

Zhen Ding Technology Holding (4958 TT)

3Q23 Financial Results

November 6th, 2023



Safe Harbor Notice

- Zhen Ding Technology Holding's statements of its current expectations are forward looking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.



AGENDA

3Q23 Financial Results

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Business Roadmap and Execution of IC Substrate

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3Q23 Financial Results





3Q23 Financial Results

				(Unit: NT\$ million, unless otherwise stated)				
	3Q23	2Q23	3Q22	QoQ (%)	YoY (%)			
Revenue	41,919	23,537	50,004	78.1%	-16.2%			
Gross Profit	8,583	2,123	12,986	304.3%	-33.9%			
Gross Margin	20.5%	9.0%	26.0%	+11.5ppts	-5.5ppts			
Operating Expense	5,008	4,011	4,919	24.9%	1.8%			
Operating Profit	3,575	(1,888)	8,067		-55.7%			
Operating Margin	8.5%	-8.0%	16.1%	+16.5ppts	-7.6ppts			
Non-Operating Income/Expense	222	1,393	345	-84.0%	-35.5%			
Net Income	3,349	150	7,172	2,127.3%	-53.3%			
Net Margin	8.0%	0.6%	14.3%	+7.4ppts	-6.3ppts			
Net Income to Parent	2,271	(90)	4,985		-54.4%			
EPS (NT\$) ⁽¹⁾	2.40	-0.09	5.27					
Cash Inflow Generated from					20.0%			
Operations	5,143	3,471	8,410	47.8%	-39.0%			
Capital Expenditures	4,801	6,758	8,217	-29.0%	-41.6%			
Cash and Cash Equivalents (2)	59,979	59,916	48,957	0.1%	22.5%			
ROE(%) ⁽³⁾	10.0%	0.5%	23.8%	+9.5ppts	-13.8ppts			

Note : (1) Weighted Average Shares outstanding as of 3Q23 : 944,956 thousand shares (2) Including current financial assets at amortized cost (time deposits, etc.) (3) ROE is annualized data calculated based on the average of equity attributable to owners of parent



1Q~3Q23 Financial Results

		(Unit: NT\$ million, unless otherwise stat					
	1-3Q23	1-3Q22	YoY (%)				
Revenue	97,002	118,454	-18.1%				
Gross Profit	15,781	25,975	-39.2%				
Gross Margin	16.3%	21.9%	-5.7ppts				
Operating Expense	12,875	12,222	5.3%				
Operating Profit	2,905	13,753	-78.9%				
Operating Margin	3.0%	11.6%	-8.6ppts				
Non-Operating Income/Expense	1,298	1,995	-35.0%				
Net Income	4,362	13,678	-68.1%				
Net Margin	4.5%	11.6%	-7.0ppts				
Net Income to Parent	2,685	9,492	-71.7%				
EPS (NT\$) ⁽¹⁾	2.84	10.04					
Cash Inflow Generated from Operations	20,360	29,853	-31.8%				
Capital Expenditures	19,485	23,462	-20.0%				
Cash and Cash Equivalents (2)	59,979	48,957	22.5%				
ROE(%) ⁽³⁾	4.4%	15.1%	-10.7ppts				

