



# 台灣晶技(股)有限公司 法人說明會

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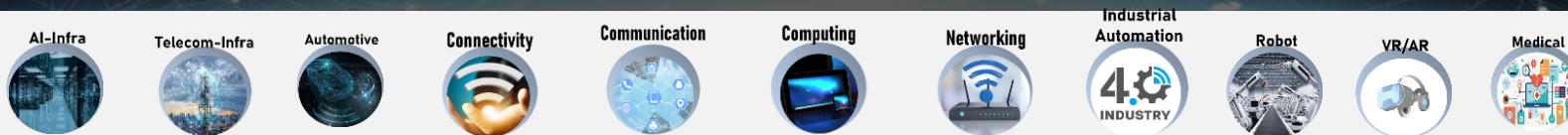
## 執行長摘要觀點

# ‘‘打造永續營收組合’’

「為實現永續營收組合，我們需要多元化的策略途徑。」

## ➤➤➤ 多元化布局於具韌性之成長引擎

- AI 全鏈布局：積極卡位 AI 基礎建設 → 邊緣 AI → 智能代理 → 實體 AI



## ➤➤➤ 優先提升參考設計轉換效率

- 加速提高參考設計轉換率：縮短樣品至量產週期，提升中標率

## ➤➤➤ 推動區域與產業特定策略

- 地緣優勢與市場定位：布局全球各區域化發展潛力機會

# 重點策略藍圖回顧

聚焦關鍵產業並識別潛在機會與挑戰

An illustration of a city skyline with a prominent 5G-A communication tower in the foreground, set against a bright sky with clouds.

## 5G-A

AOM +20% YoY  
AOM+TCXO, 15% of Total Sales

- AI Infrastructure + 5G-A Deployment

An abstract illustration representing artificial intelligence, featuring glowing blue and white light trails and binary code (0s and 1s) on a dark background.

## 人工智能

An illustration of a car's chassis and wheels, overlaid with a digital grid and glowing blue lines, representing automotive electronics.

## 車載電子

25% of Total Sales

- Global Tier 1 Penetration

A collage of various technological and industrial icons including a globe, gears, a butterfly, a car, a robot, and medical equipment, representing emerging industries.

## 新興產業

~10% by 2030

- New Segment Development

Initiate pre-developing as new industry segment to deploy potential business opportunities.

# 5G-A 基礎建設與 AI 應用

Focus Segments and Identify Overall Potential Business Opportunities & Challenge

## 5G-A Infrastructure

- 5G 基礎建設飽和
- 發展走向 AI-RAN 與 6G
- 新興市場佈建率逐步攀升

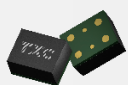
## AI Infrastructure

- 協議升級 (更嚴苛的相位抖動)
- 精準時序應用於數據運算
- 全球 AI 生態多元化

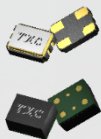
## High Speed Interconnection

- 高速數據吞吐
- 超低延遲
- 高速互連解決方案

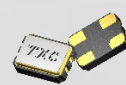
### 解決方案與產業經營策略



- 小型化 (5.0x3.2mm)
- 電力節約 (7.0x5.0mm)
- Xterneti (AI-Powered OCXO)



- 小型化 (2.0x1.6mm)
- 超低抖動 (<30fs typ)
- Xterneti (AI-Powered OCXO)



- 超高頻率 (625MHz)
- 小型化 (2.0x1.6mm)
- 超低抖動 (<30fs typ)

- ◆ 重點指標客戶突破
- ◆ 5G-A 新平台導入
- ◆ 5G潛力發展市場：印度運營商

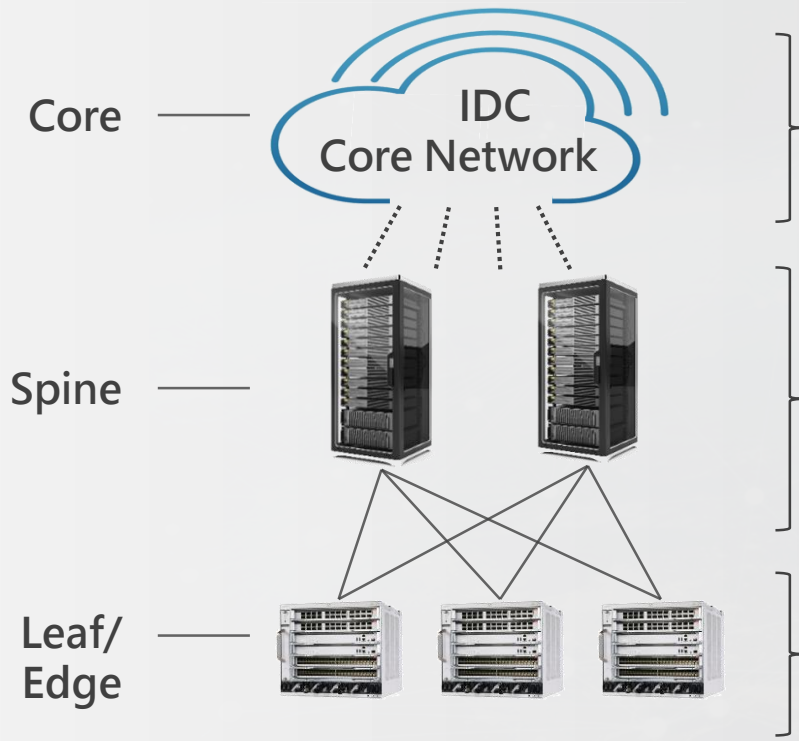
- ◆ 高速互連解決方案
- ◆ 中國 IDH 在地化預設計策略
- ◆ 產品組合優化 (小型化)

