

# 旺矽科技股份有限公司 櫃買中心法說會

2023.8.11

READY FOR THE TEST™

## Presentation Disclaimer

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The information herein contains forward-looking statements. We have based these forward-looking statements on our current expectations and projections about future events. Although we believe that these expectations and projections are reasonable, such forward-looking statements are inherently subject to risks, uncertainties and assumptions about us, including, among other things: the intensely competitive Semi-conductor, and LED industries and markets; Cyclical nature of the semiconductor industry; Risks associated with global business activities; General economic and political conditions. All financial figures discussed herein are prepared pursuant to IFRS. All audited figures will be publicly announced upon the completion of our audited process.

## 免責聲明

以下資訊包含前瞻性陳述，我們基於目前對未來事件的預期和預測做出了這些前瞻性陳述。儘管我們相信這些預期和預測是合理的，但這些前瞻性陳述本質上會受到以下風險和不確定性影響，包括但不限於：半導體和LED產業與市場的激烈競爭、半導體行業的周期性特性、全球業務活動所涉及的風險、整體經濟和政治環境。

此處討論的所有財務數字均根據國際財務報告準則(IFRS)編制，所有數字將在會計審計過程完成後公布。

## 議程



**營業內容- Business Contents- 董事長/總經理**

Probe Card

AST

Photonics Automation

Thermal

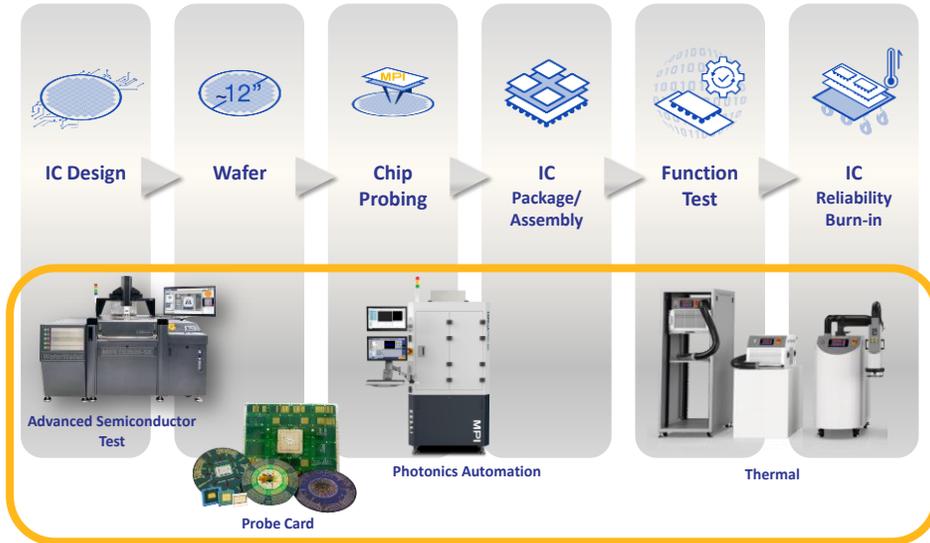


**財務報表- Financial Statements- 發言人**

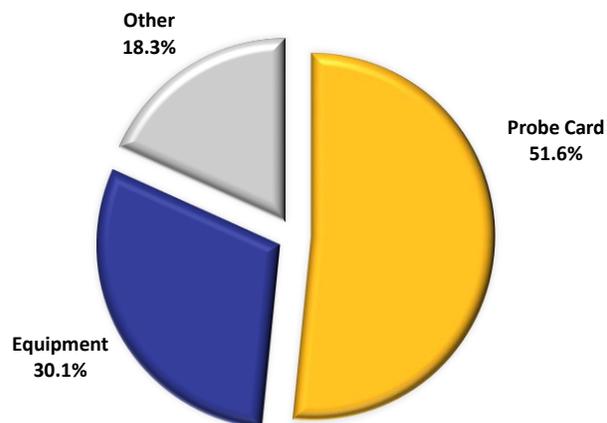


**經營策略- Business Strategy- 董事長**

## MPI-The Powerhouse of Testing Solutions



## 1H 2023 營收分布



**MPI**CORPORATION

# Probe Card

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## **MPI**Probe Card One Stop Shop

