

系統電子營運說明會

5/31/2022

Sysgration Ltd.
(5309)

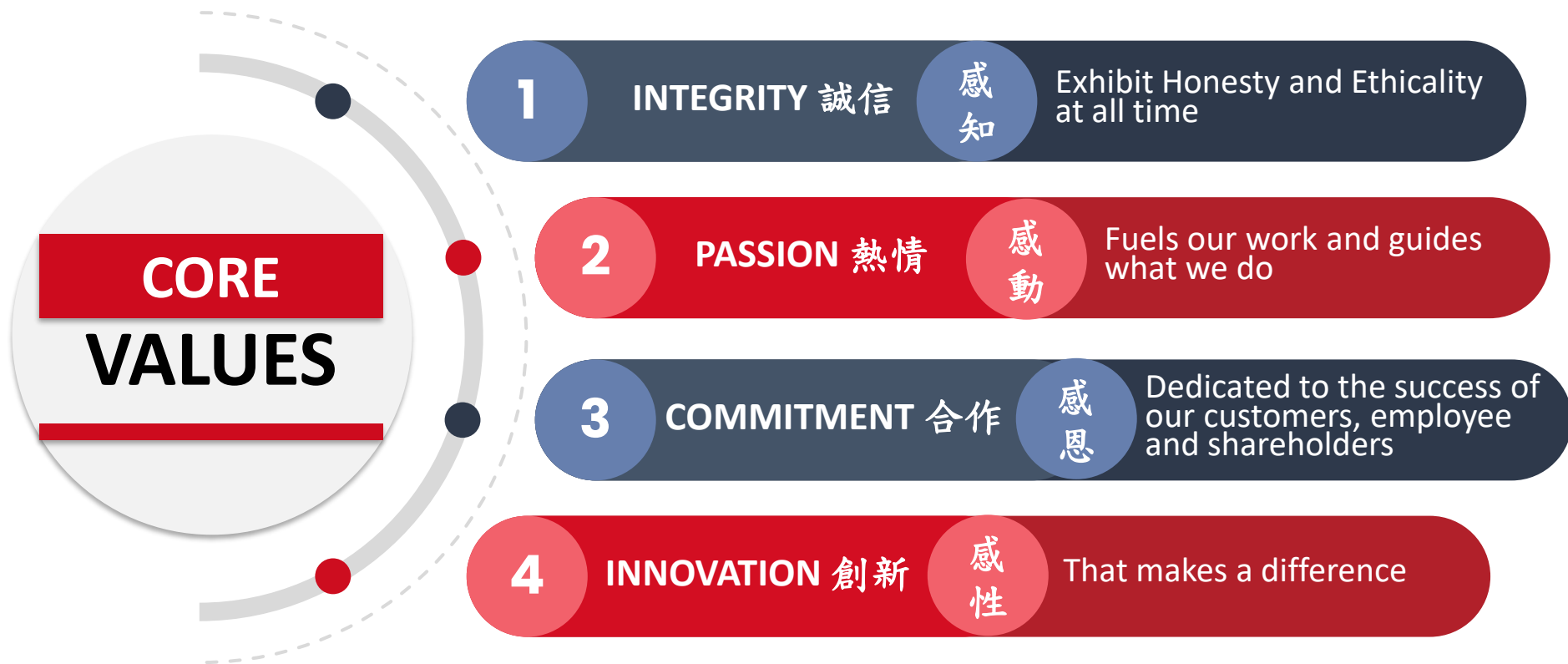
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Outline

- 01 **1** 經營策略方向與ESG進度 TF Hsieh
- 02 **2** 2022/Q1 營運績效摘要 TF Hsieh
- 03 **3** 營運成長動力 Sam Lee
- 04 **4** Q&A

經營策略方向與
ESG進度



營運方向與技術優勢

車用工業電子應用 Automotive Solutions

能源儲能管理應用 Power and Energy Management



Tire Pressure Monitoring Systems

電動車 Electric Vehicle

1. TPMS CAGR >9%
2. EV CAGR >80%
3. Bluetooth Patents

1
EV

3
ESS

儲能系統 Energy Storage System

1. ESS CAGR >45%
2. Global Power Shortage
3. Renewable Low Carbon Energy
4. 40-50 Patents



Li-Ion Based Energy Brick



Head-Mount AR Device

元宇宙/工業車聯網 Metaverse/IoV

1. Metaverse CAGR >70%
2. IoV CAGR >15%
3. IPC rugged design for harsh environment

2
Metaverse

4
LEOs

低軌衛星 Low Earth Orbit Satellites

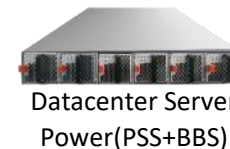
1. LEO CAGR >20%
2. LEO Satellite Communication
3. Millimeter Wave Transceiver
4. Datacenter Server Power



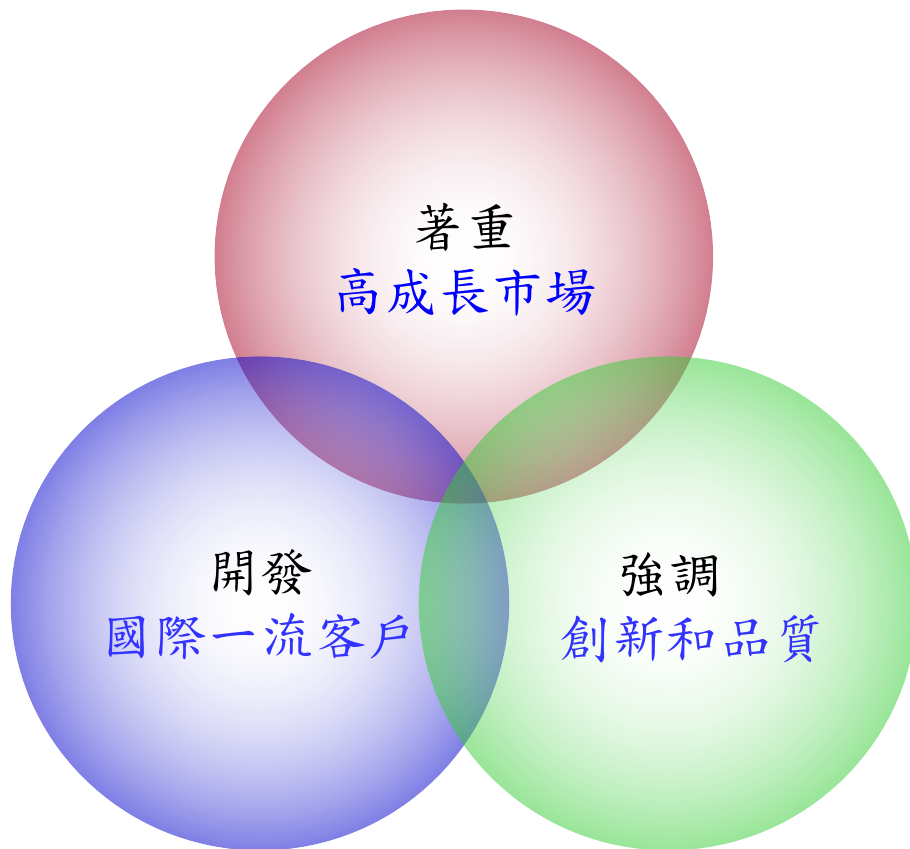
Satellite Communication



Industrial PC



Datacenter Server Power (PSS+BBS)