- ◆ 掌握光通訊升級商機 (400G→800G/1.6T)
- ◆ 產品組合優化 (小型化)
- ◆ 產品規格升級 (超低抖動)

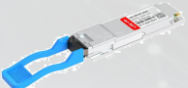
# AI 部署帶來新機會

高速互連是 AI 發展的必要條件, 高速線纜與光模組將成為核心關鍵

## IDC 資料中心架構設計



## 不同距離的數據傳輸需求

|             |               |                                                                                                                                                                             |
|-------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < 20-120 km | ER/ZR         | Optical Module (SM)                                                                                                                                                         |
| < 10-20 km  | LR            |                                                                                          |
| < 2-10 km   | FR/LR         | Optical Module (SM)                                                                                                                                                         |
| < 500 m     | DR            |                                                                                          |
| < 50 m      | SR            | Optical Module (MM) Active Electrical Cable (AEC)                                                                                                                           |
| < 5-10 m    | Within a Rack |   |

Note: High-speed cable can be further divided into DAC, ACC(using in NV switch to server within a rack ) and AEC(using in customized switch to server within a rack)  
Note: SR: Short Reach(<100m), DR: Datacenter(~500m), FR: Fiber Reach(~2km), LR: Long Reach(~10km), ER: Extended Reach(~40km), ZR: Ze Best Range(>80km)

# 汽車電動化帶來巨大機會

ADAS + 駕駛艙一體化，邁向自駕車時代

## 2025 年市場展望

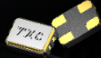
- 全球汽車出貨 9280 萬台 (YoY +2%)
- 中國市場競爭激烈, 持續內卷
- 關稅與地緣政治不確定性

## Vehicle Electrification Trends Opportunities

↑ Increasing Penetration Rate of ADAS (L2→L3→L4)

