

Investor Presentation

December 13, 2023

- Forcera's statements of its current expectations are forward looking statement 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 statements, whether as a result of new information, future events, or otherwise.
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- Opening company profileDr. CY Ma
- ☐ Market position & part application Starsky Wang President

Chairman

- Business performance
- Semiconductor market outlook & company strategic plans
 - > capabilities
 - capacity
- Business outlook
- ☐ Summary Dr. CY Ma Chairman
- □ Q&A Management team





Opening – company profile

Company profile

Forcera Materials Co., Ltd.



■ Established: 1998

■ Mfg. location: Hsinchu, Taiwan

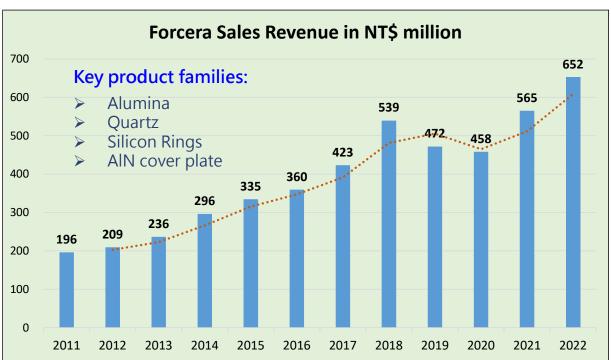
■ Capital: NT\$ 282 million

Chairman: Dr. CY Ma

President: Starsky Wang

■ No. of employee: 170

■ Business focus: semi industry





 An OEM certified, semi grade fine ceramic chamber part solution provider with core technologies integrating from <u>ceramic material processing</u> through <u>precision</u> <u>machining</u>, <u>surface treatment</u>, and <u>part clean & etching</u>

FCERA Executive team

Chairman Dr. CY Ma

Education:

Ph.D. Metallurgy, Stuttgart university, Germany

Professional experiences:

- President, Solar Applied Materials Tech. Corp.
- President, Touch Micro-system Tech. Corp.
- Head of Research Division, CSIST
- Awarded with Outstanding Young Engineer Award by the Chinese Institute of Engineers in 1997

President Starsky Wang

Education:

Master in International MBA, NCCU, Taiwan

Professional experiences:

- Supply Chain Director, Walsin Lihwa Corp.
- Supply Chain Mgr. & SAP Project Mgr., Asia Pacific, Goodyear Tire & Rubber Company
- APICS certified at CPIM level
- Six Sigma Black Belt certified

Technical Consultant Dr WT Liu

Education:

Ph.D. Metallurgy, NTHU, Taiwan

Professional experiences:

- R&D Head, Solar Applied Materials Tech. Corp.
- R&D Director, Delta-optoelectronics
- Senior Researcher, ITRI

Admin/Finance Director Alex Chen

Education:

Bachelor of Accounting. NCKU, Taiwan

Professional experiences:

- Audit Mgr., Chander Electronics Corp.
- Finance Mgr., AirVast Technology Corp.
- Finance Mgr., Taiwan Hi-Tech. Corp.
- Successful IPO expertise & experiences

Manufacturing Director Paul Chuang

Education:

Bachelor of Industrial & Info.Mgt.,NCKU,Taiwan

Professional experiences:

- Mgr. SCM, Solar Applied Materials Tech. Corp.
- Chief Engineer, YIEH United Steel Corp.

Sr. Mgr, Technology Dev.

Dr. Tianfu Chiang

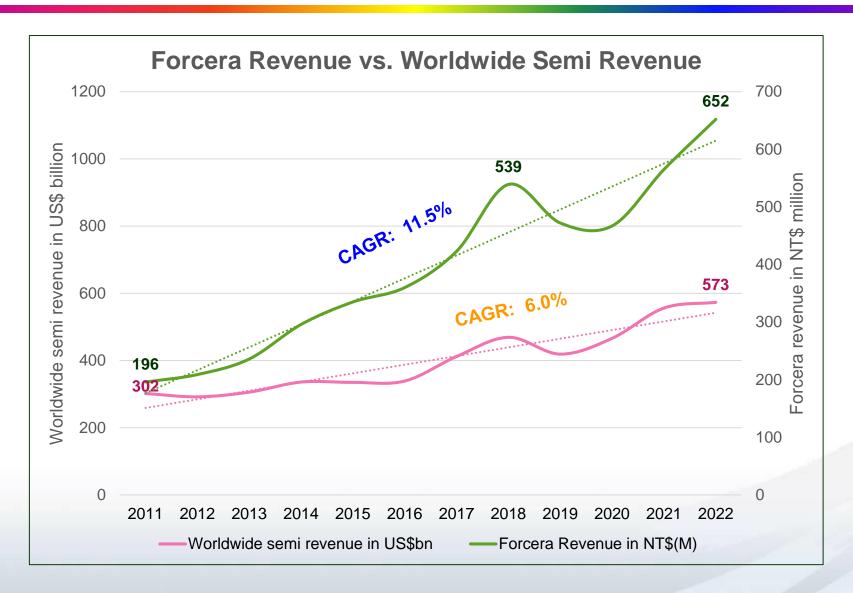
Education:

