SMART & SIGNIFICANT SUBSYSTEM SUPPLY CHAIN ALLIANCE
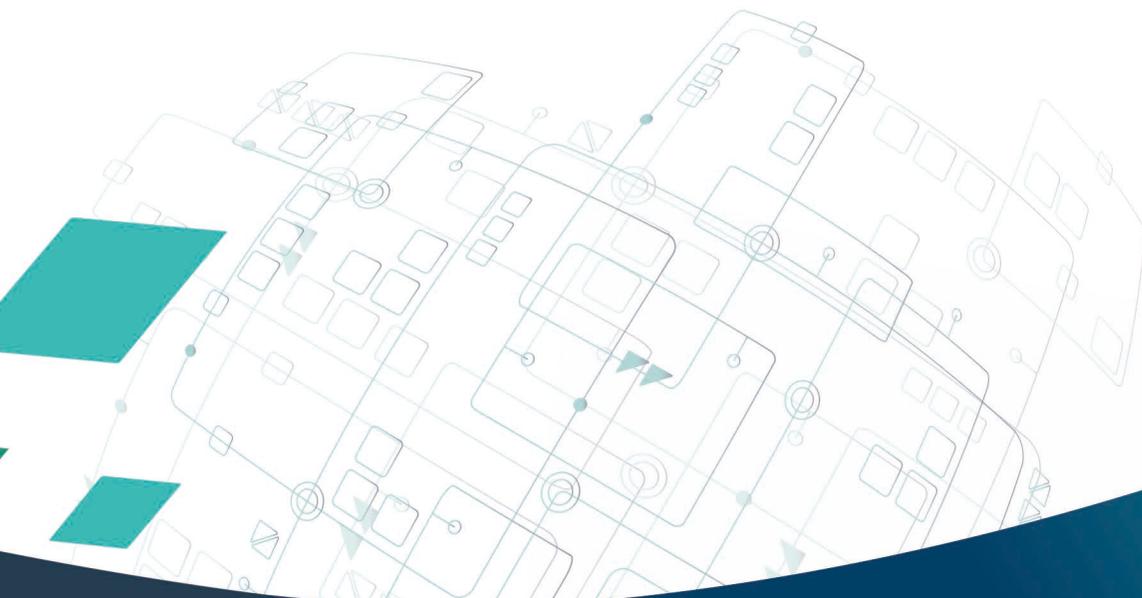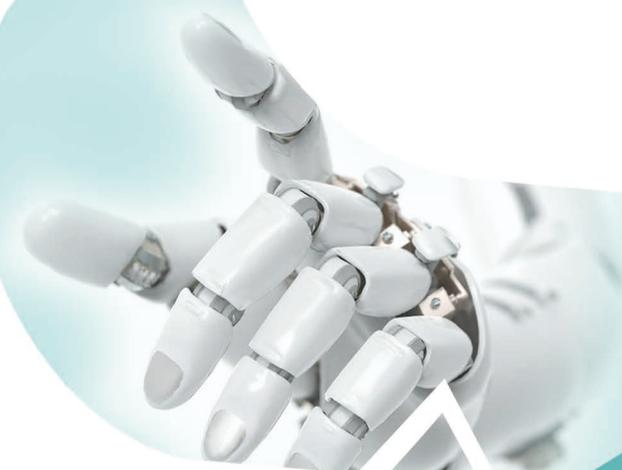
CONTACT US

2F., No.133 Sec.4 Minsheng E. Rd., Taipei City 105, Taiwan, R.O.C

+886-2-6607-2547

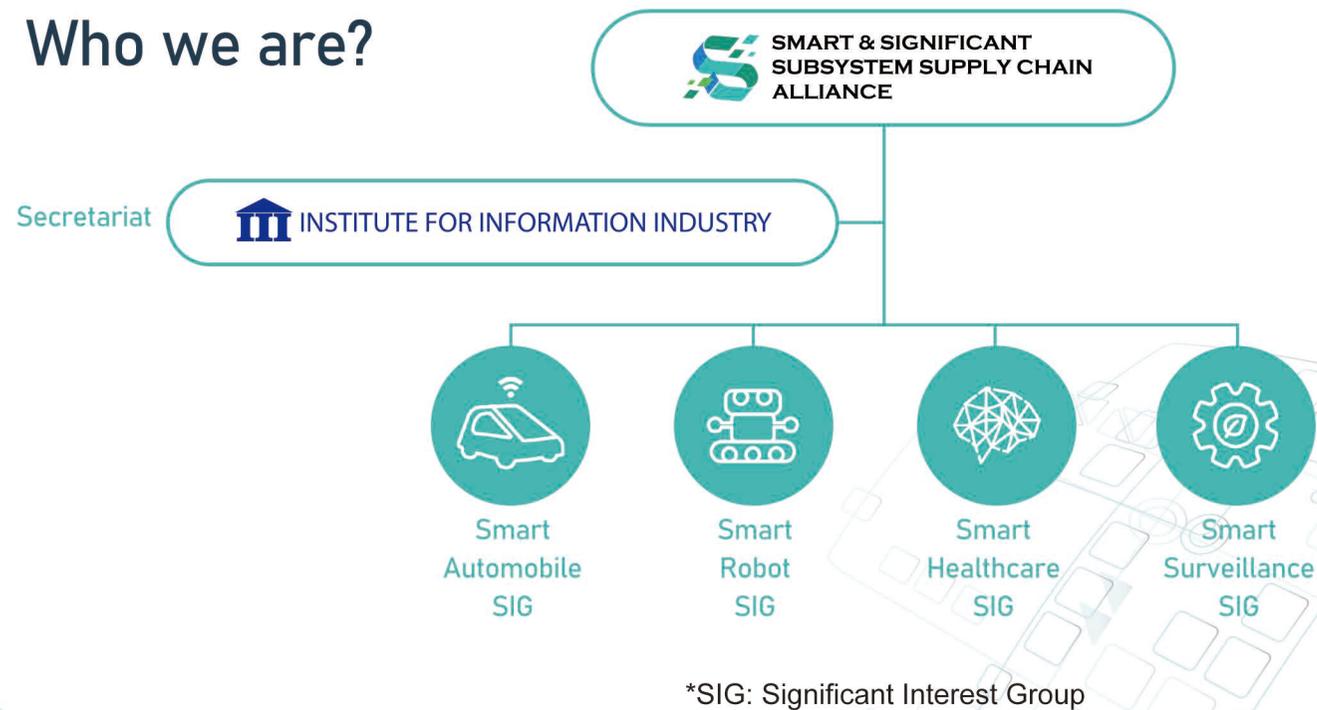service@4sasources.com

4SA
4sasources.com

**Unlock the Future with 4SA:
Leading the way in module and
subsystem innovation
for a smarter tomorrow.**

SMART & SIGNIFICANT SUBSYSTEM SUPPLY CHAIN ALLIANCE

INDEX

What' s 4SA?