**Vertical / MEMS** Probe Card

**Cantilever** Probe Card



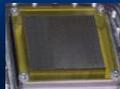
### Features



Fine Pitch



MEMS



High Pin Count



High Speed



Substrate



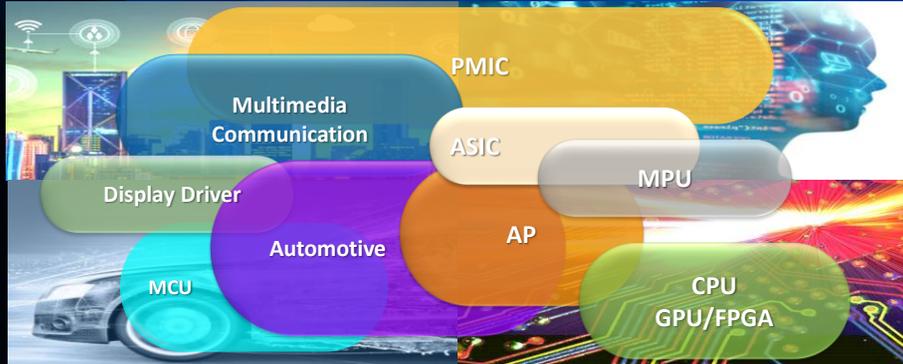
Hand-wired



RF

**Full range of products for the applications**

*sufficient coverage solutions to logic IC markets*



**快速增長的應用層面**

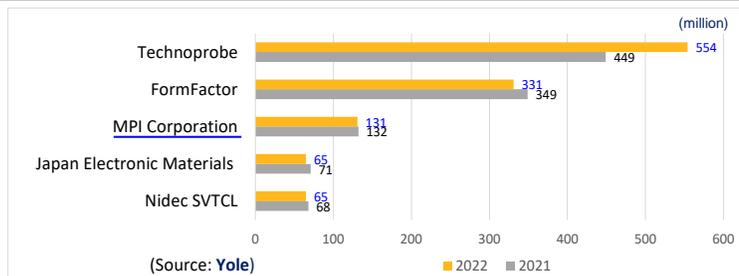


*Chance and Challenge*

Source: TSMC

## 前五大非記憶體探針卡供應商

(Rank)		2017	2018	2019	2020	2021	2022
Technoprobe	Italy	2	2	2	2	1	1
FormFactor, Inc.	USA	1	1	1	1	2	2
MPI Corporation	Taiwan	3	3	3	3	3	3
Japan Electronic Materials	Japan	4	4	5	5	4	4
Nidec SVTCL	Singapore	5	5	4	4	5	5



## Probe Card: 提供全方位解決方案

- Comprehensive Product Range for Circuit Testing** 全方位的產品布局  
 MPI provides omnidirectional products to global customers, including fine pitch CPC, high speed VPC and high pin count MEMS solutions.
- Solid Global Clientele** 堅實的國際合作夥伴  
 MPI works closely with worldwide market leaders, especially for the AI, HPC application related.
- Complete Probe Card Solution** 完整的探針卡整合方案  
 Provide probe head, substrate(MLO/MLC/MLOC) and PCB one-stop service.

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# 設備

- AST
- PA
- Thermal

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## MPI Advanced Semiconductor Test

Engineering Probe Systems  
and  
RF Probe Products



Applications & Industry Segments



Design Validation



Device Characterization



Failure Analysis



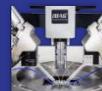
RF & mmW



High Power



Wafer Level Reliability



Silicon Photonics



Laser Cutter

## AST:獨特的市場領導者

- **Unique Global Position** 全球獨特的市場地位

Combining Analytical probing solution and RF measurement core technology , MPI is top solution provider for full range hi-frequency response measurement.

- **VOC Design** 客戶導向設計

Design based on Voice of the customer to full-fill customers' needs.

- **Complete Solution** 提供完整的解決方案

Various series of products to cover wide range applications include Device Modeling, RF & mmW, WLR, High-Power, Failure Analysis, Extreme temperature test ...etc.

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**MPI Photonics Automation**

The banner displays a row of five industrial testing machines. Below the machines, three application areas are highlighted with images and lists of services:

- Sensing**
  - Source: Opys
  - High Power VCSEL Testing
  - High Speed VCSEL Testing
- Communication**
  - Source: EXFO
  - VCSEL / Photo-Detector Testing
  - RF Character
  - SiPh Die/PKG Platform
- Micro Display**
  - uLED Mass Production Methodology
  - Panel testing platform development

## PA: 與市場先驅合作

- **Value Enhanced Product Lines** 客戶價值導向的產品線規劃

MPI's experienced RD team comes across lighting and electrical fields with automation core technology that enables us to develop leading market solutions ie VCSEL & Micro LED.