營運成長動力

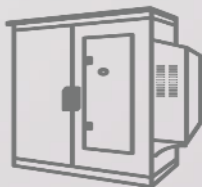


TPMS

- 車前
- 車後
- 車隊

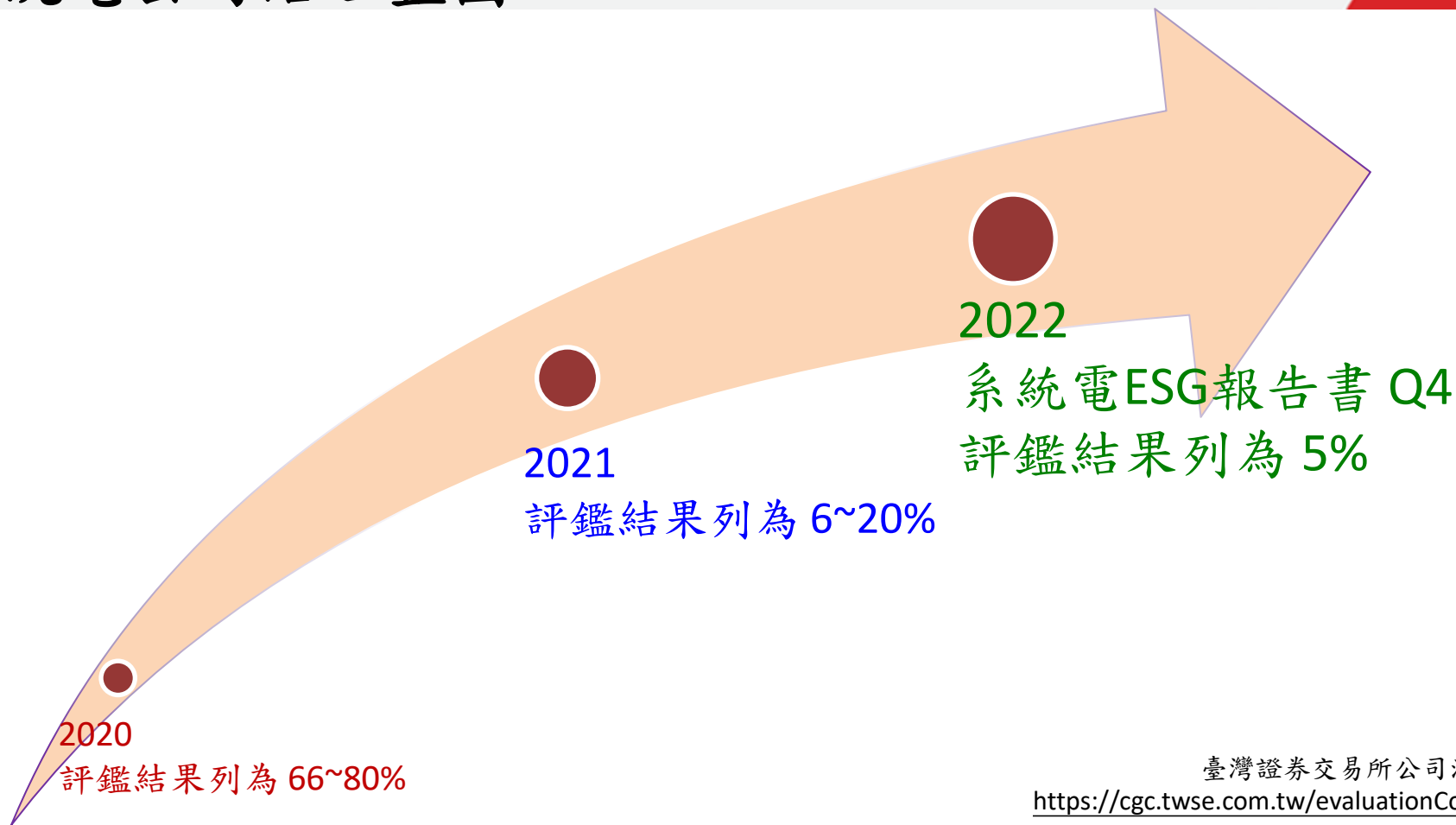
- 半導體工廠
- 社區
- 資料中心

ESS



IPC

- 商用車
- 工業車
- 強固平板



臺灣證券交易所公司治理評鑑
<https://cgc.twse.com.tw/evaluationCorp/listCh>

◆ 天下雜誌 2022/5/18 兩千大企業調查 成長最快公司

➤ #42 製造業

➤ #19 電子製造業



https://campaign.cw.com.tw/cwpage/2022_2000-266#event

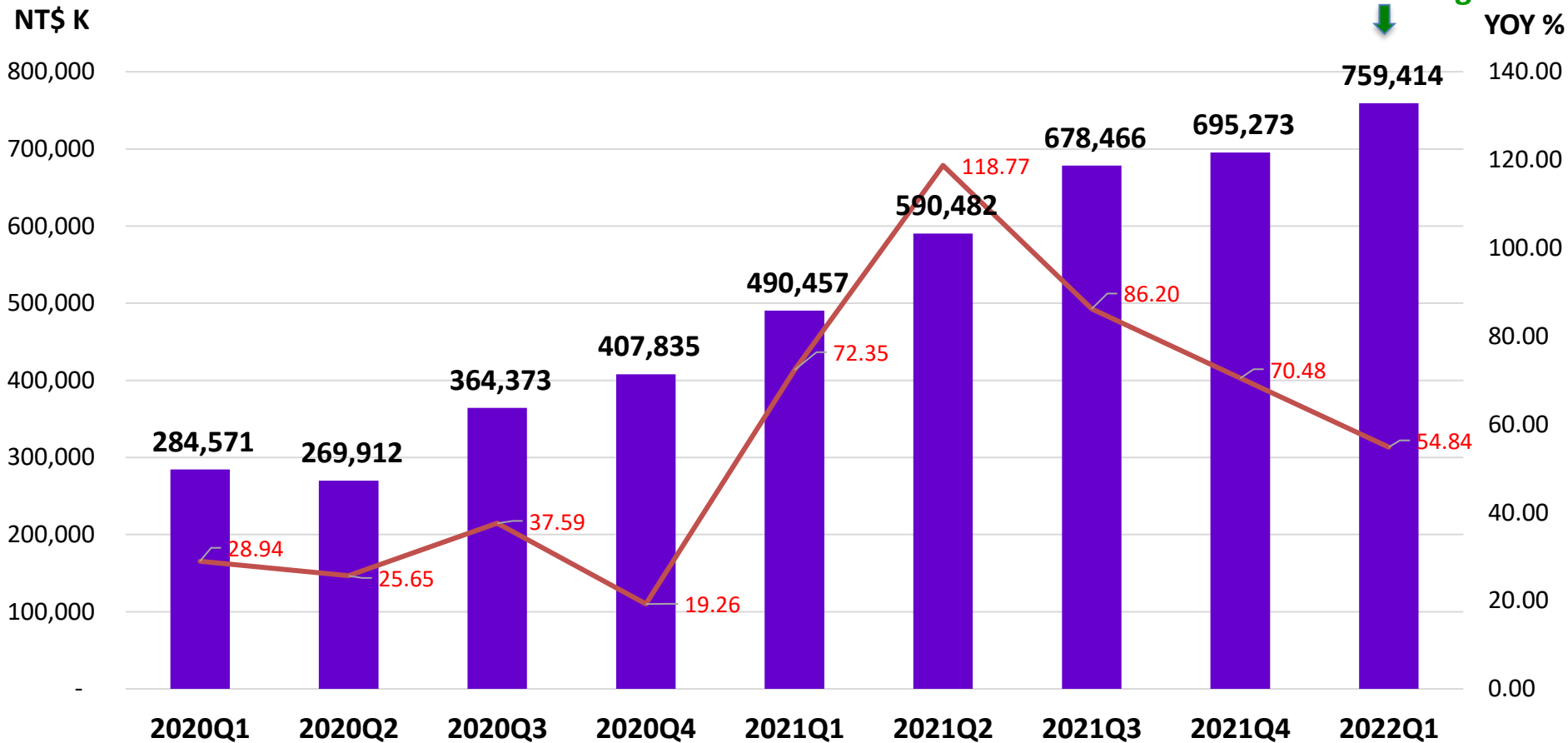
2022/Q1

營運績效摘要

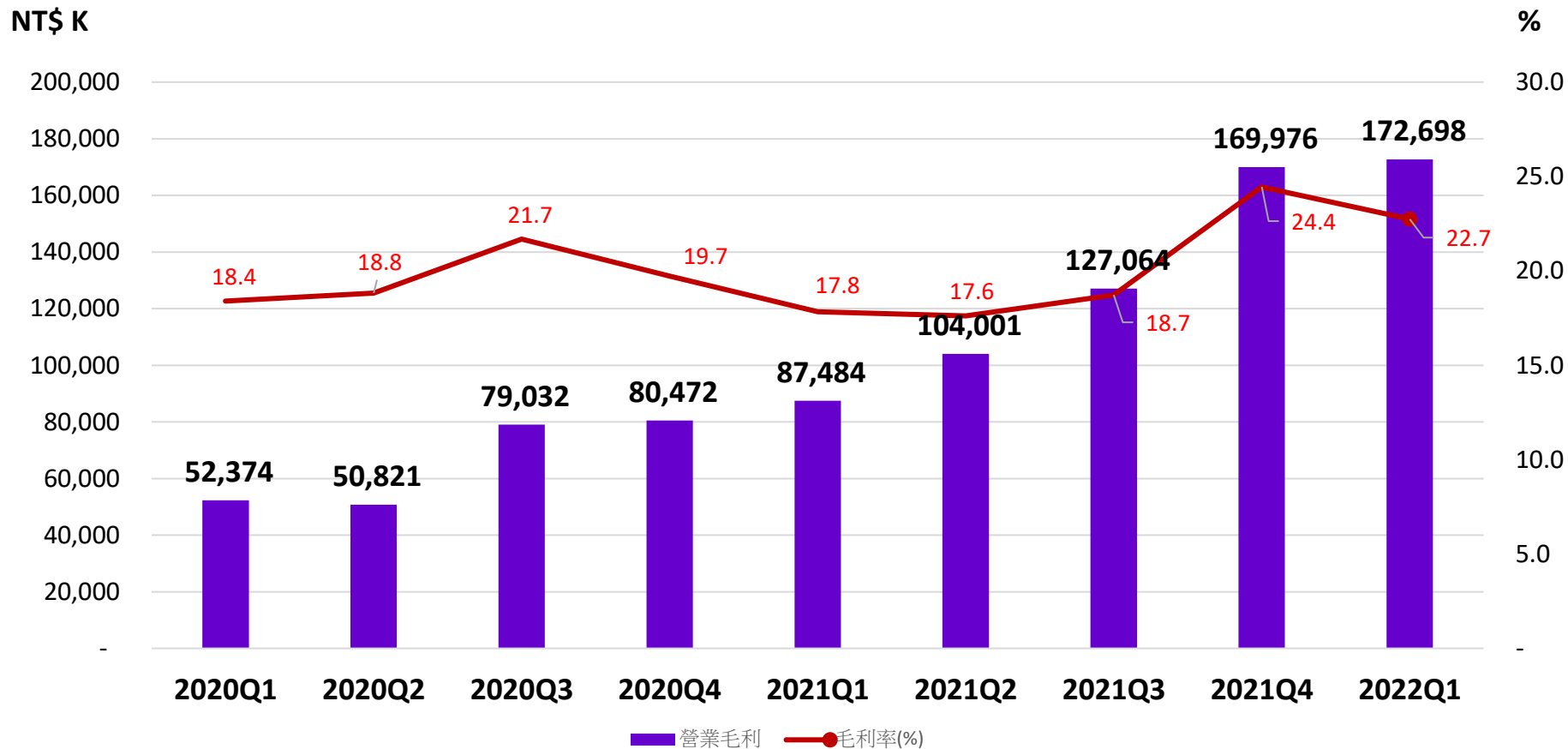
2022 Q1 營運成果

(新台幣千元)	2021								2022		YOY
	第一季		第二季		第三季		第四季		第一季		
項目	金額	%	金額	%	金額	%	金額	%	金額	%	%
營業收入	490,457	100.0	590,482	100.0	678,466	100.0	695,273	100.0	759,414	100.0	54.8
營業成本	402,973	82.2	486,481	82.4	551,402	81.3	525,297	75.6	586,716	77.3	45.6
營業毛利	87,484	17.8	104,001	17.6	127,064	18.7	169,976	24.4	172,698	22.7	97.4
營業費用	86,731	17.7	95,597	16.2	94,668	14.0	127,968	18.4	106,047	14.0	22.3
營業利益(損失)	753	0.2	8,404	1.4	32,396	4.8	42,008	6.0	66,651	8.8	8,751.4
營業外收入及支出	9,851	2.0	(1,730)	(0.3)	2,780	0.4	885	0.1	7,026	0.9	(28.7)
稅前淨利(損)	10,604	2.2	6,674	1.1	35,176	5.2	42,893	6.2	73,677	9.7	594.8
淨利(損)歸屬於母公司業主	9,717	2.0	6,679	1.1	33,845	5.0	45,106	6.5	73,464	9.7	656.0
基本每股盈餘(元)	0.06		0.04		0.22		0.29		0.48		700.0