4SA, the Smart & Significant Subsystem Supply Chain Alliance, connects Taiwan's manufacturers, system integrators, and industry associations across Smart Automobile, Smart Healthcare, Smart Robot, and Smart Surveillance, offering a premier one-stop platform while fostering collaboration between Taiwan's supply chain and global partners.

Who we are?

SMART & SIGNIFICANT SUBSYSTEM SUPPLY CHAIN ALLIANCE

Secretariat — **INSTITUTE FOR INFORMATION INDUSTRY**

- Smart Automobile SIG
- Smart Robot SIG
- Smart Healthcare SIG
- Smart Surveillance SIG

*SIG: Significant Interest Group

What we provide?

Consulting
- Industrial trends and market demands research
- Strategies and approaches for entering the global market

Common Technical Standardization
- Software and hardware module standards for subsystem
- Module interoperability testing and certification

Marketing
- Online international matchmaking platform
- International exhibitions
- Media promotion & marketing campaign

Resource Integration
- Government & industry resources collaboration
- Industry development & consulting with compliance

Proof-of-Concept Implementation
- Subsystem innovation and application lab
- Large-scale event exhibitions

Networking and Collaboration
- Joint visits to International organizations and businesses
- Domestic and international networking and matchmaking
- Industry exchange and sharing

MobileDrive

Company Overview

Established in 2019, a leading global automaker and supplier. Focus on AI-in-vehicle solutions.

Company Mission

In the software define vehicles era, MobileDrive will combine AI technologies and apply service-oriented architecture to meet customer needs.

Services Offerings

- Automotive Intelligent Cockpit and Internet of Vehicles (IoV) solution
- L2+ ADAS

Milestones Achieved

- ISO26262 process certification
- Passes ADAS L2 GSR regulations for commercial vehicles

Contact Window

Black Yang
📞 / +886-922-889-739
✉ / BlackccYang@mobiledrivetech.com

System Application Field

- Smart Cockpit
- ADAS
- Vehicle Intelligence

Strategy Partnership

STELLANTIS LUXGEN CUBTEK

FOXCONN FIH QUALCOMM 輝創電子 WHETRON

ADAS AES (Automatic Emergency Steering)

- Connect Taiwan's supply chain
- Integrate longitudinal vehicle dynamic control, trajectory planning and lateral control

Subsystem Partners

MobileDrive

Hon Hai Technology Group and Stellantis each invest 50%.Focus on AI in-vehicle software, hardware and systems with global automotive brands.

Digital Crop.

A subsidiary of Hon Hai, focusing on L2+AES sensing technology
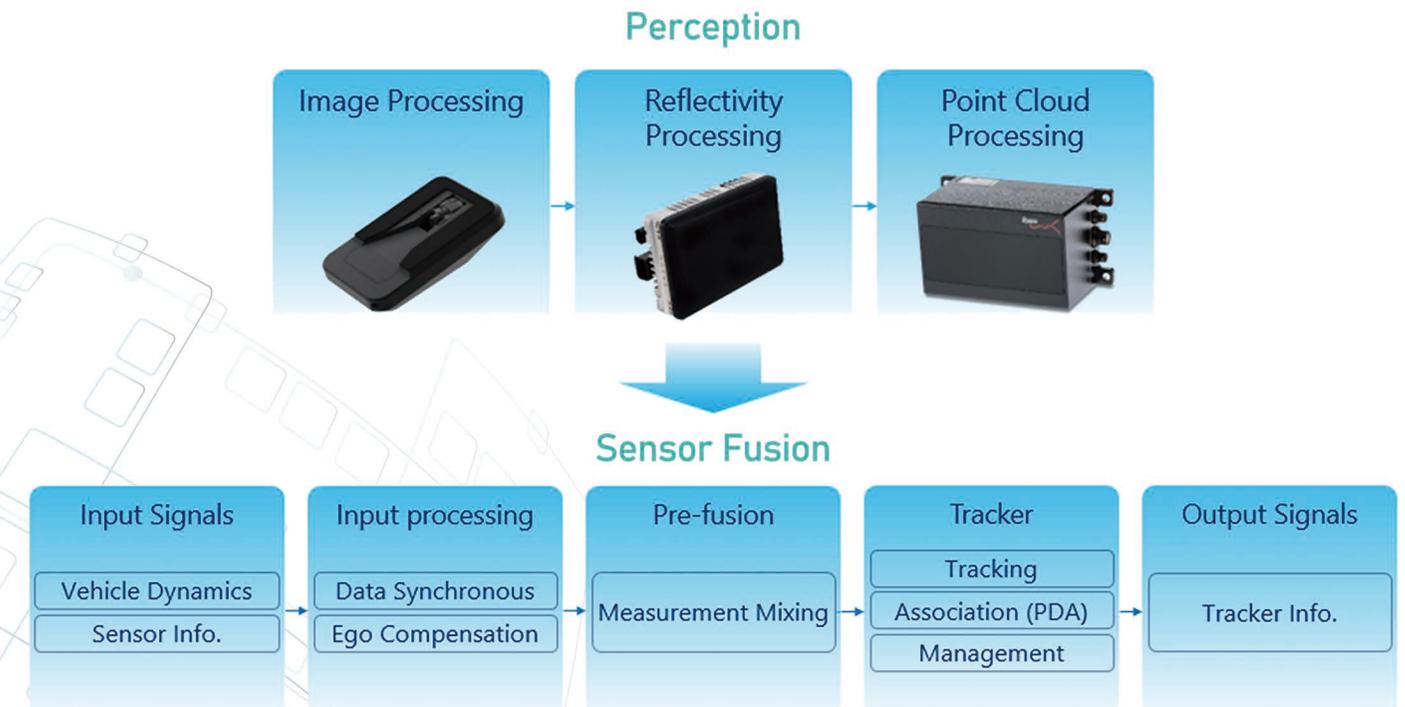
Highlights