 : Differential Oscillator for High Speed Interface

↑ Key ADAS Components for Autonomous Driving

 : Miniature XO with simple compensation

↑ Smart Cockpit Integration

 : Miniature XO with low supply voltage

關鍵應用：相機 / 雷達 / 光達 / ADAS 與駕駛艙 SoC

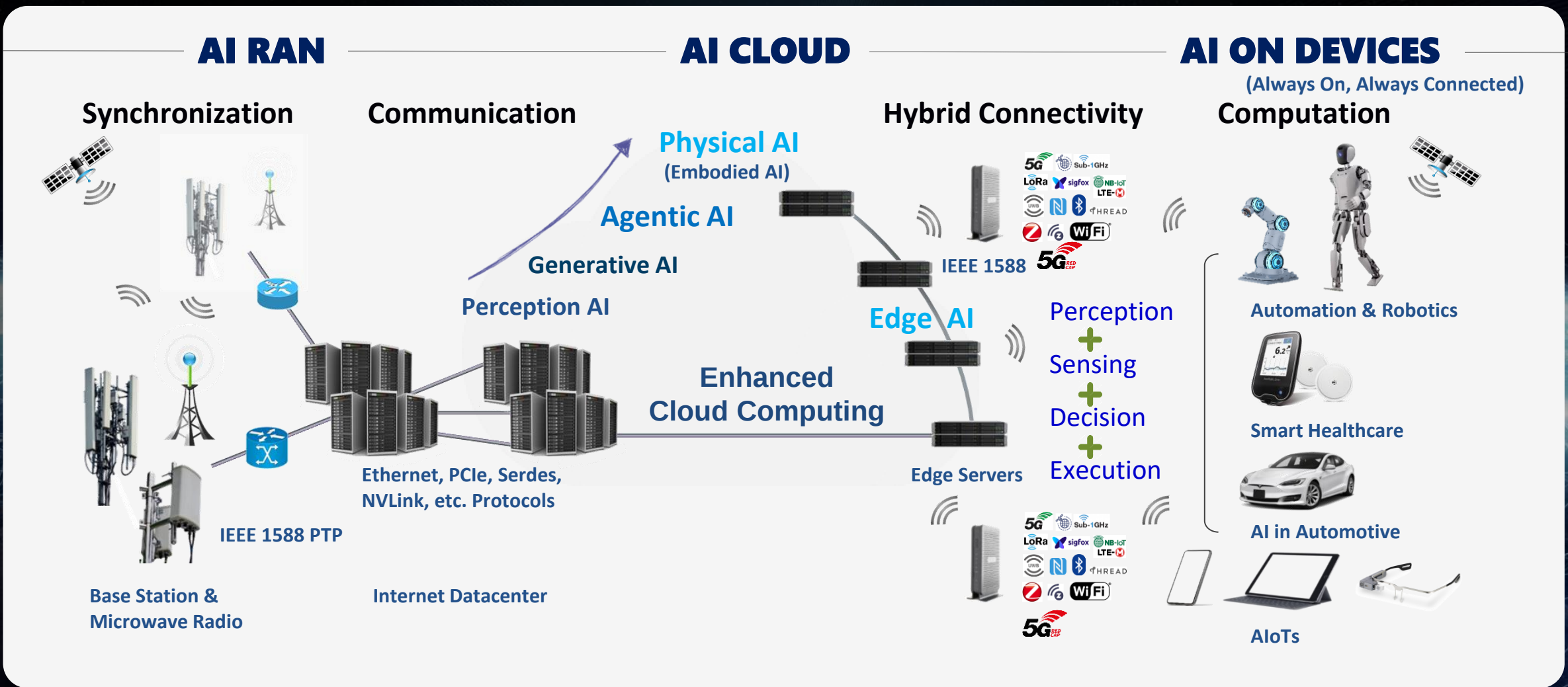


## Key Strategy Blueprint :

- 全球 Tier 1 客戶穿透率提升 (AVL 認證通過)
- 持續提升Global Tier 1份額
- ADAS 專用振盪器拓展應用

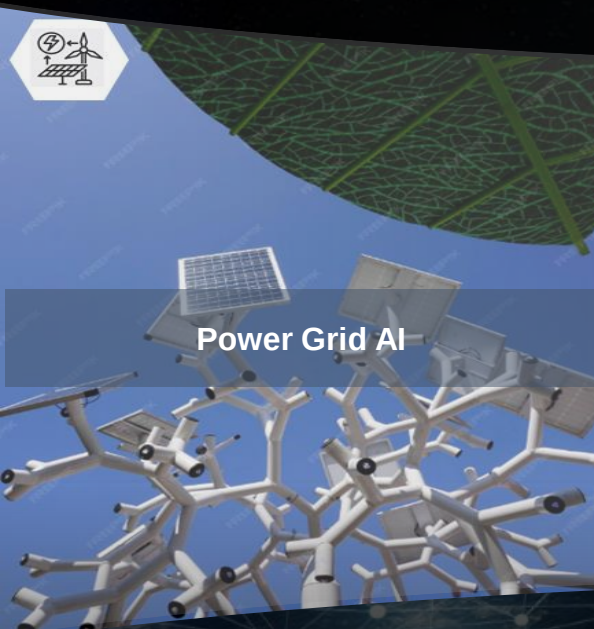
# AI 驅動的生態系統

未來五年，基礎建設與生態系統提升將是重點



# AI 驅動新興市場

Focus Segments and Identify Overall Potential Business Opportunities & Challenge



- 1 Energy Management
- 2 Energy Inverter

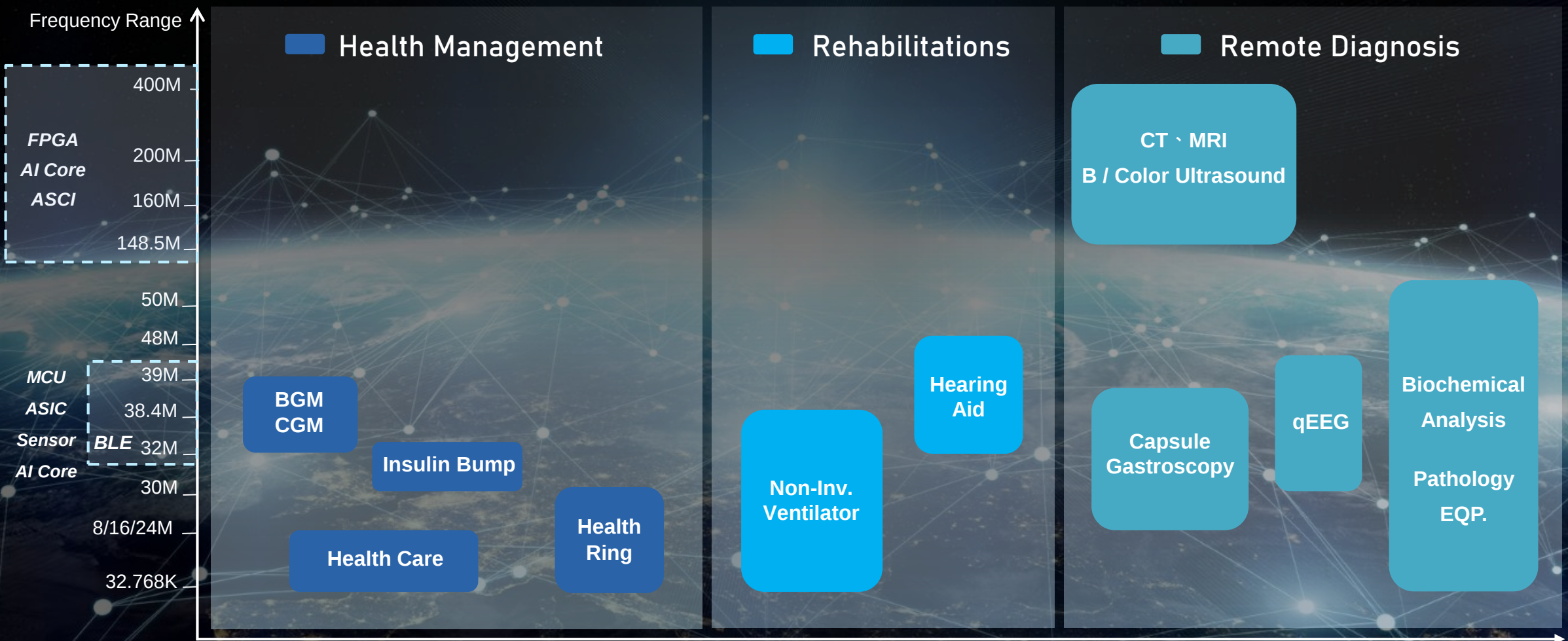
- 3 Industrial IoT
- 4 Digital Twin
- 5 Robotics

