



汎銓科技 AI晶片分析平台

www.msscrops.com



Msscrops (6830) 2026 Operational Outlook

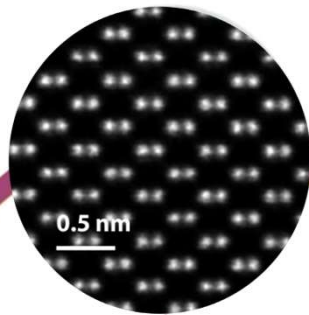
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2026 Operational Outlook: The Harvest Year

Completed Global Footprint: Taiwan, China, U.S., and Japan — Accelerated Synchronized Growth in 2026



Materials Analysis for the Angstrom-Node Process



Expanding Our AI Customer Base



Silicon Photonics Division Expands from Service to Equipment Sales

In addition to the three silicon photonics analysis systems already developed and assembled in-house, Photon Engineering has secured patents in Taiwan, the United States, Japan, and Korea. In response to customer demand, the company plans to further launch silicon photonics testing equipment in 2026 for use in production-end process development (PD) and quality assurance (QA), thereby extending its business from analytical services to **equipment sales and licensing, and expanding into a new operating model.**

Deepening Technology Capabilities in the Angstrom Era

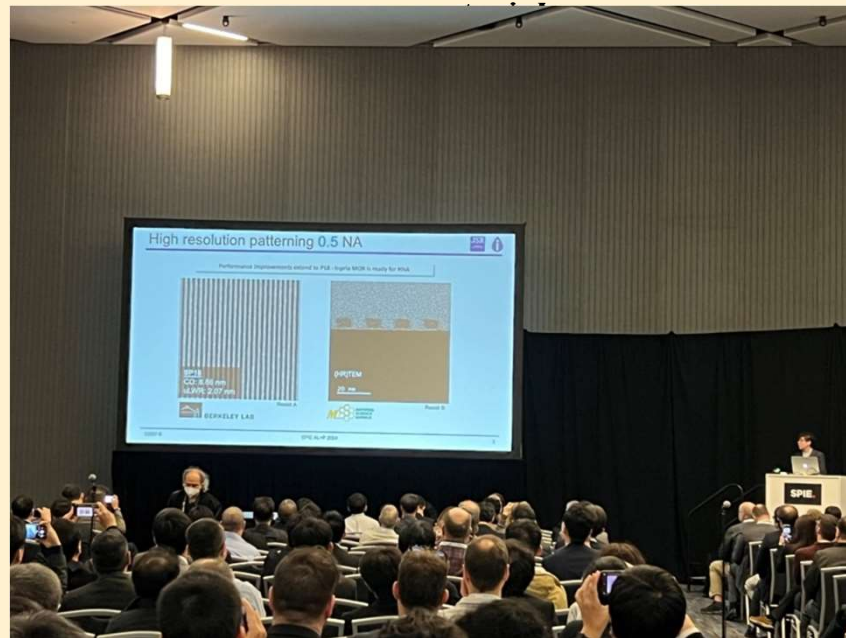


As advanced semiconductor manufacturing enters the Angstrom-node era, MSSCORPS continues to strengthen and specialize in next-generation analytical technologies, including MOR materials analysis and APT. The Company has completed the establishment of the SAC-TEM Center, which has recently passed customer audits and is set to commence operations, contributing to revenue growth.

MOR – Ultra-Sensitive Materials Analysis

Entering High-NA EUV Next-Generation Materials Analysis

Establishing a strategic entry point into advanced



Atomic-Scale Analysis Technology: APT

Providing atomic-scale compositional and defect analysis capabilities

Pushing the frontier of analytical technology

APT：原子級精度的先進製程材料分析技術

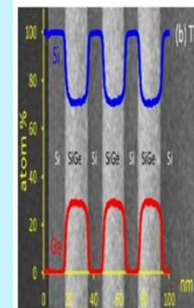
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作者：汎銓科技

類別：設計揭密

2025-12-09

(0) 評論



原子針尖斷層影像儀(APT)具備原子級空間解析與高靈敏度化學分析能力，能精確重建三維原子分佈，以因應先進製程與埃米級材料分析挑戰...

