



台灣晶技(股)有限公司 法人說明會

2025年9月

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- 除歷史事項相關的陳述外，本新聞稿中的陳述為前瞻性陳述。這些前瞻性陳述涉及已知和未知的風險、不確定性和其他因素，可能導致TXC的實際表現、財務狀況或經營成果與此類前瞻性陳述所暗示的情況存在重大差異。
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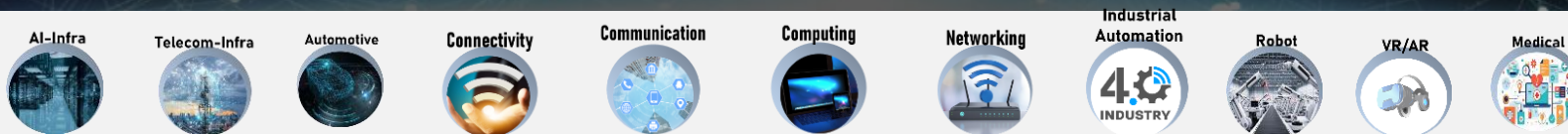
執行長摘要觀點

‘‘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

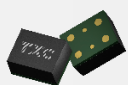
AI Infrastructure

- 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

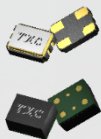
High Speed Interconnection

- 高速數據吞吐
- 超低延遲
- 高速互連解決方案

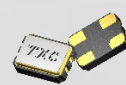
解決方案與產業經營策略



- 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)

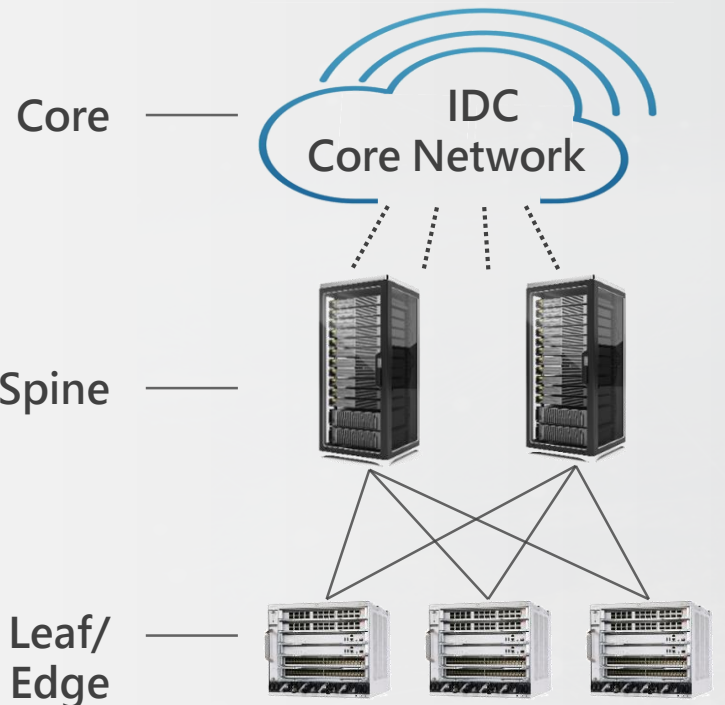
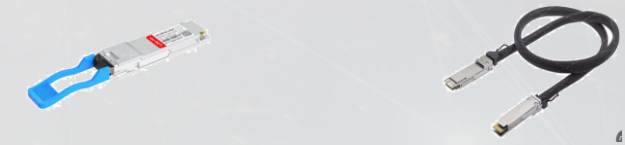
- ◆ 重點指標客戶突破
- ◆ 5G-A 新平台導入
- ◆ 5G潛力發展市場：印度運營商

- ◆ 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			
 Core ——— IDC Core Network Spine ——— Leaf/Edge ———	< 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