- **Solid Global Clientele** 穩固的全球客戶群

MPI works closely with market leaders and international brand names for most advanced testing solutions.

- **Continuous Product Innovation** 持續的產品創新

Non stop RD investments helps MPI to provide high value added products that tackles clients' testing bottleneck.

**MPI Thermal**  
Hot and Cold Air Flow Temperature Test

-100°C  +300°C

**ThermalAir Series**  
Temperature Testing Systems

Applications & Industry Segments

- Semiconductor
- Automotive
- Aerospace
- Telecommunications
- Fiber Optic
- Electronics
- Sensors
- Advanced Technology

The advertisement features a dark blue background with a white and yellow MPI Thermal logo at the top. Below the logo, the text 'Hot and Cold Air Flow Temperature Test' is displayed. A temperature range from -100°C to +300°C is shown with a rainbow arc. The 'ThermalAir Series' is highlighted as 'Temperature Testing Systems'. A row of six different testing equipment units is shown, ranging from a small benchtop unit to a large industrial cabinet. At the bottom, a horizontal strip titled 'Applications & Industry Segments' contains seven small images representing various industries: Semiconductor, Automotive, Aerospace, Telecommunications, Fiber Optic, Electronics, Sensors, and Advanced Technology.

## Thermal: 客戶導向

- **Innovational Temperature System** 創新的溫度測試系統

Ongoing R&D investments in platforms and improvements leads MPI to meet customer demands. Thermal systems have a number of patents to provide efficient energy saving products that helps clients to fulfill ESG responsibility.

- **Top Skillful RD Team** 頂尖優秀專業的研發團隊

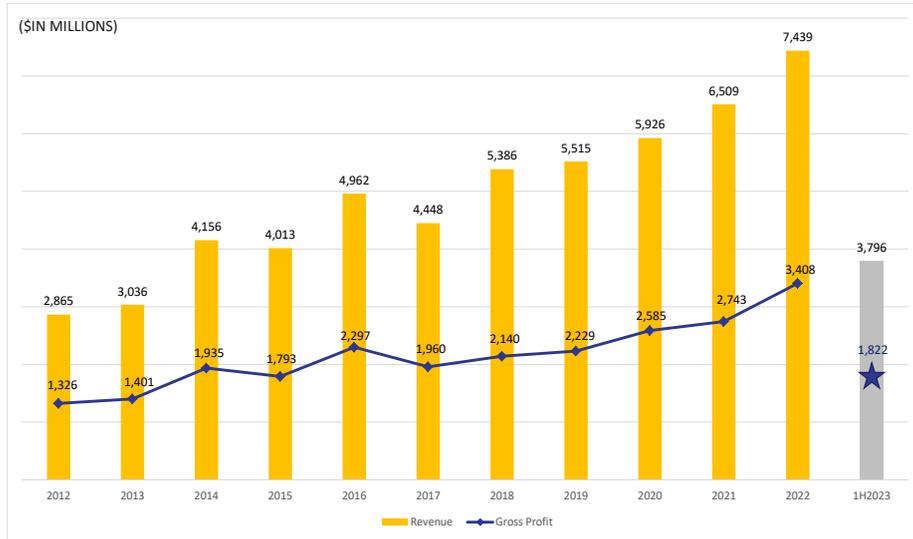
MPI's thermal solutions are developed by industry veterans with over 100 years of combined experience.

- **Deep Cooperation with Leading Customers for Engineering and Production demand**