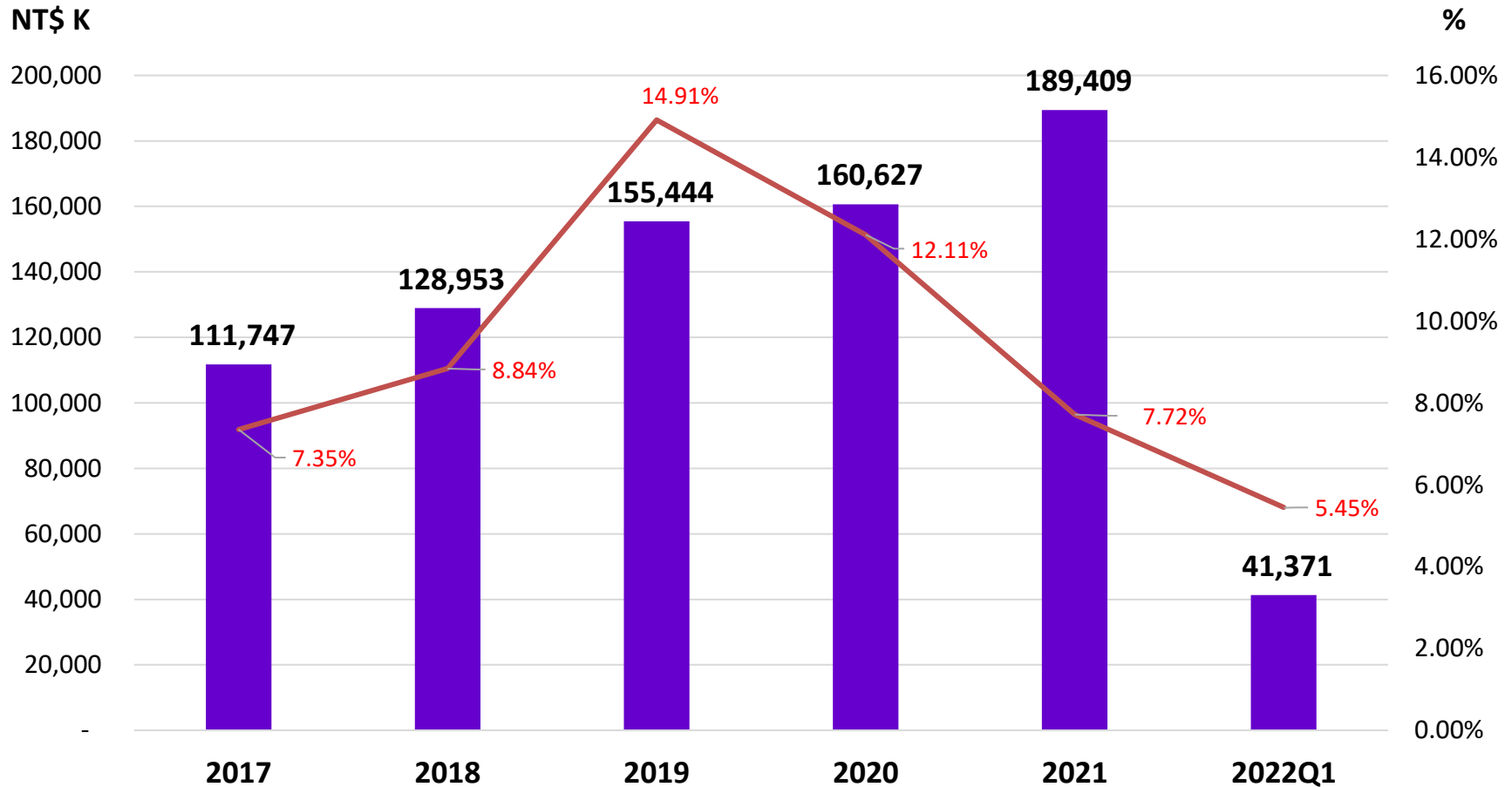
營業收入



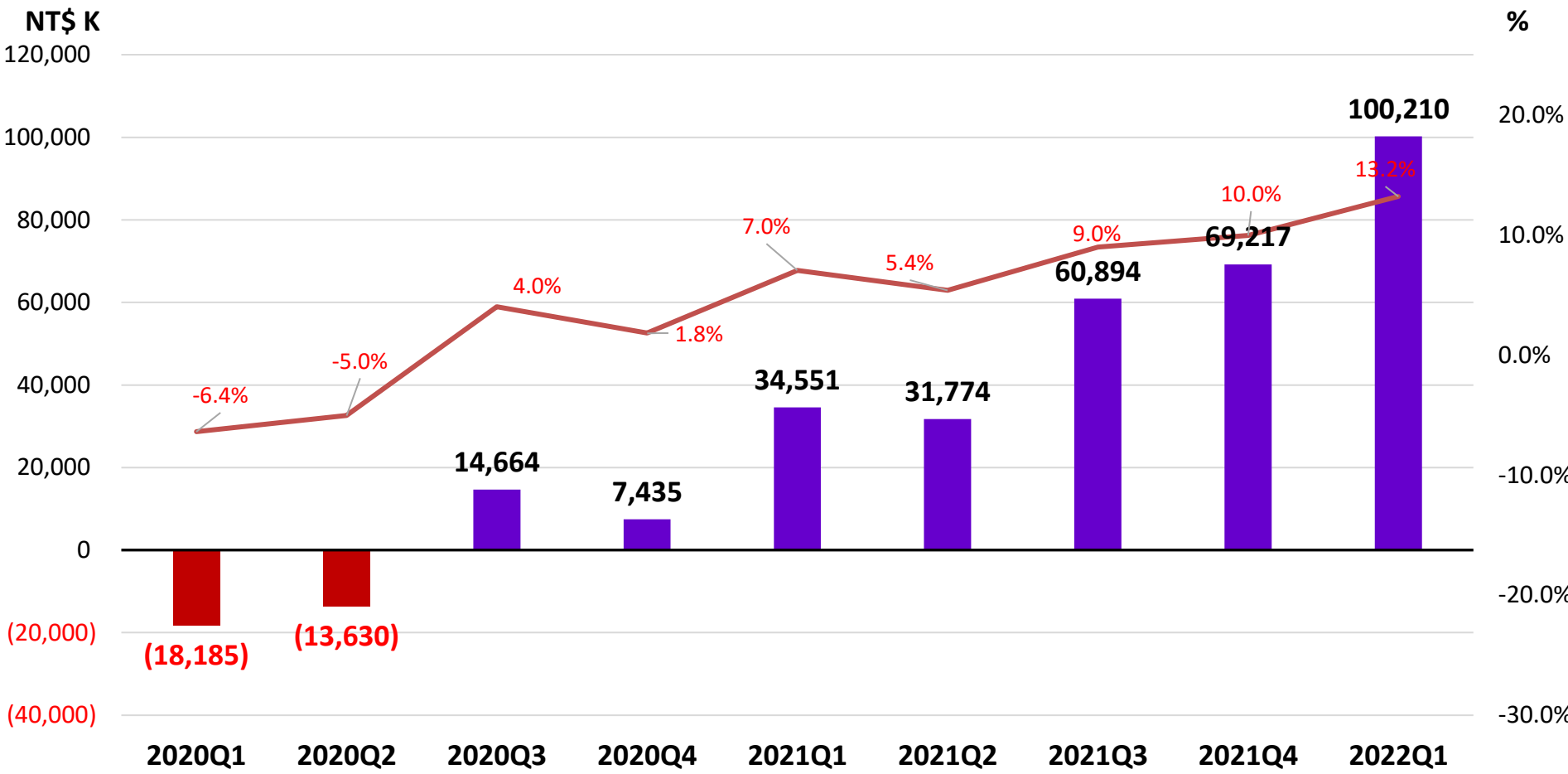
營業毛利和毛利率



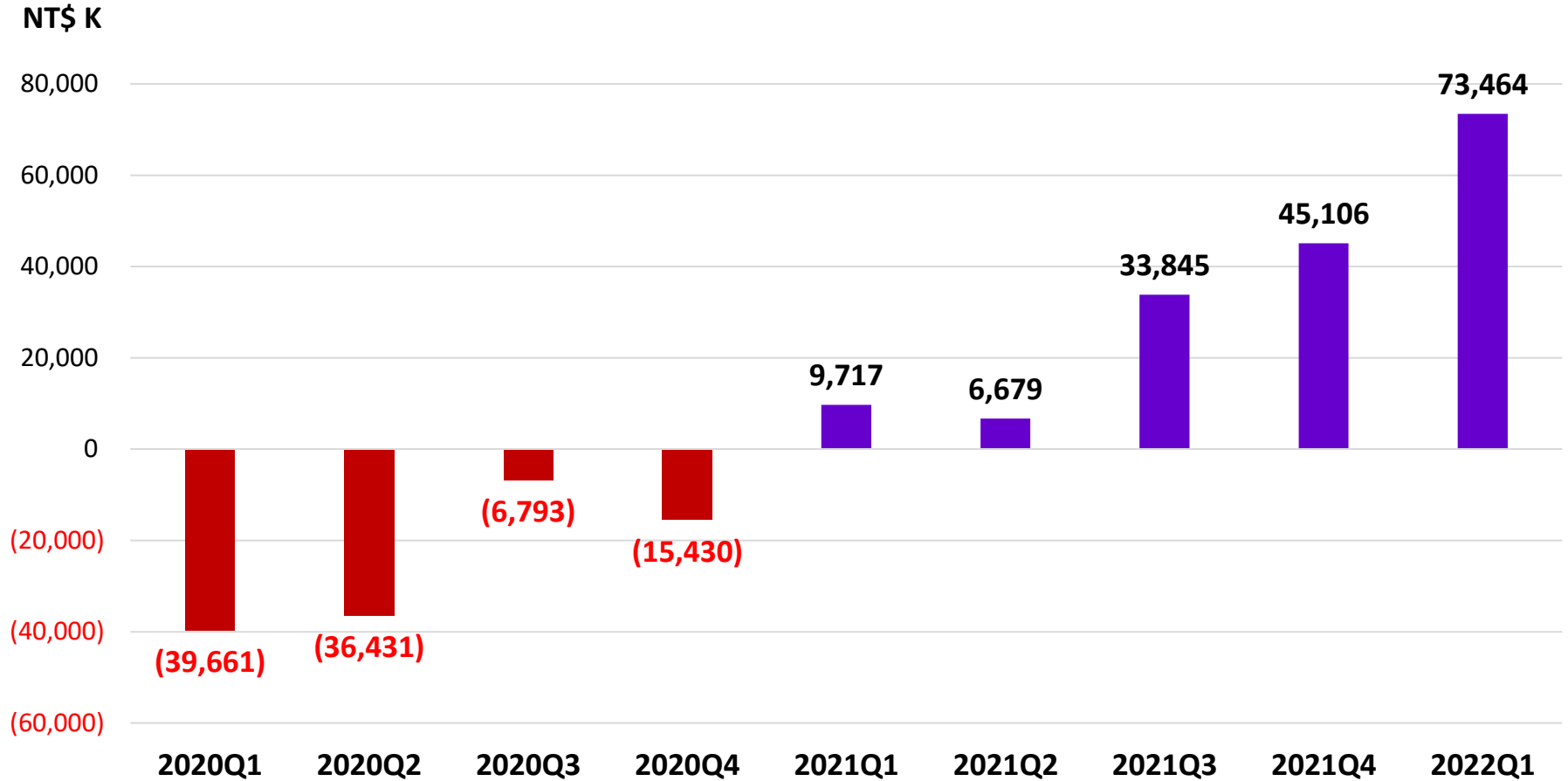
研發費用



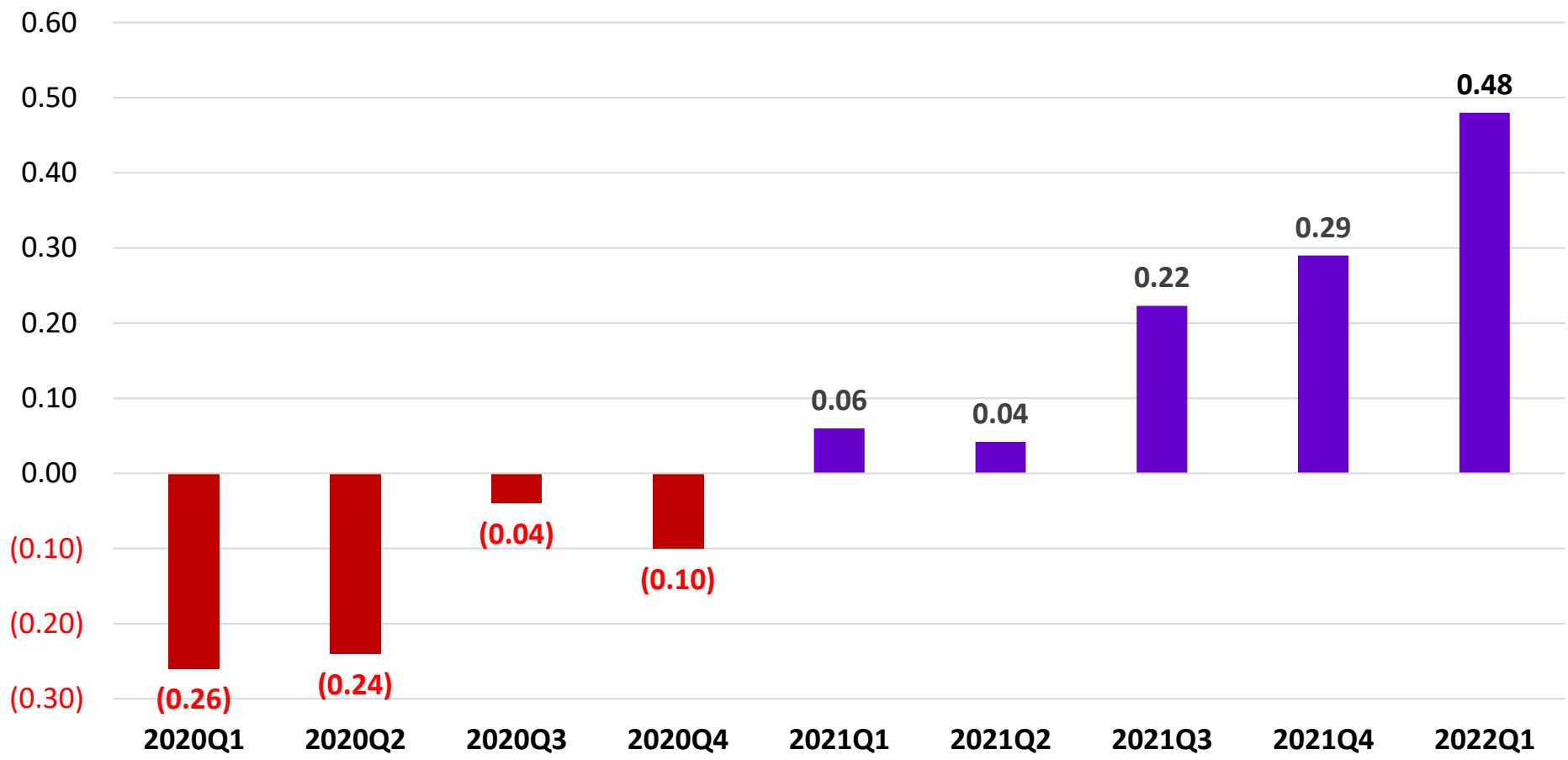
稅息折舊及攤銷前利潤 EBITDA



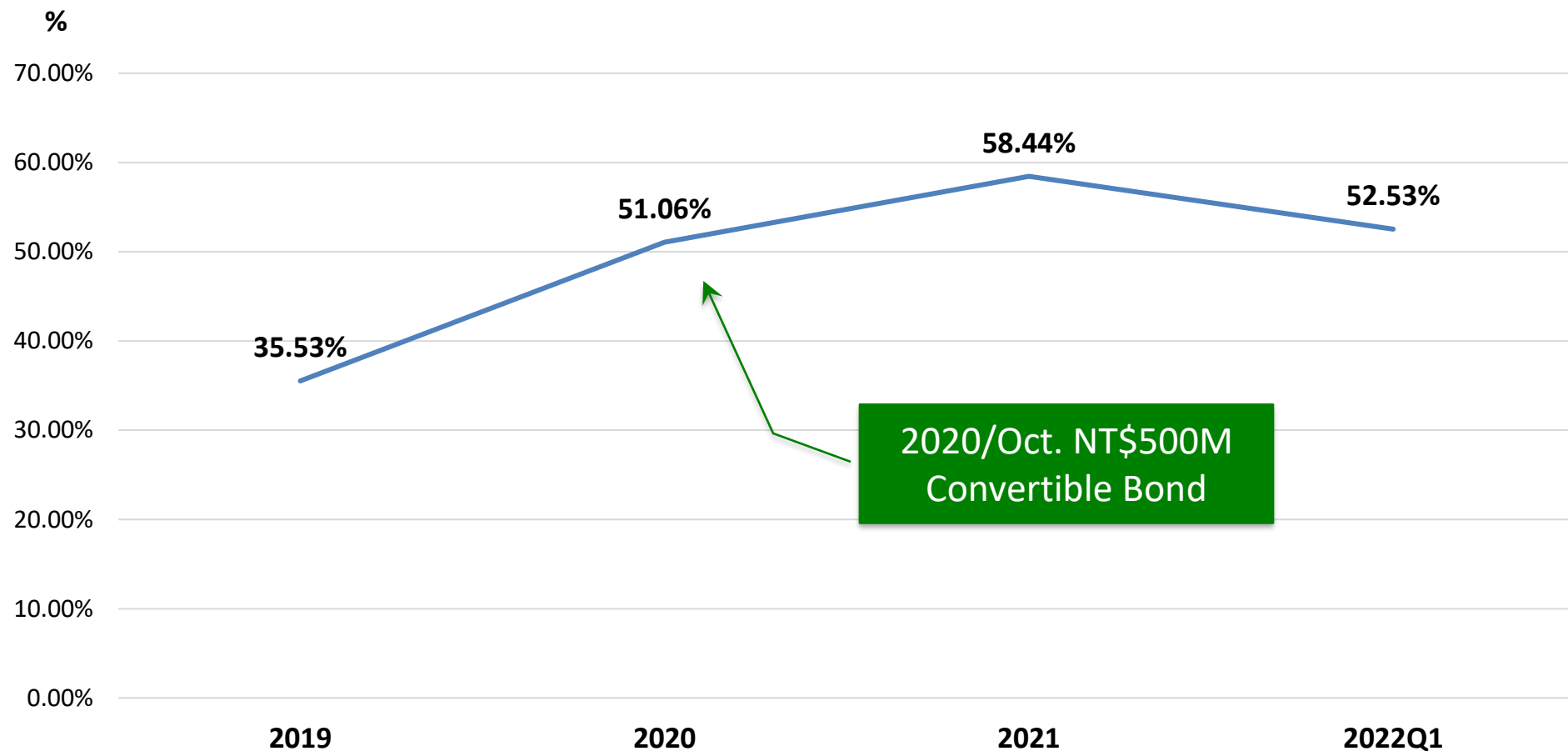
稅後淨利



每股盈餘



負債比



2020/Oct. NT\$500M
Convertible Bond

營運成長動力

系統電子綜觀



1977

Founded



500+

Worldwide
Employees



40+

Years
Design &
Manufacturing
Service Experiences



4

Locations
Taiwan - Taipei/NanKang
China - Huizhou/ZhenJiang



5309

TW Stock
Publicly Trade
Capital: NT\$1.5 B
Market Value NT\$6.5 B

• Sysgration
Founded in Taipei,
Taiwan

• IPO in Taiwan
(TPEX #5309)

• Rear-Seat
Infotainment System
to Germany and
Spain OE Customers

• BLE TPMS ODM for
Tire Brand Customer
• Li-Ion Battery Pack to
China EV Customer

• RF Dual-Band
Universal TPMS ODM
for US Wheel Channel

• BLE TPMS for OE
Customer