- 6 Farming Automation
- 7 Livestock Management

- 8 Telemedicine
- 9 Hearing Aid

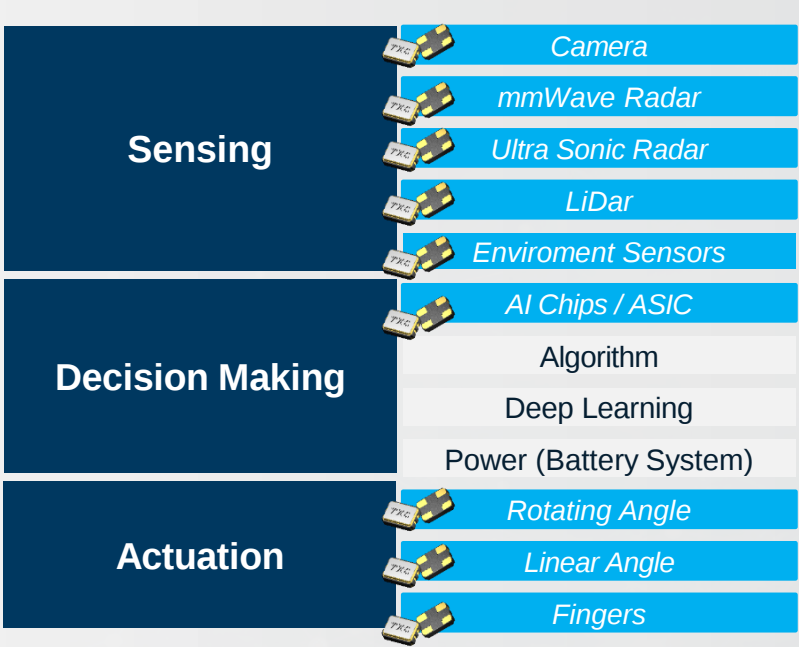
# 智慧醫療新興市場

AI 賦能智慧醫療策略 → 即時監測、遠距診斷



# AI 邊緣機器人商機

TXC LLM, Domain Expert, Generative AI, & System Integration



**50~100 pcs, per Robotic set**

(Note : Below calculation excludes the AI Processor & clock for sensors integration.)

| Actuator       | Part     | Side | Motor | MCU |
|----------------|----------|------|-------|-----|
| Rotating Angle | Shoulder | 3    | 6     | 12  |
|                | Bot      | 0    | 3     | 6   |
|                | Wrist    | 1    | 2     | 4   |
|                | Elbow    | 0    | 3     | 6   |
| Linear Angle   | Wrist    | 2    | 4     | 4   |
|                | Knee     | 2    | 4     | 4   |
|                | Ankle    | 2    | 4     | 4   |
|                | Elbow    | 1    | 2     | 2   |
| Fingers        | Knuckles | 6    | 12    | 12  |
| Total          |          |      | 40    | 54  |

**43.80%**

Global Market CAGR%  
2025 - 2033

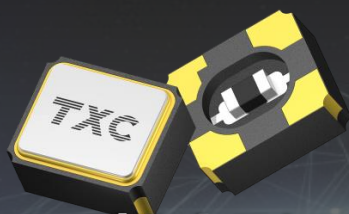
Market Size by 2032, USD : 41.02B (from USD 2.24b in 2025)

Unit Shipments Insight: Interact estimates

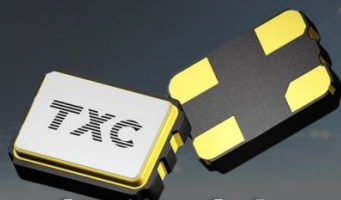
~40,000 units/year by 2032, up to forecasts 2M/Y by 2035

# 新產品解決方案

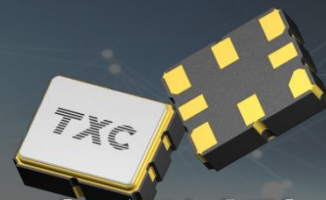
AI 生態系新產品 → 高頻、超小型、低功耗、超低抖動、超高穩定性



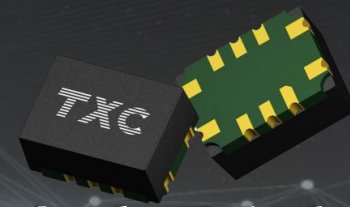
**超小型**  
晶體  
(Crystal & TSX)