CS-TEM Facility Deployment and Equipment Installation

State-of-the-Art TEM Infrastructure

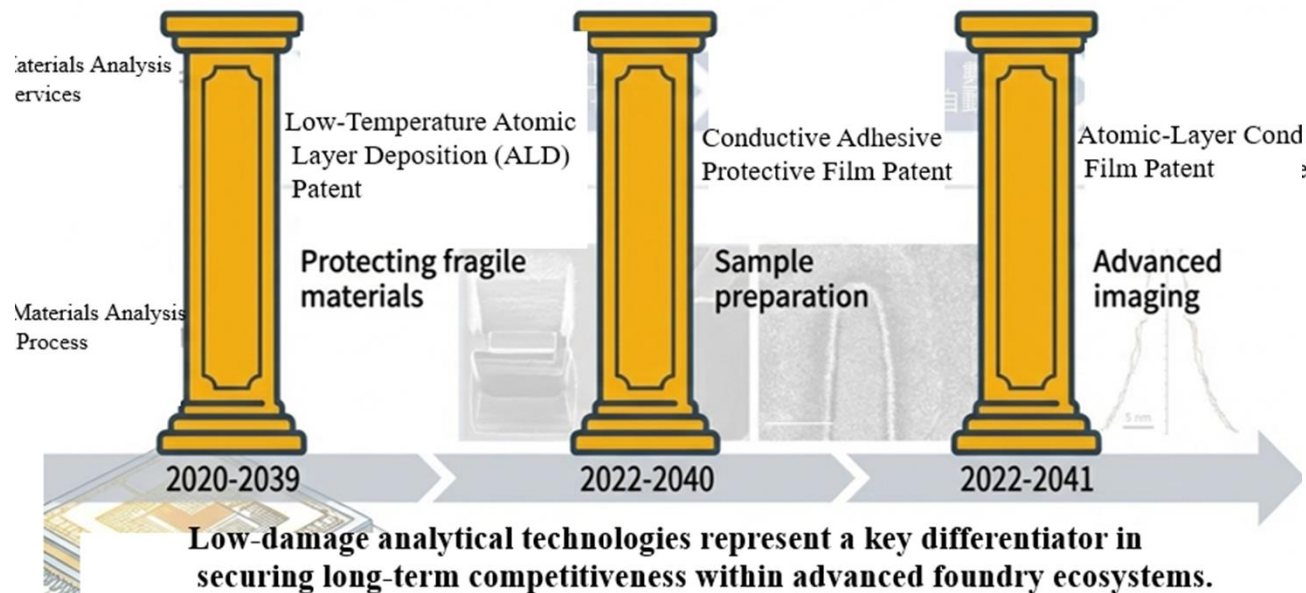
Enhancing comprehensive materials analysis capabilities

Supporting advanced process R&D and volume production demands

The SAC facility is built to world-class materials analysis standards, featuring a fully controlled environment and precision instrument installation space. The facility design meets stringent semiconductor industry requirements for vibration isolation and electromagnetic shielding.

Strengthening Our Proprietary IP Portfolio

Building High Barriers to Entry Through Technology Leadership



2026 and Beyond – Four Strategic Growth Engines

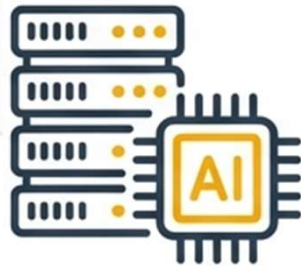


Scaling the Zhubei AI Client Hub to Support Tier-1 AI Industry Leaders

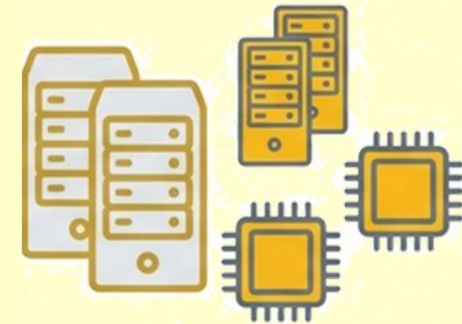
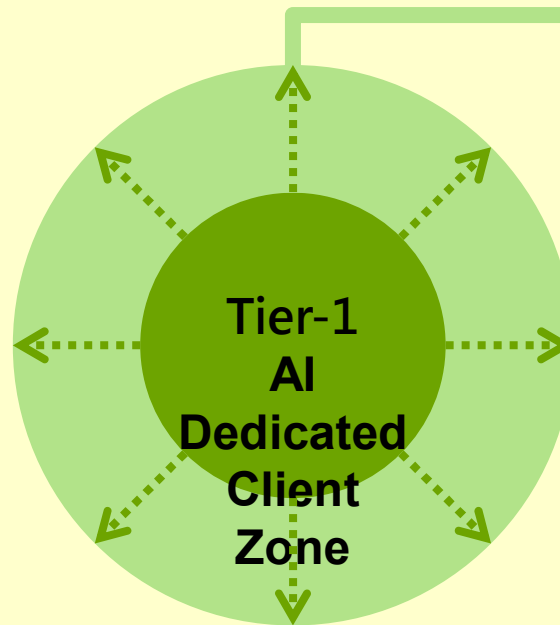
Expansion of the Tial-1 AI Client Zone

Tier-1 AI customers have partnered with MSSCORPS to establish a dedicated **AI Client Zone**, with continued expansion underway.

Amid explosive growth in AI chip demand, requirements for advanced packaging and heterogeneous integration analysis have increased significantly. MSSCORPS has become a key strategic partner to leading U.S. AI semiconductor manufacturers.



- Exclusive AI Zone:** Premium security protocols and priority production support
- Sustained Tier-1 Growth Momentum:** Continued expansion of demand from leading AI players
- Strategic Co-Development:** Early involvement in advanced AI chip and silicon photonics innovation



MSS HG (Helmet Gecko)

Live status of in-house equipment at MSS



Sales Version (Mechanical Schematic Diagram)



- Standard functions:**
1. Automatic Laser Coupling Platform
 2. IL / RL
 3. Optical Loss & Leakage Localization
 4. Swept Laser Measurement
 5. Optical Intensity Variation Measurement (50 mW / 17 dBm)
- Optional Features:**
1. Optical Frequency Domain Reflectometry (OFDR)
 2. High-Power Measurement (1000 mW)
 3. High-Power Automatic Polarizer
 4. Optical Polarization Measurement (PDL)
 5. Switch Multi-Channel Measurement
 6. OVNA Measurement (70 / 110 / 170 GHz)
 7. Eye Diagram Measurement (70 / 110 / 170 GHz)
 8. BERT Module (64 / 120 GBd)