• PSU for Satellite
Ground Systems

1977

1988

1996

2009

2011

2011

2015

2016

2017

2018

2020

2022

2023

• Taiwan Factory
Established
• Started Mouse
ODM/OEM Business

• TS-16949 Certificated
• Tier-One Supplier of
Germany OE Customer
• Rear-Seat Infotainment
System to Japan Customer



• BLE TPMS ODM for
China OE Brand
• RV Control System
ODM for USA Tier-
One Customer

• UPS Li-Ion Battery
Pack for
Semiconductor Fab
• Smart Marine Control
System MP

• Rugged Vehicle
Terminal for
Construction
Vehicle MP

經營市場與主要產品

車用電子

Automotive Solutions

能源管理

Power and Energy Management



Wireless Camera Around-View System



Tire Pressure Monitoring Systems



Rugged Head-Mount AR Device



Li-Ion Battery Pack for Semiconductor Fab



Li-Ion Based Energy Storage Systems



80 Patents

40 Patents



Body Control Module



Industrial PC



Infotainment System



EV Battery Pack



Li-Ion Based Energy Brick



Construction/Agriculture Vehicles
CAGR ~12% by 2025



Electric Vehicles
CAGR ~80% by 2025



Semiconductors
CAGR ~25% by 2025



Renewable Energy Storage
CAGR ~28% by 2025

系統電子胎壓偵測器高價值差異化創新

WW 2nd

Multi-Band Universal RF TPMS



Efficient Inventory Management



Sensor Programmable

WW 1st & #1

BLE TPMS



Internal TPMS



External TPMS



Tire Mounted Sensor (TMS)



Voice Receiver



Display Voice Receiver



Truck Repeater



Trigger Tool for Truck

WW 1st

Tri-Band TPMS

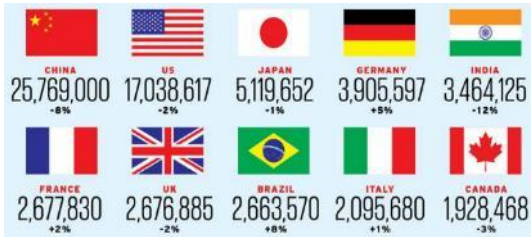


全球胎壓偵測器法規與需求

Country	Car Sales	Subtotal	TPMS Legislation
China	25,769,000	56,092,077	O
USA	17,038,617		O
Canada	1,928,468		O
Germany	3,905,597		O
France	2,677,830		O
UK	2,676,885		O
Italy	2,095,680		O
Japan	5,119,652	11,247,347	X
India	3,464,125		X
Brazil	2,663,570		X
Subtotal	67,339,424		