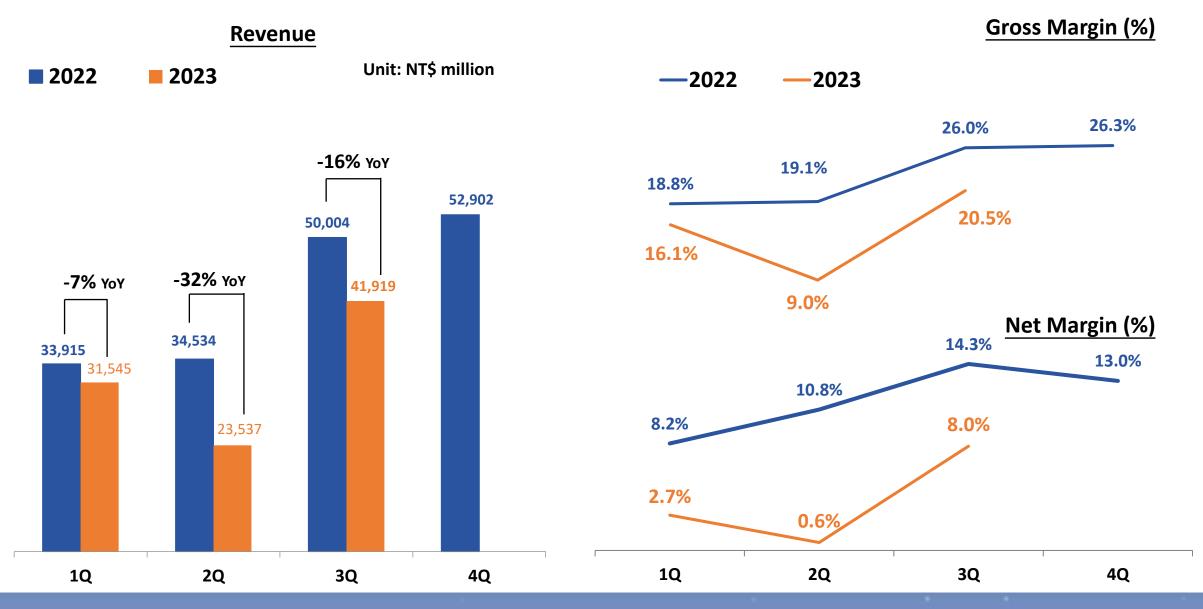
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Quarterly Operation Result



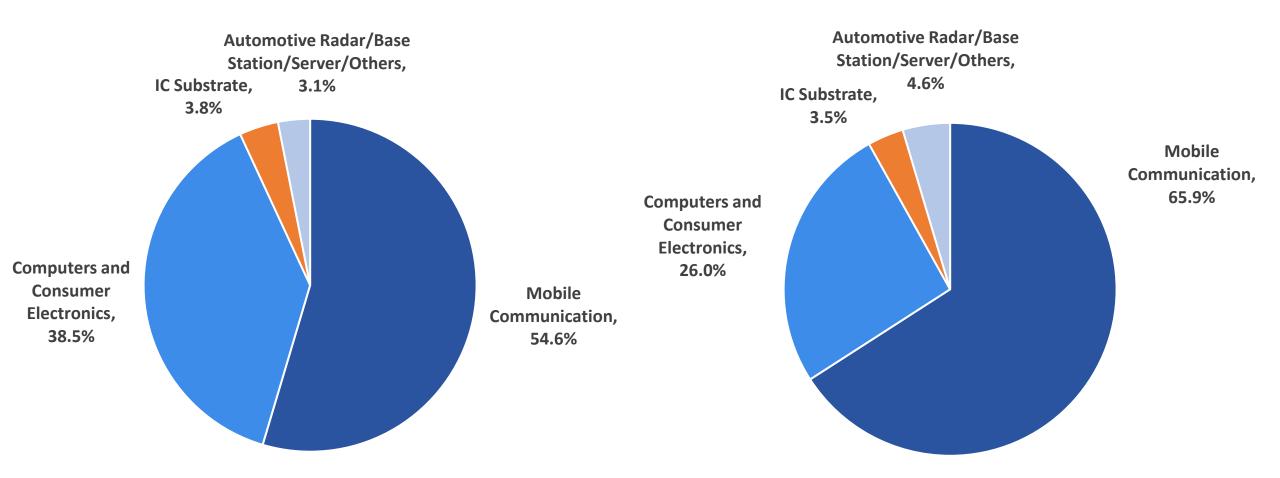
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Revenue Breakdown – By Applications