Customer categories	Client commissioned projects	MSS HG device configuration
FAB (PIC wafer fabrication)	Support R&D characterization / Spice Model calibration / FA Lab Debug	Prober stage, optical loss detection device, standard Tester configuration, optional Tester configuration...
PIC chip design company (IC design)	PIC component parameter confirmation Product Data Sheet / Debug	Prober stage, optical loss detection device, standard Tester configuration, optional Tester configuration...
CPO Packaging Plant	Optical path debugging,...	Prober stage, optical loss detection device, standard Tester configuration, optional Tester configuration...
Optical module manufacturer / system manufacturer	CPO module Debug, ...	Prober stage, optical loss detection device, standard Tester configuration, optional Tester configuration...

Tester Standard function :

1. Automated Laser Coupling Platform
2. Optical Loss Measurement (IL / RL)
3. Optical Loss and Leakage Location
4. Frequency Sweep Laser Measurement
5. Optical Intensity Variation Measurement (50 mW / 17 dBm)

Tester Optional Features:

1. Optical Frequency Domain Reflectometry (OFDR)
2. High Power Measurement (1000 mW)
3. High Power Automatic Polarizer
4. Optical Polarization Measurement (PDL)
5. Switch Multichannel Measurement
6. OVNA Measurement (70 / 110 / 170 GHz)
7. Eye Diagram Measurement (50 / 70 / 110 GHz)
8. BERT Module (64 G / 128 GBd)

MSS Silicon Photonics Strategic Positioning :

From RD debug to mass-production inspection, MSS is building a global patented platform for optical-loss localization.

★ MSS focuses on RD and FA debug.

★ For mass-production optical-loss and light-leakage localization, MSS will work with international equipment vendors through patent licensing to enable production-line testing.

- ✓ MSS does not compete with production-line equipment vendors; instead, MSS positions itself as their strategic partner.
- ✓ MSS' s goal is to build a patent platform.
- ✓ MSS HG is responsible for the RD and FA markets.
- ✓ The mass-production market will be scaled up through a licensing model.
- ✓ Looking ahead, MSS' s revenue streams in the silicon photonics value chain will include analytical services, debug equipment sales, patent licensing, and revenue sharing from production-line equipment sales.



MSS 全球佈局運營 Worldwide Operation



業務推廣

上海辦公室



MA

南京廠房



MA

深圳廠房



MA

川崎廠房



MA / FA

Sunnyvale 廠房



台灣

總部

本部

FA/ SA/ 矽光子

MA



竹北營運三廠 (建廠中)

MA/ FA/ AI 專區



竹北營運二廠

MA



竹北營運一廠

FA/ AI 專區



RA 驗證中心

RA



南科廠房

MA



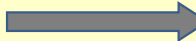
SAC-TEM Center

MA (14A/10A)

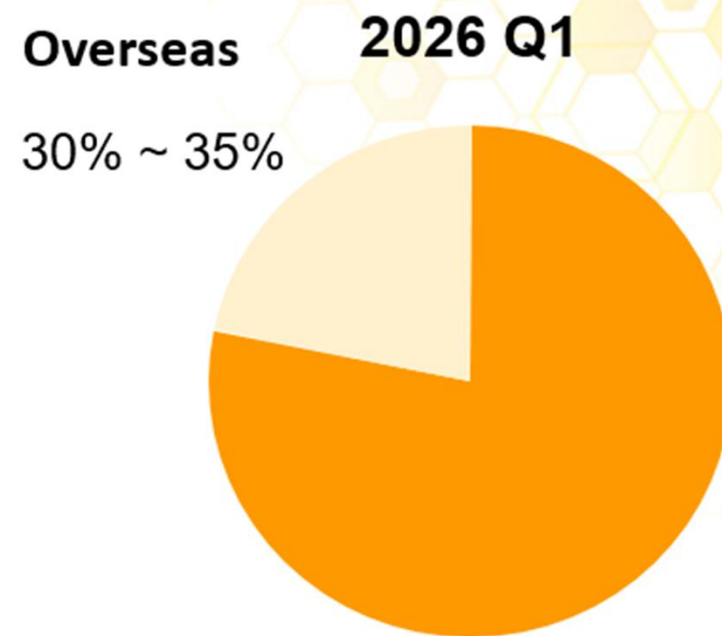
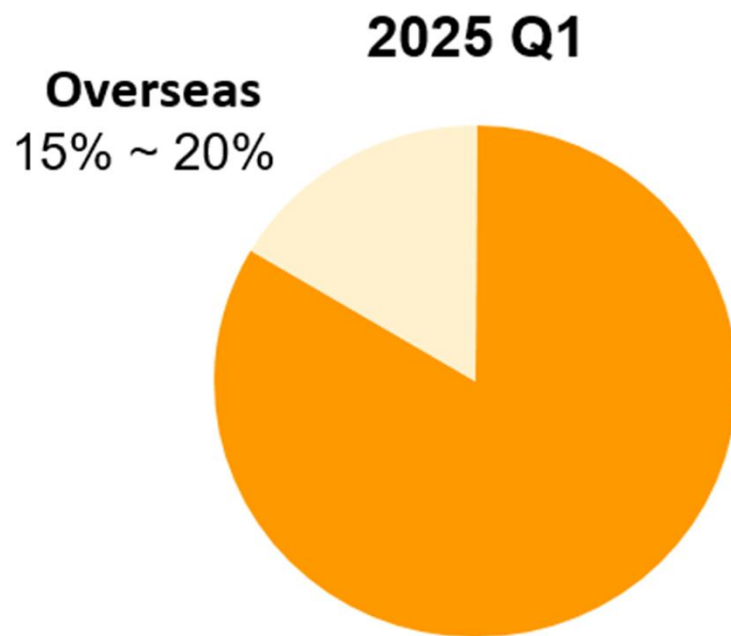
Semiconductor equipment/materials research and development