Market Approach:

- Creates a L2+ ADAS system (Automatic Emergency Steering) for European market

Advanced Technology:

- Asia first self-developed automatic emergency steering system

Subsystem Workflow for Device Integration

Perception

Image Processing	Reflectivity Processing	Point Cloud Processing

Sensor Fusion

Input Signals	Input processing	Pre-fusion	Tracker	Output Signals
Vehicle Dynamics	Data Synchronous	Measurement Mixing	Tracking	Tracker Info.
Sensor Info.	Ego Compensation		Association (PDA)	
			Management	

TURING DRIVE

Company Overview
Established in 2017, focusing on autonomous driving solution.

Company Mission
Value the collaboration between humans and machines, and reduce danger, and repetitiveness in the autonomous driving technology.

Services Offerings
- One-stop solution for autonomous driving

Milestones Achieved
- Won the smart urban and rural subsidy
- Autonomous driving solutions have been implemented in six countries

Contact Window
Richard Chung
📞 / +886-975-730-768
✉ / richard@turing-drive.com

System Application Field
- Resort
- Amusement Park
- Golf Course

Strategy Partnership

ALTAIR ADLINK ADVANTECH 研華科技 carota

EverFocus Electronics Corp. FLOW AI DATA SERVICE LOCOSYS Movella

NVIDIA

Low Speed Vehicle Development Kit

- Drive Taiwan's electric vehicle industry chain
- Expands into Taiwanese and international markets.

Subsystem Partners

Turing Drive

Provide autonomous driving system solutions including sensor fusion, and self-driving system integration test and verification.

YEC Crop.

Provide drive-by-wire control solutions including design and development of wire-by-wire control kit. and vehicle control test and adjustment

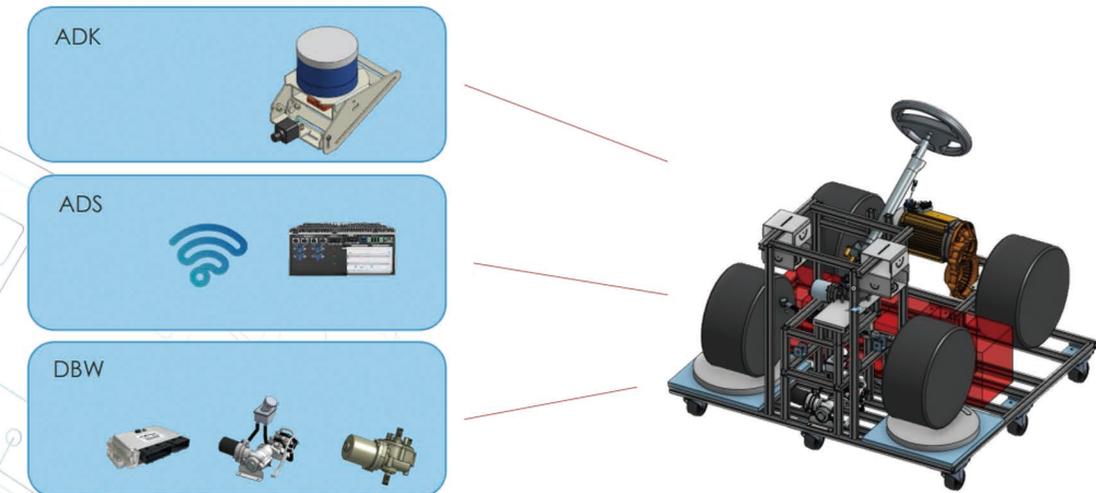## Highlights

Subsystem Development and Integration:

- Combine perception and localization modules and drive-by-wire module module

Market Impact and Growth:

- Expands into Taiwanese , Japanese and USA markets

Subsystem Workflow for Device Integration

Vehicle Simulation platform

ADK

ADS

DBW

JET OPTO

Company Overview

Established in 2010, focusing on the in-car display, rear-seat entertainment system, dash cam and car accessories.

Company Mission

Continually strengthen ability in technology, hiring talents in research and development.

Services Offerings

Owns two brands, Vigorplus provides products to aftermarket, and JET OPTO focus on the pre-installation market.

Milestones Achieved

- Top 500 enterprises 2024
- The 6th Backbone Enterprise Award

Contact Window

Glen Tsai

/ +886-2-5582-1818 ext.6900

/ glen.tsai@jet-opto.com.tw

Products Series

- Entertainment system
- CV2X
- Dash Cam

Strategy Partnership

VOLVO

MITSUBISHI MOTORS

Audi

AUTOMOBILI LAMBORGHINI

Panasonic

iCatch 芯鼎科技

oToBrite
driving easier and safer

Smart Automobile

Company Overview
Established in 2013, focusing on the vision-AI, ADAS and autonomous driving solution provider.

Company Mission
Develop vision AI technology to empower partners to deploy autonomous driving (AD)

Services Offerings
Full-stack vision-AI technology and product from in-house design to mass production as Development & Manufacturing partner for OEM

Milestones Achieved
- ISO 26262 process certification
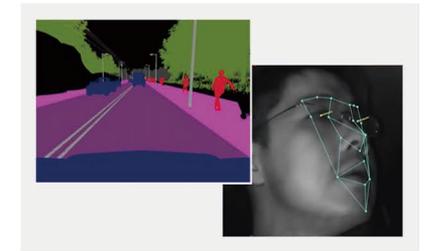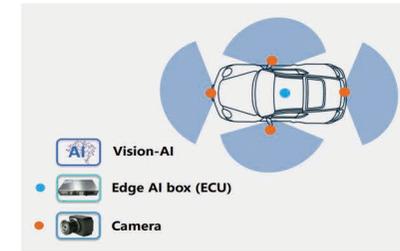- CES Innovation Award

Contact Window
Ian Tzeng
📞 / +886-3-666-7968
✉ / iantzeng@otobrite.com

System Application Field

- ADAS/AD System
- Camera
- Vision-AI software

- Vision-AI
- Edge AI box (ECU)
- Camera

Strategy Partnership

TEXAS INSTRUMENTS   Kneron   SONY   ST life.augmented

14   15

clientron

Company Overview

Established in 1983, a leading global provider of intelligent platform solutions.

