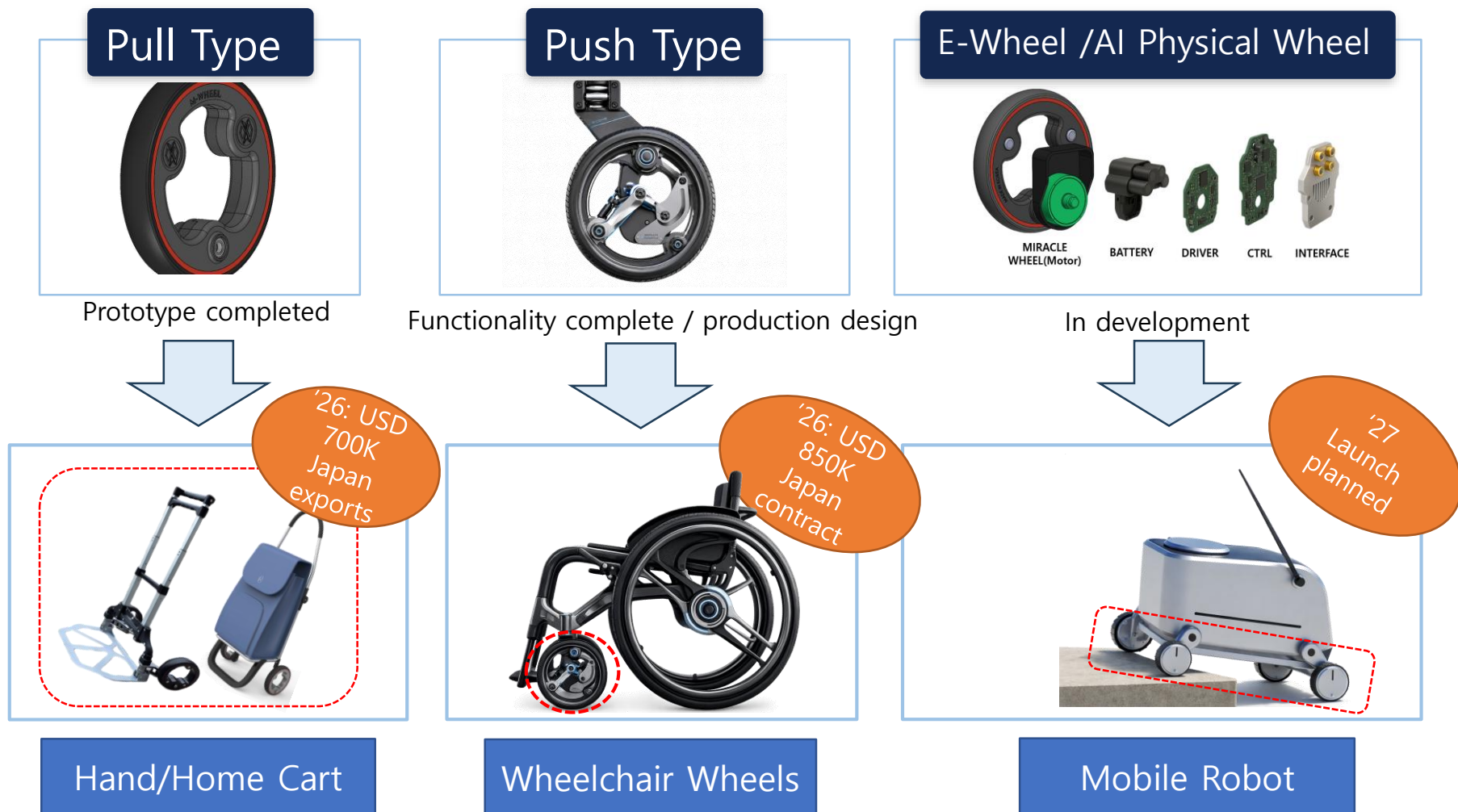
**Lower cost of ownership**  
: 28% fewer parts

