

Dedicated Quantum Zone

Photons × Quantum: from core components to industrial applications

Building on two decades of photonics at the Laser World of Photonics Shanghai, naturally extending into the quantum domain

Covering three major segments:

Quantum
Communication

Quantum
Measurement

Quantum
Computing

Concurrent event:
2027 Quantum Technology Forum



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Mini Program

Why quantum?

Quantum technology has entered the eve of an industrial-scale boom

Global quantum technologies are rapidly transitioning from laboratory development to industrial applications. According to the report "State of the Global Quantum Industry 2026" released by the Quantum Economic Development Consortium (QED-C), the global quantum market size reached **US\$1.9 billion** in 2025, with quantum computing growing strongly at a compound annual growth rate of **30%**. McKinsey estimates the market could reach the **hundred-billion-US-dollar level** by 2035.¹

The "Fifteenth Five-Year Plan" makes forward-looking arrangements for six future industries including quantum technology, positioning it as a core direction for cutting-edge breakthroughs, and explicitly calls for building an integrated space-to-ground quantum communication network and accelerating the development of fault-tolerant universal quantum computers. In the first quarter of 2026, financing in the domestic quantum computing track alone exceeded **3.2 billion yuan** in a single quarter, surpassing the total amount for the whole of 2025.²

This is not a distant trend, but a turning point in the industry that is already underway.

¹ Data sources: QED-C report "State of the Global Quantum Industry 2026"; McKinsey "2024-2030 Global Quantum Technology Industry Report"

² Data source: aggregated public reports on domestic quantum computing financing data in Q1 2026

"Photon + Quantum" integrated ecosystem: a natural extension of two decades of accumulation at the Laser World of Photonics Shanghai

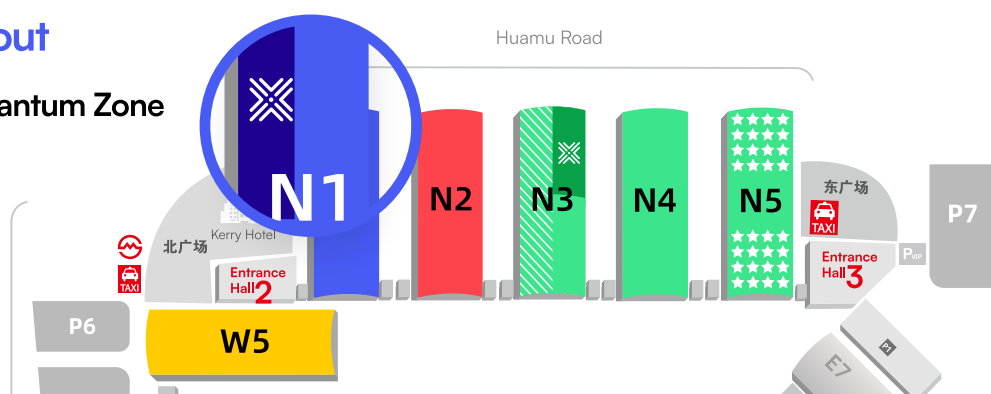
Every breakthrough in quantum technology relies on photonic technologies for support—precision laser systems enable quantum state control, high-performance optical components ensure the stability of quantum communication links, and thin-film lithium niobate modulators empower photonic quantum computing.

The Laser World of Photonics Shanghai has been deeply engaged in lasers and optoelectronics, optical materials, precision manufacturing, optical communications and core components for more than 20 years. These are precisely the core infrastructure of the quantum industry chain—from upstream optical materials to midstream key components, and on to quantum systems and equipment. The Laser World of Photonics Shanghai's industrial base and the Dedicated Quantum Zone together form a complete support chain for quantum.

Here, photons and quantum are not simply upstream and downstream, but part of an integrated ecosystem—from core photonic components and system-level equipment to applied solutions for various industries, the entire value chain is represented in the Dedicated Quantum Zone.

Booth Layout

Dedicated Quantum Zone



Coverage of the Dedicated Quantum Zone

Leveraging photonics to empower quantum technologies, achieving end-to-end coverage from core components to system-level solutions, unlocking diversified industries such as secure communications, precision measurement, and intelligent computing, and enabling real-world application scenarios.



Quantum communication

- **Systems and equipment:** QKD equipment, quantum random number generators, quantum secure communication devices, and industry-specific application solutions
- **Core photonic components:** Single-photon sources, single-photon detectors, quantum optical modules, and polarization-maintaining fiber assemblies for quantum channels



Quantum measurement

- **Systems and equipment:** Quantum gravimeters/magnetometers, quantum diamond atomic force microscopes, quantum precision measurement instruments, and industry-specific application solutions
- **Core photonic components:** Laser interferometer systems, ultra-high-reflectivity mirrors, single-photon detectors, precision optical windows



Quantum computing

- **Systems and equipment:** Photonic quantum computers, superconducting quantum computers, ion-trap quantum computers, quantum cloud platforms, and industry-specific application solutions
- **Core photonic components:** Photonic quantum chips, thin-film lithium niobate modulators, ultra-stable lasers

Why exhibit in the Dedicated Quantum Zone?