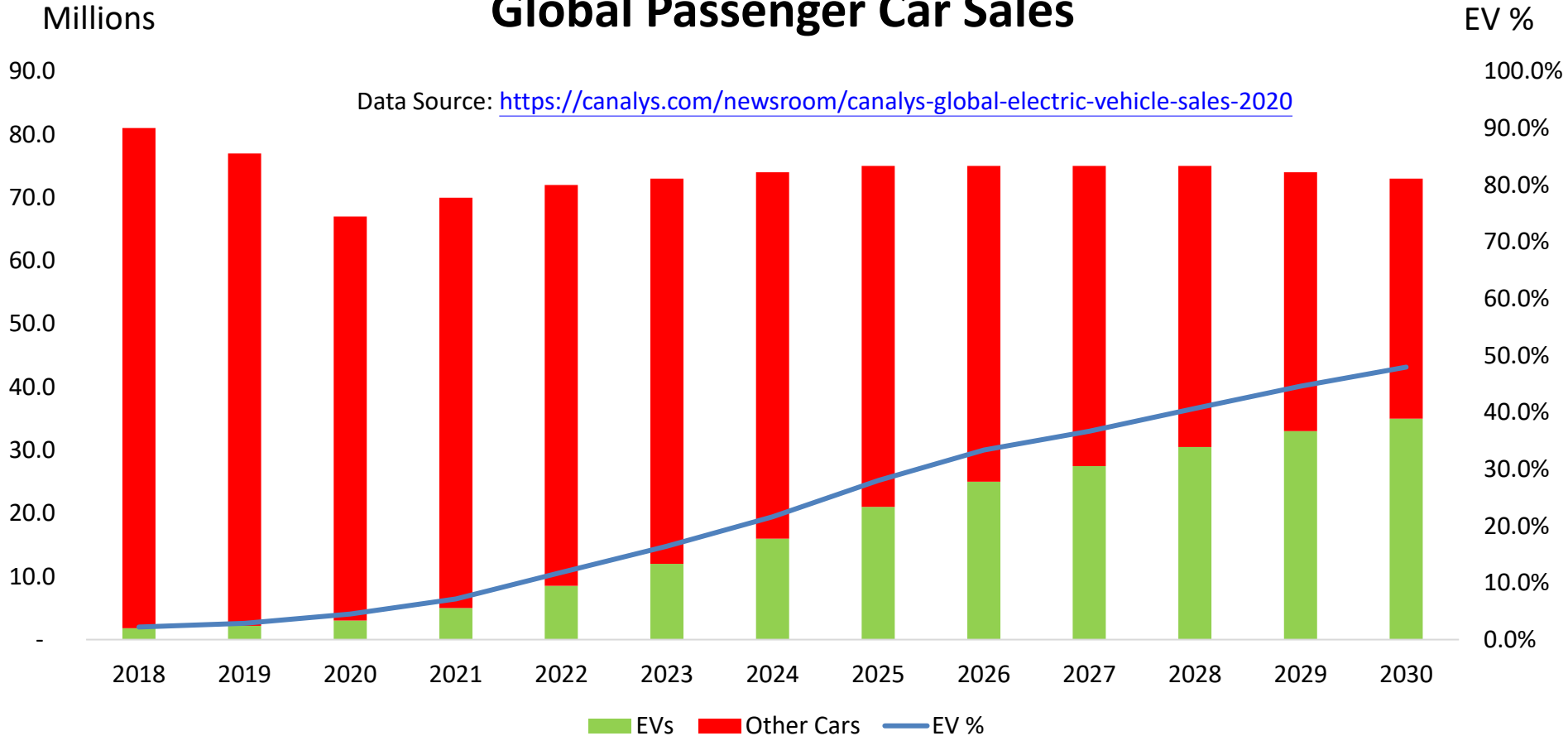
Annual **300M** Pcs OE Demands
plus **100M** Aftermarket Demands



Data Source: Autocar <https://www.autocarindia.com/industry/global-car-sales-2019-an-in-depth-analysis-416557>

Global Passenger Car Sales

Data Source: <https://canalys.com/newsroom/canalys-global-electric-vehicle-sales-2020>

