



汎銓科技 半導體產業高階製程领航者

www.msscrops.com



MSSCORPS. (6830)

2025 Q1 Operations & Performance

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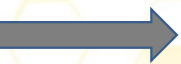
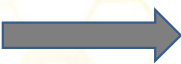


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From MSS's Perspective

- ❑ With strong A^0 designs, silicon photonics, AI related demand
- ❑ Customer groups for related applications in Compound 、Wide Band Gap 、 CIS 、 H-V 、 Logic IC and memory facing China Cost Competition, demand "remains" sluggish.
- ❑ Global arrangement on 2024, not only not affected by tariff barriers but also benefited from overseas market revenue increased

MSS classification and growth

Item	Group	Technology	MSS niche	Description	2024 Revenue proportion	2025Q1 Revenue proportion	Expected growth in 2025-2026
Advanced processes (Angstrom era)	MA	PR protection technology	3rd generation EUV PR protection technology	Metal oxide PR	54.7%	54.3%	
	MA		Advanced EUV PR protection technology	EUV PR/etch structural analysis			
	MA		Selective deposition sample preparation technology	Special ALD deposition			
	MA	low-k protection technology	BEOL: low-k structure protection technology	AMAT announces black diamond materials			
	MA		BEOL: low-k damage analysis technology	Low-k composition analysis			
	MA		Novel 2D materials analysis method	Weak-bonding materials analysis			
	MA	Ultra-thin sample method	Ultra-thin sample protection method	2nm/A14 device structural analysis			
	MA		FEOL: GAA etch byproduct bonding state analysis	2nm/A14 device composition analysis			
	MA		MEOL: ALE etch byproduct comparison platform	DRAM cell analysis			
	MA	Auto-measurement	Artificial intelligence for automatic measurement	Massive/reliable/accurate measurements			
Mature processes	MA	ML ball height/ML defect	Optical component analysis technology: ML ball height/ML defect	CIS	12.7%	9.4%	
	MA		Wearable device AR/VR product lens integration analysis	Meta Lens/Pancake Lens			
	MA	Compound Semiconductor	Epitaxial defect quantitative analysis technology	GaN on Si			
	MA		Carrier concentration distribution analysis in compound semiconductors	GaAs/InP/SiC			
	MA	OLED	Integrated stress analysis technology	PA amplification ability (diffraction pattern analysis)			
	MA		Ultra-low contrast imaging technology for layer structures	Polymer image analysis			
	MA		Soft material slicing technology	Non-curtain effect/void			
IC failure analysis	FA	Compound Semiconductor	General materials analysis (SEM/FIB CS/Reversed MA/SIMS)	GaN/SiC	9.8%	10.6%	
	FA		High voltage and high temperature test (1000V, 300C)	GaN/GaAs/SiC/3nm HPC InGaAs electrical measurement			
	FA	Circuit edit technology	Ultrathin sample preparation technology for EFA	Tapping wire to directly measure the single logic gate			
	FA		Signal lead technology	Advanced process IC			
	FA		Backside signal lead technology	Dedicated for WLCSP/FO IC			
	FA		Adding external multiple passive components technology	Flipchip IC			
	FA		Precise local RDL removal technology	General failure analysis (decap/delayer/electrical property/CRD/IC Reverse/SAT/3D Xray)			
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	Precise parallel lapping and PFIB to increase TEM capacity for silicon photonics	5.7%	7.0%	
	FA	Silicon photonics photoelectricity test	Light characteristics and attenuation detection for silicon photonics	On the silicon photonics testing platform, the emitted light enters the silicon photonics IC, coupling to the waveguide in the IC, and then passes through different functional components such as light			
	FA		Optical path abnormality positioning, circuit break, light leakage detection for silicon photonics	TEM for 3D IC bond alignment/junction oxide/TSV TEM			
	FA		12-inch silicon photonic photometric platform with fully automatic light scanning	Verified 3nm products			
	MA	Advanced package	PFIB/hybrid metal bond/TSV	Patent protection/5um precise positioning			
	FA	FA for advanced process chips	3nm delayer/um to nm positioning, direct nano probe measurements on devices				
Abroad	MA	Special ALD coating/ultra-thin technology	Advanced photoresist protection/low-k structure protection/high depth and width TEM and other technologies		17.1%	18.7%	

- ❑ Participate in the development of MOR (Metal oxide) EUV photoresist for next-generation high NA EUV exposure machine