Classification and growth potential of MSS analysis techniques

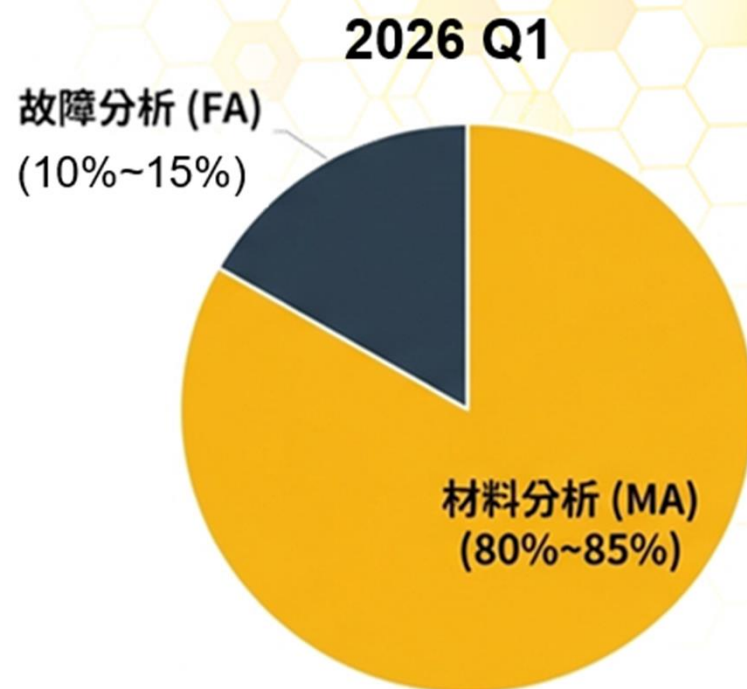
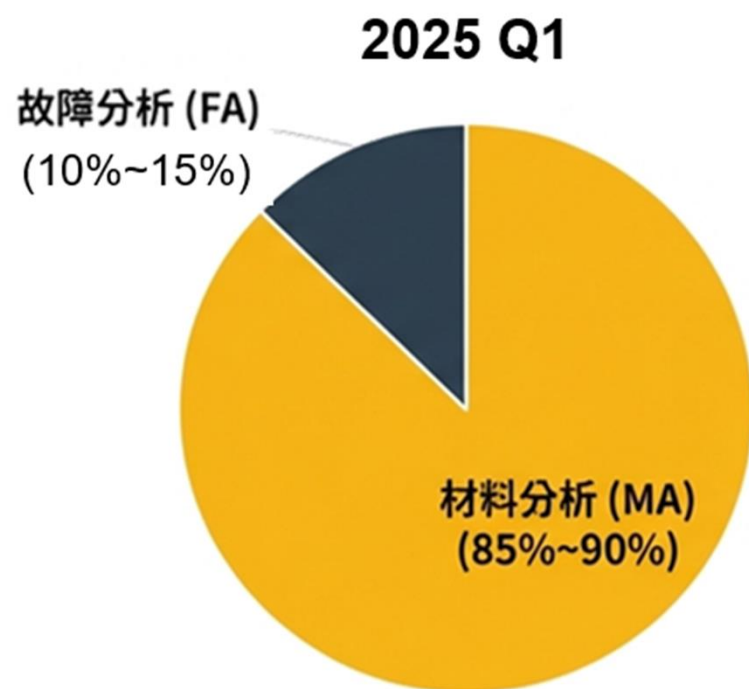
Category	item	Technology	MSS niche	2025 1-5 Revenue proportion	2026 1-5 Revenue proportion	Expected growth in 2025-2026		
Advanced processes (Angstro m era)	MA	PR protection technology	3rd generation EUV PR protection technology	52.7% 86.25 million	43.7% 86.93 million			
	MA		Advanced EUV PR protection technology					
	MA	low-k protection technology	Selective deposition sample preparation technology					
	MA		BEOL: low-k structure protection technology					
	MA		BEOL: low-k damage analysis technology					
	MA		Novel 2D materials analysis method					
	MA	Ultra-thin sample method	Ultra-thin sample protection method					
	MA		FEOL: GAA etch byproduct bonding state analysis					
	MA		MEOL: ALE etch byproduct comparison platform					
	MA		High aspect ratio structural TEM analysis technology					
MA	Auto-measurement	Artificial intelligence for automatic measurement	9.6% 15.56 million	7.3% 14.63 million				
MA	ML ball height/ML defect	Optical component analysis technology: ML ball height/ML defect						
MA	Compound Semiconductor	Wearable device AR/VR product lens integration analysis						
MA		Epitaxial defect quantitative analysis technology						
MA		Carrier concentration distribution analysis in compound semiconductors						
MA		Integrated stress analysis technology						
MA	OLED	Ultra-low contrast imaging technology for layer structures				10.1% 16.54 million	8.0% 15.97 million	
MA	CCL/FCCL	Soft material slicing technology						
MA	Compound Semiconductor	General materials analysis (SEM/FIB CS/Reversed MA/SIMS)						
FA		High voltage and high temperature test (1000V, 300C)						
FA		Ultrathin sample preparation technology for EFA						
FA		Signal lead technology						
IC failure analysis	FA	Circuit edit technology	Backside signal lead technology					
	FA		Adding external multiple passive components technology					
	FA		Precise local RDL removal technology					
	FA		Filpchip front side FIB technology					
	FA		General failure analysis (decap/delayer/electrical property/CRD/IC Reverse/SAT/3D Xray)	7.3% 12.01 million	8.0% 15.98 million			
Silicon photonics	MA	Silicon photonics structure	Large-area rapid cutting method for silicon photonics/Conductive preparation method for silicon photonics/Low-curtain effect cutting method for silicon photonics					
	FA	Silicon photonics photoelectricity test	Light characteristics and attenuation detection for silicon photonics					
	FA		Optical path abnormality positioning, circuit break, light leakage detection for silicon photonics					
	FA		12-inch silicon photonic photometric platform with fully automatic light scanning					
	MA	Advanced package	PFIB/hybrid metal bond/TSV分析技術					
	FA	FA for advanced process chips	3nm製程去層次技術/um to nm positioning, direct nano probe measurements on devices					
Abroad	MA	Advanced package	Large IC packaging and carrier board separation technology/THZ-TDR open /Thermal xyz fault isolation/3D Xray	20.2% 33.07 million	32.9% 65.59 million			
		Special ALD coating/ultra-thin sample technology	Advanced photoresist protection, low-k structure protection, and high depth-width TEM technologies.					
SiPh Testing Equipment HG Sales	Equi pme nt sales	"Optical-Loss Detection Device" Technology	MSS has already assembled three in-house systems that are stably serving multiple customers for silicon photonics RD analysis. The company plans to expand its service model and provide patented-technology-based mass-production testing equipment to customers.					