**超低功耗**  
振盪器  
(kHz & MHz XO)



**超低抖動**  
振盪器  
(Differential XO)



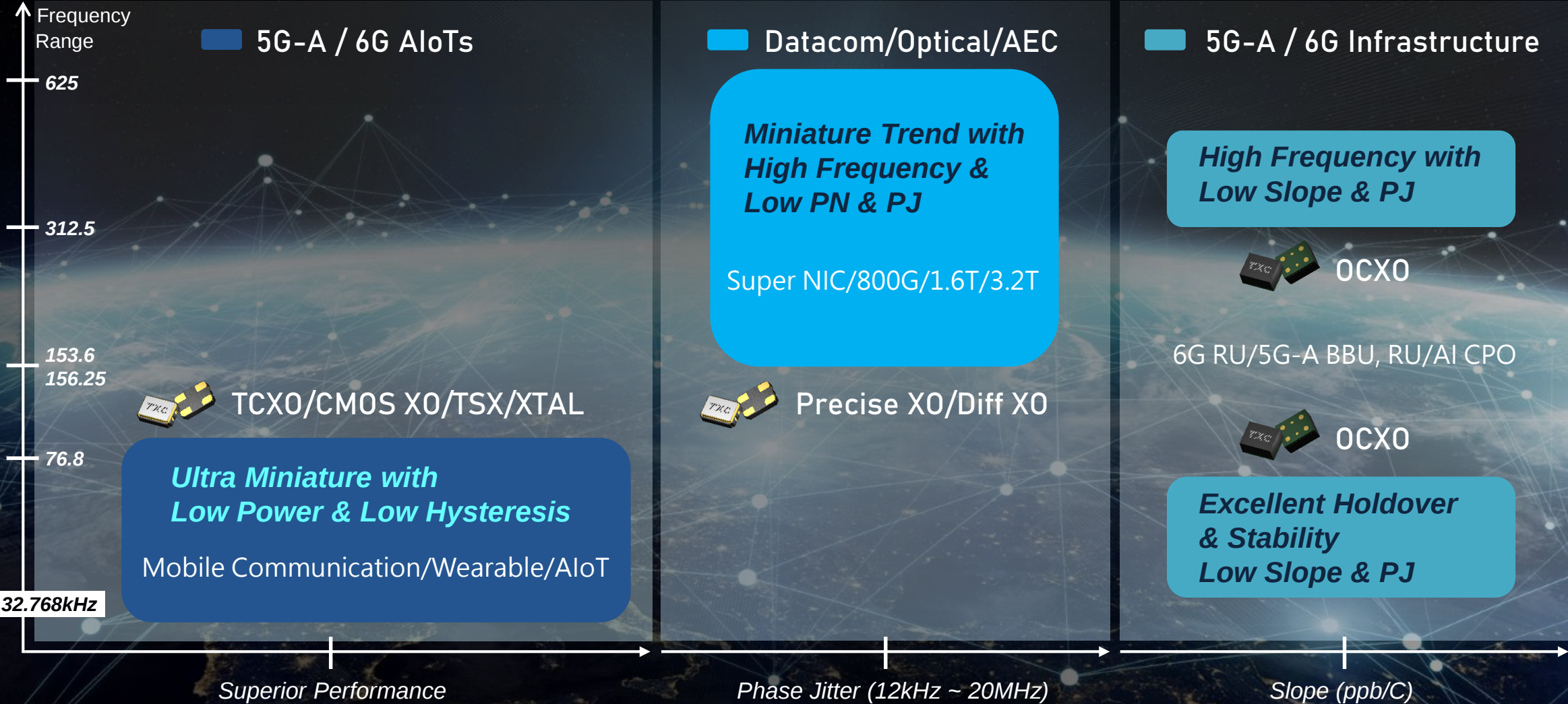
**超高穩定度**  
振盪器  
(OCXO)

## Product Solution Key Features

- |                     |                              |                           |                             |
|---------------------|------------------------------|---------------------------|-----------------------------|
| • 超小型晶體 (0.8x0.6mm) | • 低功耗 MHz XO (<2mA)          | • 超低抖動差分 XO (<30fs)       | • 小型化：5.0x3.2mm             |
| • 高頻晶體 (HPC)        | • 低功耗 kHz XO : ( 0.25uA typ) | • 超高頻差分 (~625MHz)         | • 超高穩定度：±5ppb, -40 to +105C |
| • 新世代 TSX (6G)      | • 小型化：1.2x1.0mm              | • 高穩定性差分 (±0.1ppm~±20ppm) | • 延長時鐘守時：Xterneti           |