Locations-Taiwan

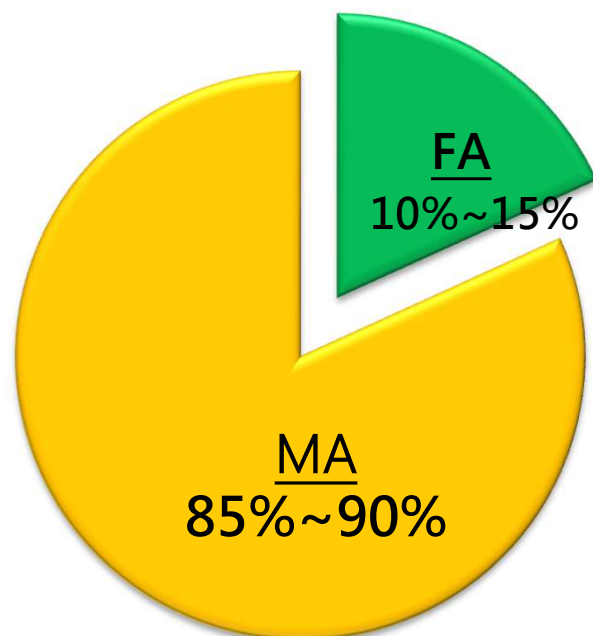
- ❑ MA Center + Zhubei Ⅱ : 1.4nm-A⁰ advanced process
- ❑ Headquarter : 「Silicon photonics testing and positioning analysis」
- ❑ Zhubei Ⅰ : 「AI Customer Area」
- ❑ SAC-TEM Center will be opened before 2025/Q3
- ❑ Zhubei Ⅲ : We will planned to 「AI Customer Area」 & 「Silicon photonics testing and positioning analysis」 in 2026.

Locations-Worldwide

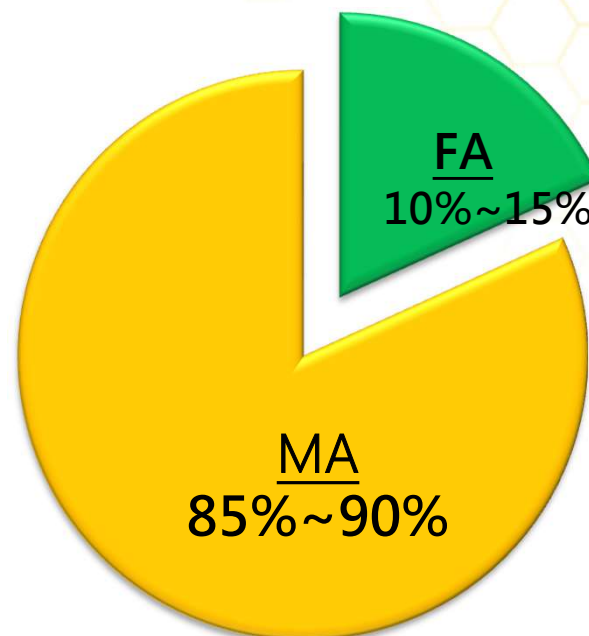
- ❑ MSS China : obtained of "High-tech Enterprise" and tax reduction and exemption policies
- ❑ MSS USA CORP. : The Lab in completion and the equipments acceptance phase and it will be opened in 2025/05
- ❑ MSS Japan : The Lab is still under construction and is expected to open in Q3 2025
- ❑ Invited by customer to establish operating base in Europe

