


2026 通訊大賽 Mobileheroes

—
Open Call for Proposal

 經濟部
產業發展署

Industrial Development Administration, MOEA



Beyond the arena, it's your pioneering ground for cultivating future elites.



25+ year
Inheritance



10,000+
Elite talents

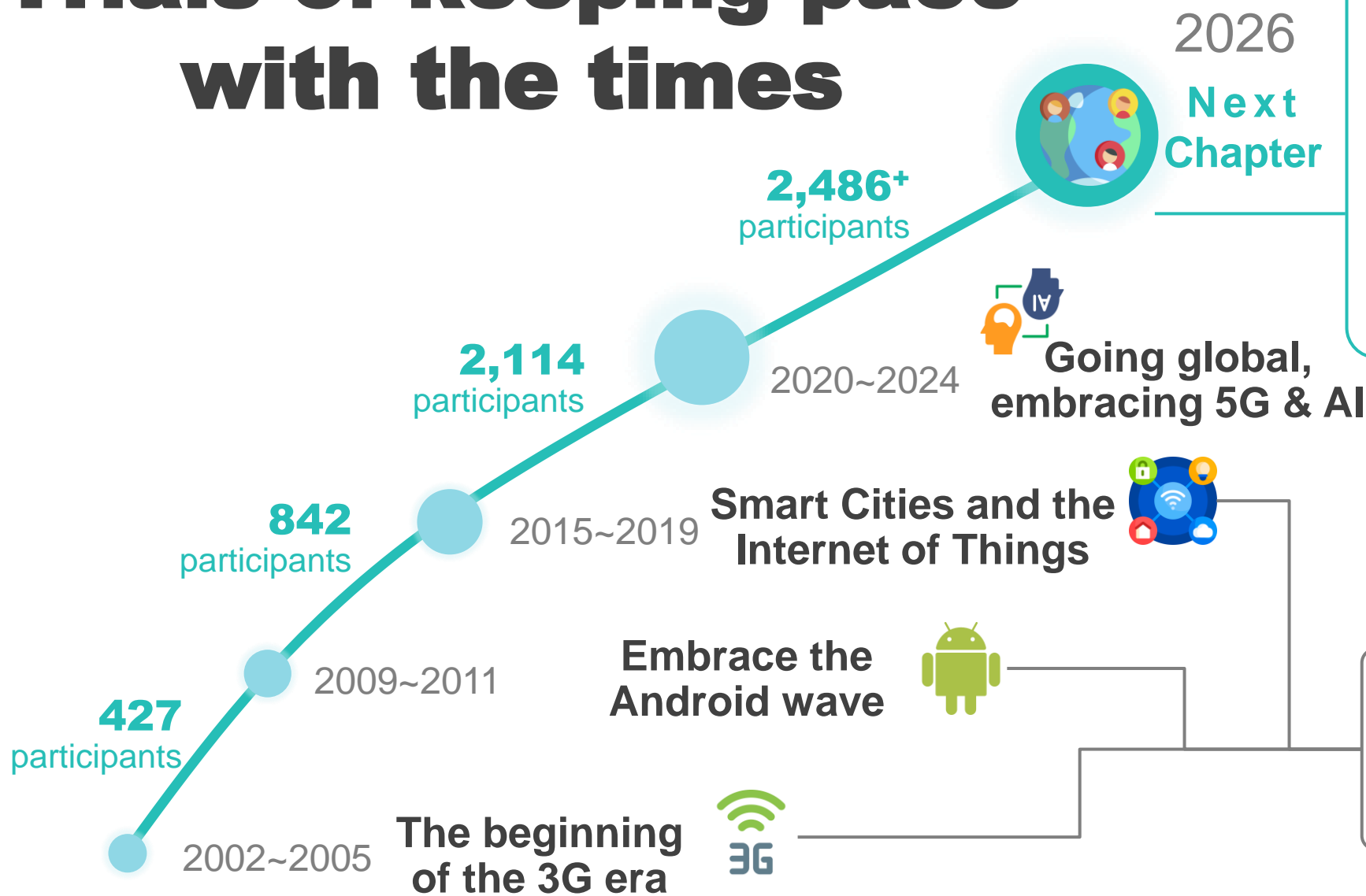


Communications Oscar
Reputation

Since
2002

We closely follow industry trends, providing a platform for creative practice and talent to shine, making it Taiwan's oldest and most prestigious ICT competition.