Key Institutional Investor Focus: Changes in Market Landscape



- ◆ Changing global market dynamics are opening new growth avenues and influencing our strategic positioning.
- ◆ Revenue exposure to Mainland China continues to rise, driven by accelerated semiconductor development and increasing demand for advanced materials characterization services

Key Institutional Investor Focus: Changes in Market Mix

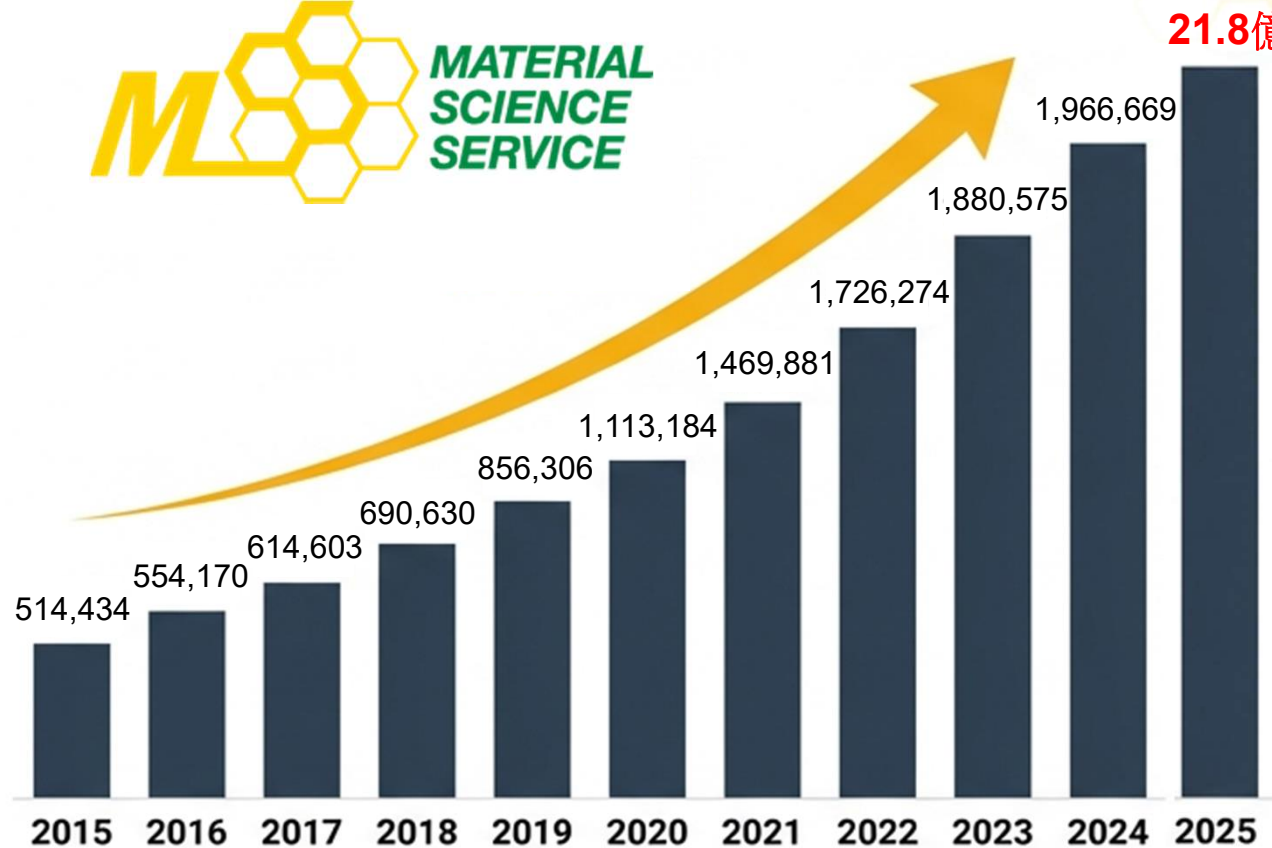


高技術門檻的 MA 服務佔比穩居 80% 以上，確保整體毛利率結構優於同業。

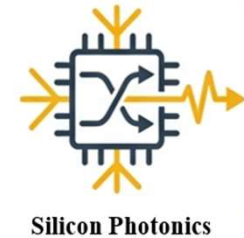
Sustained >80% Mix of High-Barrier MA Services

Ensuring a Structurally Superior Gross Margin Profile