Five core value propositions to help enterprises seize the early opportunities in quantum industrialization



Photonics industry DNA—the foundational infrastructure of quantum technology

The Laser World of Photonics Shanghai has been deeply engaged in the photonics industry for more than 20 years. Photonic technologies are the foundational infrastructure of quantum communication, quantum measurement and quantum computing. From single-photon sources to quantum optical modules, from laser interferometer systems to photonic quantum chips, the optical components, laser systems and precision optics industry chain built around the Laser World of Photonics Shanghai provides essential support for quantum technologies to transition from laboratory development to industrial applications.



Global quantum brand endorsement—World of Quantum of the German parent exhibition

The German parent exhibition features the independent quantum brand World of Quantum, which offers cutting-edge technology insights, industrial resources and international brand endorsement to the global quantum industry. Leveraging this global network, the Shanghai Dedicated Quantum Zone connects international quantum companies and technology trends, offering exhibitors a global perspective and access to resources that go beyond domestic platforms.



Targeted buyer acquisition—200,000+database+independent invitation + business matchmaking

The Dedicated Quantum Zone leverages the Laser World of Photonics Shanghai's database of **over 200,000** professional visitors accumulated over more than 20 years, covering research institutes, industry leaders and end-user organizations. The Dedicated Quantum Zone has an **independent invitation system** that targets procurement decision-makers in the East China quantum industry cluster and in application sectors such as communications, finance and energy. Priority access to X Match procurement matchmaking sessions enables efficient conversion from visitor traffic to business opportunities.



Quantum Museum 2.0 — the country's only immersive science and technology experience venue

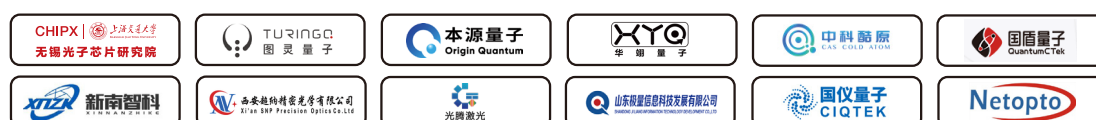
This is the only one of its kind nationwide. In 2027, the Quantum Museum will be fully upgraded to version 2.0. Building on in-depth science communication and knowledge displays, it will significantly expand interactive experiences and introduce more **quantum technology application cases**, allowing visitors to directly experience how quantum technologies transition from laboratory development to industrial applications and address real-world problems. Through diversified thematic design and immersive interactions, it will create a future science and technology experience space that is **"seeable, playable and touchable."**



Forums + product launches + investment & financing matchmaking — full-chain brand elevation

The 2027 Quantum Technology Forum will focus on the frontiers and industrialization trends of quantum communication, quantum measurement and quantum computing. The Dedicated Quantum Zone will feature a dedicated stage for world premieres of new products, providing quantum companies with a public platform for technology announcements. Leading industry investment institutions will also be invited to set up exclusive investment and financing matchmaking sessions, supporting quantum companies from brand exposure to capital empowerment and helping them achieve the critical leap from "technology validation" to "industrialization financing."

Companies that have participated in previous editions



Concurrent events on quantum topics

Quantum technology is at a critical inflection point as it transitions from laboratory development to industrial applications. This year's Laser World of Photonics Shanghai plans to host concurrent events dedicated to quantum, addressing the cutting edge of photonic quantum chip technologies, decoding the integration of quantum + AI with industry scenarios, and connecting the core chain from technological breakthroughs and results translation to commercial implementation.

2027 Quantum Technology Forum

The 2026 Quantum Computing Forum was a **one-day** event featuring **14 high-level keynote speeches and 1 in-depth roundtable discussion**, achieving an overall satisfaction rate of **96%**. In 2027, the forum will be comprehensively upgraded, broadening and deepening its topics and bringing together renowned experts, corporate representatives and investors in the field to jointly discuss key issues in the development of quantum technology from a forward-looking and pragmatic perspective.