Product Portfolio

2024 Q1

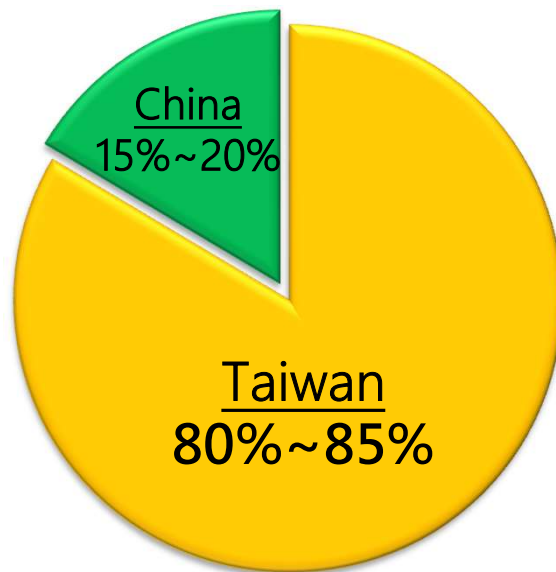


2025 Q1

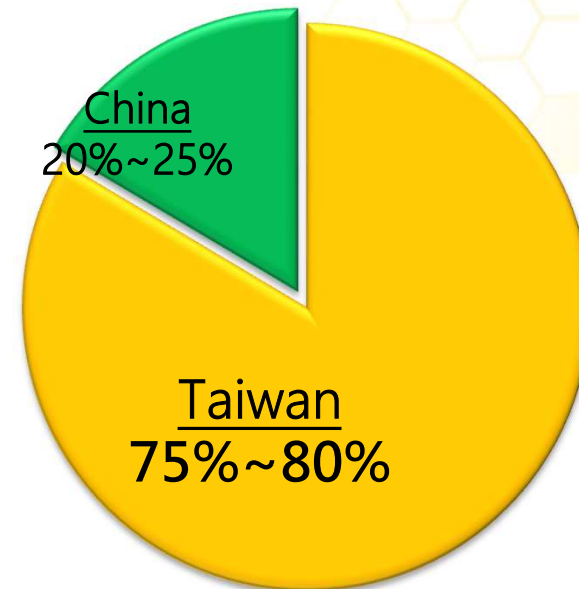


Marketing Mix

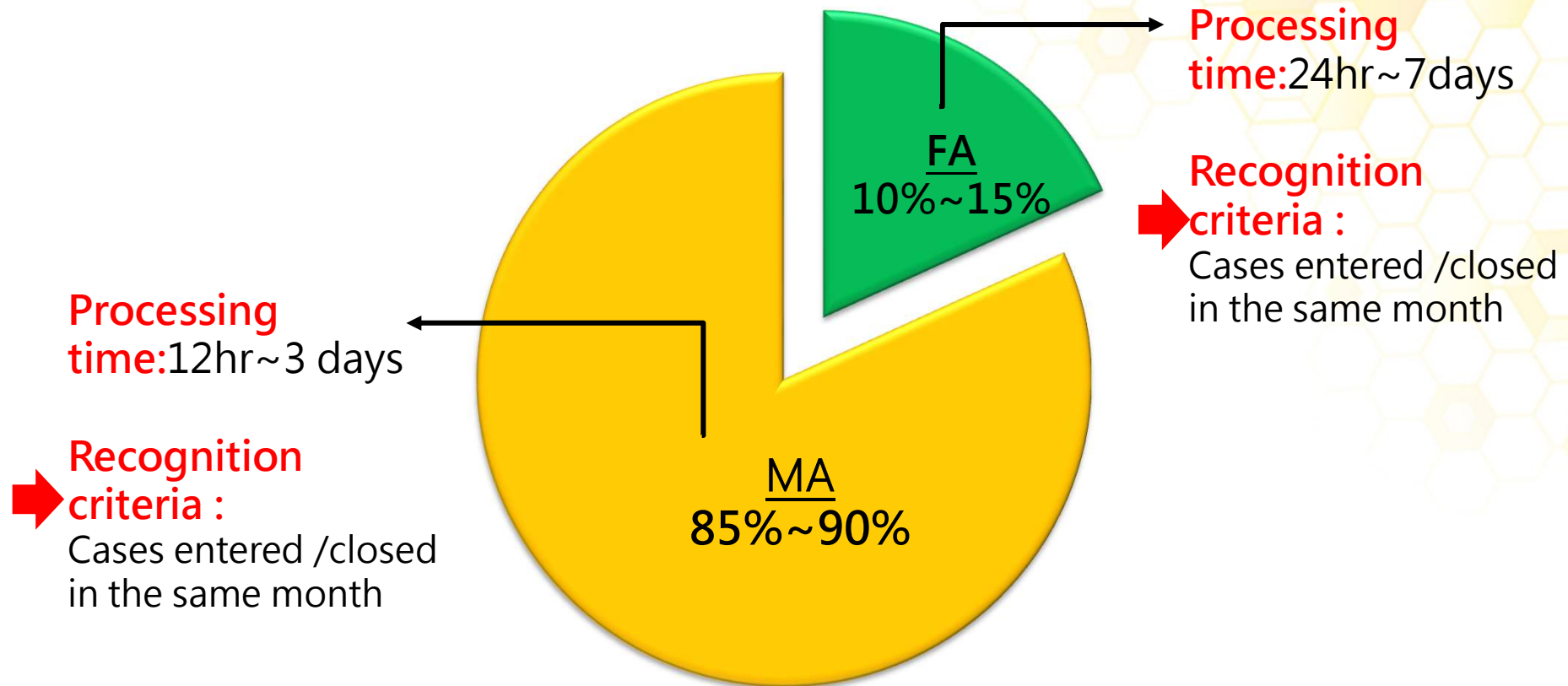
2024 Q1



2025 Q1



2025Q1



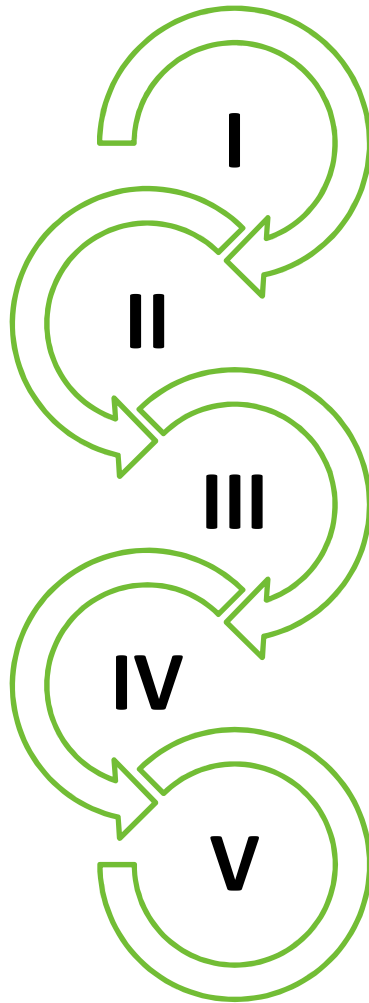
Employees Trends

2024 VS 2025 Q1

Quarter	Q1	Q2	Q3	Q4
2024	605	615	630	650
2025	680	-	-	-

Company Profile

About MSS



汎銓科技股份有限公司
MSSCORPS CO.,LTD.(abbr.MSS)