Strategic Inflection Point: From Steady Profit to Structural Explosion



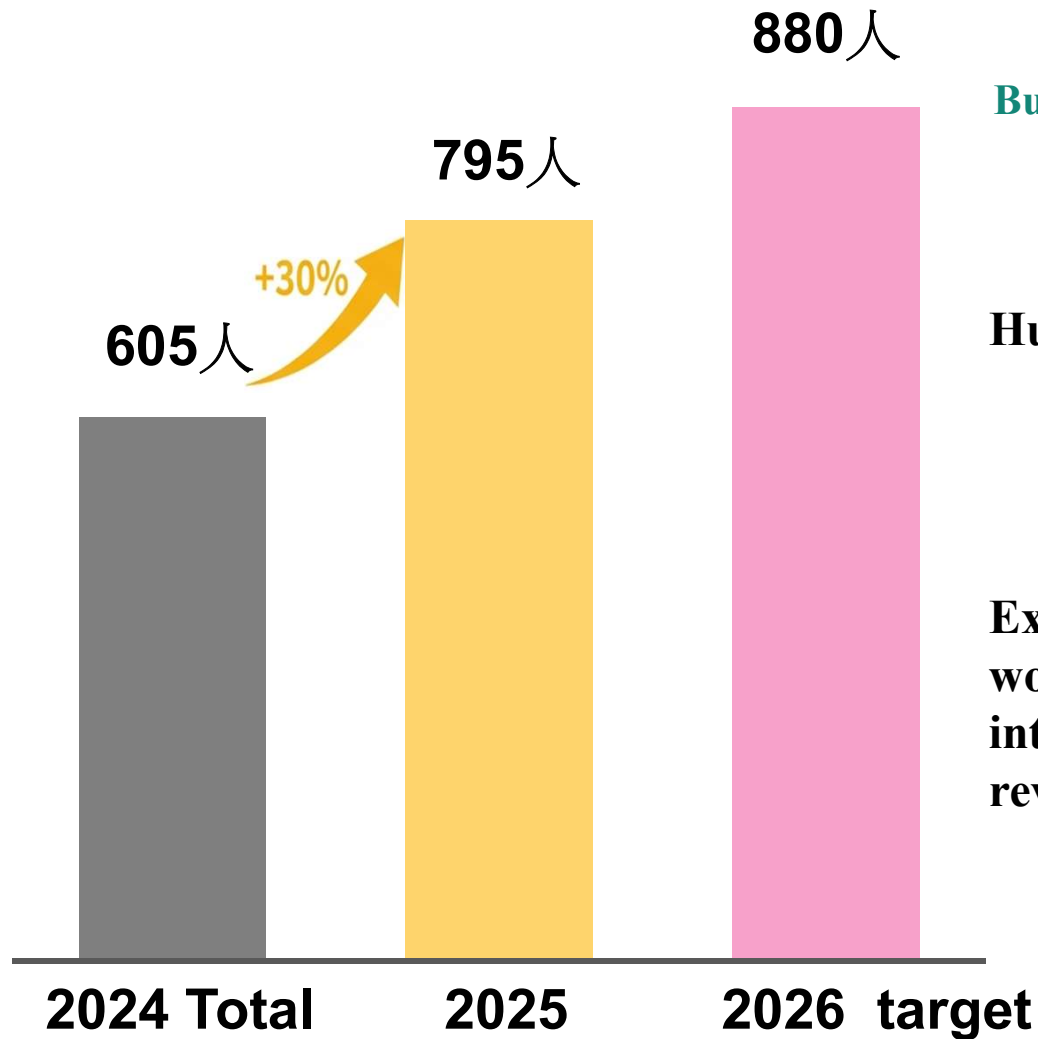
Four Major Growth Drivers for 2026



2015-2025 Revenue Compound

Growth Rate (CAGR) 14.5%

Talent Arms Race: Preparing for Explosive Demand in 2026



Strategic Investment in Human Capital.
Building a Strong Foundation for Sustainable Future Growth

Human Capital as a Growth Multiplier

- Scaling high-end technical talent aligned with advanced-node demand
- Strengthening silicon photonics testing and R&D capabilities

Execution capacity begins with people — workforce readiness directly translates into scalable production output and revenue growth.