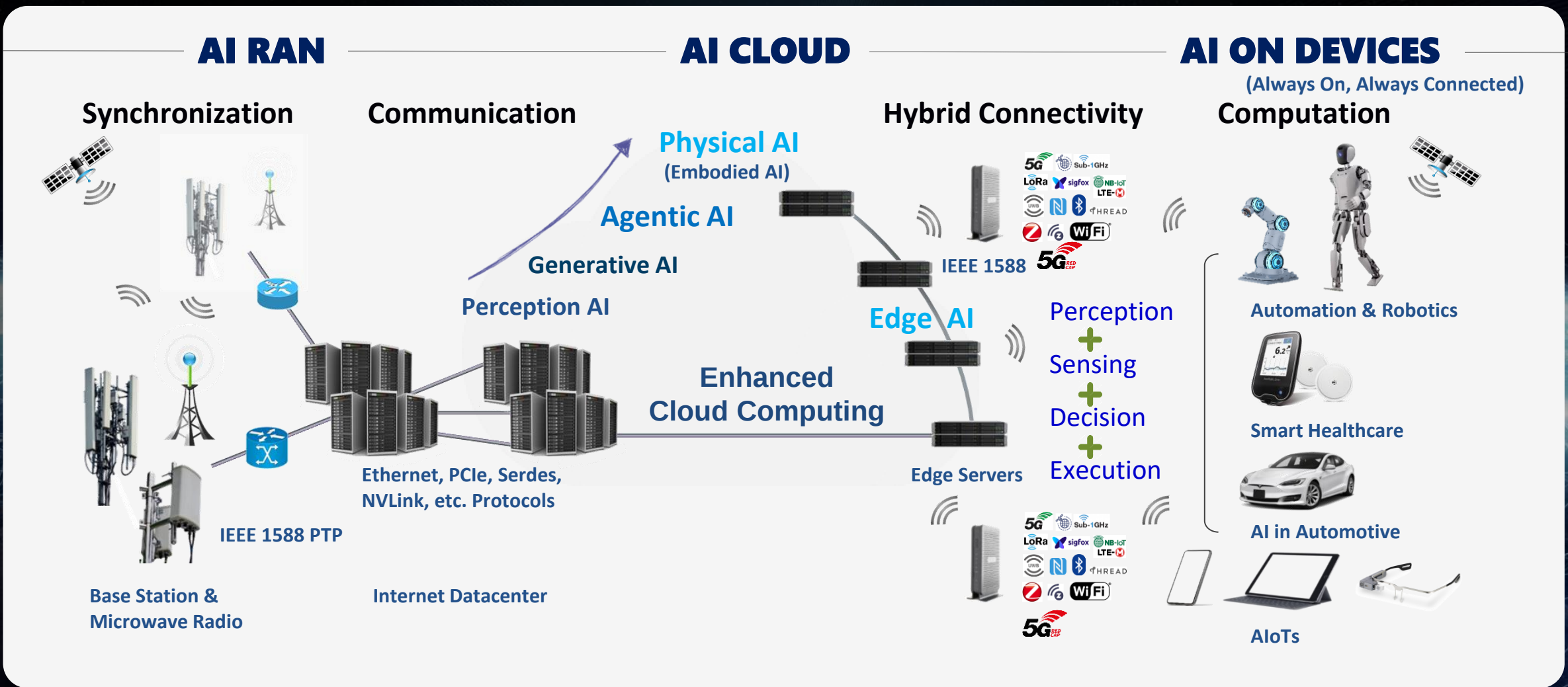


Key Strategy Blueprint :