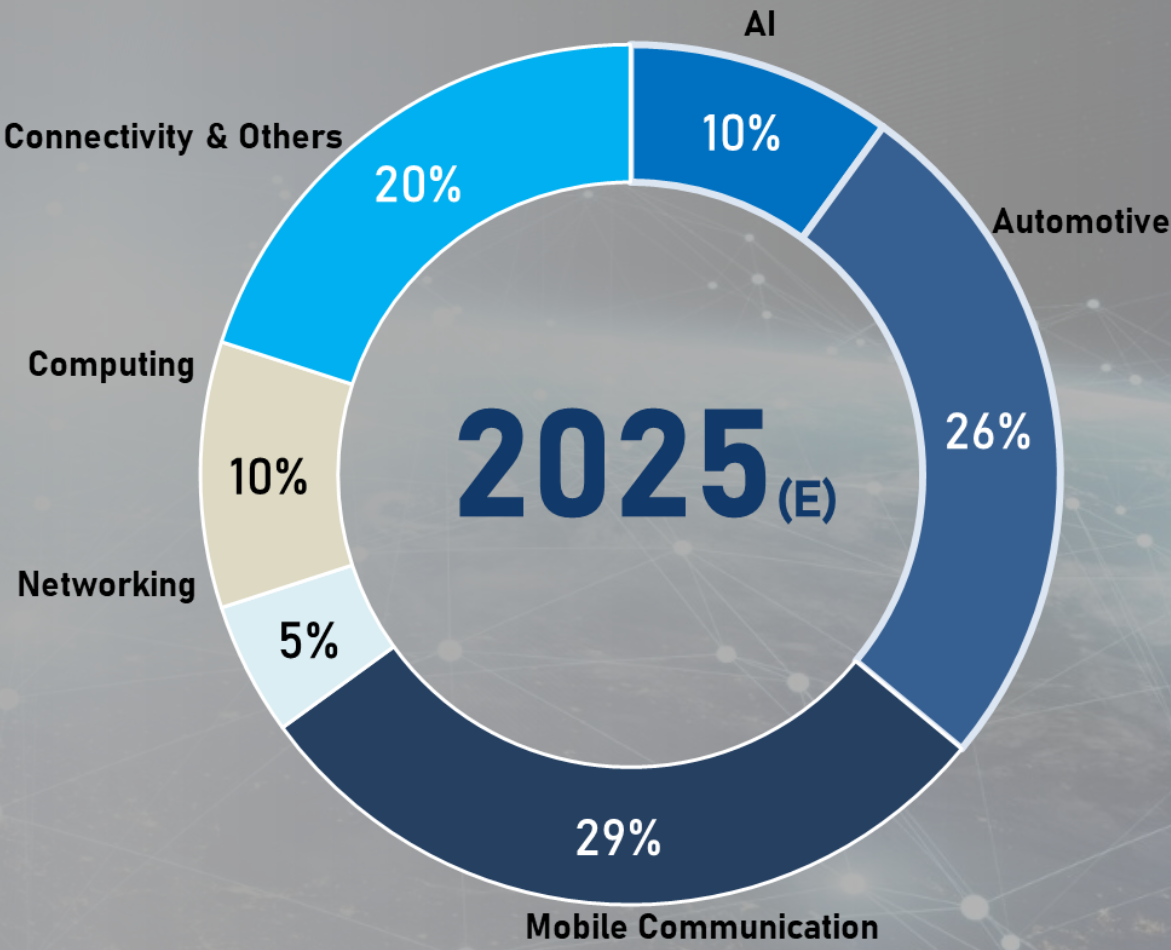
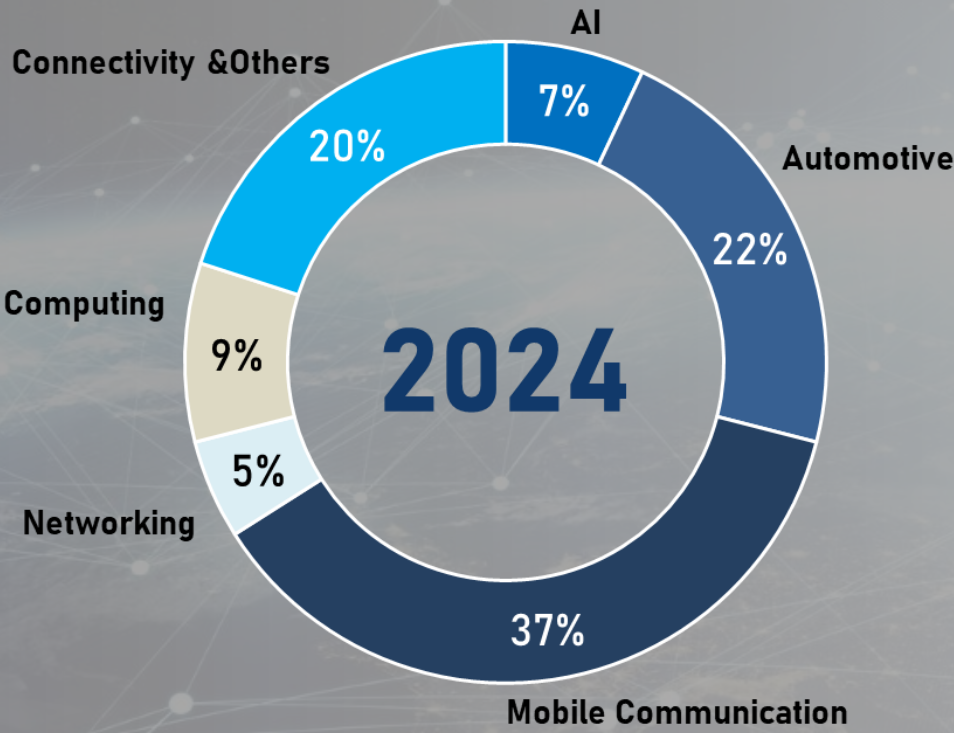
# 未來產品需求

## 不同應用對振盪器的需求



# 重點產業營收占比

關注重點產業區塊，挹注營收成長動能



# 綜合損益表

穩健成長，健康財務結構

| 單位: 台幣百萬     | Q3'25  | Q2'25  | QoQ      | YOY      | Q1~Q3'25 | Q1~Q3'24 | YoY     |
|--------------|--------|--------|----------|----------|----------|----------|---------|
| 營業收入         | 3,492  | 3,367  | 3.72%    | -4.82%   | 10,025   | 9,345    | 7.28%   |
| 營業毛利         | 1,088  | 1,131  | -3.82%   | -15.11%  | 3,340    | 3,356    | -0.46%  |
| 營業費用         | 597    | 582    | 2.66%    | 0.46%    | 1,784    | 1,690    | 5.55%   |
| 營業淨利         | 491    | 550    | -10.68%  | -28.57%  | 1,556    | 1,665    | -6.56%  |
| 營業外收入及支出     | 138    | -143   | -196.26% | -273.67% | 56       | 215      | -73.85% |
| 稅前淨利         | 629    | 407    | 54.57%   | 3.37%    | 1,612    | 1,880    | -14.26% |
| 稅後淨利         | 511    | 370    | 38.01%   | -0.55%   | 1,353    | 1,568    | -13.72% |
| 基本每股盈餘(新台幣元) | 1.49   | 1.08   | 37.96%   | -0.67%   | 3.95     | 4.93     | -19.88% |
| 營業毛利率(%)     | 31.17% | 33.61% |          |          | 33.32%   | 35.91%   |         |
| 營業費用率(%)     | 17.10% | 17.28% |          |          | 17.80%   | 18.09%   |         |
| 營業淨利率(%)     | 14.06% | 16.33% |          |          | 15.52%   | 17.82%   |         |
| 稅前淨利率(%)     | 18.00% | 12.08% |          |          | 16.08%   | 20.12%   |         |
| 純益率(%)       | 14.64% | 11.00% |          |          | 13.50%   | 16.78%   |         |