Founded: July 27,2005

Listing: August 31,2022

Chairman and CEO : Gino Liu

Capitalization: NTD518million
Number of Employees: 680

Service Item: MA(Materials Analysis)
FA(Failure Analysis)

MSS role in the semiconductor industry chain-FA

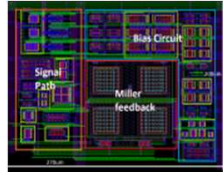
Positioning

Content

FA(Failure Analysis)

(Hospital of ICs)

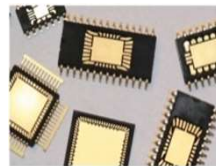
IC design,
mask, and RMA



Design debugging and failure root cause investigation are the keys to shorten time to market

- IC circuit repair for designers to find design bugs and confirm **effectiveness of revised design**
- FA method to find failure **root cause** of fail IC after mass production

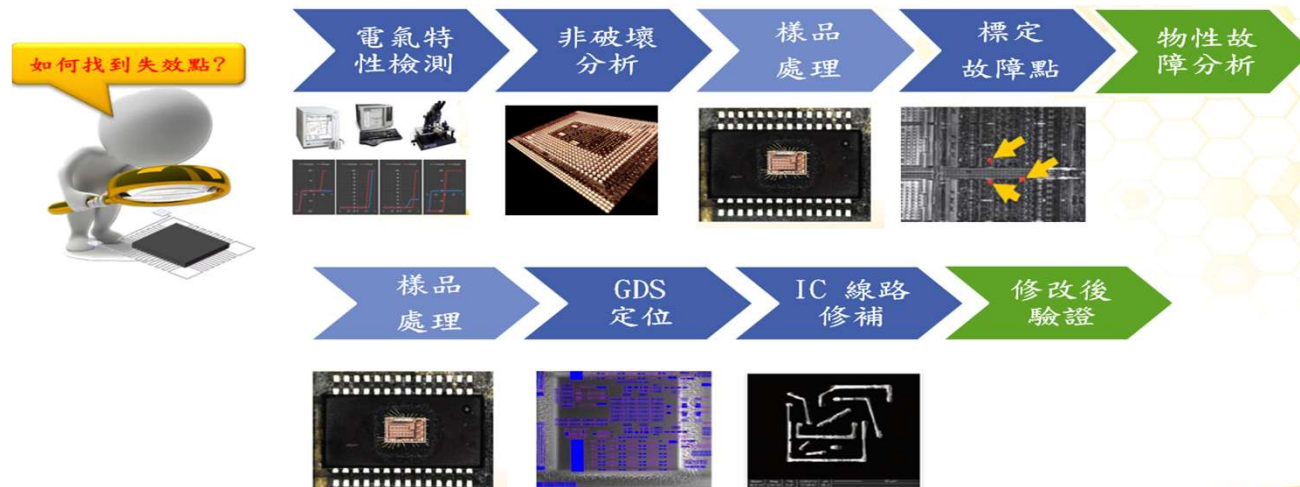
Package/substrate/PCB/FPC



MSS **low-damage methods** developed in MA can be extended to be utilized in back-end industry

- Material diversity, hardness difference, thinner layers, and weaker inter-layer force to cause difficulties for analysis
- Special methods to reduce heat- and electricity-induced **artifacts**

Flow chart



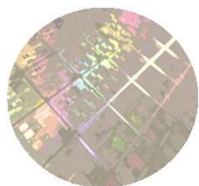
MSS role in the semiconductor industry chain-MA

Positioning

Content

MA(Materials Analysis)

(R&D Pilot)



Wafer foundry/equipment/materials

Providing timely correct structural and chemical analyses of specimen of interest to Fab for

- New technology node R&D, to determine **process parameters**, **new materials**, and **process tools**
- Process tool consistency check during transfer from R&D to mass production
- Yield optimization in mass production

Flow chart



Patent Title



Patent period

2020~2039

2022~2040

2022~2041

2022~2040

Statements of Comprehensive Income

(In NT\$ thousand)	114年Q1	113年Q1
Revenue	464,693	434,851
Gross profit	61,123	109,406
Margin %	13	25
Operating expenses	(109,025)	(91,481)
Total non-operating income and expenses	(3,051)	(7,509)
Profit before income tax	(50,593)	10,416
Income tax expense	2,088	(19,979)
Total non-operating income and expenses	(48,865)	(9,563)
EPS	(0.94)	(0.20)