1Q-3Q22 Revenue NT\$118.5bn

1Q-3Q23 Revenue NT\$97.0bn





Consolidated Balance Sheet and Key Indices

	2023-9-3	30	2022-9-	30	Unit: NT\$ million Change			
-	Amount	%	Amount	%	Amount	%		
Cash and Cash Equivalents ⁽²⁾	59,979	24.2%	48,957	21.3%	11,022	+2.9ppts		
Notes & Accounts Receivable	32,141	13.0%	36,326	15.8%	-4,185	-2.8ppts		
Inventories	22,311	9.0%	24,053	10.5%	-1,742	-1.5ppts		
Property, Plant and Equipment ⁽³⁾	112,780	45.5%	99,514	43.3%	13,266	+2.2ppts		
Total Assets	247,800	100%	229,707	100.0%	18,093			
Debt	51,640	20.8%	46,515	20.3%	5,125	+0.6ppts		
Notes & Accounts Payable	44,196	17.8%	39,774	17.3%	4,422	+0.5ppts		
Total Liabilities	113,329	45.7%	101,874	44.3%	11,455			
Total Equity	134,471	54.3%	127,833	55.7%	6,638	-1.4ppts		
Key Indices								
A/R Turnover Days	87		85		2			
Inventory Turnover Days	72		65		7			
Current Ratio (x)	1.41		1.52		(0.11)			
PPE Turnover (x) ⁽⁴⁾	1.21		1.70		(0.49)			

Note : (1) Weighted Average Shares outstanding as of 3Q23 : 944,956 thousand shares (2) Including current financial assets at amortized cost (time deposits, etc.) (3) Property, Plant and Equipment includes investment property (4) PPE Turnover = annualized net revenue / average net property, plant and equipment



2011-2022 Financial Summary

Unit: NT\$ million

Period	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Revenue	44,280	55,369	64,483	75,954	85,738	82,393	109,238	117,913	120,068	131,279	155,022	171,356
Gross Profit	6,993	10,775	11,894	14,323	16,427	12,542	17,833	26,061	27,222	26,584	30,537	39,888
Net Income	2,356	4,056	5,471	6,735	7,731	3,456	6,772	11,536	12,402	11,508	13,694	20,535
Net Income to Parent	2,356	4,056	5,471	6,735	7,731	3,456	5,172	8,448	8,685	8,095	9,651	14,197
Depreciation & Amortization	3,008	3,375	3,742	4,293	4,850	5,295	5,679	6,820	7,955	8,405	11,875	14,638
EPS (NT\$)	3.30	5.49	7.41	9.12	9.80	4.29	6.43	10.50	9.93	8.90	10.21	15.02
DPS (NT\$)	1.50	2.50	3.00	3.67	4.50	2.20	3.30	4.46	4.50	4.50	5.00	6.00
Payout Ratio (%)	45.5%	45.5%	40.5%	40.2%	45.9%	51.3%	51.3%	42.5%	45.3%	50.6%	49.0%	40.0%
Cash and Cash Equivalents*	4,084	8,756	10,016	23,482	31,572	30,241	33,296	49,154	43,071	46,775	35,179	57,599
Property, Plant and Equipment	27,097	26,637	27,843	30,073	32,074	32,262	36,681	41,913	46,243	68,177	86,073	104,814
Capital	6,699	7,034	7,386	7,386	8,047	8,047	8,047	8,047	9,022	9,470	9,470	9,470
ROE (%)	15.34%	21.27%	23.77%	23.33%	20.82%	8.59%	14.49%	17.30%	14.72%	11.84%	12.59%	16.67%
Debt Ratio (%)	67.03%	66.28%	64.06%	62.54%	53.70%	59.72%	55.33%	44.25%	35.41%	42.56%	42.01%	42.87%

* Including current financial assets at amortized cost (time deposits, etc.)