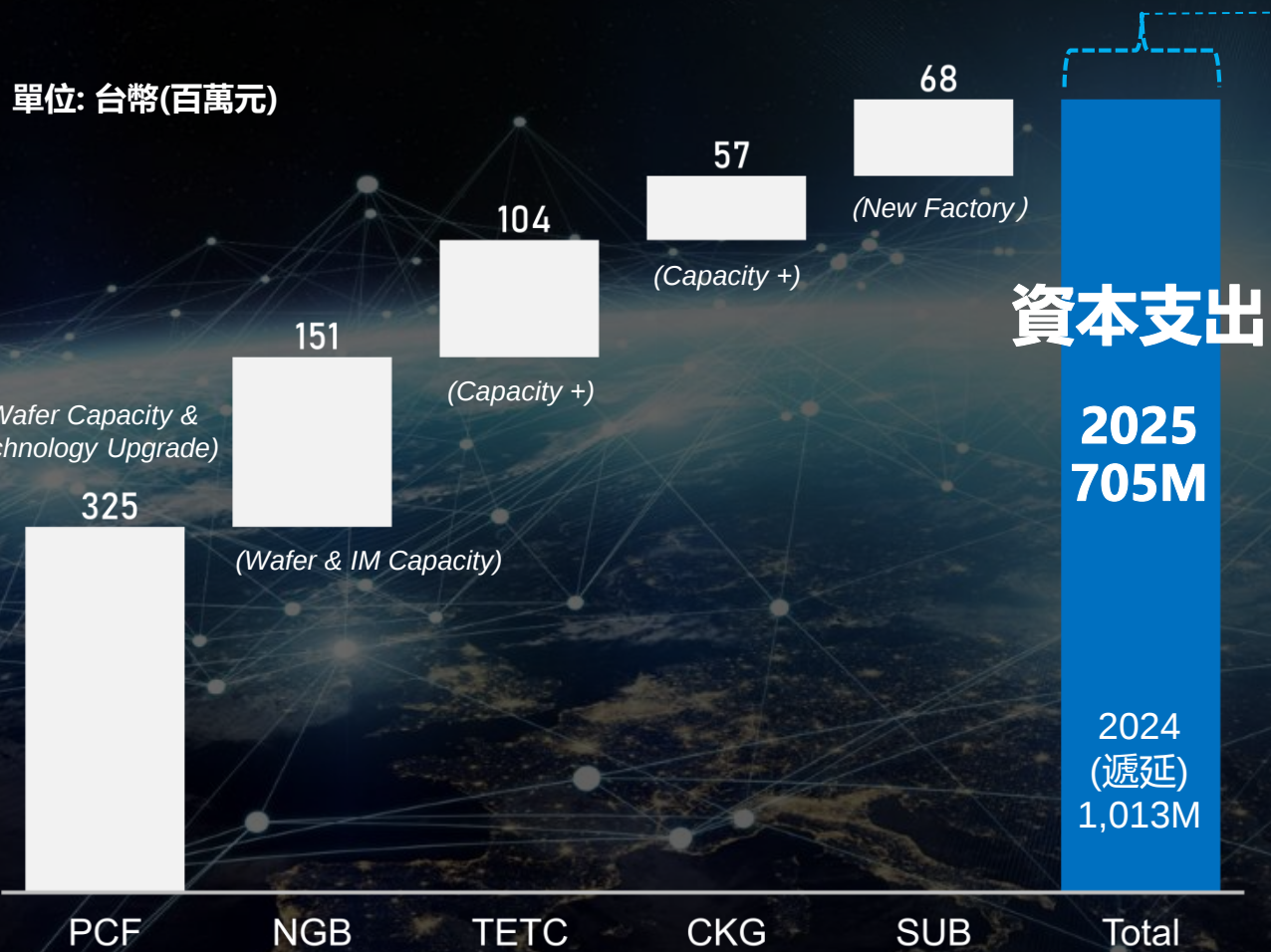
# 資產負債表

穩健成長，健康財務結構

| 單位: 台幣百萬<br>Item | Sep. '25 |        | Dec. '24 |        | Sep. '24 |        |
|------------------|----------|--------|----------|--------|----------|--------|
|                  | Amount   | %      | Amount   | %      | Amount   | %      |
| 現金及約當現金          | 4,024    | 18.4%  | 3,906    | 17.6%  | 4,324    | 19.5%  |
| 應收票據及應收帳款        | 3,768    | 17.2%  | 3,760    | 17.0%  | 3,611    | 16.3%  |
| 存貨               | 2,618    | 12.0%  | 2,825    | 12.7%  | 2,774    | 12.5%  |
| 流動資產             | 12,824   | 58.6%  | 12,559   | 56.6%  | 12,886   | 58.3%  |
| 總資產              | 21,903   | 100.0% | 22,171   | 100.0% | 22,121   | 100.0% |
| 流動負債             | 4,283    | 19.6%  | 4,199    | 18.9%  | 4,347    | 19.7%  |
| 非流動負債            | 2,477    | 11.3%  | 1,527    | 6.9%   | 2,086    | 9.4%   |
| 總負債              | 6,760    | 30.9%  | 5,726    | 25.8%  | 6,433    | 29.1%  |
| 合併股東權益           | 15,143   | 69.1%  | 16,444   | 74.2%  | 15,688   | 70.9%  |
| 平均收現日數           | 103      |        | 101      |        | 101      |        |
| 平均銷貨日數           | 112      |        | 118      |        | 120      |        |
| 流動比率(%)          | 299%     |        | 299%     |        | 296%     |        |
| 負債比率(%)          | 30.9%    |        | 25.8%    |        | 29.1%    |        |
| 總資產報酬率(%)        | 8.4%     |        | 10.6%    |        | 10.5%    |        |
| 股東權益報酬率(%)       | 11.4%    |        | 15.1%    |        | 15.2%    |        |