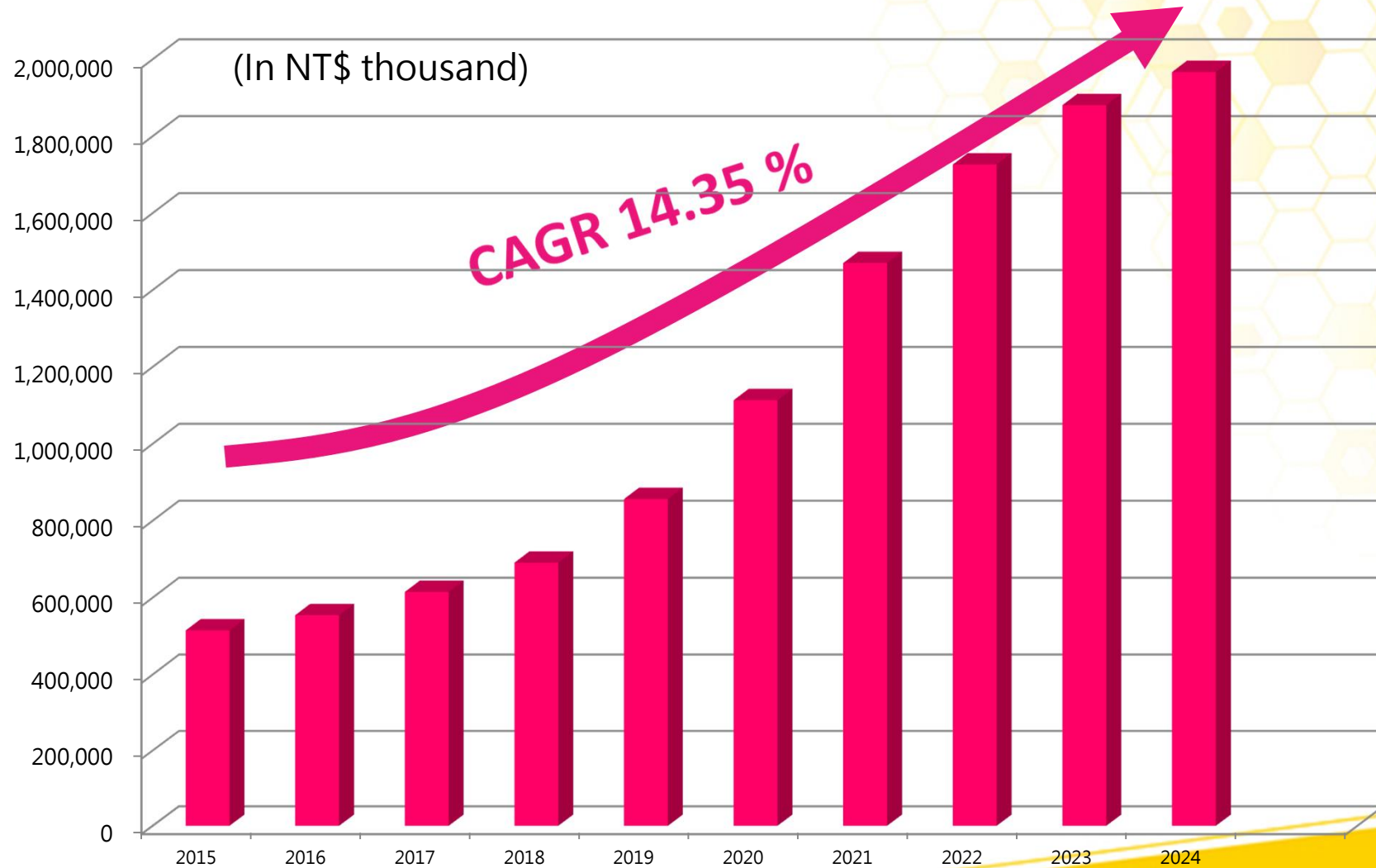
Balance Sheet

(In NT\$ thousand)	114/03/31		113/03/31	
	Amount	%	Amount	%
Cash and cash equivalents	1,131,940	19%	713,736	15%
Trade receivables	666,498	11%	600,275	13%
Prepayments & Other assets	193,048	4%	141,200	3%
Property, plant and equipment	3,274,627	55%	2,410,914	52%
Right-of-use assets and other non-current assets	636,253	11%	791,336	17%
Total Assets	5,902,366	100%	4,657,461	100%
Short-term debt & current portion of long-term loans payable	240,667	4%	186,767	4%
Trade payables & Other payables	201,509	4%	393,415	8%
Other current liabilities	146,395	2%	345,302	8%
Convertible Bond	470,860	8%	-	-
Long-term borrowings	1,430,869	24%	1,106,082	24%
Other non-current liabilities	279,497	5%	244,660	5%
Total liabilities	2,769,797	47%	2,089,459	45%
Total equity	3,132,569	53%	2,568,002	55%