Company Mission

Provide innovative and user-friendly POS solutions to enhance customers' experience and diversified service applications.

Services Offerings

- Integrate and apply Taiwanese chips in smart cockpit-related solutions

Milestones Achieved

- Electric vehicle smart cockpit was recognized by the 32nd Taiwan Excellence Award
- Award ISO 26262 certification in 2023

Contact Window

Richard Chen
📞 / +886-952-459-221
✉ / Richard_Chen@clientron.com

Products Series

- Smart Cockpit
- Entertainment System

Strategy Partnership

MEDIATEK

SUNPLUS

PXI

iTE 聯陽半導體
ITE Tech. Inc.

carota

Company Overview

Established in 2017, focusing on the OTA(Over-The-Air) technology, remote diagnosis.

Company Mission

The guardian of Internet of Vehicles upgrades and security.

Services Offerings

- OTA testing service including updates for multiple ECUs, software subscriptions, remote diagnostics
- Coupled with remote diagnosis

Milestones Achieved

- Acquired TUV IEC60335 in 2023
- Passed ASPICE 2 international certification in 2023

Contact Window

Thomas Mohr
📞 / 49-151-68453926
✉ / thomas.mohr@carota.ai

Products Series

- OTA
- Intelligent Diagnosis
- VSOC Security

Strategy Partnership

NXP   **QUALCOMM**   **TOYOTA**   **MEDIATEK**

FARobot®

Company Overview

FARobot is a joint venture founded by FOXCONN and ADLINK, based in Taipei and focused on DDS-empowered robotic technology.

Company Mission

To revolutionize factory intralogistics through SWARM AUTONOMY® by enabling seamless collaboration among diverse hybrid fleets, achieving optimal efficiency and flexibility and delivering exceptional value to customers.

Services Offerings

- The SWARM CORE® seamlessly integrates with IT /OT systems, optimizing task allocation and routing through real-time data analysis
- The SMR® Series robots feature adaptive safety zones, cleanroom compatibility, and a compact, flexible design for various top modules

Milestones Achieved

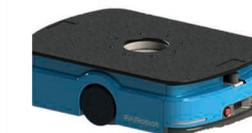- TOP 10 robotic company in APAC 2024 (Logistic Tech Outlook)

Contact Window

Bill Wang

☎ / +886-2-8227-3119 #884

✉ / billch.wang@farobottech.com

Products Series

- SMR® 250
- SMR® 600
- SMR® 1000
- Swarm Core®

Strategy Partnership

FOXCONN 鴻海科技集團

AUO

TM TECHMAN ROBOT INC.

ADLINK LEADING EDGE COMPUTING

Taiwan Mobile

WIN SONIC

LITEON®

Among Top2 PSU manufacturer worldwide. LITEON is known for its high-performance and energy-efficient PSU designs.

Company Overview

Founded in 1975. Leading global provider of optoelectronic components, power management solutions, and other electronic products.

Company Mission

- Enhance life quality through innovative technology and sustainable practices.
- Promote a greener and more connected world.

Services Offerings

- Full digital, high wattage industrial power solutions.
- Advanced power solution for IIoT based smart robot.

Milestones Achieved

- Global leader in photocouplers and power supplies.
- Included in the Dow Jones Sustainability Indices for thirteen consecutive years.
- Committed to 100% renewable electricity by 2040.

Contact Window

Eason Hsieh

📞 / +886-2-2222-6181ext 5454

✉ / Eason.Hsieh@liteon.com

Products Series

- Charging Station
- Manual Charger

Product Advantages

- Full Digital Control with DSPs
- CAN Bus
- Ethernet
- OTA FW Upgrade
- Worldwide Safety Approved
- Full Protections OCP/OVP/SCP/OPP/OTP/UVP
- Remote Sense
- Internal Smart Fan Cooling

High-Power Automatic Charging Station for Mobile Robots

■ Modular power design can significantly reduce the development time for customers' new products.

■ Over 50% of the raw materials, modules, and manufacturing come from the Taiwan's supply chain.

Subsystem Partners

LITEON Technology

A pioneer in Taiwan's LED industry, the company is globally established with advanced optoelectronic semiconductor and power management capabilities.
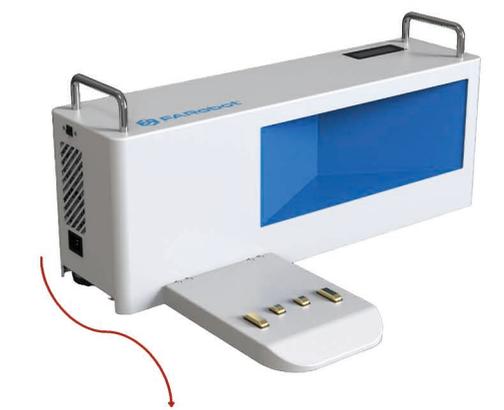
FARobot

FARobot is a joint venture established by Foxconn and ADLINK Technology, headquartered in Taipei, focusing on DDS-driven robotic technology.

Highlights

Industrial-grade CAN Bus interface and modular power design enable rapid integration into various AMR applications.
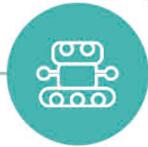
Subsystem Features

1. High-power automatic charging station.
2. Fully automated charging, with charging time expected to be reduced by 40%.

Built-in compact high-power charging power module.

URSROBOT

URSROBOT AI Inc. is a leading company specializing in service robotic solutions, dedicated to bringing outdoor service robots into various aspects of daily life.

Company Overview
Established in 2019, focusing outdoor service robot solution.
Product series: NEXMOW robotic lawnmower, outdoor AMR platform

Company Mission
Make service robot easy to use in daily life.