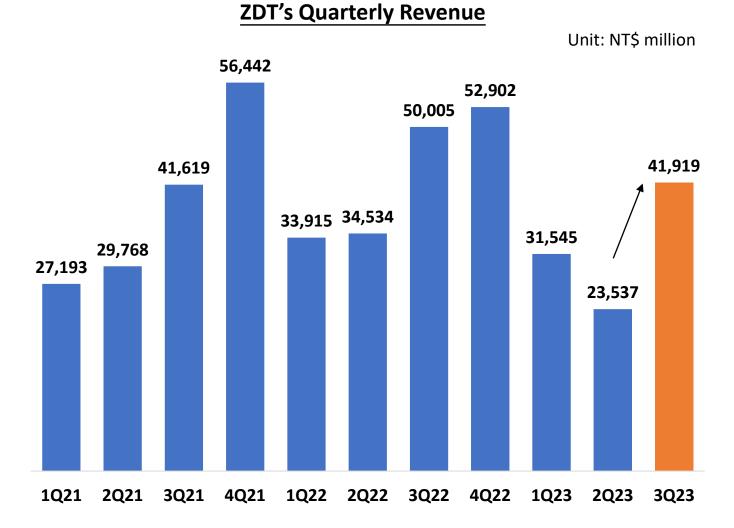
Company Strategy

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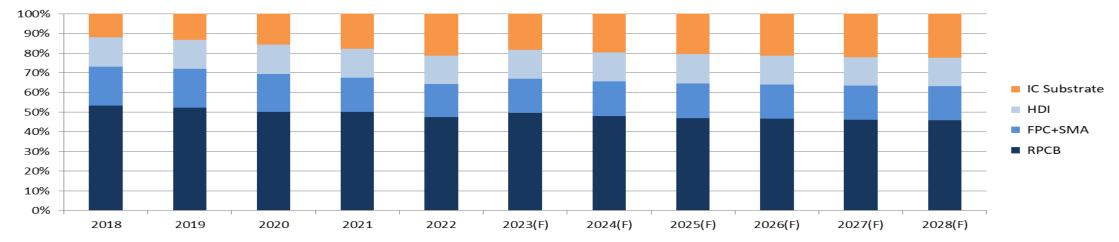




We faced headwinds in 1H23 and focused on product development and operational efficiency optimization: Affected by weak demand in consumer electronics and customer product transitions, our 1H23 revenue decreased in line with industry trends. However, during this period, we have been focusing on product development and efficiency optimization. These efforts drove a year-on-year increase in gross margin for Mobile Communication products despite the economic downturn in the first half of the year.

Expect a moderate recovery in 2H23: Driven by the preparation of inventories for customers' new products, 3Q23 revenue for Mobile Communication and Computers & Consumer Electronics both increased by over 80% QoQ. Meanwhile, revenue for IC Substrate and Automotive Radar/Base Station/Server also delivered double-digit QoQ growth. That said, our overall utilization rate has maintained at a high level currently, and we expect a moderate recovery in the 2H23.

All PCB Segments Will Resume Growth Next Year



Unit: US\$ million

Product	ltem	2018	2019	2020	2021	2022	2023(F)	2024(F)	2025(F)	2026(F)	2027(F)	2028(F)	2023-2028	
													CAGR	
	Value	33,225	31,969	32,674	40,641	38,720	34,542	34,986	36,576	39,025	41,768	42,486	4.20%	
RPCB	%	53.20%	52.10%	50.10%	50.20%	47.40%	49.69%	47.98%	47.04%	46.61%	46.23%	45.97%	4.20%	
	Value	12,395	12,195	12,483	14,058	13,842	12,032	12,813	13,644	14,530	15,473	15,860	5.70%	
FPC+SMA	%	19.90%	19.90%	19.10%	17.40%	16.90%	17.31%	17.57%	17.55%	17.35%	17.13%	17.16%		
	Value	9,222	9,008	9,874	11,811	11,763	10,131	10,795	11,503	12,257	13,061	13,361	5.70%	
HDI	%	14.80%	14.70%	15.10%	14.60%	14.40%	14.57%	14.80%	14.80%	14.64%	14.46%	14.46%		
IC	Value	7,554	8,139	10,188	14,410	17,415	12,809	14,327	16,024	17,923	20,046	20,720	10.10%	
Substrate	%	12.10%	13.30%	15.60%	17.80%	21.30%	18.43%	19.65%	20.61%	21.40%	22.19%	22.42%		
Тс	otal	62,396	61,311	65,219	80,920	81,740	69,514	72,921	77,747	83,735	90,348	92,427	5.90%	
YoY C	hange (%)	6.04%	-1.74%	6.37%	24.07%	1.01%	-14.96%	4.90%	6.62%	7.70%	7.90%	2.30%	5.90%	

Source : Prismark (2023/10) *Forecast Data is calculated based on Prismark's estimation

臻鼎科技控股 Zhen Ding Tech. Holding



Our One ZDT Growth Strategy

Keep creating One ZDT synergies

Product

Offer complete product lines for diversified applications. Co-develop products with customers and provide them best product solutions

Manufacture

Multiple manufacturing sites to fulfill clients' needs, offering flexibility in adjusting capacity

Management

Introduce smart management system into each fab in phases to optimize production efficiency and yield