- 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

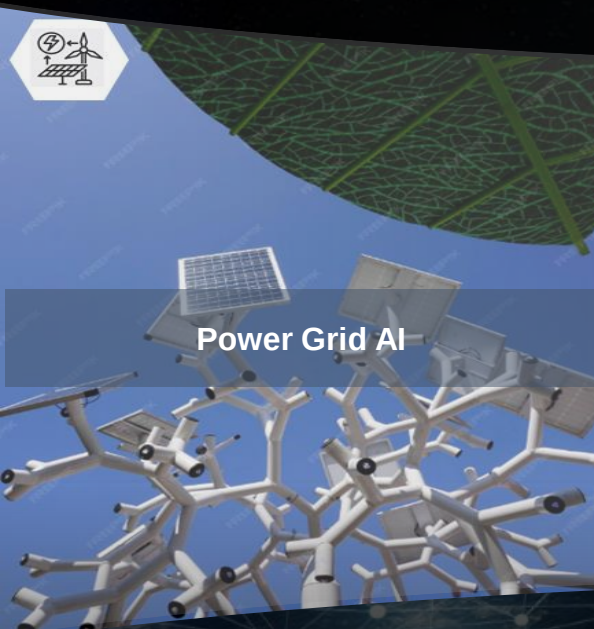
AI 驅動的生態系統

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

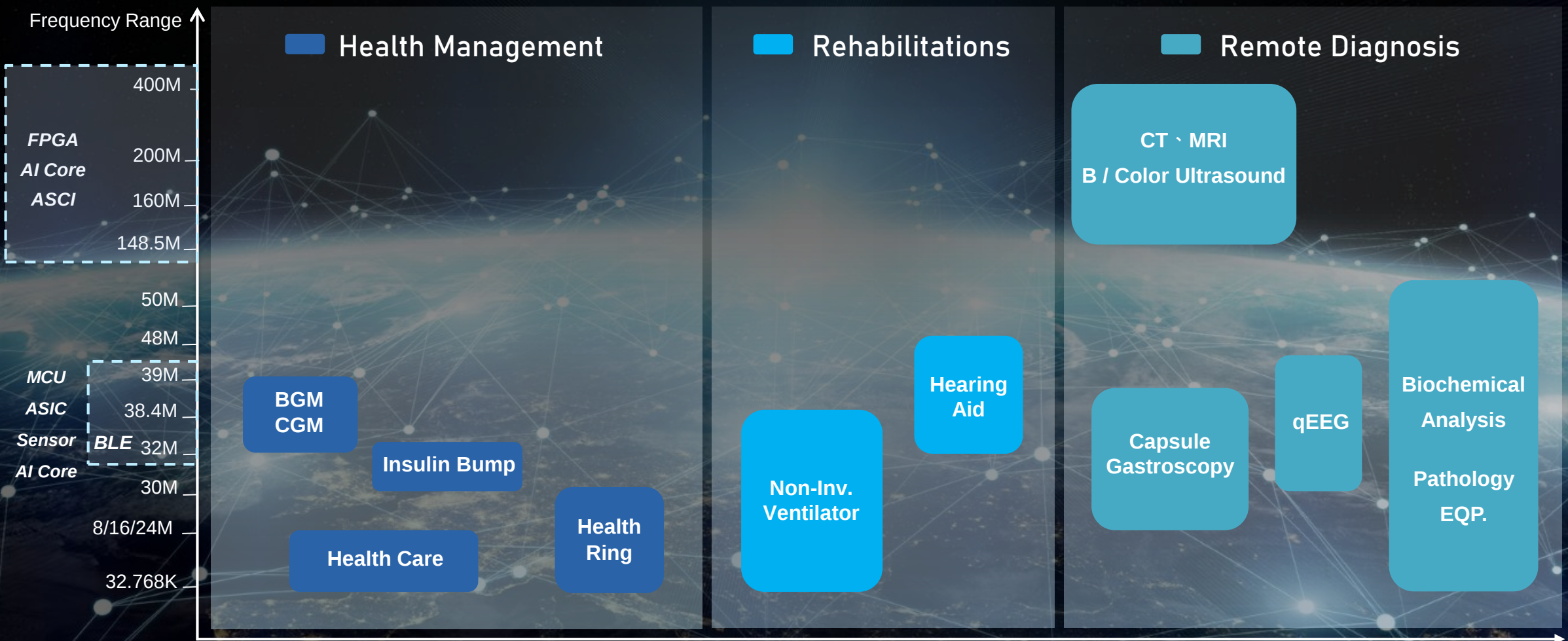
- 3 Industrial IoT
- 4 Digital Twin
- 5 Robotics

- 6 Farming Automation
- 7 Livestock Management

- 8 Telemedicine
- 9 Hearing Aid

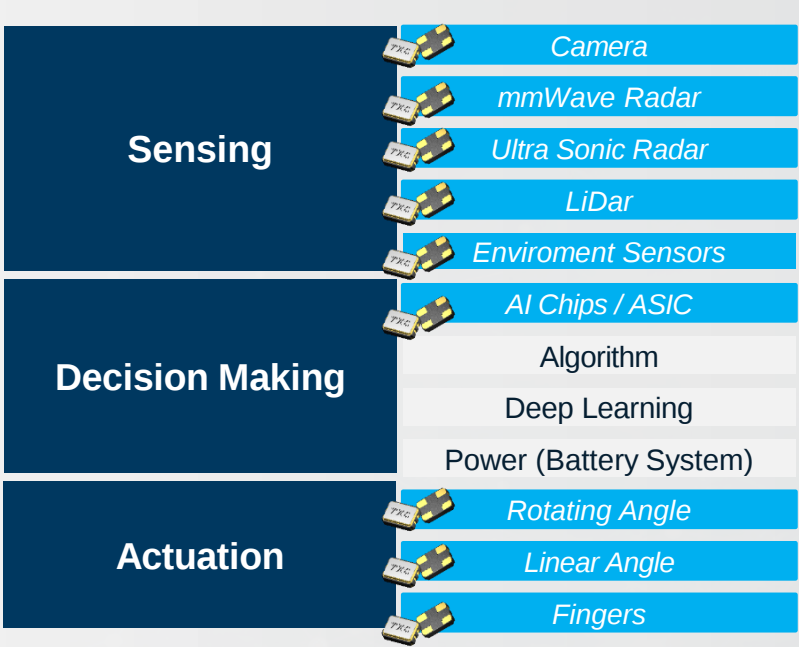
智慧醫療新興市場

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

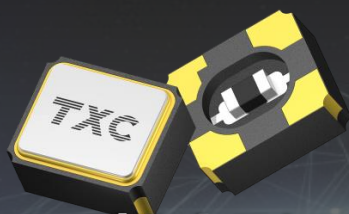
Market Size by 2032, USD : 41.02B (from USD 2.24b in 2025)