Services Offerings
- NEXMOW is owned brand for robotic lawnmower

Milestones Achieved
- Taiwan's top 100 startup by 2024
- Lawn & Landscape Editors Selection of robotic lawnmower by 2023

Contact Window
Global sales:
📞 / +886-2-2795-4689
✉ / sales@ursrobot.ai
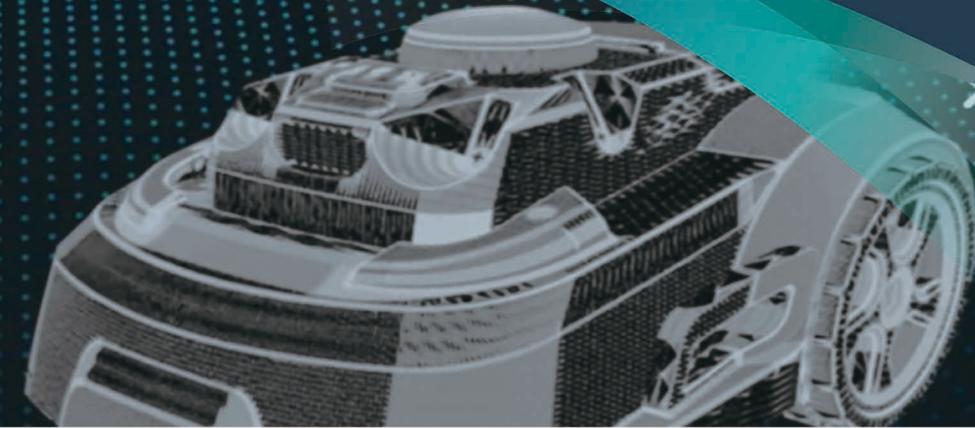
Products Series
- Robotic Lawnmower
- AMR Platform

Strategy Partnership

Outdoor Autonomous Mobile Robot Subsystem

- Over 90% of the raw materials, modules, and manufacturing come from the Taiwan's supply chain.
- Integrate hardware controllers and outdoor navigation positioning.

Subsystem Partners

URSROBOT

URSROBOT,founded in 2019, specializes in the design and development of service robots and AI solutions. The company offers outdoor AMR products, including the NEXMOW robotic lawnmower for commercial market.
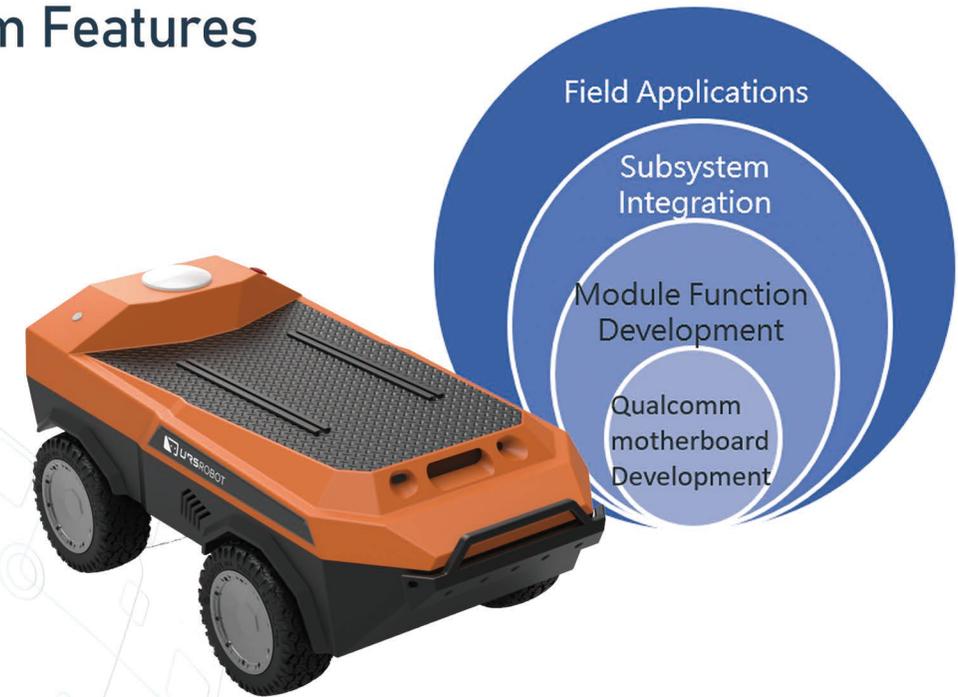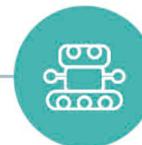
Altek Corporation

Altek Corporation focuses on optical imaging technology, providing AI imaging product solutions and related motherboard development.

Highlights

Subsystem integration: Outdoor positioning and navigation, motion control, fleet collaboration, AI imaging module and cloud control management platform.

Subsystem Features

Field Applications

Subsystem Integration

Module Function Development

Qualcomm motherboard Development

iWAVE

iWavenology - Wireless Positioning Technology Leader

Company Overview

iWavenology, an expert in the fields of wireless communication and signal processing, is at the forefront of adopting AI-powered technology, combining efficient hardware architecture and signal processors.

Company Mission

Specialized in UWB and IoT, offering a range of services from detecting drones to high-precision indoor locating systems.

Services Offerings

Utilizing UWB technology and AI edge computing to design high-precision, real-time positioning systems, to address issues of accuracy, power consumption.

Milestones Achieved

- 2018 and 2019 Future Tech Awards
- Products used by European, American, and Asian companies

Contact Window

Yichen Chen
📞 / +886-2-2391-7973
✉ / yichenchen.tw@iwavenology.com

Products Series

- iPosition
  High-Precision Positioning System

- iAutojam
  Drone Jammer

- iShield
  Anti-Drone System

Strategy Partnership

高雄國際航空站
Kaohsiung International Airport

ASUS

國家中山科學研究院
National Chung-Shan Institute of Science & Technology

仁寶電腦
COMPAL

Focus on the AMR (autonomous mobile robot) and service robot solution.

Company Overview
Established in 2003, focusing on the robotics development and healthcare solution.

Company Mission
To create a better service robot platform and ecosystem for mainkind.