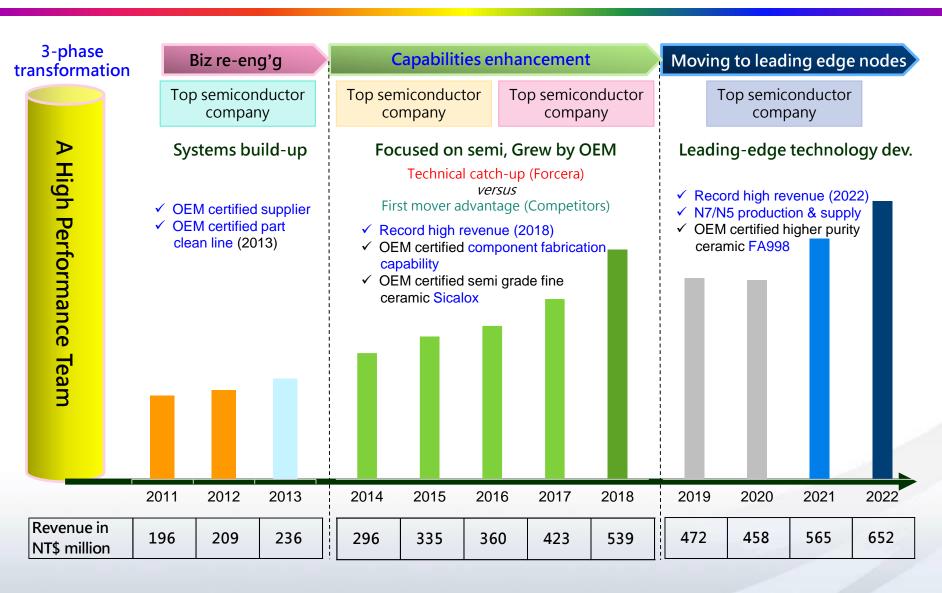
Ph.D. Metallurgy, NTHU, Taiwan

Professional experiences:

- RD Mgr., LUXNET Mfg., Co., Ltd
- Sr. Mgr., Motech Industries Inc.
- Deputy Mgr., Centrotherm Asia Pte Ltd

 A professional team with skill set combination of <u>Material Science</u>, <u>Chemistry Engineering</u>, Operations Management, Six Sigma, Mechanical Engineering, Information Tech., and Financial Management to support Forcera's sustainable growth



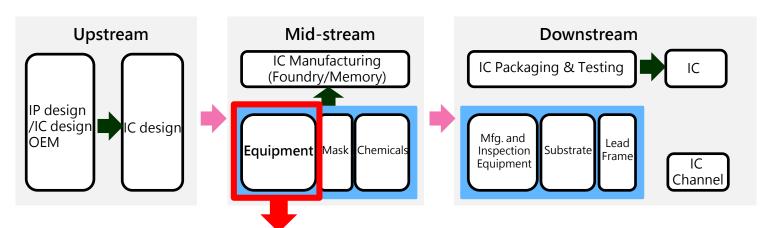




Market position & part application

FRCER Market position

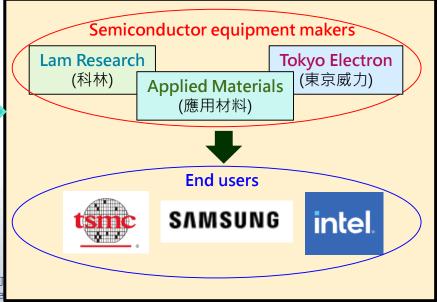
Semiconductor Value Chain:



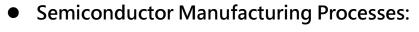
Front-end Process Equipment Parts:

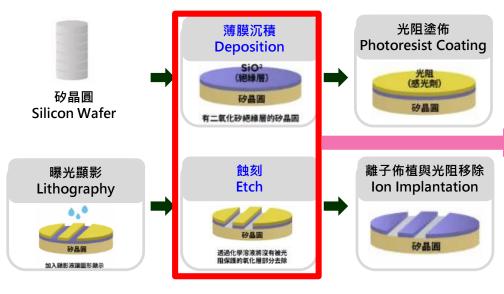


Semiconductor equipment supply chain:



FORCERA parts application (front end)





Part Properties & Quality Requirements



✓ High cleanliness level ✓ High density (Quartz) (Si Rings)

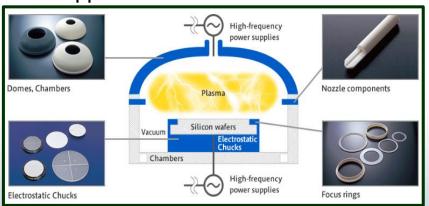


(AIN Cover Plate)

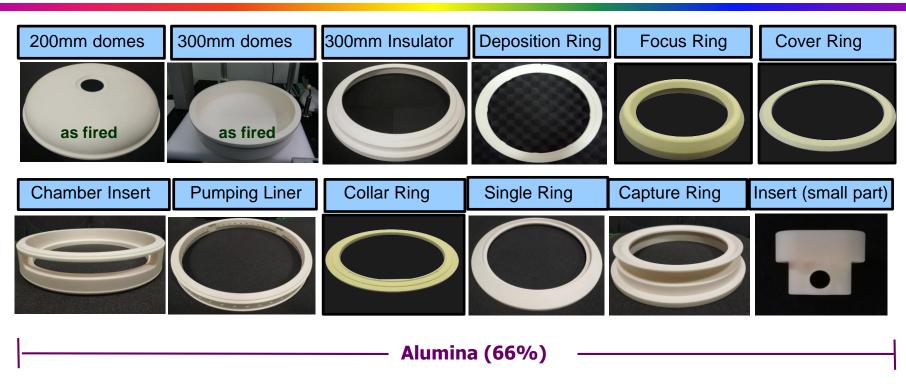




Parts application



Forcera provides excellent material properties to withstand the extreme environments in plasma etch and deposition chambers