3

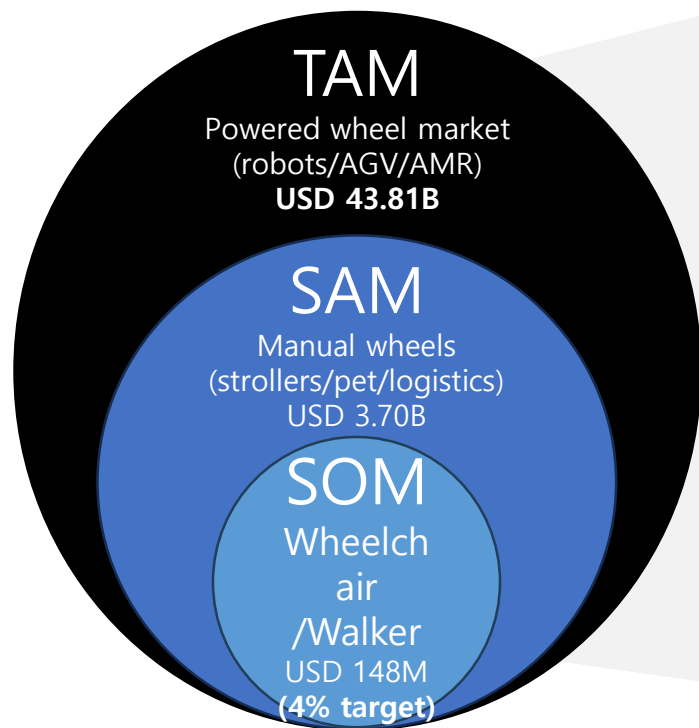
**Energy savings in use**  
: 30% saved (obstacle crossing)



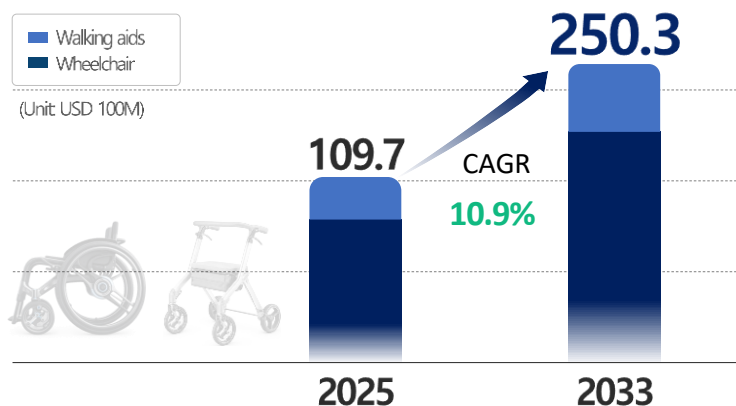
# Evolving from the passive Miracle Wheel → E-Wheel/Physical → AI Wheel, expanding into mobility-aid and robot markets.



The global Wheelchair & Walker\_aid market is projected to reach ~USD 25B by 2033, growing 10.9% annually.



### Wheelchair & Walker Market



Source: Grand View Research (wheelchairs), Straits Research (Walkers & Rollators) / as of 2025



Korean TV news regularly covers the growing mobile robot market and stronger mobility rights

Source: Global Market Insights (2025);  
SOM: internal estimate based on Cobot Systems business plan

**Three revenue models : Components, End\_products, licensing — turning early project revenue into recurring production & royalty revenue.**

**Revenue Model**

## 01 Components

Miracle Wheel modules (B2B)

**Customers: product makers**  
(stroller/cart/wheelchair/robot wheels)



## 02 End\_Products

Finished products (B2B)

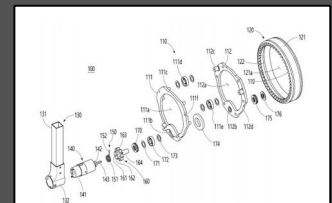
**Customers: distribution/retail**  
(finished products with wheels installed)



## 03 Licensing

Patented technology (B2B)

**Customers: global majors**  
(IP-based revenue)



**Continuity**

### Project & one-off revenue

- Prototypes · custom dev
- Initial wheel · module supply
- Product integration engineering

**Turning**

### Recurring revenue

- Ongoing wheel/module supply
- Replacement parts · maintenance (after-sales)
- License · sales royalties

# Backed by USD 1.6 Mil. Japanese supply contracts, we are driving mass-production conversion with wheelchair, logistics, and robotics customers in Korea and abroad.