Services Offerings
Multiple types of AMRs and numerous of service robots for different sectors.

Milestones Achieved
- Top1 Taiwanese service robot brand provider

Contact Window
Benjamin
/ +886-4-2293-9588
/ Benjamin@mobisnet.com.tw

Products Series

Strategy Partnership

aws | wistron | AVer | Microsoft

MiTAC

MSI

Company Overview

MSI is a global leader in technology, specializing in providing innovative automation solutions, including the AMR product line, for improving efficiency and reducing costs.

Company Mission

MSI deliver efficient, flexible solutions and aim to lead in smart manufacturing and logistics automation through customizable AMR products that meet diverse needs.

Services Offerings

- AMR-AI-Cobot Pro
- AMR-AI-Delivery Robot Pro
- Amr-Ai-Lift Robot

Milestones Achieved

MSI's AI navigation and AMR products enhance efficiency and adaptability across manufacturing, logistics, healthcare, and retail industries.

Contact Window

- / +886-2-3234-5599
- / amr@msi.com
- / https://amr.msi.com/

Products Series

- AMR-AI-Cobot Pro
- AMR-AI-Delivery Robot Pro
- AMR-AI-Lift Robot

Strategy Partnership

Humetrics

Company Overview

Humetrics specializes in healthcare IoT devices and AI-driven bio-signal processing, offering the iCue Smart Mat for real-time monitoring of vital signs and behavior.

Company Mission

We aims to transform healthcare through AI-driven, touch-free devices that deliver instant tracking of vital signs and patient activity.

Services Offerings

Humetrics' iCue Smart Mat offers continuous, non-contact monitoring of vital signs, real-time alerts, sleep reports, and remote healthcare services with AI data analysis and registered nurse support.

Milestones Achieved

- Taiwan Excellence Award for Long-term Care Rental Aids, 2024
- The home medical equipment officially covered by Taiwan's National Health Insurance (NHI)

Contact Window

Carol Wu

📞 / +886-2-6605-0660

✉ / CarolWu@humetrics.ai

Subsystem Application Field

- Long-term Care Center
- Home Medical
- Inpatient monitoring

Strategy Partnership

We have strategic partnerships with major long-term care centers and teaching hospitals across Taiwan.

都蘭診所
Home Clinic Dulan

社團法人
台灣在宅醫療學會
Taiwan Society of Home Health Care

高雄市立旗津醫院
附設住宿長照機構
（委託財團法人私立高雄醫學大學經營管理）

Kaohsiung Municipal Cijin Hospital Affiliated Residential Long-Term Care Facility (Managed and operated by Kaohsiung Medical University)

Integrated Continuous Physiological Monitoring and Medical Assistance System for Telemedicine

- Enhances Physiological Data Monitoring and Cloud Efficiency
- Expands into Taiwanese and international markets

Subsystem Partners

Humetrics

Humetrics offers AI-powered healthcare IoT devices, including the iCue Smart Mat for real-time vital sign monitoring.

TaiDoc Technology Crop.

Founded in 1998, TaiDoc specializes in medical devices, providing comprehensive design, development, and manufacturing services with over 100 patents.

Highlights

Subsystem Development and Integration:

- Creates a protocol for integrating the iCue Smart Mattress with physiological monitoring equipment.
- Improves data measurement and cloud efficiency.

Market Impact and Growth:

- Targets over NT$2,000,000 in sales.
- Expands into Taiwanese and Japanese markets.

Subsystem Workflow for Device Integration

Respiratory rate

body movement

FORA 福爾

iCue Pro
(BT Gateway)

Connecting a Variety of Physiological Monitoring Devices

Biomedica
Simple & Precise

Company Overview

Biomedica focuses on women's health with AI-driven medical solutions, offering screening tools for diseases like osteoporosis and cervical cancer, plus data management systems for healthcare professionals.

Company Mission

We aims to improve women's health by offering innovative medical technologies, including AI tools for disease detection and advanced patient monitoring solutions.

Services Offerings

Leveraging AI technology, the osteoporosis screening tool provides fast, accurate bone density analysis, ideal for hospitals and large-scale screenings, enhancing early detection and bone health management.

Milestones Achieved

- ISO 13485:2016 Certified Medical Devices Manufacturer
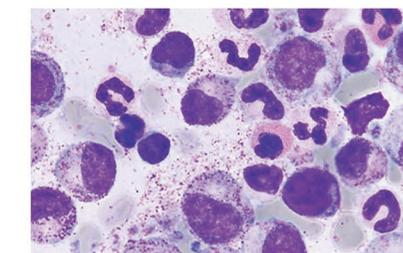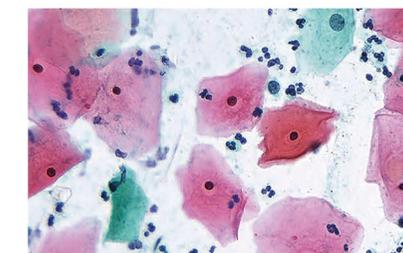- Software as a Medical Device (SaMD) Successfully Approved by TFDA-QMS

Contact Window

Alvin Chang
📞 / +886-2-8911-2168 #201
✉ / AlvinChang@biomedica.ai

Diseases We Focus On

- Osteoporosis
- Cervical Cancer
- Leukemia

Strategy Partnership

We have strategic partnerships with industry partners and teaching hospitals across Taiwan.

- Industry Partners

- Hospital Partners

Smart X-ray Medical Imaging Sensor and AI Analysis Workstation Subsystem

- AI-Enhanced X-ray Imaging and Data Processing
- Global Expansion and Increased X-ray Machine Value

Subsystem Partners

Biomedica

Biomedica focuses on women's health, providing AI-driven screening tools for diseases like osteoporosis and cervical cancer, plus healthcare data solutions.

Marketech International Corp.(MIC)

Founded in 1988, Marketech International Corp. (MIC) specializes in four areas: sales representation, system integration, facility turnkey projects, and advanced manufacturing, providing comprehensive technology solutions to meet diverse industry needs.