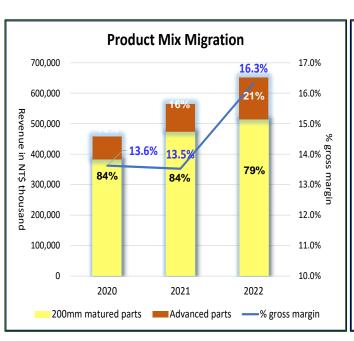


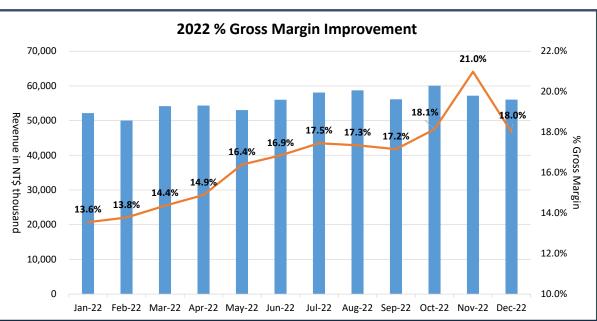


Business performance



Product portfolios optimization





Improving % gross margin through product portfolios optimization

FRCERA Income statement

int % 99 100.0%	Amount 651,728	%	Amount	%	Amount	%	YoY %
99 100.0%	651 728					70	
	031,720	100.0%	317,363	100.0%	307,350	100.0%	-3.2%
40 86.5%	545,217	83.7%	269,006	84.8%	253,731	82.6%	-5.7%
9 13.5%	106,511	16.3%	48,357	15.2%	53,619	17.4%	+ 2.2 ppts
7 10.3%	72,414	11.1%	34,133	10.8%	36,429	11.9%	6.7%
2 3.3%	34,098	5.2%	14,224	4.5%	17,190	5.6%	+ 1.1 ppts
)	8,474		3,738		1,287		
2 2.8%	42,572	6.5%	17,962	5.7%	18,477	6.0%	
2 2.8%	47,942	7.4%	24,845	7.8%	17,326	5.6%	- 2.2 ppts
	2.01		0.93		0.63		(0.30)
559 560 332	13.5% 10.3% 10.3% 52 3.3% 60) 32 2.8%	13.5% 106,511 10.3% 72,414 152 3.3% 34,098 160) 8,474 162 2.8% 42,572 163 2.8% 47,942	10.5% 106,511 16.3% 72,414 11.1% 34,098 5.2% 8,474 42,572 6.5% 47,942 7.4%	59 13.5% 106,511 16.3% 48,357 97 10.3% 72,414 11.1% 34,133 52 3.3% 34,098 5.2% 14,224 60) 8,474 3,738 32 2.8% 42,572 6.5% 17,962 32 2.8% 47,942 7.4% 24,845	59 13.5% 106,511 16.3% 48,357 15.2% 97 10.3% 72,414 11.1% 34,133 10.8% 52 3.3% 34,098 5.2% 14,224 4.5% 60) 8,474 3,738 32 2.8% 42,572 6.5% 17,962 5.7% 32 2.8% 47,942 7.4% 24,845 7.8%	59 13.5% 106,511 16.3% 48,357 15.2% 53,619 97 10.3% 72,414 11.1% 34,133 10.8% 36,429 52 3.3% 34,098 5.2% 14,224 4.5% 17,190 60) 8,474 3,738 1,287 32 2.8% 42,572 6.5% 17,962 5.7% 18,477 32 2.8% 47,942 7.4% 24,845 7.8% 17,326	59 13.5% 106,511 16.3% 48,357 15.2% 53,619 17.4% 67 10.3% 72,414 11.1% 34,133 10.8% 36,429 11.9% 52 3.3% 34,098 5.2% 14,224 4.5% 17,190 5.6% 60 8,474 3,738 1,287 32 2.8% 42,572 6.5% 17,962 5.7% 18,477 6.0% 32 2.8% 47,942 7.4% 24,845 7.8% 17,326 5.6%

1H23 vs. 1H22:

Revenue 3.2% ↓

Operating income 20% †

EPS 0.3元 ↓

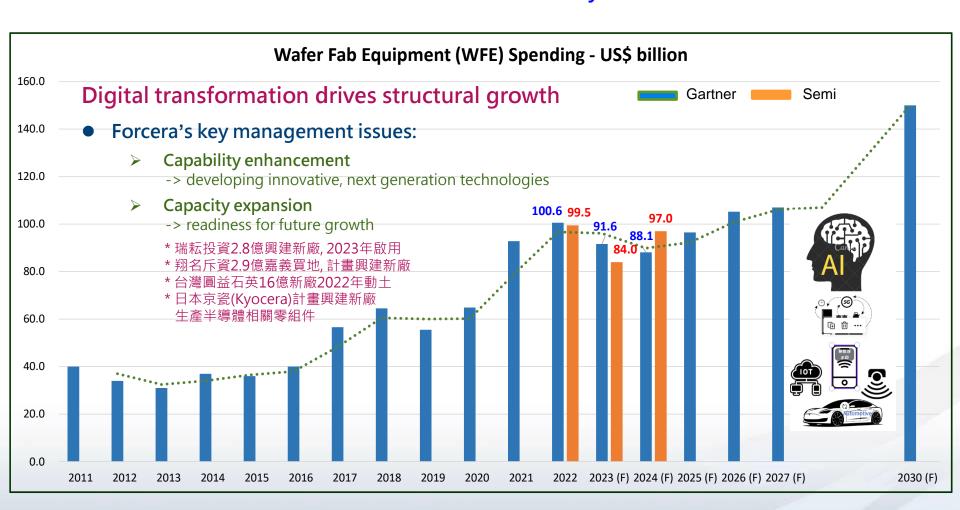
Balance sheets & key indices

	June 30, 2023		December 2	December 31, 2022		December 31, 2021	
(NTD in thousand)	Amount	%	Amount	%	Amount	%	
Cash, Current Financial Assets	80,834	11.9%	103,168	14.5%	88,235	13.1%	
Accounts Receivable	59,578	8.8%	78,814	11.1%	87,108	12.9%	
Inventory	156,492	23.0%	154,768	21.7%	149,710	22.1%	
Property, plant and equipment	334,653	49.2%	348,813	49.0%	331,395	49.0%	
Total Assets	\$680,704	100.0%	\$712,393	100.0%	\$675,923	100.0%	
Accounts Payable	111,023	16.3%	163,577	23.0%	152,487	22.6%	
Current Liabilities	157,881	23.2%	207,227	29.1%	197,219	29.2%	
Total Liabilities	258,333	38.0%	316,573	44.4%	317,493	47.0%	
Total Shareholders' Equity	422,371	62.0%	395,820	55.6%	358,430	53.0%	
Key Indices							
Debt Ratio	38.0	%	44.49	%	47.0	%	
Current Ratio	204.7	7%	165.8	3%	170.9	9%	
Quick Ratio	105.6	5%	91.19	%	95.0	%	



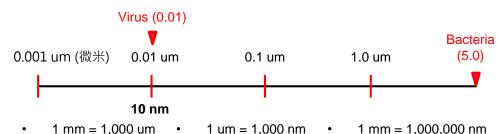
Semiconductor market outlook & company strategic plans

Global semiconductor market to double to \$1 trillion by 2030 vs. the \$573 billion in 2022



FCCER Semi grade fine ceramic technologies

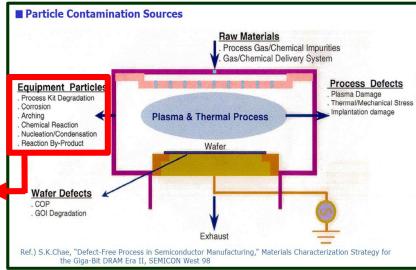
Particle Size Measurement

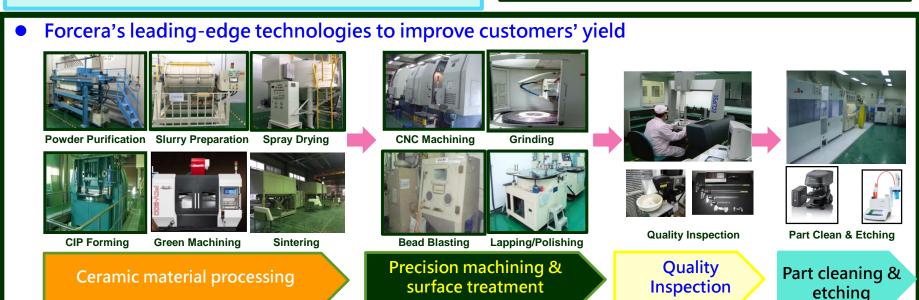


Forcera's advantage in differentiation:

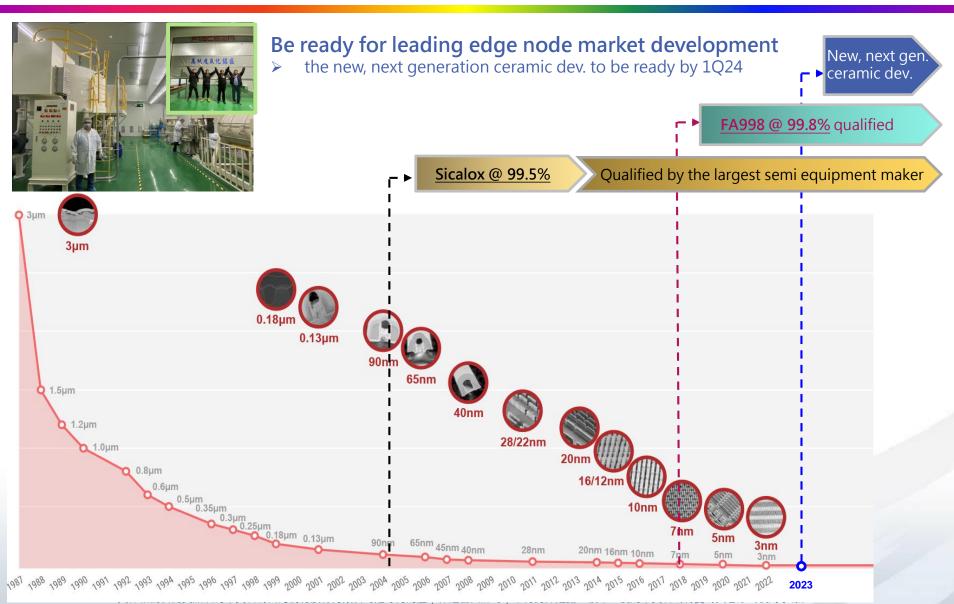
One of very limited number of semi grade fine ceramic manufacturers worldwide. The three (3) core technologies integrated as whole to minimize particle risk effectively, leading to improved IC manufacturing yield

Particle Sources in Semiconductor Mfg.

