



About Innofocus

Innofocus is revolutionising nanofabrication with its laser nanoprinting technology, a cutting-edge platform that combines ultrafast laser systems, AI-driven image recognition, innovative software, precise control system and advanced circuitry design to deliver unparalleled precision, scalability, and intelligence.

This integrated approach enables the creation of highly complex nanostructures with sub-100 nm resolution, making it ideal for applications such as quantum photonic chips, hyperspectral imaging, sensing devices, and optoelectronics.

By seamlessly integrating AI algorithms, software innovation, and precision circuitry design, Innofocus is redefining the boundaries of nanofabrication and enabling breakthroughs in device development.



innoFOCUS® C I P C

CUSTOMER INNOVATION & PRACTICE CENTRE

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AUSTRALIAN MADE QUANTUM PHOTONIC CHIPS (QPC)

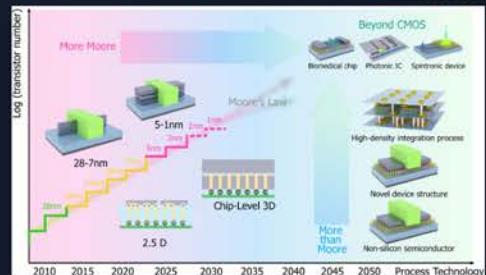
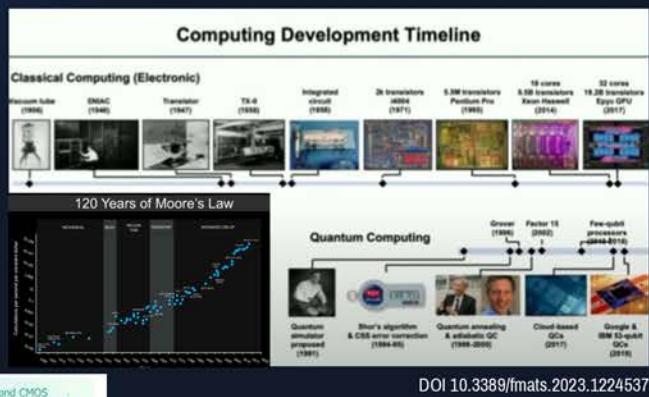
- ENABLED BY NANO MANUFACTURING PLANT



innoFOCUS
INNOFOCUS PHOTONICS TECHNOLOGY

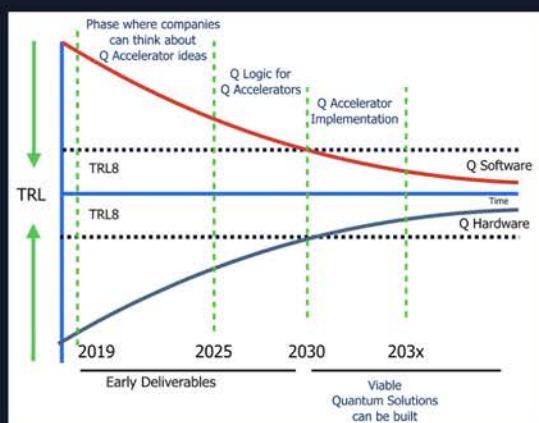
Post-Moore Era

- Quantum computing
- New materials
- New fabrication method
- New computation algorithm

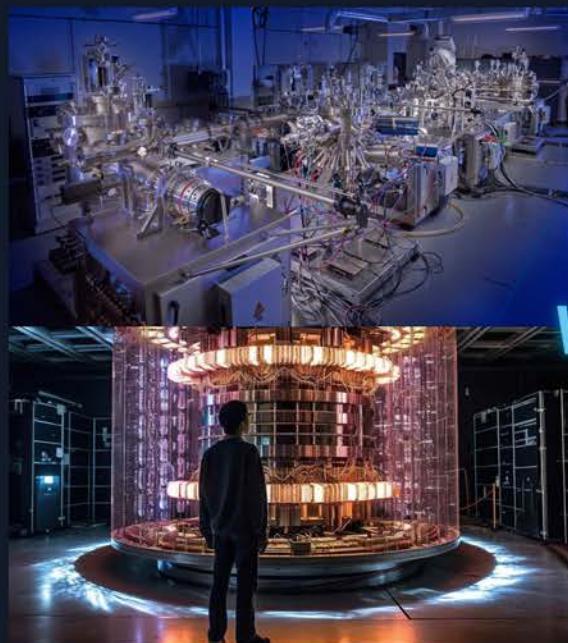


The future chips need to have faster speed, greater bandwidth, lower energy consumption, higher security, and superb performance. Integrated Quantum Photonic Chips is deemed to be the successor of silicon chips.