Unit Shipments Insight: Interact estimates

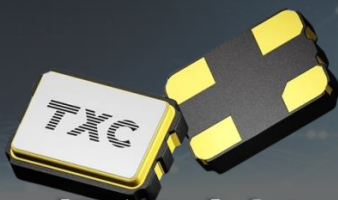
~40,000 units/year by 2032, up to forecasts 2M/Y by 2035

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



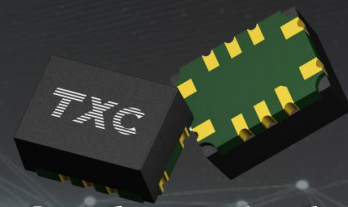
超小型
晶體
(Crystal & TSX)



超低功耗
振盪器
(kHz & MHz XO)



超低抖動
振盪器
(Differential XO)



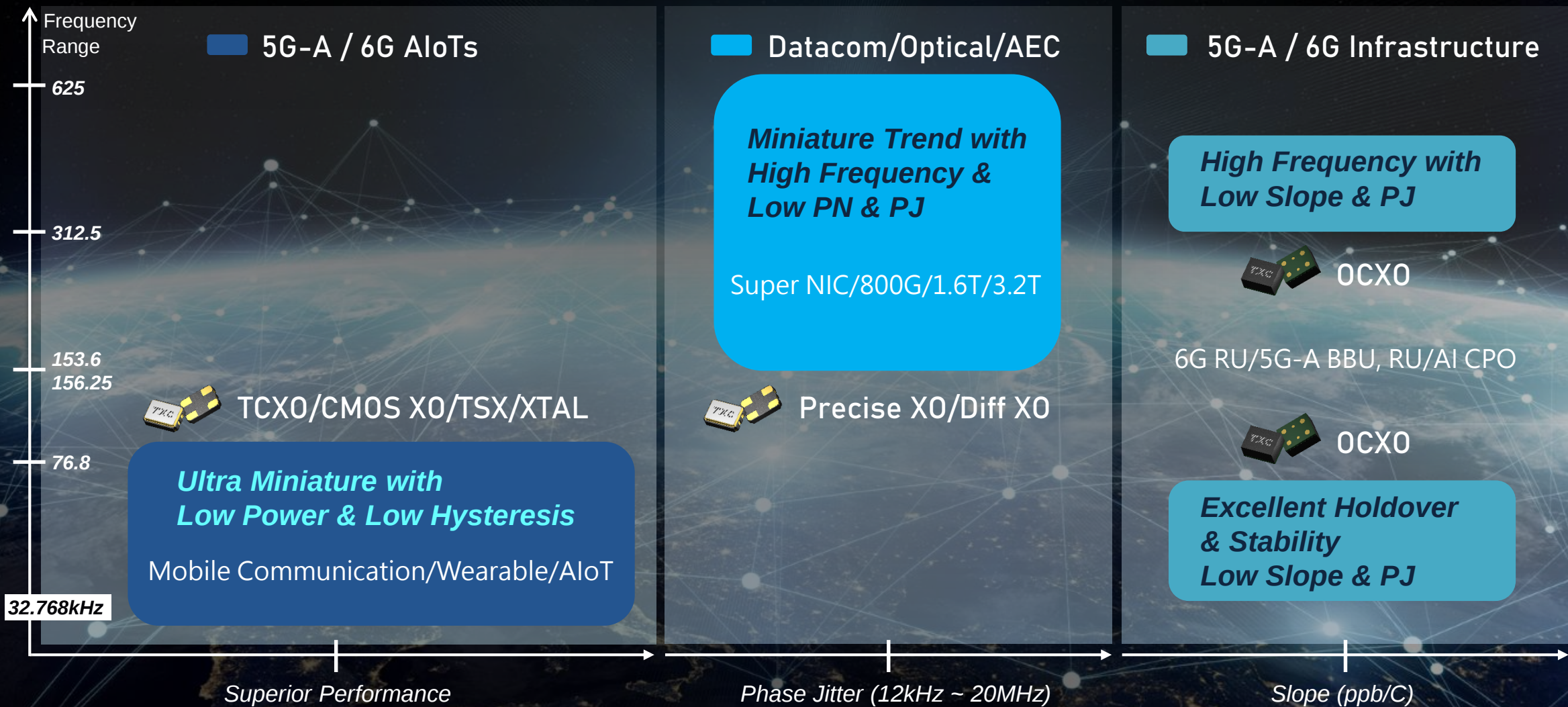
超高穩定度
振盪器
(OCXO)