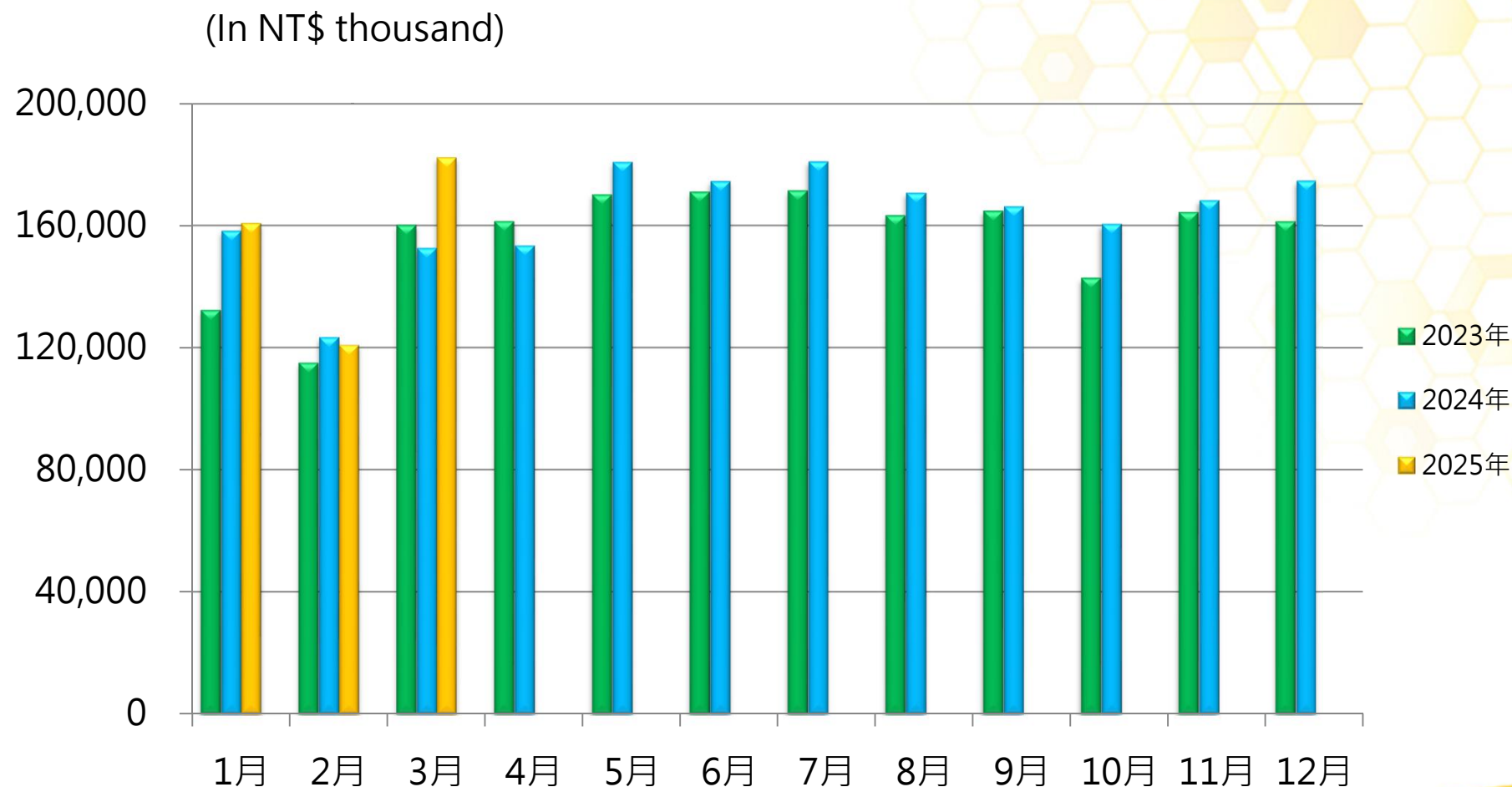
Cash Flows

(In NT\$ thousand)	114年Q1	113年Q1
Beginning Balance	1,181,200	622,110
Cash from operating activities	104,325	152,600
Capital expenditures	(259,438)	(404,176)
Proceeds from short-term & long-term debt	207,000	411,000
Long-term loans	(104,589)	(45,864)
Others	3,442	21,934
Ending Balance	1,131,940	713,736