Company Overview

MSSCORPS CO., LTD. (MSS)

Established
July 27, 2005

Listed
Officially listed on
August 31, 2022

Founder
Gino Liu Chairman / President

NT\$534 Million

Capital
NTD

795

Employees
Technical and Engineering Teams

Core Service Offerings

- **Materials Analysis (MA)**- Providing advanced process R&D support to foundries and equipment/material suppliers
- **Failure Analysis (FA)**- Assisting IC design houses and manufacturers in rapid root cause identification and defect resolution

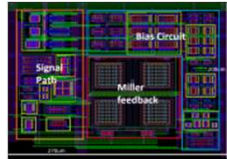
The role of MSS in the semiconductor industry supply chain-FA

Item & Positioning

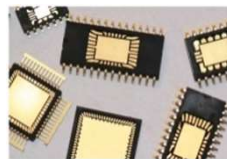
Content

Failure
analysis
service

(IC Hospital)



IC Design /
Photomask



Packaging /
Substrate /
Flexible Board
/ PCB
Applications

Resolving IC Design Errors and Identifying Root Causes of IC Failures to Accelerate Time-to-Market

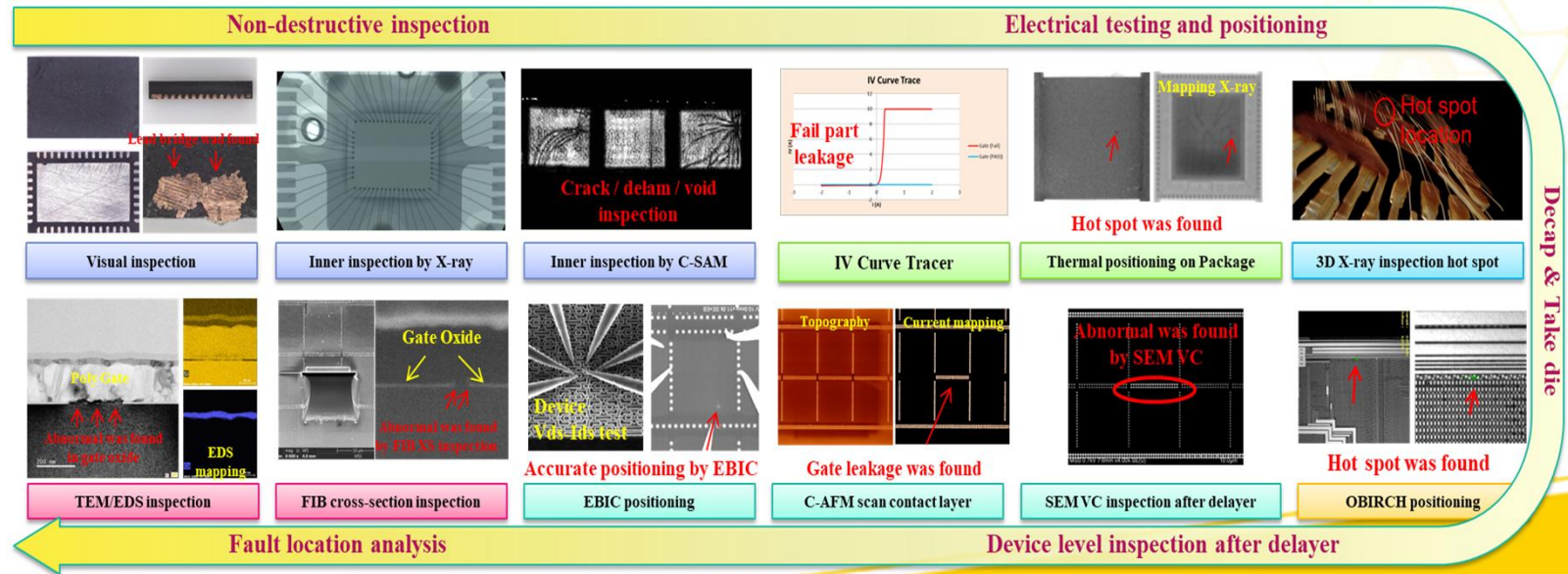
- IC debugging and repair, enabling designers to pinpoint design flaws and validate corrective actions
- Post-production analysis of defective units, including re-measurement, fault localization, structural and compositional analysis using EFA & PFA technologies to determine root causes