Trials of keeping pace with the times



Communication is no longer a medium

The focus is shifting towards assisting companies in exploring forward-looking research and PoC validation that they have not yet invested human or resource resources in

Consumer applications that use communication as a medium

Real Influence



Field validation collaboration driven by venue openness

Taoyuan Airport conducts testing and verification
Receives a special award from the airport company



Starting with real-world business challenges
Let world-class elites create customized solutions for you



Challenge (Taoyuan Airport Corporation)

The Taoyuan International Airport Company's power maintenance team is challenged by the loss of expertise following the retirement of senior staff.

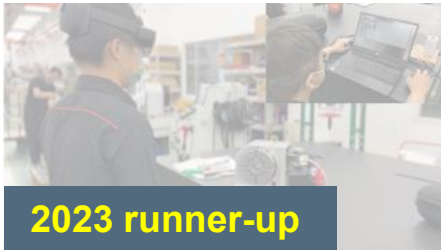


Solution (Yuqian Technology)

Develop a "Smart Remote Education and Training System" that addresses both personnel training needs and remote intelligent inspection requirements.



Industrial Development from Recent Winners (1/2)



Arxcelerate

Designing **AR/MR applications for machine fault SOP** procedures with QR code scanning.

Development Achievements

- Collaborating with Detron machine, Advantech, KAPP Precision, and YCM Machinery.



iSynReal

Designing **XR smart** remote training for **new employee education**, incident **handling**, and **SOP processes**.

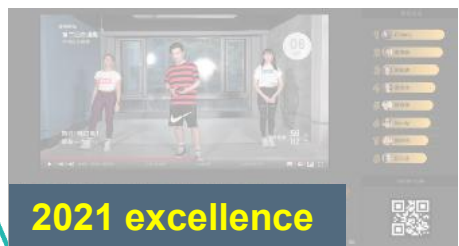
- Collaborating with TSMC and Taipower to promote MR application projects.



Compass Arrow

Using **5G to stream drone footage for 2D and 3D model reconstruction**, improving visualization and terrain estimation.

- Establishing a startup company
- Competing in Entrepreneurship and IMV ESG contests.



Hi-health technology co.

Developing **an AI health platform** with Hi-Health GPT for personalized health advice and product recommendations.

- Collaborating with telecommunications provider.
- The collaborative revenue for 2023 is approximately NT\$30 million.

Industrial Development from Recent Winners (2/2)



BANF iSensor

Designing tire inner liner sensors for real-time data collection and **AI-driven early warnings** to enhance driving safety and reduce operational costs.

Development Achievements

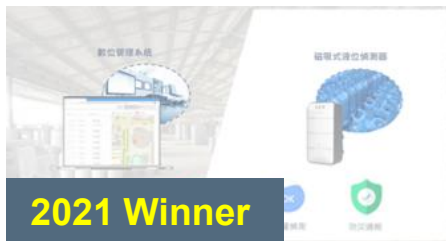
- Conducting multiple tests with cross-national corporate partners.



VM-Fi S.M.A.R.T. Platform

Developing language translation and multilingual recognition solutions using **5G and AI** to eliminate communication barriers.

- Implemented at Songshan Airport tourist service center and Yehliu visitor center.



Lingbo Co., Ltd.

Using IoT to monitor energy inventory levels for proactive delivery scheduling and **active delivery services**.

- Collaborating with Japanese gas meter manufacturers.



WISDON

Creating a quality-assured network controller based on O-RAN to prevent signal interference and increase transmission **throughput by over five times**.

- RIC control technology, co-developed with Compal, NYCU, and Viavi, achieved TIP energy-efficient base station bronze certification.

Expanding the Industry Ecosystem: Substantive Collaboration Between the Team and Industry Partners

Hwacom co. x Cyberworks Robotics

Reached a technical cooperation agreement to jointly promote the development of indoor autonomous wheelchair technology.

Hwacom co. x LatenceTech

Reached a technical cooperation agreement to leverage LatenceTech's expertise for efficient 5G network management and optimization, jointly advancing 5G network management system technology.

Chunghwa co. x CoCoTree Technology co.

Leveraging satellite imagery processing and the synergy between GIS and AI, the solution quantifies carbon sequestration to meet ESG demands, earning the trust and partnership of Chunghwa Telecom.





The 2026 Theme

AI-Driven : Pave the paths to 5G-advanced and 6G

The 2026 Theme

The competition focuses on **【 AI-Driven : 5G-Advanced / 6G · Non-Terrestrial Networks (NTN), and Edge Computing 】**

We seek key technologies and system solutions that are deployable, mass-producible, scalable, and capable of real-world implementation.