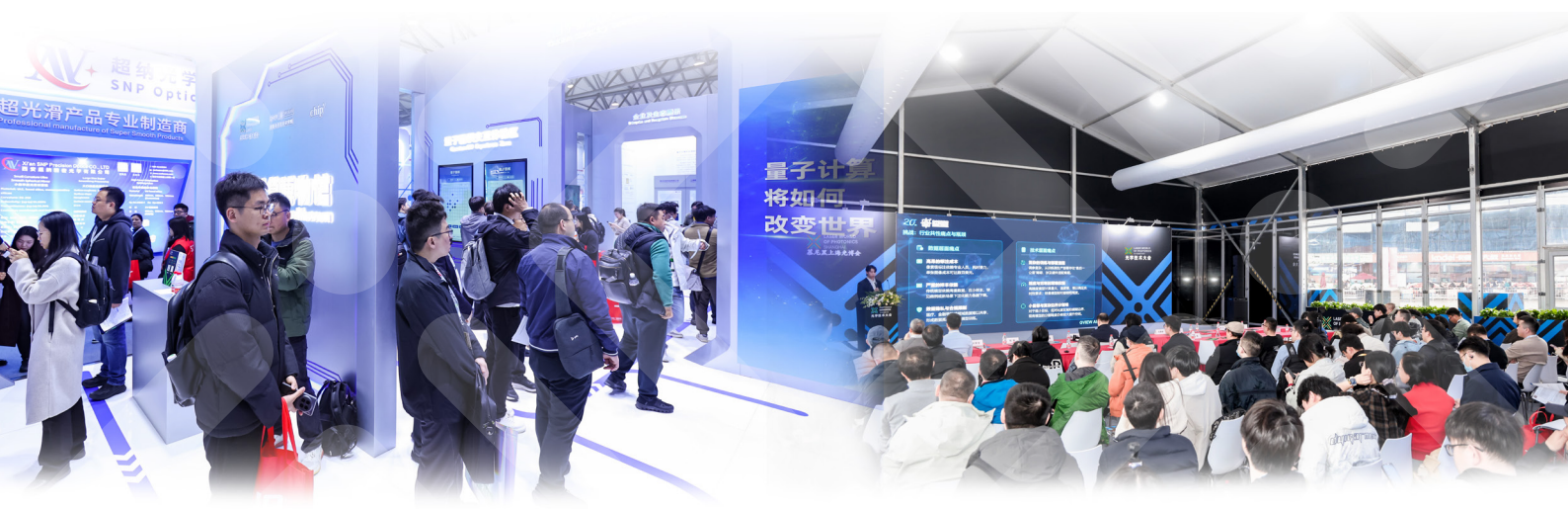
| Forum keywords

Ion-trap quantum computing **Photonic quantum computing** **Silicon photonic chips**
Quantum precision measurement Silicon photonic chips Photonic integrated chips
Quantum light sources **Single-photon detectors** Quantum encryption devices
AI computing power

Quantum Museum 2.0

In 2026, the Quantum Computing Museum made its debut, with several leading domestic quantum computing companies exhibiting physical prototypes. A rich array of popular science displays and interactive experiences was also provided—visitors could not only observe quantum computers up close, but also play quantum Go on site, gaining insight into the mysteries of quantum superposition and entanglement through engaging gameplay and immersing themselves in the unique appeal of quantum computing. The museum was highly praised by both visitors and exhibitors.

In 2027, the museum will be comprehensively iterated and upgraded to version 2.0. Building on in-depth science communication and immersive interaction, it will introduce more cutting-edge prototype demonstrations and more diversified themed experience activities, creating a future science and technology experience space that is "**seeable, playable and touchable**," and delivering more sustained visitor traffic and deeper audience engagement for exhibitors.



Join the Dedicated Quantum Zone

Co-create a "photon × quantum" integrated industrial ecosystem platform

Targeted invited visitors + X Match precision business matchmaking

Leveraging the database of over 200,000 professional visitors accumulated by the Laser World of Photonics Shanghai over more than 20 years, the Dedicated Quantum Zone has established an independent invitation system that targets the quantum industry cluster in East China and deeply engages with quantum-related associations, key university laboratories and research institutes, precisely inviting frontline researchers and principal investigators.

Meanwhile, the **X Match business matchmaking** system selectively screens and invites high-intention buyers on the application side of the quantum industry, accurately directing high-quality visitors to your booth:

Quantum communication application side >

Key network infrastructure entities such as telecom operators, financial institutions, government security departments and power grid companies

Quantum measurement application side >

Users of high-end equipment for precision navigation, geological exploration, semiconductor testing, advanced manufacturing and medical imaging

Quantum computing application side >

Computing power demand-side users such as AI and big data platforms, fintech companies, research institutes, materials simulation and computing entities, and quantum simulation and optimization algorithm entities



Matchmaking service process

Pre-show pre-registration of purchasing needs → Intelligent matching of exhibitors and visitors → On-site 1-on-1 dedicated matchmaking → Continuous follow-up and engagement after the event



Dedicated Quantum Zone exhibitor benefits



Free participation in
X Match business
matchmaking



New product launch
presentation slots



Omni-channel promotion
and exposure
(news/WeChat/email/media)