<Korea>

**Company SS**  
(global conglomerate)

E-Wheel NDA



**Company SJ**  
(disability-owned enterprise)

Agreement signed to supply wheelchair



<Japan>

**Studio N**  
(on/offline distributor)

Exclusive Japan distribution & export contract



**NISSIN Medical**  
(global medical device brand)

Purchase-linked contract



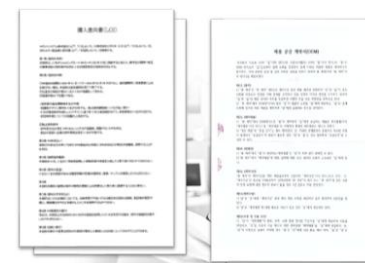
**Maki Tech**  
(global logistics company)

6-wheel cart PoC succeeded

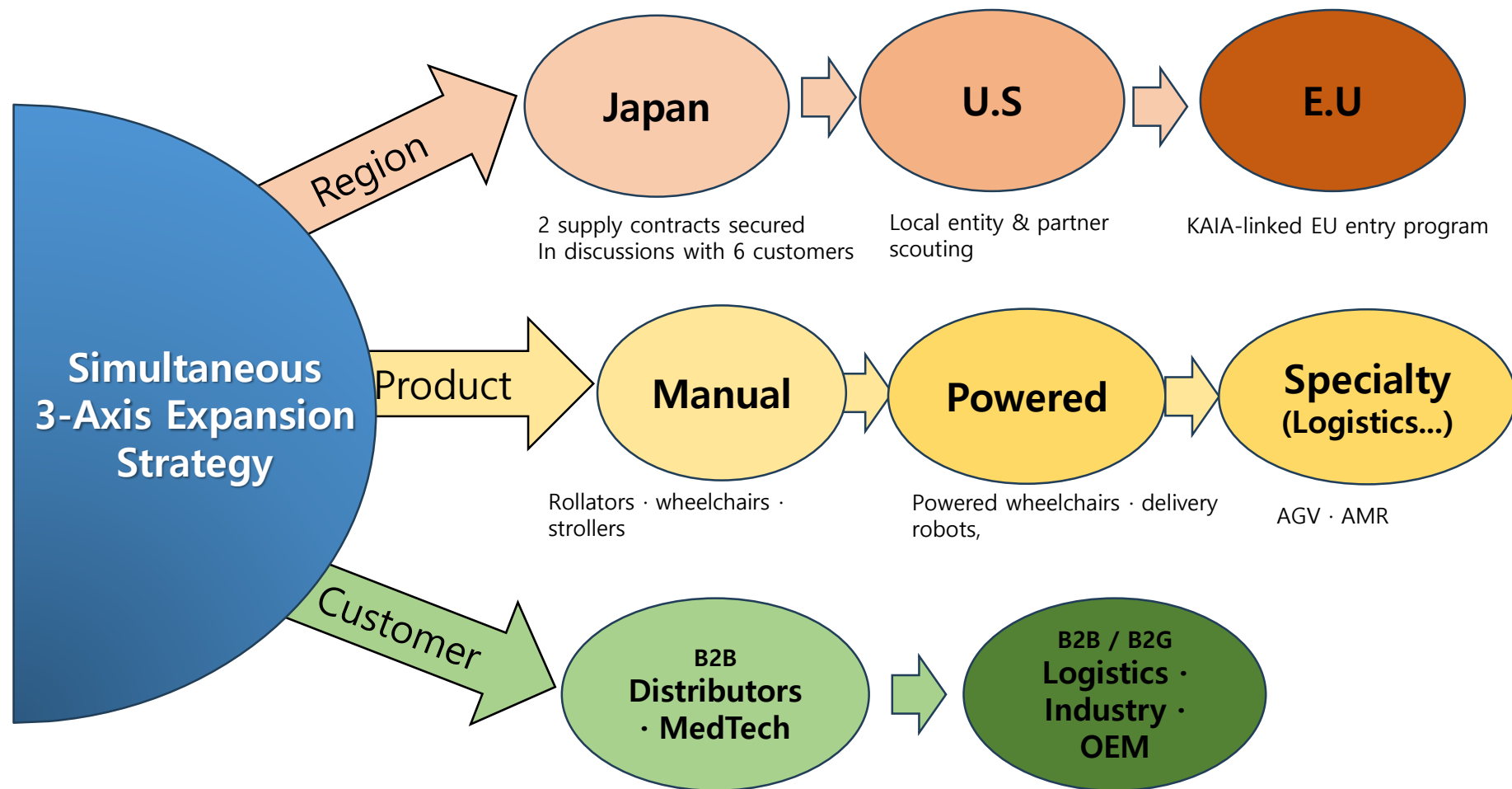


**Combi Wiz**  
(top Japanese stroller brand)

MOU/NDA signed; PoC under discussion

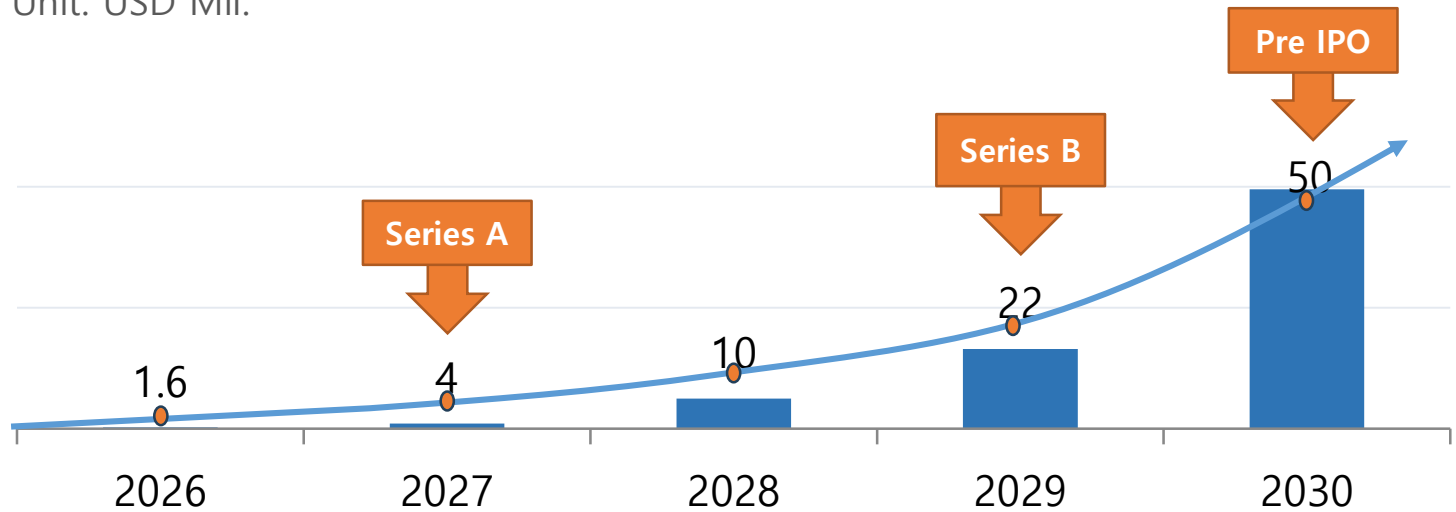


**After converting Japanese customer contracts into mass-production revenue, we expand products, customers, and regions to grow into a global wheel module platform**



## Starting with monetization of contracted volumes in 2027, Targeting USD 50Mil. in revenue by 2030

Unit: USD Mil.