AI-Driven Network & Edge Infrastructure

Leverage AI to enhance network intelligence, automation, operational efficiency, and edge infrastructure capabilities

(AI-based energy-efficient algorithms, Explainable AI (XAI) monitoring and analytics tools, Edge AI optimization solutions enabling lower-power hardware operation, etc.)

5G-advanced / 6G Radio & Spectrum Innovation

Key technologies advancing radio design, spectrum efficiency, and next-generation wireless communication systems

Non-Terrestrial Networks & Hybrid Connectivity

Focused on integrating terrestrial networks, satellite communications, and hybrid architectures to enable comprehensive coverage and seamless connectivity

Network Testing & Validation

Innovative solutions that accelerate, simplify, or improve network, RF, and system testing, validation, and performance visualization

Vertical Application Based on 5G / 6G

Comprehensive Vertical Industry Solutions leveraging 5G/6G technology to drive digital transformation across diverse enterprise scenarios and industrial ecosystems.

Rules (1/2)

Theme

■ AI-Driven : Pave the paths to 5G-advanced and 6G

This competition is centered on the core theme of AI-Driven Network & Edge Infrastructure.

The following sub-themes are included and are **AI Preferred**:

- 5G-Advanced / 6G Radio & Spectrum Innovation
- Non-Terrestrial Networks & Hybrid Connectivity
- Network Testing & Validation
- Vertical Application Based on 5G / 6G

■ We seek **implementable** and **deployable** solutions—ranging from **chips and hardware to software and platforms**. Submissions must **clearly define their strategic role and tangible value within next-gen network architectures**.

- Each submission must meet the following criterias:
- Completion of a **Proof of Concept (PoC) or experimental trial**
 - **Availability of pilot customers or real-world deployment environments**
 - A clearly **defined go-to-market strategy** and **commercialization pathway**

Eligibility

- Targeting startups and emerging creative teams within small and medium-sized enterprises (SMEs).
- Open to participants of all nationalities and ages, including students and working professionals.

Screening Process

- Online review selects 20 teams (Top 20)
- Virtual Pitch during the online meeting selects 10 teams (Finalists)
- In the on-site finals, the top 3 teams will be selected as final winners

Language

- English

Rules (2/2)

Criteria for Selection

20%—Innovativeness

- Whether the project is novel to the market and addresses or improves existing problems, products, or services.

30%—Technology readiness

- Whether the proposed application or service is technically feasible and supported by the team's technical expertise.

30%—Business Potential (in Taiwan is a plus)

- Whether the project demonstrates potential for collaboration and commercial development in Taiwan.

20%—Sustainable development

- Whether the project includes a feasible and sustainable implementation plan, supported by relevant evidence or data.

Judging Panel

- The jury is headed by a Chief Convenor who is responsible for chairing the evaluation meetings and coordinating related tasks with the judges.
- The judging panel is composed of representatives appointed by sponsoring companies.