# 2025 資本支出計畫

AiX 數位轉型, 全球化生產佈局, 創新技術研發投入與永續經營



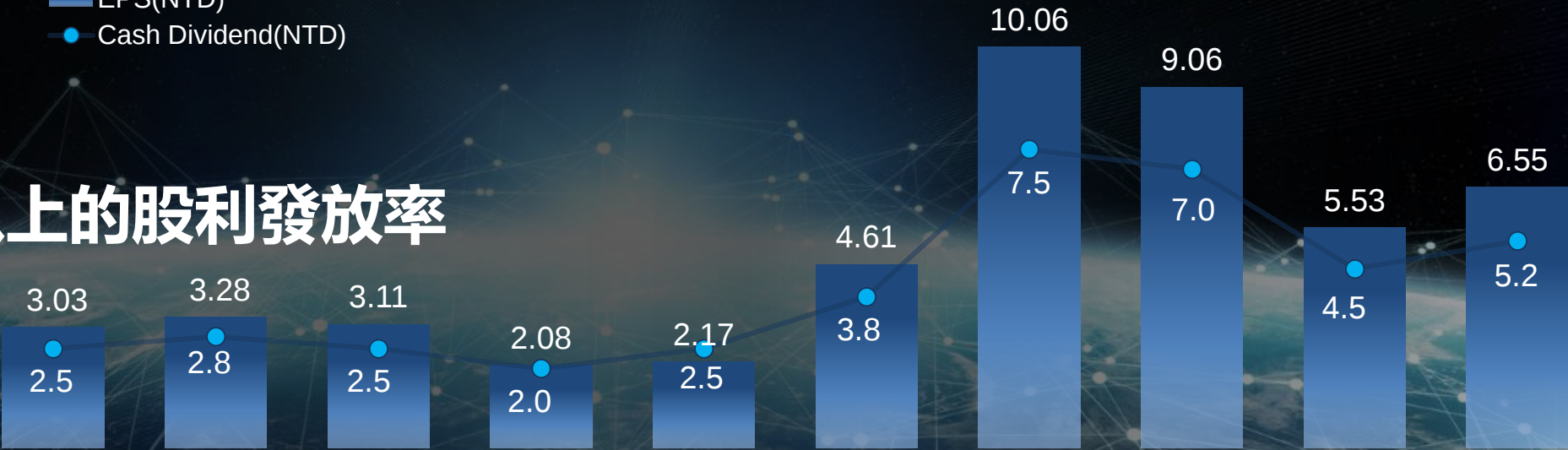
| 資本支出重點區塊說明                                                                                                                 |                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <div>◆ A+ Enhancements</div> <div>✓ Core Technology</div> <div>✓ Advanced Process</div> <div>✓ Innovation Capability</div> | <div>◆ Smart Factory</div> <div>✓ Smart Manufacturing</div> <div>✓ Automation and Robotics</div> <div>✓ Data Analytics and AI</div> |
| <div>◆ ESG Sustainability</div> <div>✓ Environment</div> <div>✓ Social Responsibility</div> <div>✓ Governance</div>        | <div>◆ N+1 New Factory</div> <div>✓ Indonesia</div> <div>✓ Japan</div> <div>✓ Asia</div>                                            |

# 每股盈餘與現金股利

穩定殖利率與高配息

■ EPS(NTD)  
● Cash Dividend(NTD)

80%以上的股利發放率



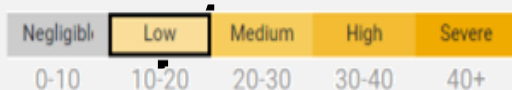
| 年         | 2015  | 2016  | 2017  | 2018  | 2019   | 2020  | 2021  | 2022  | 2023  | 2024  |
|-----------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 股價        | 41.1  | 44.5  | 39.0  | 36.0  | 44.0   | 99.8  | 98.0  | 89.4  | 105.5 | 100.5 |
| 股利發放率(%)  | 82.5% | 85.4% | 80.4% | 96.2% | 115.2% | 82.4% | 74.6% | 77.3% | 81.4% | 79.4% |
| 每股盈餘(NTD) | 3.03  | 3.28  | 3.11  | 2.08  | 2.17   | 4.61  | 10.06 | 9.06  | 5.53  | 6.55  |
| 現金股利(NTD) | 2.5   | 2.8   | 2.5   | 2.0   | 2.5    | 3.8   | 7.5   | 7.0   | 4.5   | 5.2   |

# 環境生態, 永續經營, 公司治理

2025 RE% **12** %  
(On Schedule)

Roadmap to Net Zero Carbon  
RE 30 By 2030  
RE100 By 2050

MORNINGSTAR SUSTAINALYTICS  
ESG Risk Rating  
**19.9** (Low Risk)



榮獲「113年度公司治理評鑑」獲得上市公司排名前6%~20%之肯定



“【外資精選台灣100強】”



榮獲天下雜誌“符合《巴黎協定》1.5℃溫控目標”之企業



通過 ISO 14064 / ISO 14067 / ISO 50001



| **Thank You**  
*Think of Frequency, Think of TXC*

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