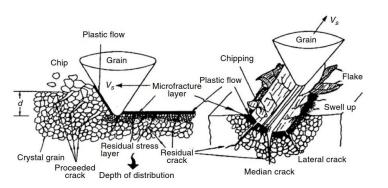




FINE ceramic development road map



FREER Precision machining & surface treatment



Unlike metals, ceramic is classified as brittle and more sensitive to cracks — Particle source

100 µm

Surface Hole quality 400x 400x 400x 400x



Traditional machining method



capability

Semi grade method: **OEM** certified machining & surface treatment capability (Forcera)

✓ Inspection

Leading technology, new business opportunity - part refurbishment & repair Traditional **Forcera** part clean Differentiation service Before After advantage Before refurbishment After Refurbishment provider refurbishment refurbishment ✓ material Cleaning Core tech. ✓ machining Bead blast ✓ cleaning Physical & Refurb. Minimal stock removal to improve product life Chemical Chemical method ✓ Refurb. ✓ Refurb. ✓ Repair Used Analytical ✓ Analytical ✓ Inspection

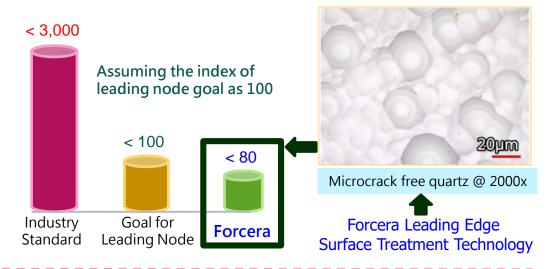
Parts

Part clean & etching technology

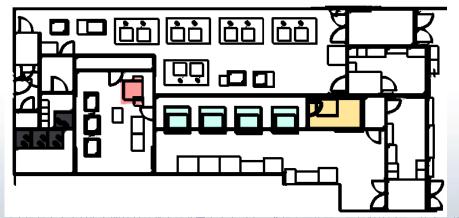
Existing Line – OEM certified



Surface particle number control (Quartz Part):



New Line for < 7nm (by June 2024)



- ✓ Clean room upgrade
- ✓ Real time particle check
- ✓ Baking oven upgrade
- ✓ Larger size tanks
- ✓ In compliance with OEM spec requirements

• Core tech.	Material Processing	Precision machining & surface treatment	Part clean & etching
Competence	The only semi grade, OEM certified fine ceramic material maker in Taiwan	Competitive advantage ✓ machining \ surface treatment ✓ analytical capability	OEM certified capability
Enhancement plan	Innovative, next generation material development	Continuous improvement	<7nm new line set up

Business strategy:

Objective

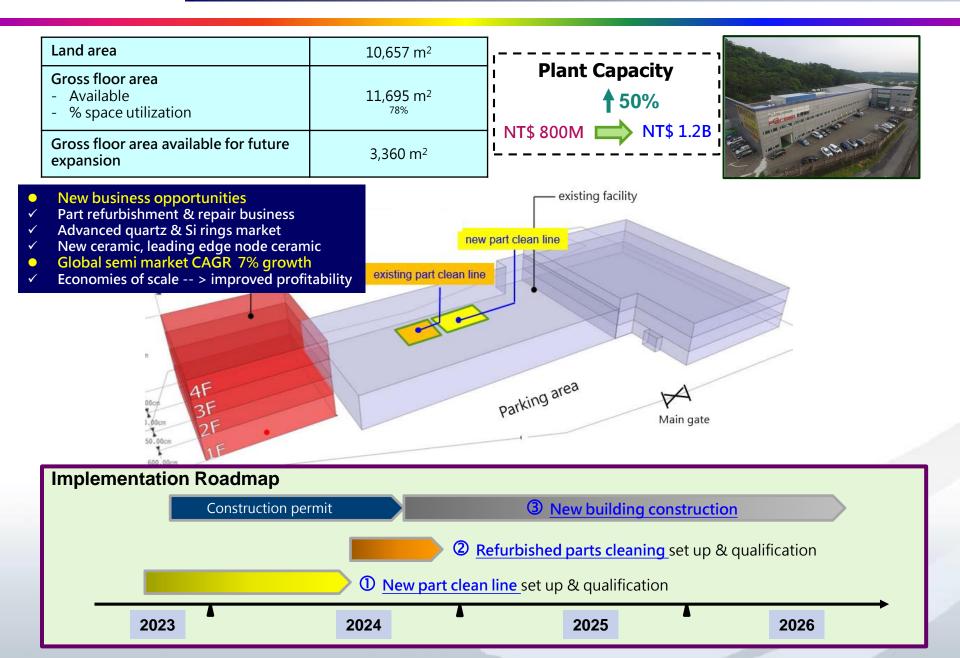
Technologies of material, precision machining, surface treatment, part clean & etching integrated as a whole to preempt our competitors

Growth strategy

- Fine ceramic new ceramic development, focusing on leading edge nodes, higher profit margin items
- 2) Advanced quartz & Si rings new market development based on our superior surface treatment technology, achieving economies of scale
- 3) Part refurbishment & repair a new business boundary for future growth



FORCERA plant capacity expansion





Business outlook



FRCERA Business outlook

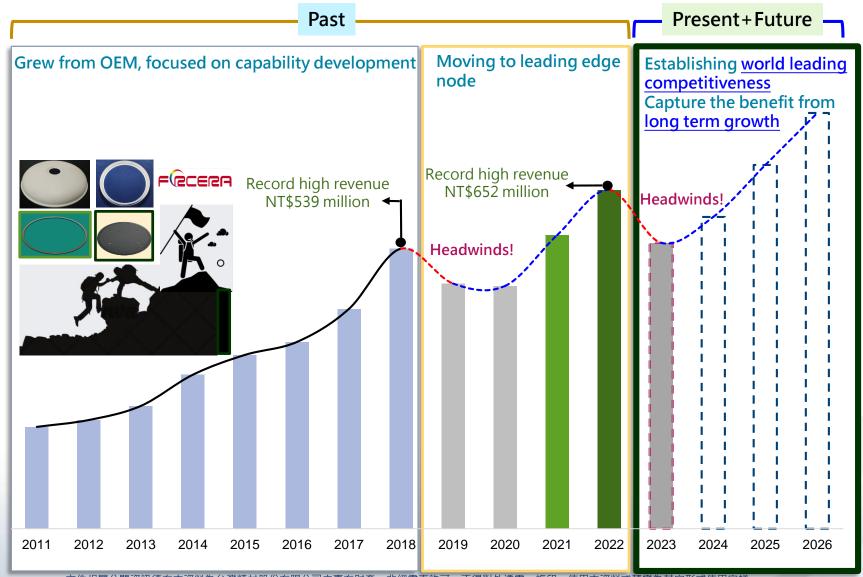
Time	Market research	Description	Company assessment
Mid to long term (2025 onwards)	With the benefit from AI and IoT, ch trillion by 2030 ~ <i>Applied Materials</i>		
Near term (2024)	Total IC Inventory Versus Utilization Total IC Inventory (\$B) Fab Utilization 100% 50% 50% 50% 70% 50% Total IC Inventory (\$B) Fab Utilization 100% 50% 50% 50% 50% 50% 50% 50	 Despite the improvement in IC sales semiconductor mfg. indicators remain soft. Fab utilization rate and capital expenditures continue to decline in 2H23 Semi Technsights Improving IC sales signaling a recovering from downturn with building momentum in 2024 	1H24-inventory correction moving to the end 2H24-recovery
2023	Fab Equipment Spending (Front End) US\$ Billion	 Weakening semiconductor demand and decreasing WFE spending. High inventory correction continues 	• 1H23 vs. 1H22: Revenue Operating EPS income 3.2% 20% 0.3元 ↓

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Summary







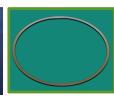




Forcera Materials Co., Ltd. 台灣精材股份有限公司











Thank you