Top 3 Winners

Gold Medal Award
USD30,000

Merit Award
USD20,000

Judges Award
USD10,000

Additional Non-Monetary Resources

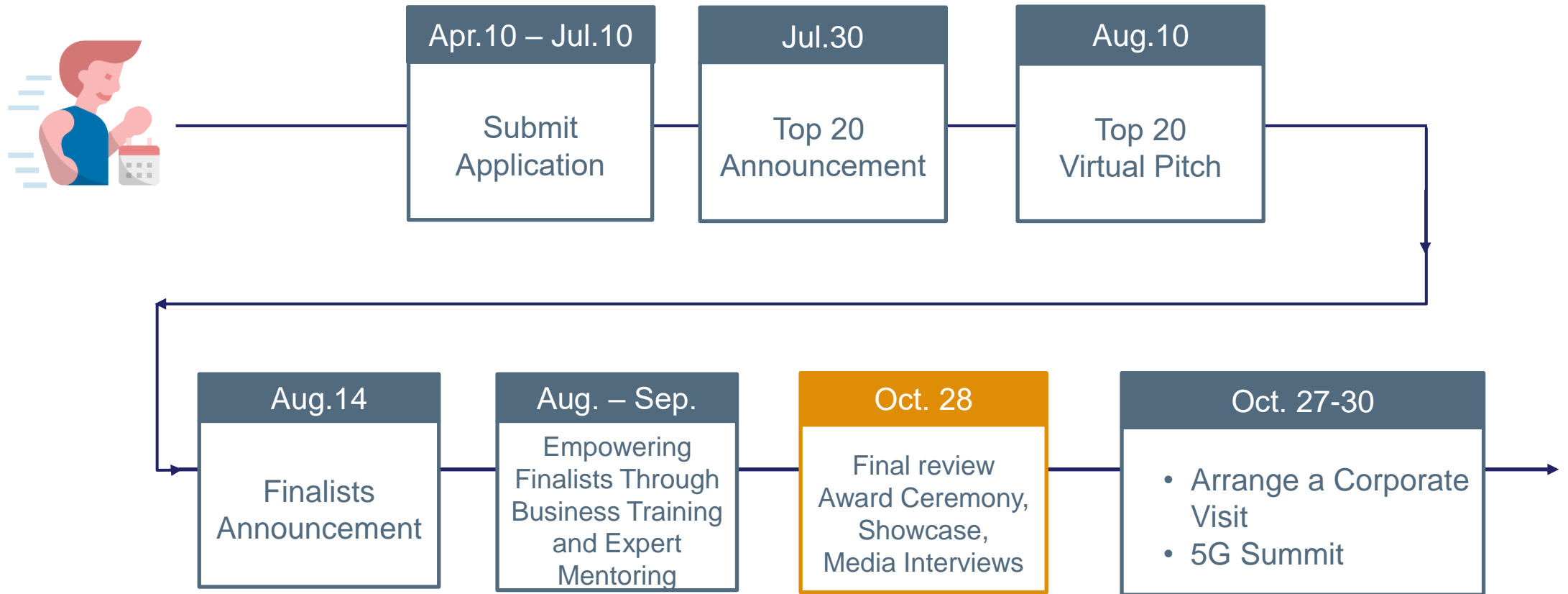
Business
Training

Sponsor
Company
Visits

Media
Interviews

2026 Important Timeline




This year's communication competition features a global theme, "Mobileheroes Global," targeting creative applications and talent from the international technology and communication industries. The initiative aims to help enterprises discover practical, cross-domain solutions and prospective project partners.






**For enquiries on Mobileheroes 2026,
feel free to reach out to the Organizing
Team.**

Taiwan's longest-running ICT competition

Contact

 Hsueh Han Ho
 02-2522-1206 #279
 HsuehHanHo@itri.org.tw

 Guan Ting Lin
 02-2522-1206 #273
 itriB40594@itri.org.tw

Attachment

Winners of Mobileheroes



2025 Winners of Mobileheroes

Waterly

@Gold Medal Award

Water pollution incidents cause significant damage, but traditional monitoring is slow, expensive, and infrequent. To address this, we developed Waterly, an autonomous, AI-powered real-time water quality monitoring system.

Our solar-powered IoT buoy offers "plug-and-play" deployment in any water body, continuously tracking key parameters like pH and dissolved oxygen. Data is streamed to a cloud platform, where AI predicts trends and sends instant alerts upon detecting anomalies.

At TRL 8 and currently deployed in Poland, Waterly increases monitoring frequency by 26,000 times compared to manual sampling while slashing costs. It empowers users to prevent ecological disasters, protect fisheries, and meet ESG goals.



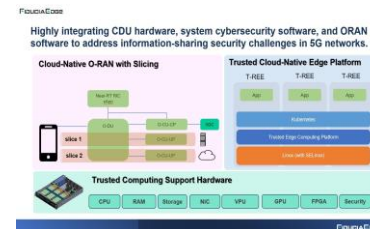
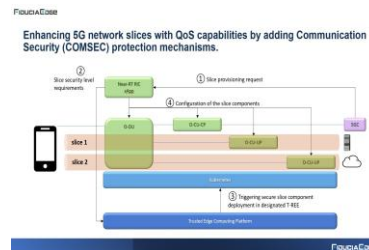
FiduciaEdge Technologies

@Merit Award

Building 5G private networks is costly, creating barriers for enterprises. The TSORAN solution addresses this by allowing private and public traffic to securely share 5G O-RAN infrastructure, significantly reducing deployment costs.

Its core technology uses a trusted cloud-native server to dynamically create secure network slices, each operating within an independent Trusted Rich Execution Environment (T-REE). This ensures strict information isolation and QoS. This software-defined architecture allows multiple tenants to coexist on a unified network while maintaining traffic separation.

Currently undergoing field tests with an active link between Taiwan and Poland, TSORAN confirms significantly lower deployment cycles and integration costs compared to traditional solutions. It provides a secure, flexible, and cost-effective foundation for 5G+IoT+AI applications.



Angel Eye

@Judges Award

To achieve "Zero Traffic Fatalities at Intersections by 2025," our team developed Angel Eyes, a pedestrian-centered B5G intelligent sensing system. Unlike camera-based solutions limited by blind spots and weather, Angel Eyes utilizes Integrated Sensing and Communication (ISAC) technology, allowing base stations to detect pedestrians and vehicles like radar, overcoming visual obstructions for centimeter-level precision.