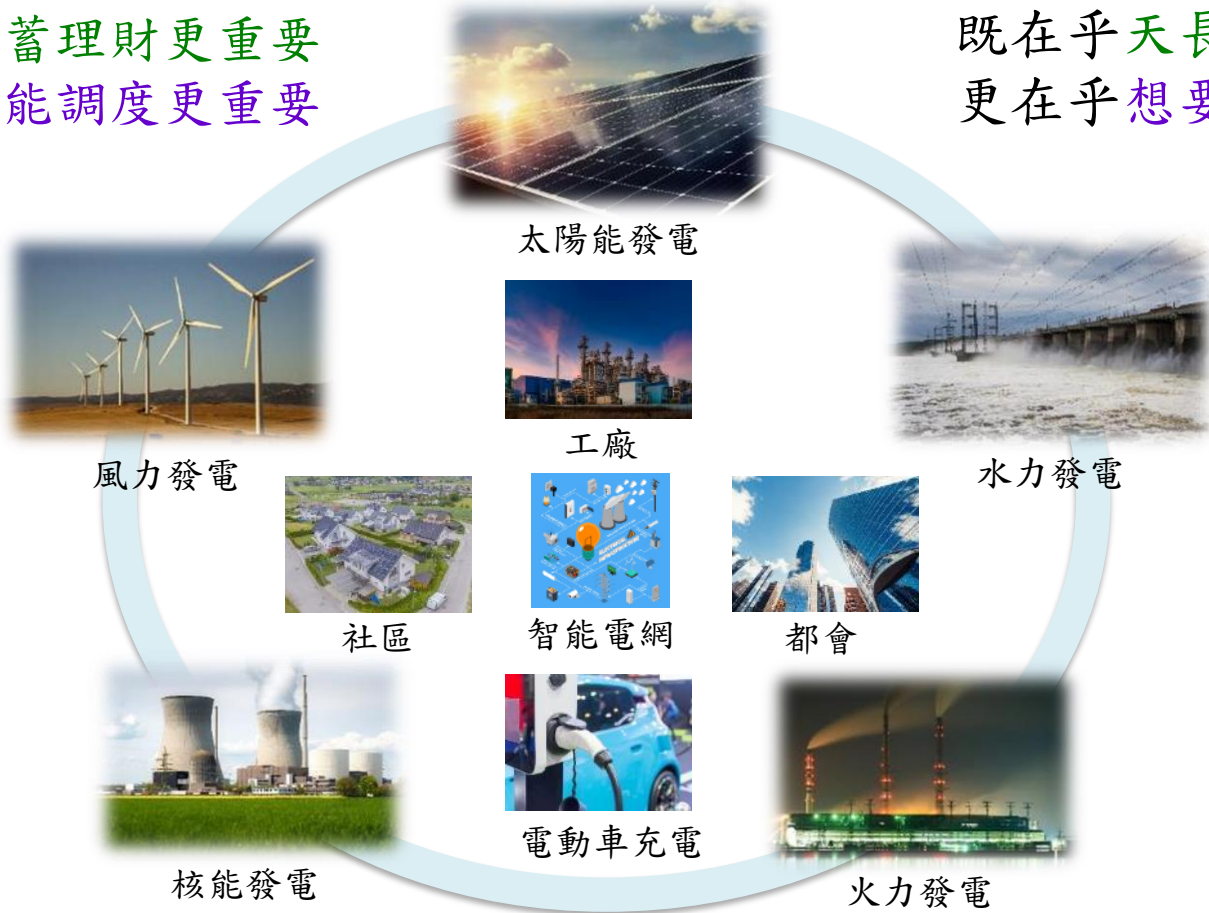


EVs Other Cars EV %

儲能與智能電網之關聯

賺錢很重要 儲蓄理財更重要
發電很重要 儲能調度更重要

既在乎天長地久
更在乎想要就有



太陽能發電



工廠



水力發電



都會



智能電網



社區



風力發電



核能發電

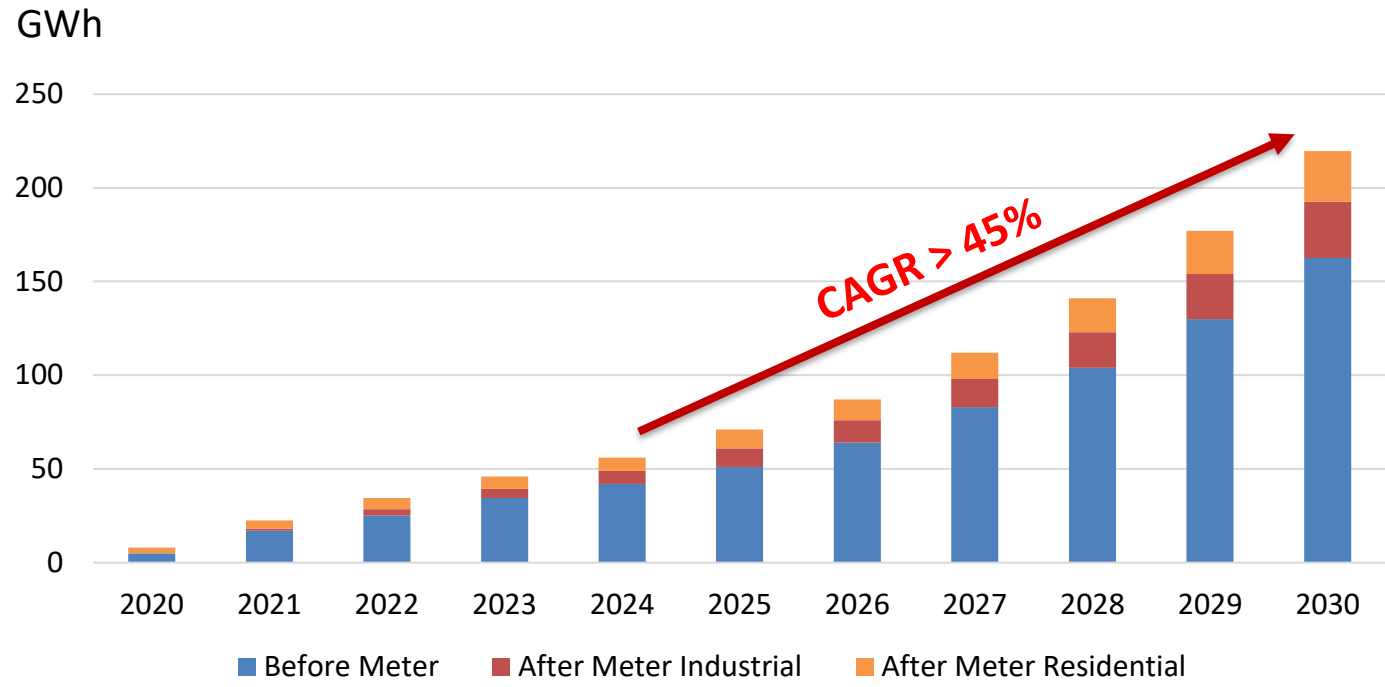


電動車充電



火力發電

全球儲能市場成長趨勢



2020 10GWh → 2021 25GWh → 2025 70GWh → 2030 200GWh



不斷電系統
UPS ESS



分散式儲能
Distributed
ESS



貨櫃式儲能
Container ESS

Source: Statista InfoLink

儲能市場區隔

電網位階
Grid Level

電網側
Before Meter

調頻服務
AFC



需量反映
FRR



削峰填谷
Time Shift



工商錶後
After Meter
Industry

不斷電
UPS



用電大戶
Load Management
Peak Shaving



風/光儲能
Wind/Solar
ESS



家用錶後
After Meter
Residential

家用儲能
Residential
ESS



動力
Power Type

混合
Hybrid Type

能量
Energy Type

儲能產品



UPS 不斷電系統

- 停電時可立即供電5~30分鐘，避免設備造成損害
- 適用於半導體廠
- 穩定電源供電



分散式儲能 100~200度電

- 提供十戶家庭二小時用電
- 取代柴油發電機，緊急供電
- 無噪音，無空污，免保養，無須儲存柴油
- 夜間離峰充電，舒緩用電
- 內建消防設備



貨櫃式儲能 500~3000度電

- 適用於大型案廠儲能二小時用電
- 提供消峰填谷、降低契約容量及節電等效益
- 新架構提供最低每度電使用成本

工業車聯網應用



建設機械 **CAGR: 4.2%**
Construction Equipment



精準農業 **CAGR: 13.1%**
Agriculture Precision Farming



強固車用電腦
Rugged Vehicle Terminal



強固平板
Mobile Device Terminal



車身控制器
Body Control Module(BCM)
Vehicle Gateway



無線車用鏡頭
Vehicle Surveillance
ADAS System



卡車/車隊管理 **CAGR: 15%**
Truck Fleet Management

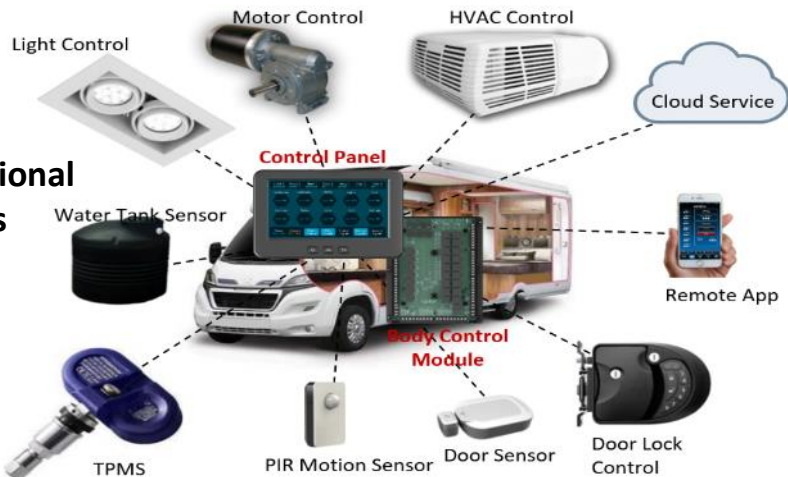


海事 **CAGR: 4.8%**
Marine



露營車 **CAGR: 10.3%**
Recreation Vehicle

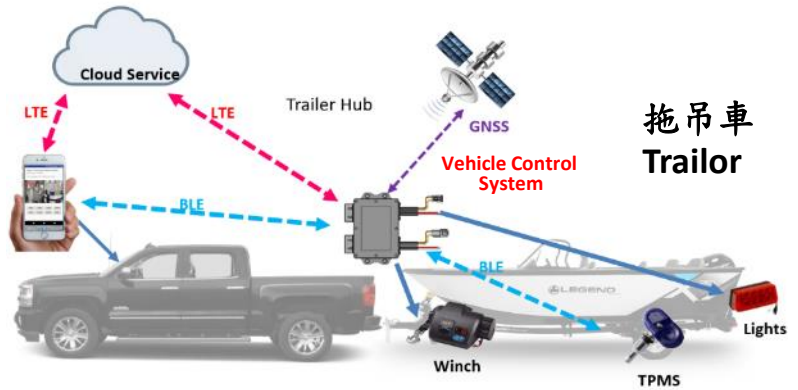
露營車 Recreational Vehicles



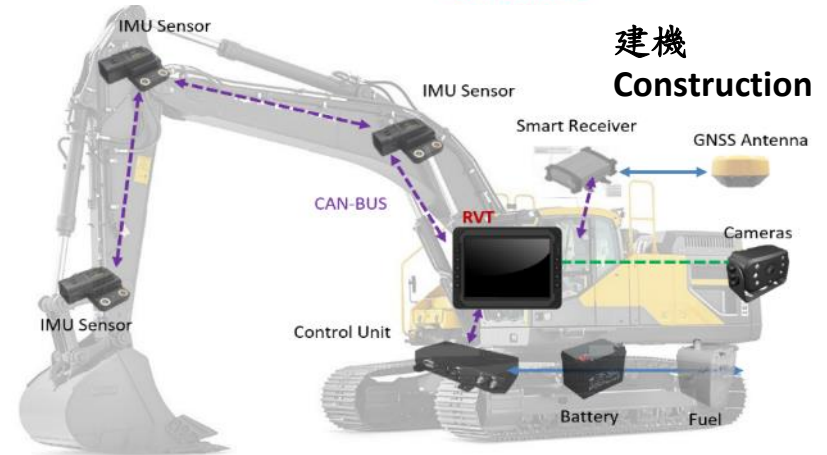
海事 Marine



拖吊車 Trailer



建機 Construction



技術與能力提升

商用車電腦



Industrial NXP Processor with Android



-20~70° Wide Temp



9~36V Wide Voltage with Load Dump protection



BT & Wi-Fi Integration

強固車用電腦



Powerful NXP Processor with Android



-30~70° Wide Temp



9~36V Wide Voltage with Load Dump protection



BT, Wi-Fi, GNSS Integration



High Brightness Display with UV Protection & Wet and Glove Touch Mode



1.2M Drop, Shock and Vibration Proof & IP66 Waterproof

強固平板電腦



Powerful Qualcomm Processor with Android



-20~60° Wide Temp



Full day Hot-Swappable Battery with fast charge



BT, Wi-Fi, GNSS & 5G Integration



High Brightness & Transflective Display with UV Protection & Wet and Glove Touch Mode