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



數位轉型驅動未來競爭力 - AiX

TXC LLM、專家 AI、生成式 AI、系統整合



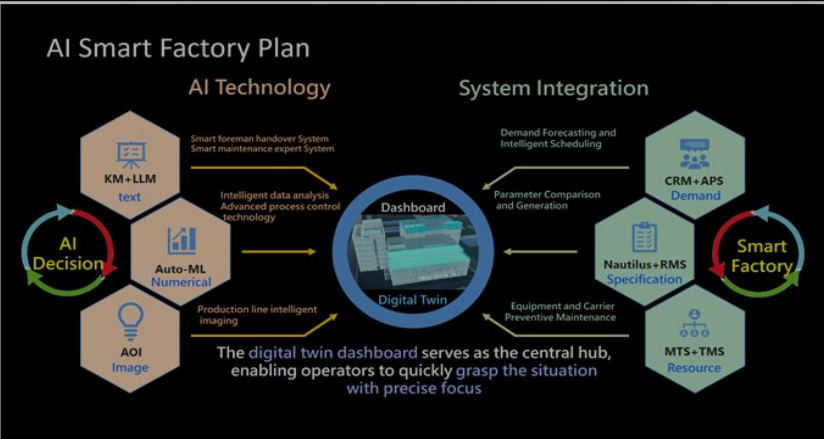
1 Data Collection and Visualization

Build the foundation for AI applications and ensure data integrity and reliability

Modularity Data Collection

- Equipment Data Collection
- Data Visualization
- Abnormal Alarm

數據蒐集與視覺化



2 AI-Driven Abnormal Detection

AI models predict production abnormalities, reducing downtime and scrap

AI AOI - Visual inspection assistance

- Sealing Tray AOI: Check the damage of tray
- Six Sides Chip Inspection: Sealing quality inspection
- WB AOI: Self-developed equipment, Check for wire bonding abnormal
- BP AOI: Quartz chip double-sided inspection, Turn inspection capability
- As Is Visual Inspection
- To Be Automated Optical Inspection

AI 驅動異常檢測

Modularity Data Analysis

- Predictive Machine Maintenance
- Product Quality Abnormal Detection
- Process Data Abnormal Monitoring

AiX 數位轉型 15% + 效率提升 (Ai自動化/人均提升)

AI 平台賦能、永續發展、地緣多元化

3 Product and Parameter Optimization

AI Models to Provide Product Optimization Parameter to Improve Production Efficiency and Yield

Modularity Model Prediction

- Automatic Tuning Parameters
- Production Scheduling Optimization
- Best Match for Carrier

R2R - Automatic control process parameters

TXC Manufacturing Execution System

R2R Architecture

Automatic computation provides parameters and automatically shuts down defective positions.

Run to Run

- TMS
- RMS
- PLM
- DATA

產品優化

Benefit

Rapid yield improvement

As Is

Requires a significant amount of analytical manpower.

4 AI Automated Decision Making

AI automated decision-making reduces human judgment errors and improves response speed

Modularity Instant Decision Making

- Equipment maintenance expert
- Foreman handover summary
- Smart production line image management

GenAI - Equipment Maintenance Expert

Document Collection

Instructions for use, Operating manual, Pick-up report, Quality, Maintenance records, Parameter change records, Implemented reports...

Data Transformer

Document change to Q&A Format

Expert System

Parallel Expansion

AI 自動決策

CCD Scenario :

- Outside the equipment : Monitor personnel producing status
- Inside the equipment : Monitor machine abnormalities

To Be

AI guidance for maintenance

5 AI Smart Factory

The factory has achieved high automation and intelligence, and can autonomously learn and adapt to changes

Modularity Behavior Feedback

- End-to-end intelligent manufacturing
- Human-machine collaboration
- AI automated decision-making center

AI 智能工廠

2025-1H 公司經營概況

Corporate Operation Status Update

Highlights

關鍵市場成長區塊

5G-A、汽車、AI 生態系 → 雙位數成長

產品組合優化

小型化 / 高頻 / 高穩定

新生產廠區量產計畫

全球生產地布局

日本

印尼

2024Y

General AI Related

7.5%

Automotive

21.8%

Advanced Product %

12.8%

2025(E)