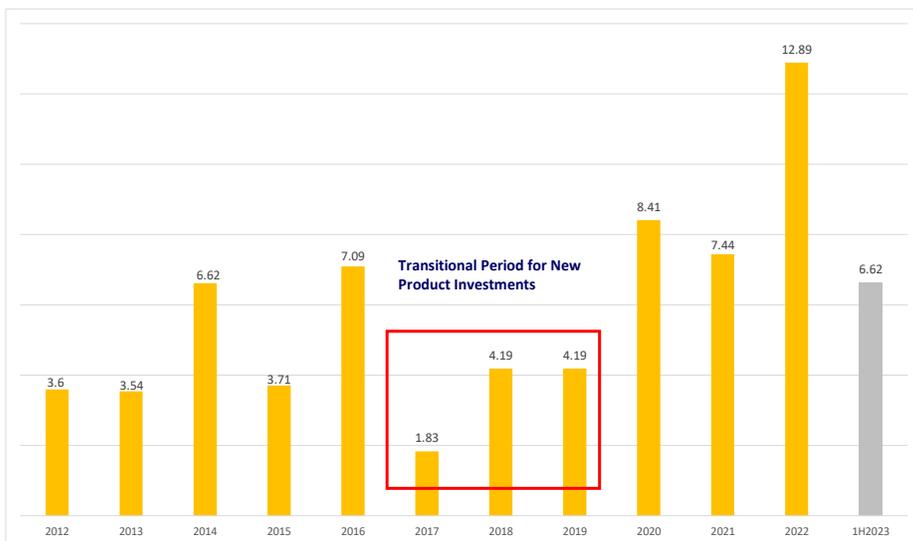
與世界領導級大廠深度合作, 提供工程及量產需求

Product application expands to automotive , 5G/RF communication , fiber optic , and sensing fields.

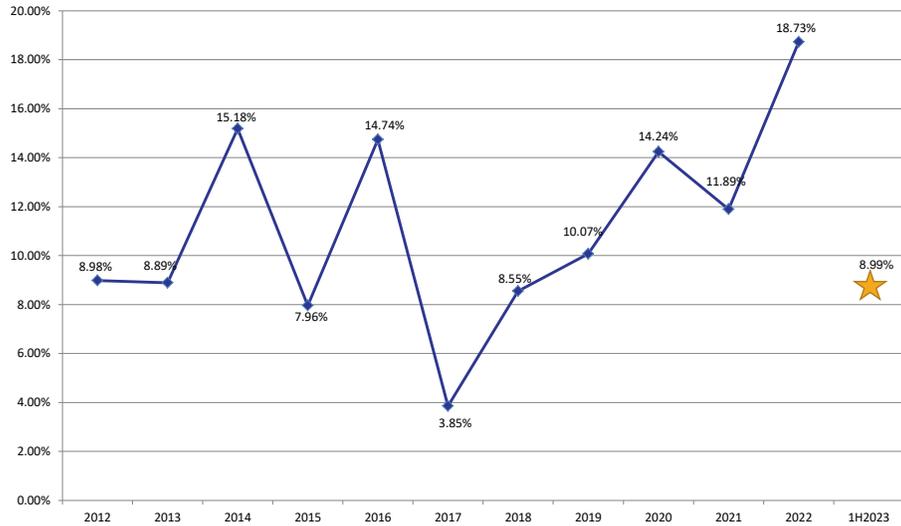
## 營收與毛利



## EPS



## 股東權益報酬率



## 資產負債表

NT\$ Million	1H 2023		1H 2022	
Cash and Cash Equivalents	1,993	17%	1,589	15%
Fixed Assets	5,396	46%	4,418	42%
Total Assets	11,765	100%	10,401	100%
LT Debt	953	8%	1,091	11%
Shareholders' Equity	6,924	59%	6,286	60%
EBITDA	739	19%	738	21%

\*EBITDA=operating income + depreciation & amortization expenses

## 綜合損益表

NT\$Million	1H 2023		1H 2022	
Net Sales	3,796,614	100%	3,588,079	100%
Cost of Goods Sold	1,973,971	52%	1,963,111	55%
Gross Profit	1,822,643	48%	1,624,968	45%
Operating Expense	1,106,169	29%	1,003,009	28%
Operating Income	716,474	19%	621,959	17%
Investment Income & Others	22,557		116,871	
Net Income (after tax)	622,676	16%	607,788	17%
EPS (after tax)	6.62		6.46	

## 旺矽的尖端技術

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- 精細機械運動特性技術
- 微小電信偵測技術
- 高頻環境與量測技術
- 溫度控制及散熱技術
- 光、電、自動化 高度整合

## 公司策略

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- **Talents with Global View**

旺矽擁有各領域專項國際人才，協助公司開發先進技術及市場

MPI has a group of international talents who does excellent job in term of territory expansion as well as technology advancement.

- **Grow with Worldwide Client**

旺矽與國際領先的公司密切合作，共同成長

Eying on future application developments, MPI works closely with global leading companies for potential new product/technology developments.

- **Combining Multiple Core Expertise**

旺矽結合內部不同領域核心專長，滿足客戶未來發展需求

MPI leverages talents in different fields internally that enables us to meet customers' future development needs.

**MPI**CORPORATION



# Thank you Q&A



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