Data is processed via edge computing, where AI models perform trajectory prediction and risk assessment. When collision risks exceed thresholds, alerts are instantly pushed to smartphones and vehicle HUDs. Successful campus experiments simulating non-line-of-sight scenarios validate the system's ability to monitor high-risk intersections, truly realizing a "vehicles yielding to pedestrians" safety concept.



2024 Winners of Mobileheroes

Ataya(Taiwan)

@Gold Medal Award
@CHORUS

The Ataya team integrates cloud management systems with cloud-based 5G core network services, embedding core functions into the gNB for a plug-and-play Chorus AP. Like a Wi-Fi AP, users simply connect power and network cables for instant private 5G services. All data is transmitted locally. The system simplifies device access and allows remote monitoring via a cloud dashboard. Chorus AP applies to retail, gas stations, oil & gas operations, smart agriculture, and emergency systems, enabling rapid point-to-point connections in small deployments.



OVA (Canada)

@Merit Award
@StellarX

The platform supports most standalone headsets, including Meta Quest 3. Users can import their own 3D models, images, and other media files into the asset center, with support for multiple file formats such as GLB, GLTF, OBJ, and FBX. StellarX provides an intuitive interface to arrange these assets in immersive environments without requiring any programming skills. One of StellarX's primary applications is in education and training. It simulates real-world scenarios to deliver unmatched interactive experiences. Successful use cases span fields such as firefighting, defense, and urban management. For example, it has been used to simulate complex maritime environments, helping crew members conduct daily training in realistic settings. Feedback indicates that it improves training outcomes and facilitates efficient teamwork.



Enline (Portugal)

@Judges Award
@Enline

Enline targets power equipment managers needing advanced tools for monitoring, maintaining, and optimizing energy infrastructure. It offers dynamic line rating, vegetation management, and fault detection using digital twin technology, AI, and machine learning. These innovations improve energy efficiency, enable real-time monitoring, and enhance renewable energy integration while reducing costs and environmental impact. In one case, Enline reduced energy losses by 30%.

Unlike similar products, Enline requires no additional sensors or hardware, making it a software-based, maintenance-free solution with full remote management. Its predictive capabilities include trend identification and risk forecasting.

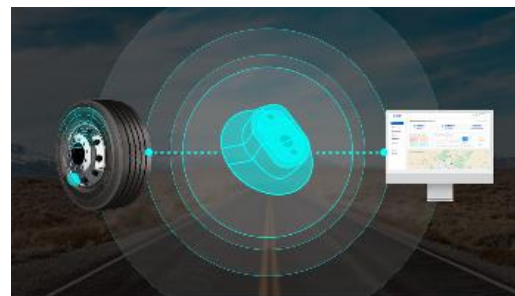
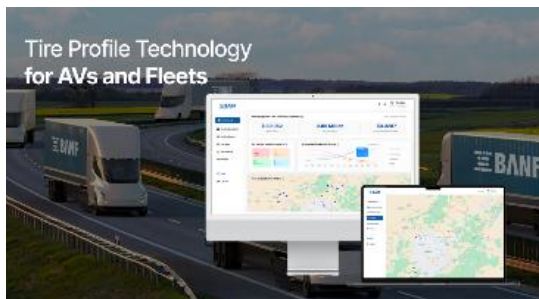


2023 Winners of Mobileheroes

BANF (South Korea)

@Winner

The iSensor, installed inside tires, collects real-time data on tire conditions, enhancing vehicle maintenance efficiency and providing early warnings through AI analysis to prevent accidents. It addresses issues like misalignment and low tire pressure, reducing fuel consumption and increasing fleet efficiency by 20%. The product stands out with embedded sensors for real-time information, and collaborative tests with multinational partners affirm its role in enhancing safety and productivity in the logistics industry.



ADAT Technology (Taiwan)

@Runner-Up

The team has launched the ADB platform with the aim of enhancing work environments. This platform serves as an AI coaching app, assisting experts in various fields to digitize their knowledge and provide real-time guidance to employees. ADB, a no-code platform with numerous patents, allows users to customize AR applications without programming expertise. During development, users can create AR components, integrate voice and visual aids, design workflows, and use personal videos or photos for AI model training. Employees can access applications through tablets or AR glasses for tasks like AI anomaly detection, route guidance, AR map navigation, and maintenance SOP guidance in factory environments.