General AI Related

10% ▲

Automotive

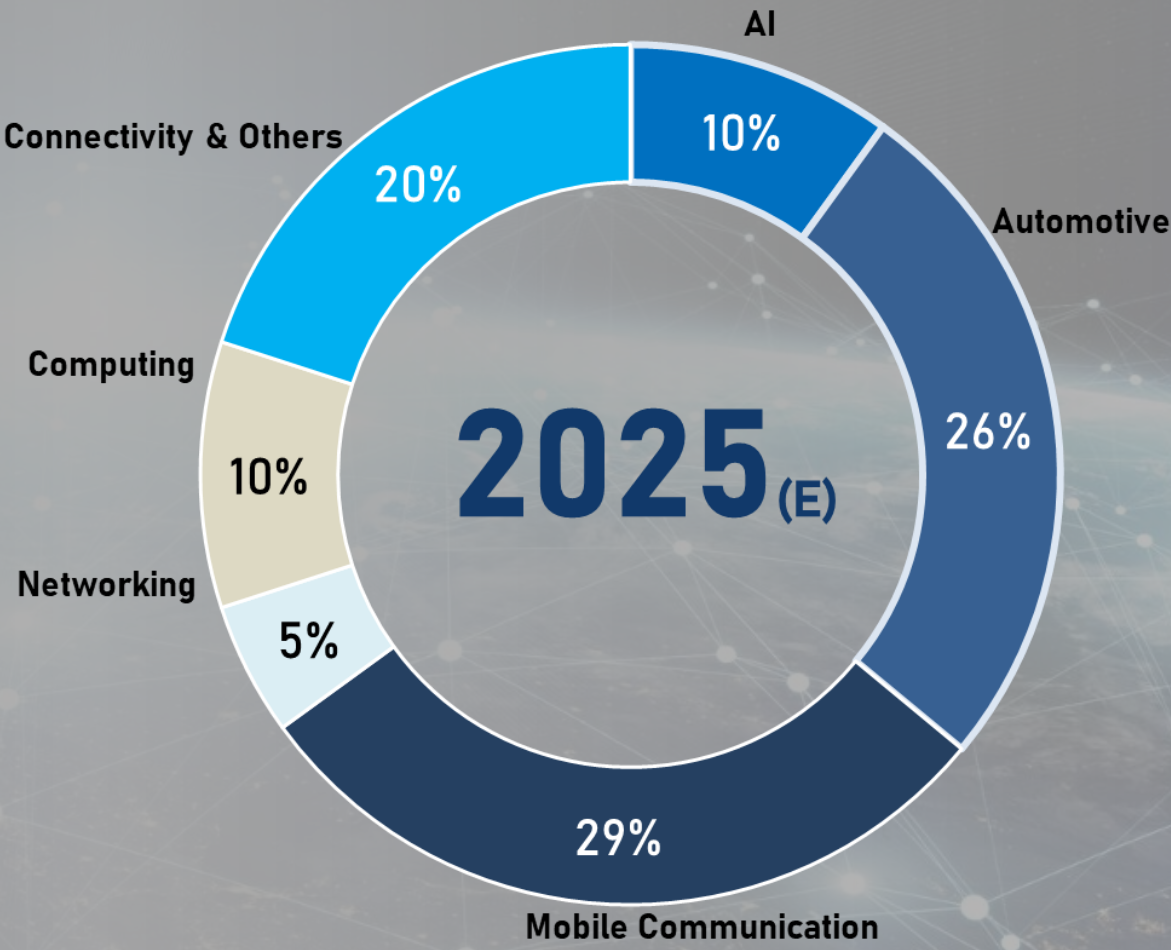
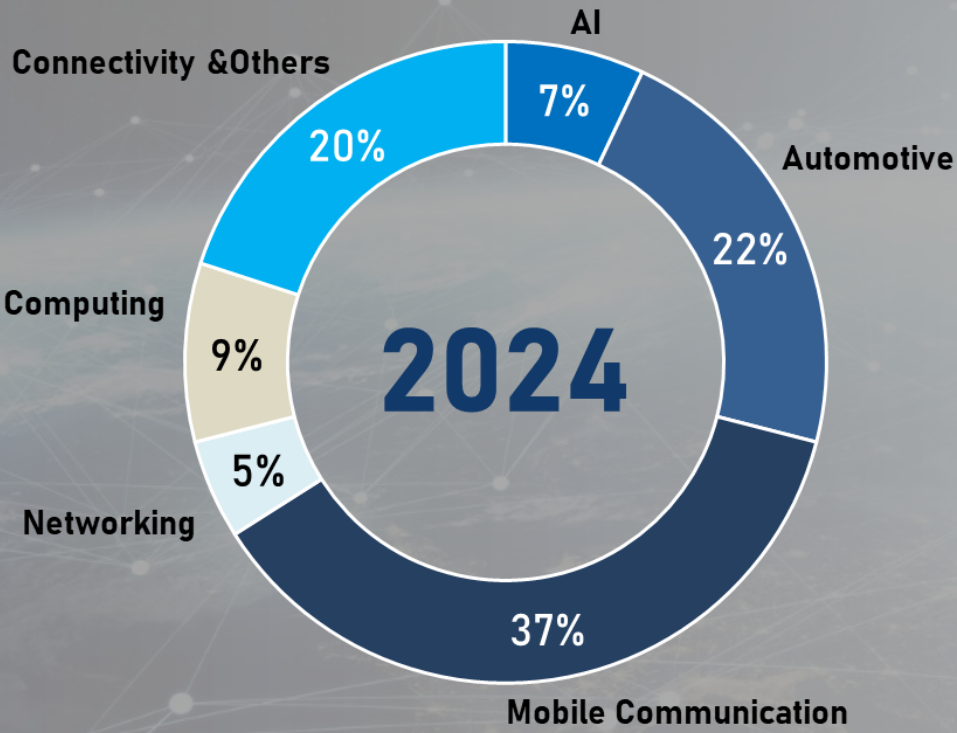
26% ▲