Highlights

Subsystem Integration:

The project develops a Smart X-ray Imaging Sensor and AI Workstation, enhancing X-ray functionality, imaging, and data processing efficiency.
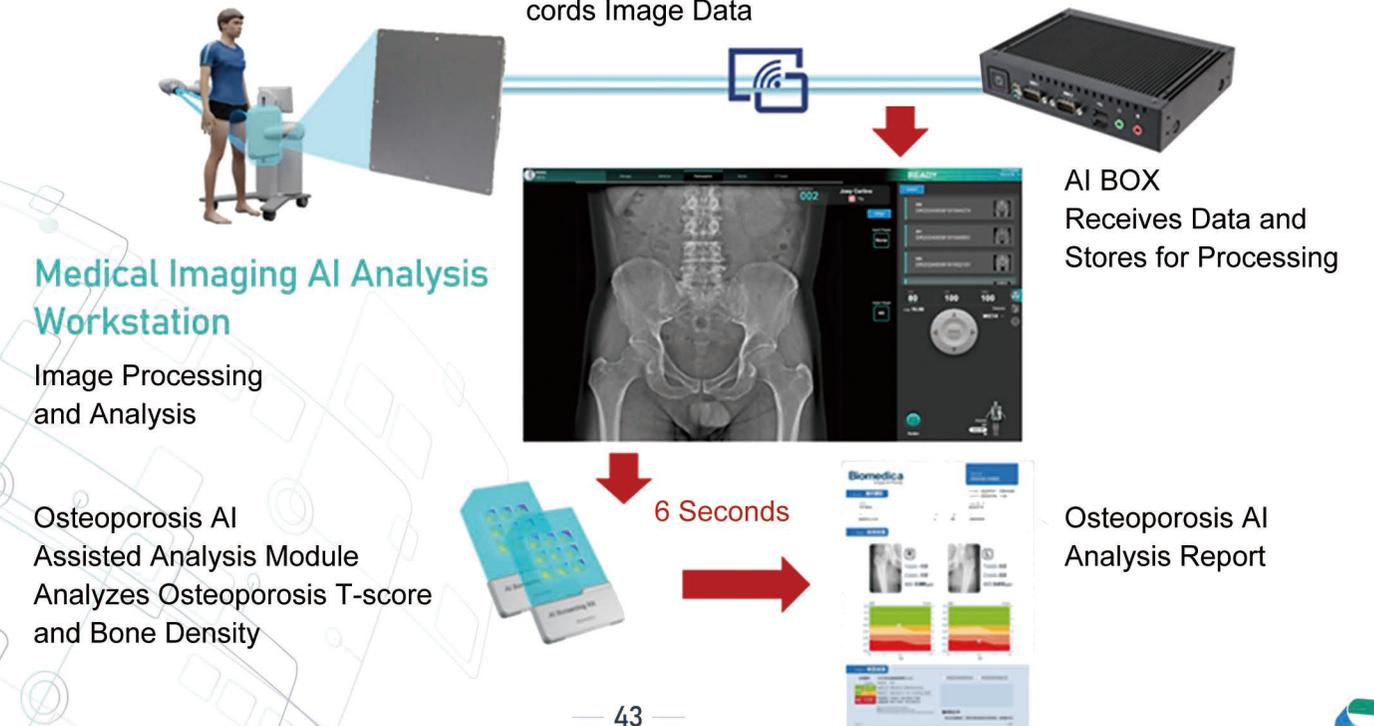
Market Potential:

Projected sales exceed NT$660,000, targeting international medical institutions to enhance X-ray machine value and expand market reach.

Subsystem Workflow for Device Integration

Patient Imaging X-ray Images

X-ray Medical Imaging Sensor Re-Analog to Digital Conversion cords Image Data

AI BOX
Receives Data and Stores for Processing

Medical Imaging AI Analysis Workstation

Image Processing and Analysis

Osteoporosis AI Assisted Analysis Module Analyzes Osteoporosis T-score and Bone Density

6 Seconds

Osteoporosis AI Analysis Report

HI SHARP
ELECTRONICS CO., LTD.

Company Overview

Founded in 1975, specializing in intelligent surveillance systems and in-vehicle imaging system.

Company Mission

Security intelligence is core mission. HI SHARP invents new division combined AI, IOT, edge computing to fulfill target.

Services Offerings

- NDAA IPC
- Analog products
- Network products

Milestones Achieved

- 14 years of receiving the Top Security 50 Award.
- Obtained IATF 16949 automotive quality management system certification.

Contact Window

Peter Lin
📞 / 886-3-365-3121#543
✉ / peter@caravison.com.tw

Products Series

- NDAA IPC
  HS-D127KR-D

- Analog products
  HS-4IN1-D031DL

- Networking Products
  HS-T058TD-E

Strategy Partnership

荷米科技有限公司
Hermis Technology Co.,Ltd.

KIM

TOGET
拓達興業
Line ID:togetservice

caravision
— Moving Intelligence —

Road Surface Defect Detection by Garbage Trucks

- AI-Enhanced monitoring system
- Open architecture allows more flexibility in future design

Subsystem Partners

HI SHARP
With over 30 years of experience in surveillance field, and produces a wide range of high-quality, high-specification, and customized surveillance imaging products.

