

Engineering the Future of Healthcare with Artificial Intelligence: Taiwan to lead the Forefront in Asia

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Artificial intelligence is changing healthcare. But some of the most interesting developments are happening where AI meets the physical infrastructure of medicine — from diagnostic imaging and ultrasound to vital-sign monitoring, surgical navigation and precision care.



As healthcare systems across Southeast Asia embrace smarter technologies and new models of care, Taiwan is looking to deepen its role as a technology and innovation partner for the region. At Medical Fair Asia 2026, Taiwan Excellence will bring together award-winning companies and solutions spanning smart medicine, precision healthcare and medical innovation.

Healthcare transformation in Southeast Asia is entering a new phase.

The conversation is no longer simply about expanding hospital capacity or introducing individual medical technologies. Across the region, healthcare providers are increasingly looking at how technology can be integrated into clinical workflows, how data can support better decisions, and how innovation can improve the efficiency and accessibility of care.

For technology providers, this creates a different kind of opportunity.

The question is no longer simply **what can a medical device do?** It is **how can technology become part of a healthcare ecosystem?**

This is the opportunity Taiwan Excellence aims to explore at **Medical Fair Asia 2026**, taking place from 9–11 September at Marina Bay Sands, Singapore.

With 16 Taiwan Excellence Award-winning companies expected to participate at the Taiwan Excellence Pavilion, Taiwan will use the exhibition as a platform not only to showcase medical technologies, but to build stronger connections with healthcare stakeholders across Singapore and Southeast Asia.

Beyond products: building confidence in Taiwan's healthcare capabilities

Taiwan has long been associated with technology and manufacturing. But its proposition in healthcare increasingly extends beyond the individual products it produces.

The **Taiwan Excellence Awards**, launched by Taiwan's Ministry of Economic Affairs in 1993, recognise products based on criteria including R&D, design, quality and marketing. The award is intended to represent the capabilities of Taiwan's industries and the quality of its products.

For healthcare, this provides a useful lens through which to view Taiwan's wider innovation ecosystem.

The companies presented under the Taiwan Excellence banner represent different applications of technology, but share a common proposition: that Taiwanese innovation can translate engineering and technological capabilities into solutions designed for real-world healthcare needs.

"Taiwan's strength lies not only in individual medical technologies, but in the ecosystem behind them. We want healthcare partners in Southeast Asia to see Taiwan as a forefront leader of innovation and as a partner for long-term collaboration," notes Megan Liu, Director of the TAITRA Singapore Office.

Where technology meets healthcare

At Medical Fair Asia 2026, the Taiwan Excellence Pavilion will place particular emphasis on **smart medical solutions, precision medicine and healthcare innovation**. These themes will be central to the pavilion's opening programme and VIP media tour.

The emphasis reflects a wider shift in healthcare.

Artificial intelligence and digital technologies are changing how clinicians access and interpret information. Connected technologies are creating new possibilities for monitoring and managing patients. Meanwhile, advances in precision medicine are opening new approaches to more targeted healthcare.

But the value of these technologies ultimately depends on their ability to solve practical problems.

That is where the Taiwanese companies exhibiting at Medical Fair Asia will provide the most interesting perspective.

EPED Inc.

EPED Inc. leverages advanced 3D optical positioning technology to elevate surgical safety and precision across neurosurgery, ENT, craniofacial, and maxillofacial procedures. Its RETINA system combines real-time sub-millimeter tracking with intelligent medical software, enabling surgical teams to perform complex, minimally invasive procedures with maximum surgical accuracy and reduced operating times.

Taiwan Surgical Corporation (TWSC)

Specialising in laparoscopic minimally invasive surgical (MIS) instruments, TWSC provides ergonomic ligation solutions engineered under its "Treat Patient as Family" ethos. The Inno-Hook Disposable Applier features automatic multi-firing mechanism to minimise clip loading time, while the eco-friendly InnoClip Reusable Applier consists of a handle which sustains repeated sterilisation and single-use cartridge. The handle is compatible with multi-size cartridges to reduce surgical waste.

Axiomtek Co., Ltd.

Axiomtek addresses the rising demand for real-time diagnostic intelligence with its IEC 60601-1 compliant medical computing platforms. Powered by high-performance processing and GPU acceleration, the mBOX600 and MPC241G medical computing solutions support smart hospital operating rooms, medical imaging, and clinical laboratory applications. The mBOX600 supports triple 4K UHD displays and optional antimicrobial coating, while the MPC241G features a 24-inch multi-touch display, MXM GPU expansion, and IP65-rated front bezel with IPX1 full enclosure for reliable operation in medical environments.

Advantech Co., Ltd

As a global pioneer in the space of smart hospital infrastructure, Advantech empowers clinicians at the point of care with high-performance computing platforms. The USM-300 features a dual-layer architecture integrated with Intel 13th Gen processors and NVIDIA RTX Ada GPUs to process high-clarity diagnostic imaging instantly, while the POC-4 is an all-in-one touch computer designed for versatile deployment across multiple hospital scenarios, such as nursing carts, aimed at streamlining medication management and clinical ward workflows.

The next chapter is about partnership

Healthcare innovation is often discussed in terms of breakthroughs: a new diagnostic technology, a more intelligent device, a new application of AI or a more precise treatment approach.

But bringing those innovations into healthcare systems is a different challenge.

It requires trust. It requires local knowledge. And it requires partnerships.

Taiwan Excellence's presence at Medical Fair Asia 2026 represents an effort to strengthen the connections between Taiwan's technology ecosystem and the healthcare communities of Southeast Asia.

The ambition is to be recognised not only for the quality of its products, but for the capabilities and relationships that sit behind them. For Southeast Asian healthcare stakeholders, that creates an opportunity to discover potential technology partners – and to explore how Taiwanese innovation could contribute to the region's own healthcare priorities.

Ultimately, the strongest healthcare ecosystems are not built in isolation. They are built through the exchange of ideas, expertise and technology across borders.

At Medical Fair Asia 2026, Taiwan Excellence is putting that principle into practice – bringing Taiwan's award-winning healthcare technologies to Singapore and opening the door to what comes next.

Meet Taiwan Excellence at Medical Fair Asia 2026

9–11 September 2026

Sands Expo & Convention Centre, Marina Bay Sands, Singapore

Taiwan Excellence Pavilion, Booth 2H01

Discover the participating Taiwanese companies and explore opportunities to connect with Taiwan's healthcare innovators.