Advanced Product %

14.5% ▲

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	Q2'25	Q1'25	QoQ	YOY	H1'25	H1'24	YoY
營業收入	3,367	3,166	6.32%	15.19%	6,533	5,676	15.09%
營業毛利	1,131	1,120	0.98%	5.33%	2,252	2,074	8.59%
營業費用	582	605	-3.84%	3.54%	1,187	1,096	8.31%
營業淨利	550	515	6.64%	7.28%	1,065	978	8.91%
營業外收入及支出	-143	62	-332.25%	-226.82%	-81	294	-127.67%
稅前淨利	407	577	-29.52%	-34.94%	984	1,272	-22.68%
稅後淨利	370	472	-21.50%	-28.40%	842	1,054	-20.14%
基本每股盈餘(新台幣元)	1.08	1.38	-21.74%	-35.33%	2.46	3.40	-27.65%
營業毛利率(%)	33.61%	35.39%			34.47%	36.53%	
營業費用率(%)	17.28%	19.11%			18.17%	19.30%	
營業淨利率(%)	16.33%	16.28%			16.30%	17.23%	
稅前淨利率(%)	12.08%	18.22%			15.06%	22.41%	
純益率(%)	11.00%	14.90%			12.89%	18.58%	

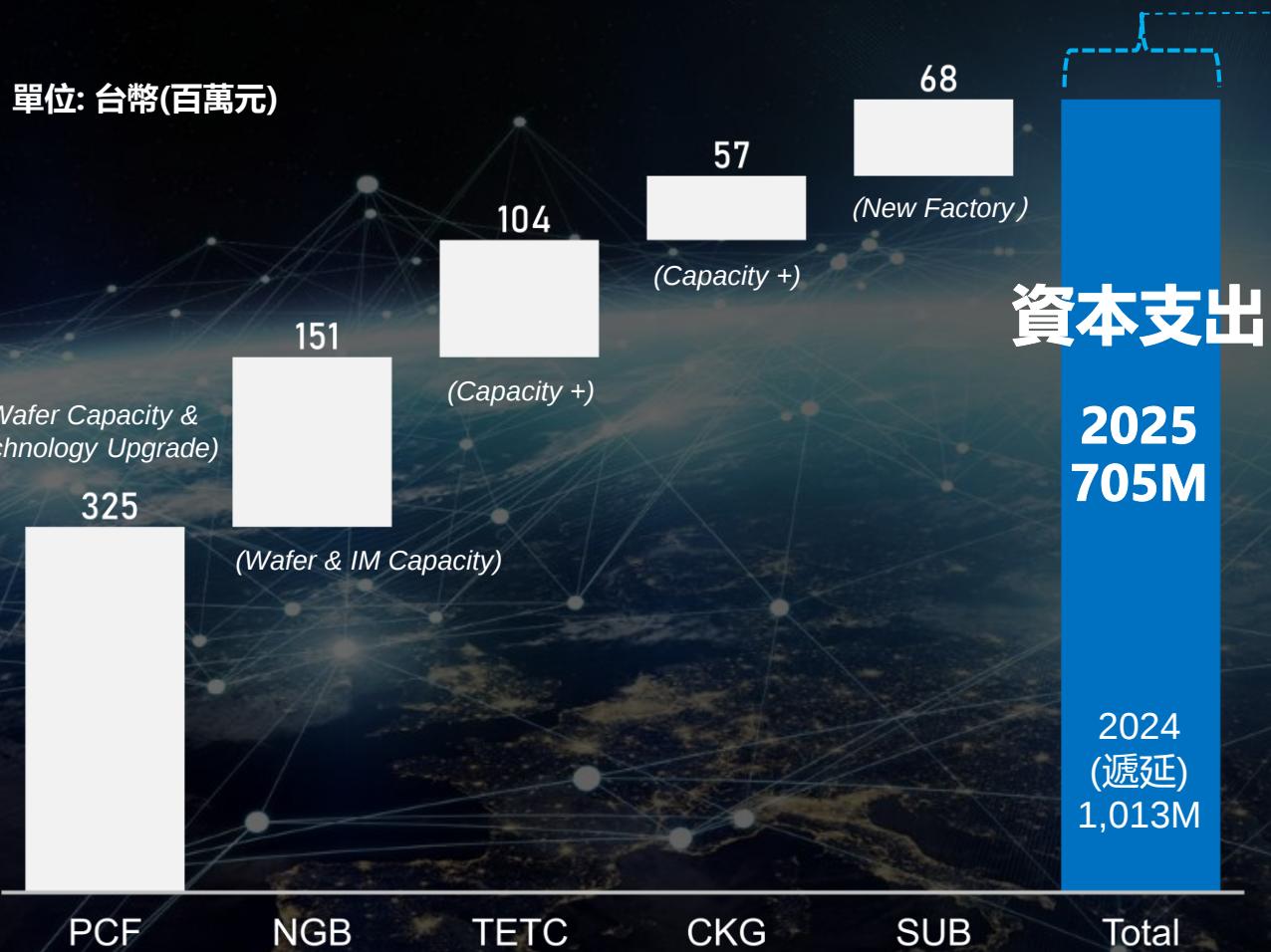
資產負債表

穩健成長，健康財務結構

單位: 台幣百萬 Item	Jun. '25		Dec. '24		Jun. '24	
	Amount	%	Amount	%	Amount	%
現金及約當現金	5,943	25.7%	3,906	17.6%	5,646	26.1%
應收票據及應收帳款	3,332	14.4%	3,760	17.0%	3,050	14.1%