Hermis Technology
Established in 2022, focusing on government's security project.
Service offerings including monitoring and security system planning and integration, access control system planning and integration and environmental control system planning and integration.
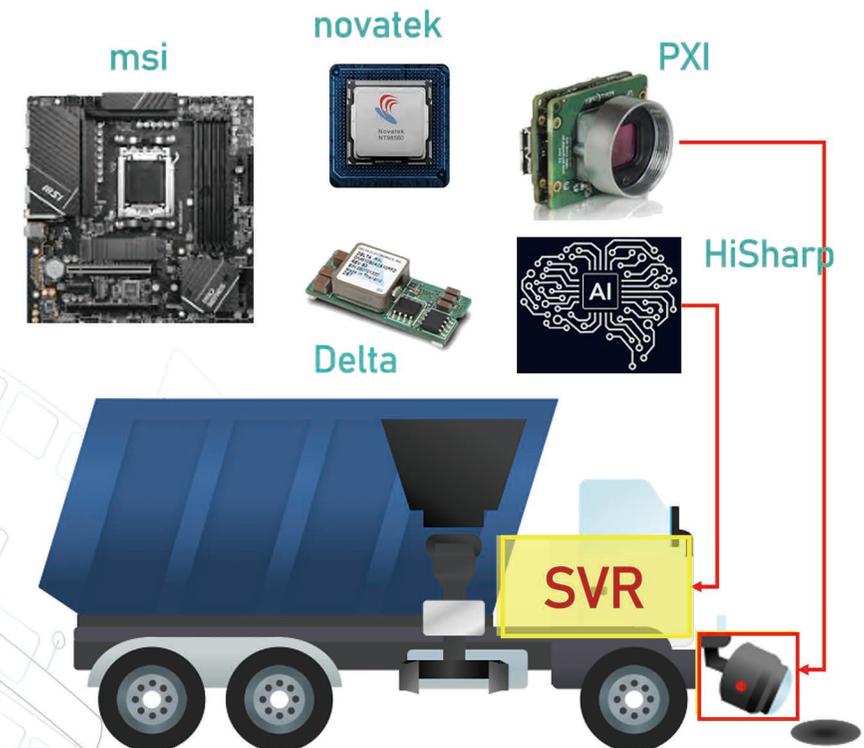
Highlights

Subsystem Integration:
The project based on Taiwan's chip, AI image recognition edge computing module and network communication module.

Market Potential:
Projected sales exceed NT$12,000,000 targeting Australian garbage truck operators.

Subsystem Workflow for Device Integration

msi
novatek
PXI
Delta
HiSharp
SVR

AIMobile
Industrial Mobile Systems

Company Overview

AIMOBILE was co-founded by two industry-leading companies Inventec corporation and Advantech with the same vision of enabling next generation with smart technologies.

Company Mission

AIMOBILE aims to bring smart handled and edge computing solutions to industrial customers with state-of-the-art hardware and software integrated.

Services Offerings

- Edge AI
- Industrial Tablet
- ePaper Device

Milestones Achieved

- AIMOBILE leverages NVDIA to create Edge AI safety and security systems in transportation and manufacture

Contact Window

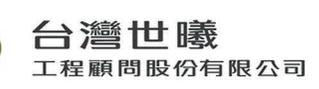Shown Chen

📞 / +886-9861-5742

✉ / chen.shown@airmobile.com.tw

System Solution Field

- Edge AI
- Industrial Tablet
- E-Paper Device

Strategy Partnership

Microsoft

NVIDIA

Canon®

Metlen Energy & Metals

CECI

台灣世曦
工程顧問股份有限公司

Smart Analysis for Optimizing EMS High–Tech Factory Production Processes

■ Targets to introduce Siix 11 High Tech Factory
■ Global Expansion and Increased EMS System Value

Subsystem Partners

AIMobile
AIMobile focuses on edge computing solution to industry automation and transportation field.

Siix Corp.
Founded in 1957, specializes in provides EMS (Electronics Manufacturing Services) combined with parts procurement and logistics.
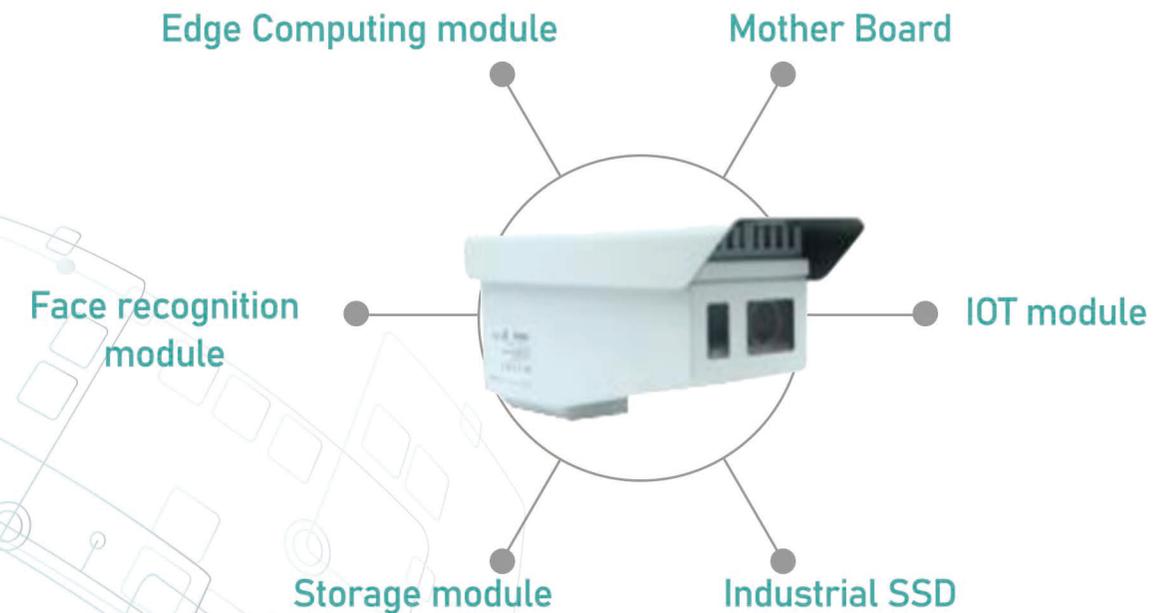
Highlights

Subsystem Integration:
The project uses Edge and AI module value-added system, this can also be applied to factory and cloud equipment.

Integrate Taiwan's Supply Chain:
Led by Inventec, this project integrates advantageous ICT and IOT manufacturers' modules.

Subsystem Workflow for Device Integration

Edge Computing module

Mother Board

Face recognition module

IOT module

Storage module

Industrial SSD

JOIN US

Become a 4SA Member

Benefits of Joining 4SA

- Leverage Taiwan's semiconductor strengths for enhanced industry matchmaking opportunities.

- Access the most comprehensive "Smart Automobile" ecosystem in Taiwan.

- Benefit from complete "Smart Automobile" supply chain solutions in Taiwan.

Stay informed with the latest updates on Taiwan's supply chain.

Quickly access the latest trends from key Taiwanese supply chain companies.

Access to the most trusted one-stop matchmaking platform.

Major countries actively promote industrial policies in emerging fields (the four key fields promoted by 4SA).