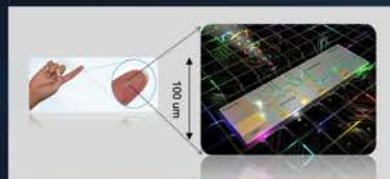
Australian Quantum Tech Needs More Hardware Development and Manufacturing Capacity



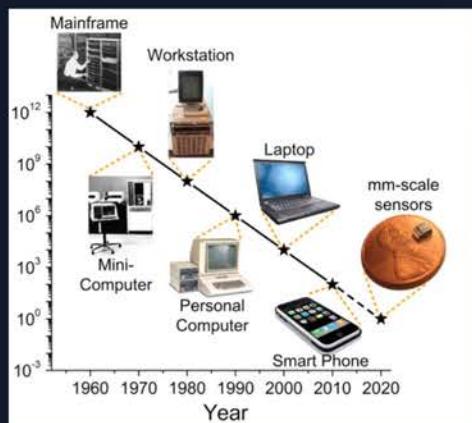
National Quantum Strategy (May, 2023)
State of Australian Quantum Report (Nov, 2024)



VS



Miniaturisation Is the Need

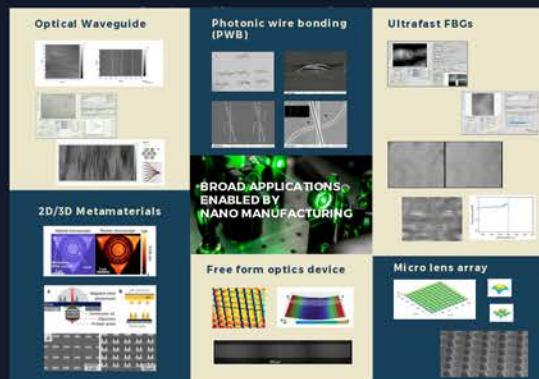


- Scalability of quantum devices
- Reduction in power consumption
- Enhancement of quantum communication
- Integration with existing technologies
- Increased accessibility and deployment
- Improved stability and error reduction
- Enabling quantum sensors and imaging
- Space applications
- Economic and environmental impact
- Long-term viability of quantum technology

Innofocus Developed nanoLAB Intelligent Laser Nano-fabrication & HoloView 3D Characterisation Systems, Leading the Global Research Markets



- Truly intelligent and easy to use
- Nanometric resolution
- Subnanometer position accuracy
- Multiple substrate materials
- Arbitrary 3D structure
- AI-Vision image recognition
- 400x faster than market products
- In-situ HoloView characterisation



nanoFACTORY Product Range to be Released in 2025 to Meet Industry's High-yield Needs for Nano-manufacturing



nanoFACTORY
HIGH RESOLUTION
HIGH ACCURACY
HIGH YIELD
HIGH DEVICE PERFORMANCE

- Integrated nanoFACTORY product range enables the industrial manufacturing capacity of highly complex nanostructures for applications such as quantum photonic chips, hyperspectral imaging, sensing devices, and optoelectronics.
- By seamlessly integrating AI algorithms, automation control software, and precision circuitry design, Innofocus is enabling breakthroughs in miniaturised device development.

Our Nano Manufacturing Plant (NMP) in Melbourne Leads the Way in Nano-manufacturing

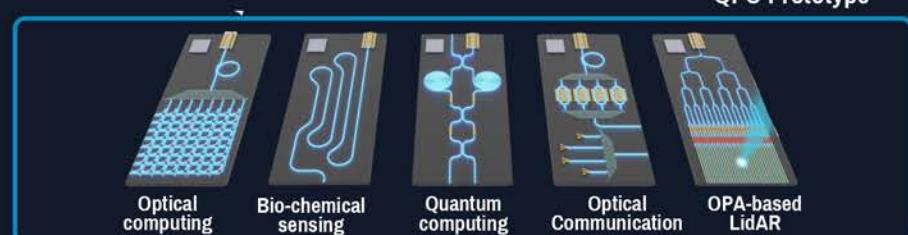
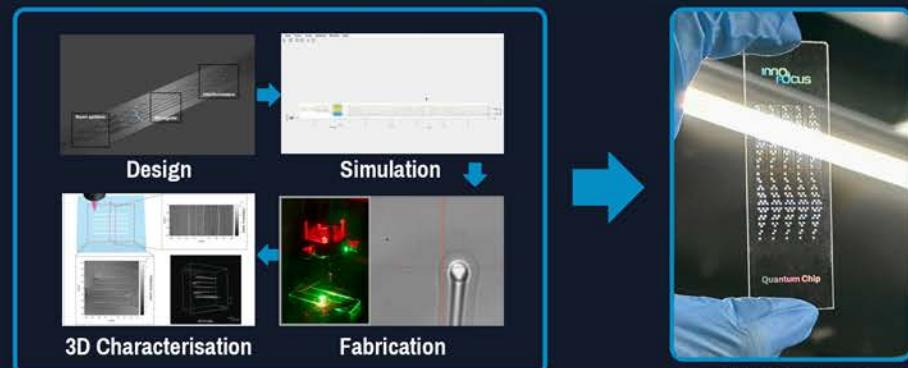


Our DNA and Innovation Focus

Keep Innovating,
Stay Focused.



We Are Building Capabilities for QPC Design, Simulation, Manufacturing and Characterisation



QPC Nano-manufacturing Is Opening Up a Huge Global Blue Ocean Market

**USD
65 bn**

Expected Global QPC industry market size

**USD
25 bn**

Addressable market size for QPC design, simulation, manufacturing and characterisation

**USD
1.25 bn**

Innofocus potential market share expected to be over 5%

We Are Actively Building the Nano-manufacturing Ecosystem in Australia