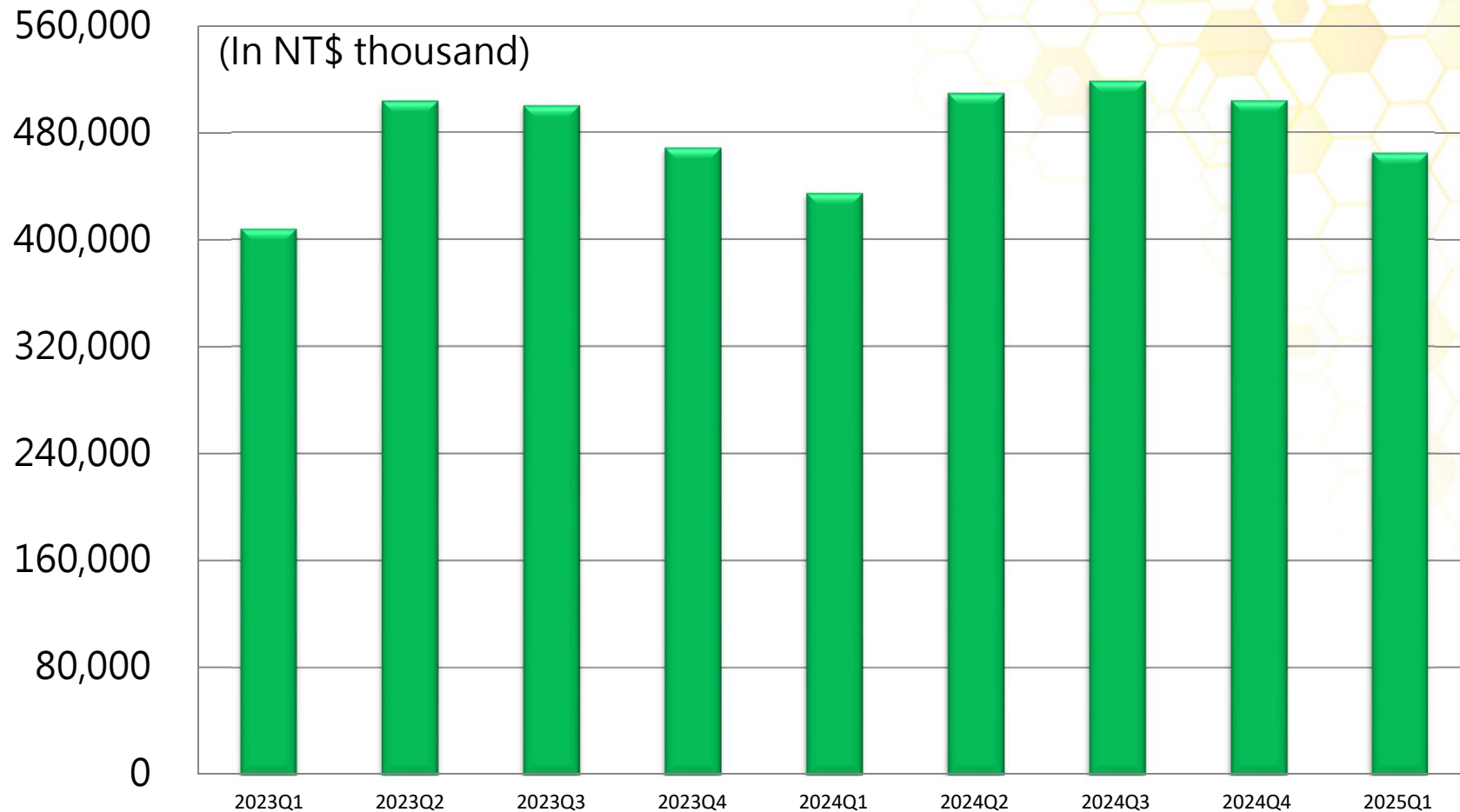
Revenue Compound Annual Growth Rate in the past ten years