Talent

Develop comprehensive talent training and promotion programs. Flexibly assign outstanding talents to help develop new business units

Develop new application markets with customers

ADAS



Cloud Datacenter



Low-earth-orbit Satellite



Metaverse



技控版 Actively Develop Server and Automotive Applications



- Based on current customer orders and those in development, ZDT aims to achieve **double-digit** revenue CAGR for server applications over the next five years.
- Growth Strategy:
 - Increase the order allocation at existing customers
 - Offer products for new server platforms of all three major architectures
 - In response to the China+1 customer demand, we certifies the Huai'an and BoardTek fabs simultaneously, and will transfer the technology to the Thailand fab in the future.
 - Gradually upgrade product portfolio and expand product applications from servers to storage/switch, and develop high-end GPU products.



- ZDT aims to be a key promoter of automotive autonomy, intelligence, and electrification. Leveraging a 40% market share in millimeter-wave radar shipments and the experience in massproducing high-end automotive PCBs, ZDT aims to achieve **doubledigit** revenue CAGR for automotive PCBs over the next five years.
- Growth Strategy:
 - Develop advanced applications for ADAS (4D millimeterwave imaging) radar PCBs and high-end communication modules
 - Offer products for advanced ADAS Domain Control Unit and establish strategic partnerships with the world's top three companies
 - Increase the order allocation at existing customers for the FPC of EV batteries
 - Add new capacity in Thailand and onboard global customers



The Four New Fabs to Drive Future Growth



Qinghuangdao BT Substrate Fab: FC-CSP/WB-CSP/Memory

Shenzhen ABF Substrate Fab: FCBGA

Kaohsiung Luzhu Science Park: FPC and Advanced Module Production Line

Huai'an Park 3: High-end HDI/MSAP



Prachinburi Province, Thailand.

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Strategic Collaboration with Local Partner

- In response to customer demands and to expand the group's global footprint.
- Location will be in Prachinburi Province, Thailand.
- The groundbreaking ceremony is scheduled on December 12th, 2023. Phase 1 investment amount totaled US\$250 million.
- Plan to enter trail production in 1H25.



Business Roadmap and Execution of IC Substrate



IC Substrate Business Update

- Inventories for most BT customers have returned to roughly normal levels; ABF may start to recover at the end of the year:
 - Most BT customers' inventory days have returned to roughly normal levels, and we have made progress in winning important memory customers. As a result, we are optimistic about the recovery of the BT business.
 - The ABF market continues to perform well in certain applications such as AI and HPC. Overall industry may start to recover at year-end.
- Reflecting the industry's supply and demand dynamics, the development of the IC substrate industry is expected to be delayed by 1.5 years from previous expectation:
 - The long-term prospects of the semiconductor industry remain promising. Leading companies such as TSMC and Intel continue to expand their production capacities.
 - In terms of IC substrates, in the mid-to low-end market, there are many new entrants, and production capacity is largely concentrated in mainland China, lacking the ability and experience to expand internationally to serve global customers. In the mid-to high-end market, despite the fluctuations in the near term, the industry may still be in shortage in the mid-to long-term.

Receiving certifications from international customers:

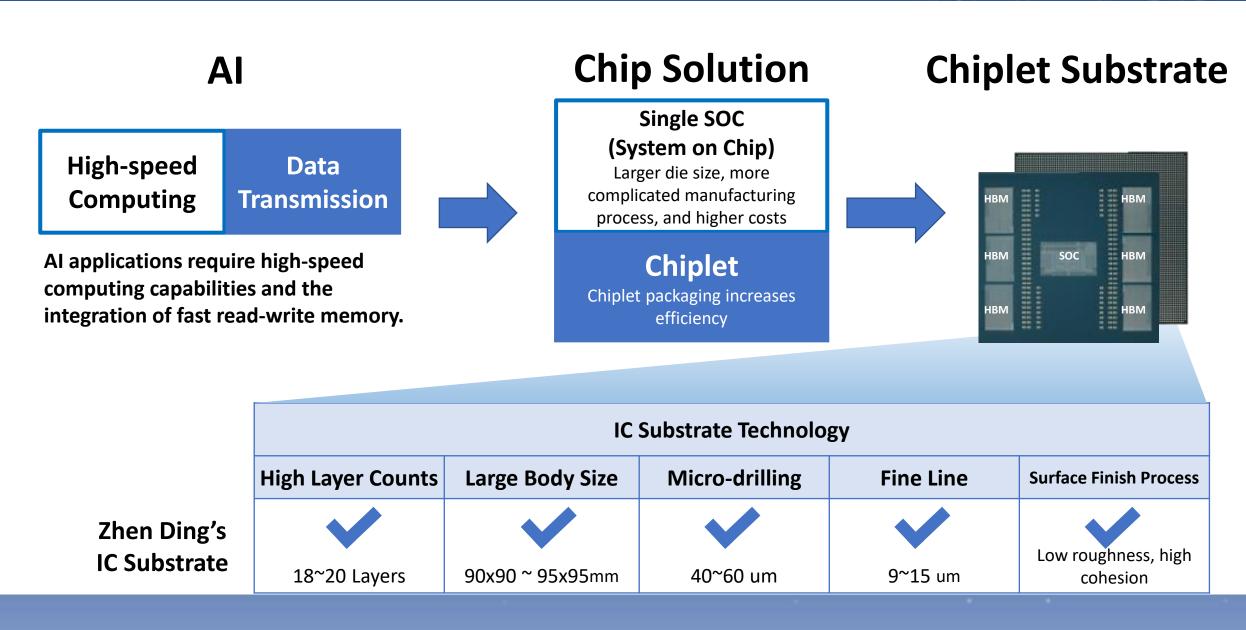
The semiconductor industry is predominantly reliant on international clients. We have been successfully obtaining certifications from international customers, including those from the United States, Europe, Japan, and China. Customers have shown a high level of recognition for our new smart fab.

Focusing on developing high density and fine line products:

- For ABF substrates, we have collaborated with customers to develop high-end substrates for Chiplet. Currently, we are shipping products with 18-20 layers and a maximum body size of 92mm x 92mm to customers. Within just 6 months, our yield has improved to on par with Tier 1 ABF substrate suppliers. We plan to further advance our products to over 20 layers and over 100mm x 100mm body size in the future.
- For BT substrates, we can offer fine-line 6/8um Embedded Trace Substrate (ETS), and the yield is also on par with Tier 1 players.



AI Application – Chiplet Substrate





Automotive IC Substrate

Intelligence	DCU	Chip	Packaging	ZDT's IC Substrate
	 Autopilot DCU Cockpit DCU Sensor mmWave Radar Laser Radar Camera 	Autopilot Al Chip Smart Cockpit Chip DCU ChipCMOS Storage Chip ADAS ChipImage: Chip chip chip chip chip chip chip chip c	FCBGA CSP	FCBGA
Connectivity	 Communication Module Remote Communication Box Internet of Vehicle 5G Module 	Smart Cockpit Chip	CSP	17x17~75x75mm FCCSP 2~4L 7x7~27x27mm
Information	 Display System HUD AR/VR NFC 	Smart Cockpit Chip Storage Chip	FCBGA CSP	WBCSP
				2~4L 7x7~27x27mm



IC Substrate Capacity Expansion Plan

		2023			2024				2025				2026				
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
			Instal	lation													
SZ ABF	Fab 1 (Mid to high- end products)	Sa	ample ce	ertificati	on												
Substrate Plant (Two Fabs'				Mass	product	ion, targ	get yield	: compa	rable to	tier 1 p	eers					rget yie er 1 pee	
floor area in total: 170,000 m ²)	Fab 2											Installation					
170,000 m ⁻)	(High end products)												Sample certification				
														Γ	Mass pro	oductior	
QHD BT Substrate Plant	Fab 1	Industry Leading Quality															
(Two Fab's floor area in total: 60,000 m ²)	Fab 2	Mas	ss Produ	ction	Ut	ilization 60%+	at	Utiliz at 8	ation 0%+								



IC Substrate Goals









IC Substrate Capex:

Plan to invest NT\$60bn from 2022~2027

IC Substrate Revenue:

2023~2027 Revenue CAGR >50%

IC Substrate Revenue:

Account for 15 %+/- of company's consolidated revenue in 2027

IC Substrate Market Share:

Aim to become one of the global top 5 companies in the IC substrate market in 2030



Q&A



THANK YOU

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