存貨	2,789	12.0%	2,825	12.7%	2,844	13.2%
流動資產	14,063	60.8%	12,559	56.6%	12,776	59.1%
總資產	23,147	100.0%	22,171	100.0%	21,602	100.0%
流動負債	6,689	28.9%	4,199	18.9%	6,044	28.0%
非流動負債	1,789	7.7%	1,527	6.9%	3,454	16.0%
總負債	8,478	36.6%	5,726	25.8%	9,497	44.0%
合併股東權益	14,669	63.4%	16,444	74.2%	12,104	56.0%
平均收現日數	99		101		102	
平均銷貨日數	120		118		135	
流動比率(%)	210%		299%		211%	
負債比率(%)	36.6%		25.8%		44.0%	
總資產報酬率(%)	7.6%		10.6%		10.7%	
股東權益報酬率(%)	10.8%		15.1%		17.6%	

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



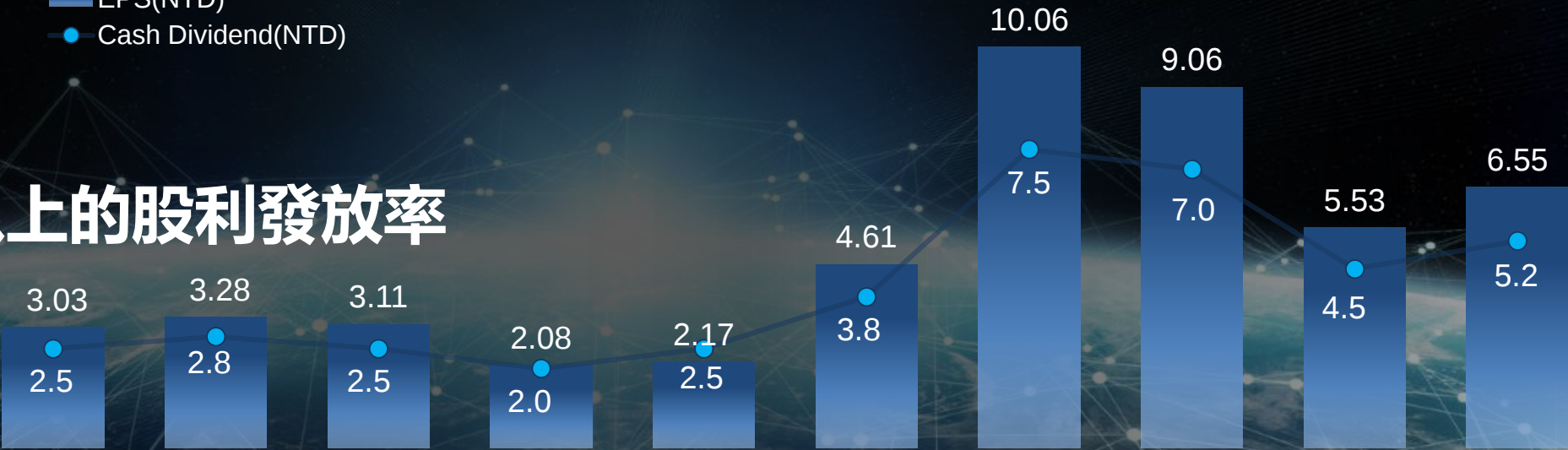
資本支出重點區塊說明	
◆ A+ Enhancements ✓ Core Technology ✓ Advanced Process ✓ Innovation Capability	◆ Smart Factory ✓ Smart Manufacturing ✓ Automation and Robotics ✓ Data Analytics and AI
◆ ESG Sustainability ✓ Environment ✓ Social Responsibility ✓ Governance	◆ N+1 New Factory ✓ Indonesia ✓ Japan ✓ Asia

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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