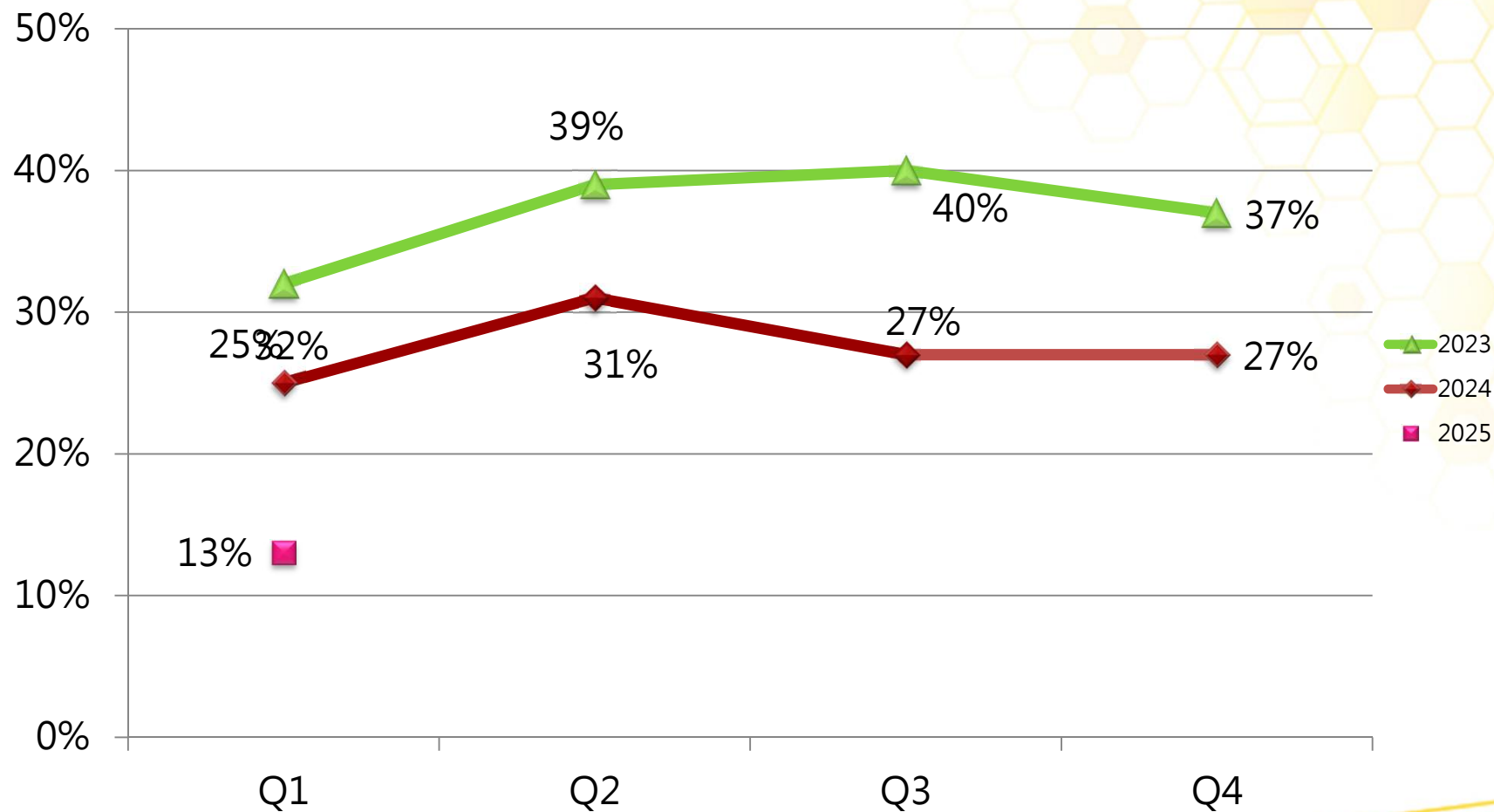
2023~2025 Monthly Revenue Trends



2022~2024 Quarterly Revenue Trends

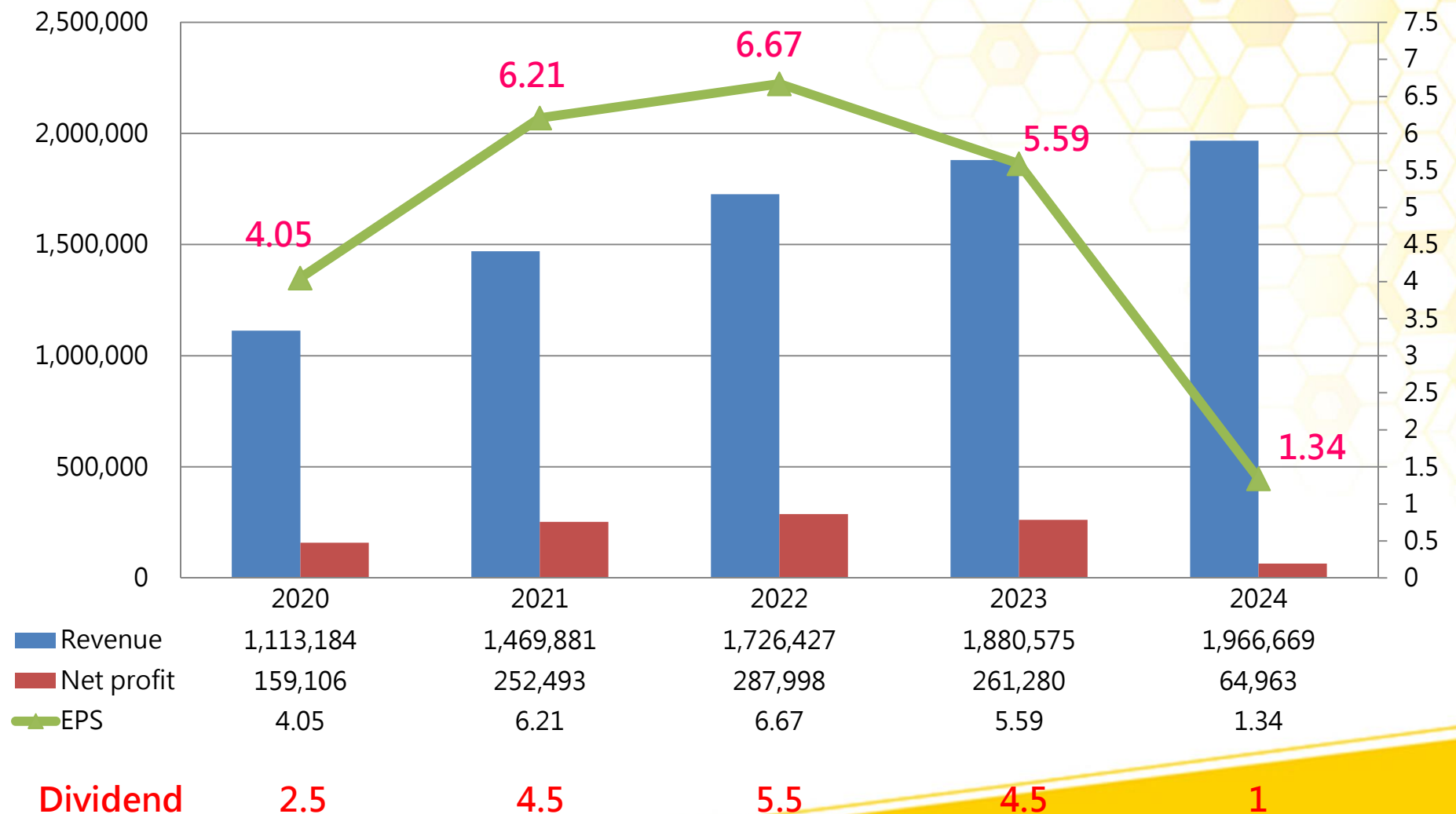


2022~2024 Quarterly Margin



Profitability & Dividend in the past five years

(In NT\$ thousand)





Thank you for listening.



Your best R&D partner

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