MSSCORPS' Low-Damage Analytical Technologies

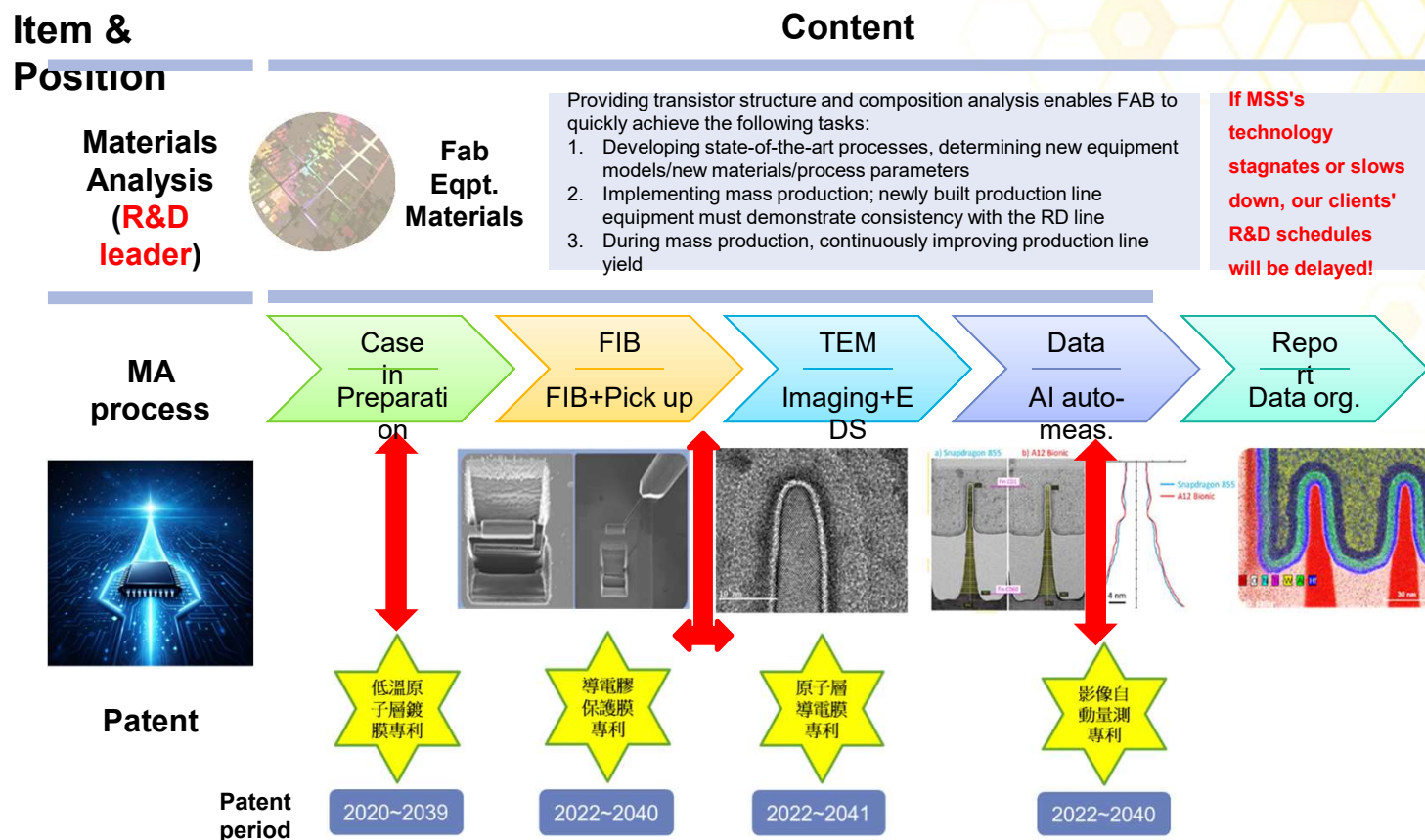
- Originated from leading foundry requirements and extended downstream across the semiconductor ecosystem
- Increasing material diversity, hardness variation, thinner layers, and weaker interlayer bonding demand advanced protection techniques
- Developed proprietary protection processes and patents to minimize thermal and electrical interference and prevent human-induced defects

Failure
analysis
Process

如何找到失效點?



The role of MSS in the semiconductor industry supply chain-MA





MSSCORPS

Silicon Photonics "Optical Loss Detection Device" - Invention Patent

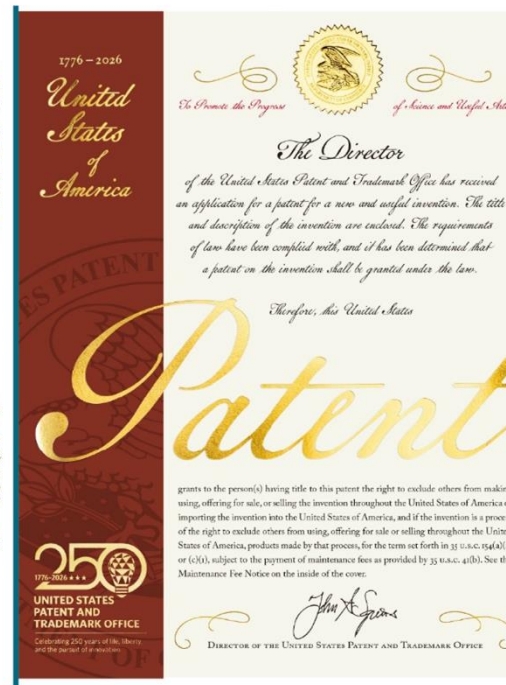
Certificates in Taiwan, Japan, and the United States



Taiwan



Japan



US



感謝各位先進的聆聽

Thank you for listening, and welcome your guidance

以下開放Q&A