### Market

Japan revenue:  
Studio-N + NISSIN

6 Japanese  
companies

US & EU  
expansion

Global expansion

### Product

Home Cart  
Hand Cart

Wheelchair  
Wheels  
Rollators

Baby/pet strollers  
Travel luggage  
Product lines

Robots,  
logistics eq.  
(AGV/ARM)

AI Physical  
Wheel

# Technology validated, contracts secured, ready for mass-production

2026~ KIPO Commendation / ISO 9001 / Social Venture

2026.03 Purchase-linked supply contract signed with NISSIN Medical, Japan

2026.03 Factory registration / Root Industry certification / ESG A+ rating

2025.11 Minister's Award, Ministry of SMEs and Startups

2025.10 Selected for KODIT "Little Penguin" program

2025.07 Joint production & sales discussions with SG Safety for logistics

2025.05 Selected as a Hyundai Chung Mong-Koo Foundation Impact Startup

2025.04 Exclusive sales rights contract with Studio N, Japan

2025.04 CSR partnership with Sangji Hi-Tech

2025.01 CES Innovation Awards in 2 categories (mobile robot · wheelchair)

2024.12 Selected as an Anyang City outstanding company

2024.11 Selected for TIPS (Ministry of SMEs and Startups)

2023.09 KOICA Development Venture Award

2023.09 Venture company certification

2023.02 Corporate R&D center established

## Awards



## Certifications



## 13 members across design, AI, production, and global sales

8 R&D specialists incl. 2 Ph.D — one team from development to market



**Jonghyun Keun**

**CEO**

- 24 yrs in design, control & logistics equipment
- 10+ logistics equipment patents
- '26 KIPO Commissioner's Commendation
- SME Minister's Award
- Ex-Ceaszone R&D — logistics equipment
- Ex-Pyeongtaek Univ. — logistics R&D

**BoA**



Global Business Advisor



**Yeung  
Kim**

- ✓ North America market & fundraising
- ✓ US entity setup support
- ✓ Former CEO of KMW

**CTO**



AI & robotics expert

**Dr. Hwaryong  
Kim**

- ✓ AI & robotics systems expert
- ✓ Autonomous driving systems expert
- ✓ Physical AI Wheel core tech

**CMO / Co-Founder**



Sales & marketing lead

**Jay Ahn**

- ✓ Brand strategy & B2B sales
- ✓ Japan & global market entry
- ✓ Global consulting project experience

**Head of R&D**



SW & control design

**Dr. Byungmoon  
Sung**

- ✓ Intelligent wheel control dev
- ✓ Sensor fusion & control SW design
- ✓ HW · AI · control integration

Change the Wheels,  
**NEW era of mobility begins.**



Beyond obstacles with a wheel swap—  
Expanding across all mobility

**Miracle Wheel**



# Appendix

<Wide Range of application>



Home Cart



Hand Cart



Industrial Cart



Platform  
Cart



Dolly  
Cart



Pet Stroller



Stroller



wheelchair



Rollator



Rollator

<Wide Range of application>



Off\_Road Vehicle



Dobby Stair-Climbing  
Hand Truck



Travellers  
Carrier



Service Robot



Quick Board



Robot Vacuum  
Cleaner



E-Wheel chair



E-scooter

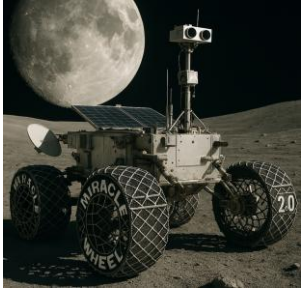


Delivery  
Robot



Autonomous  
Lawn-Mowing  
Robot

<Wide Range of application>



Space Probe



Food Waste  
Trolley



Ambulance  
Patient Transport  
Stretcher



Rolltainer



Porklift



AGV / AMR