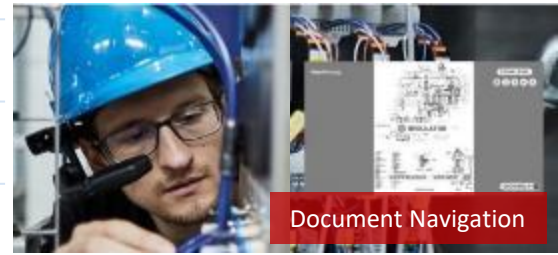
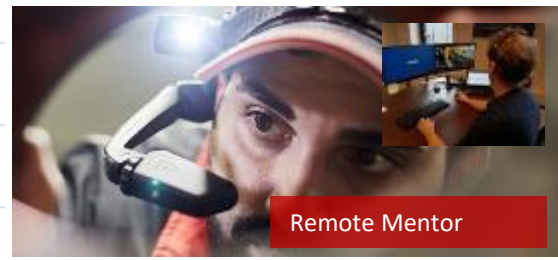
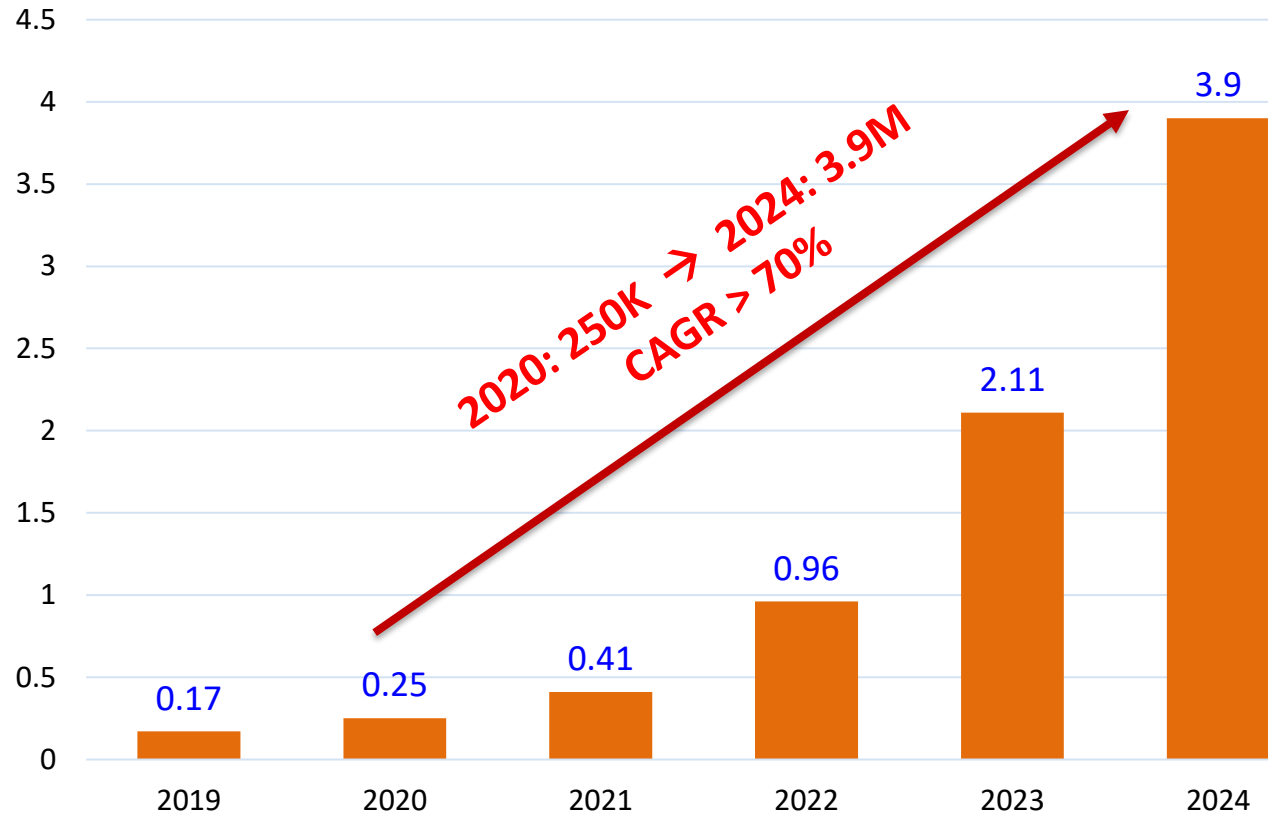
1.8M Drop, Shock and Vibration Proof & IP65 Waterproof

元宇宙趨勢商機



realwear

Millions



Source: Statista 2021

元宇宙應用和市場



石化
Petrochemical



遠程協作 Remote Assist



視覺檢貨 Vision Picking



物流倉儲
Logistic & Warehousing



能源
Energy



擴增實境作業書 AR SOP



遠距醫療 Telehealth



醫療
Medical



智慧製造
Smart Manufacturing



電信業者
Telecom

技術與研發能力



Vehicle Ready

Ruggedization



Platform & OS

RF Technologies & Power

ODM / DMS

強固型行動裝置技術門檻



**Android 12 GMS
Qualcomm SD6490**



**FHD/1,000nits
Sunlight Readable**



**IP65; 1.8M Drop
-20~60°C**

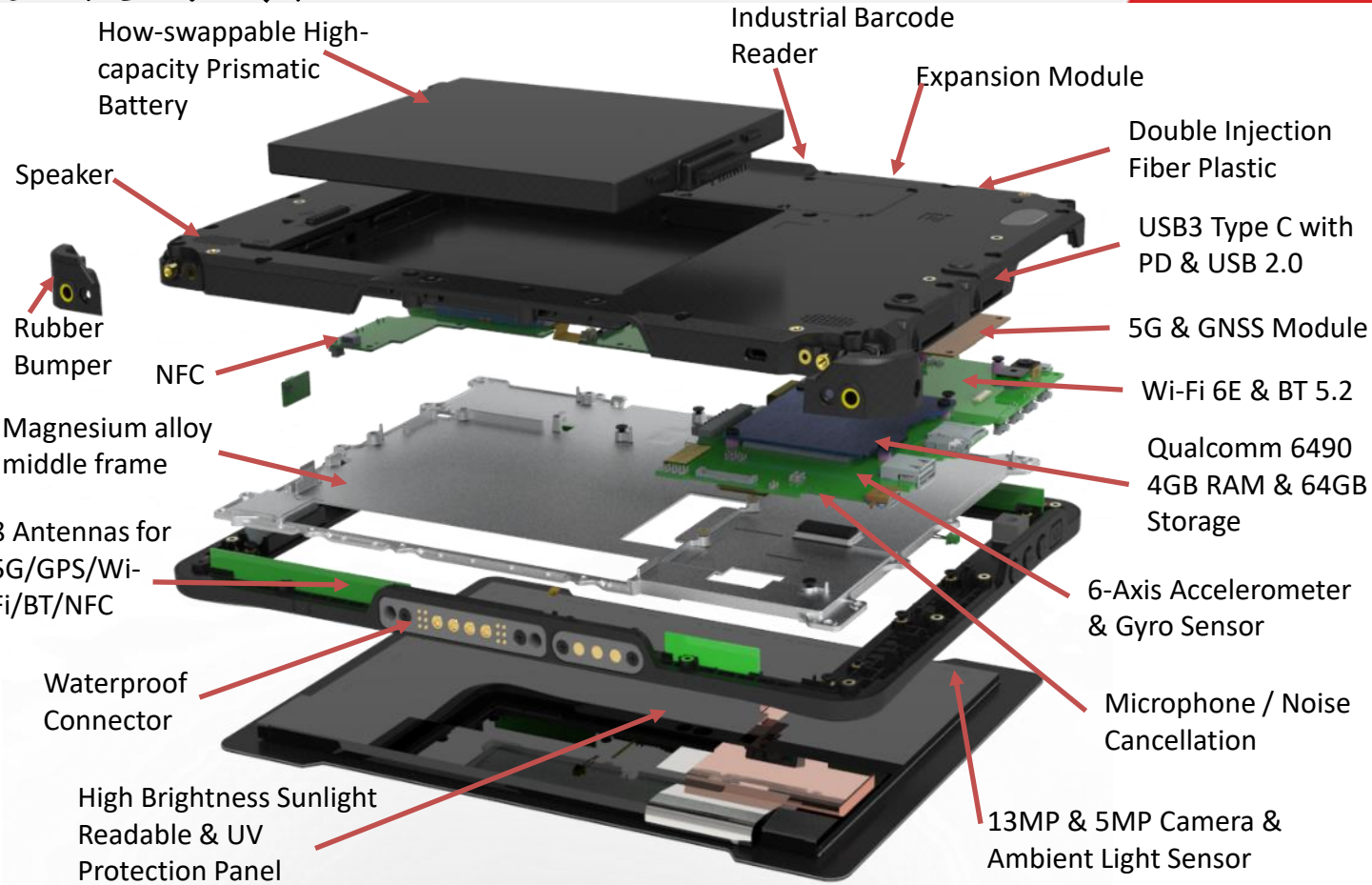


**Hot-Swap Battery
for 8 Hours**



**5G, GNSS, Wi-Fi,
BT Integration**

System Parts: 1,077 parts
(150 ME parts, 727 EE parts)



車用設計 Automotive Design

High quality design and manufacturing methodology following IATF-16949 & ISO26262 Automotive Standard

行動裝置設計 Mobile Design

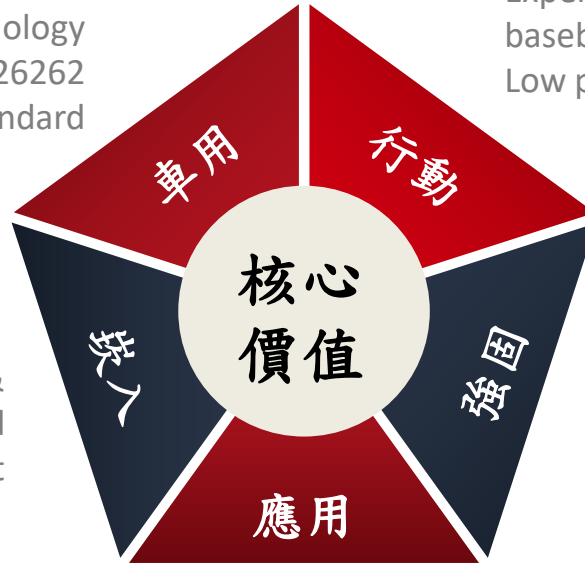
Experienced 5G, Wi-Fi, BT & NFC baseband and RF design with PTCRB. Low power and full-day battery design.

嵌入了設計 Embedded Design

Best-in-class industrial & automotive grade embedded design with longevity support

強固設計 Rugged Design

Military standard with wide-temperature, drop & shock resistance and water & dust proofing



場域應用 Application Focus

Deep integration, know-how and certification with highly flexible and customizable hardware and software design

總結和期許

系統電結論及展望

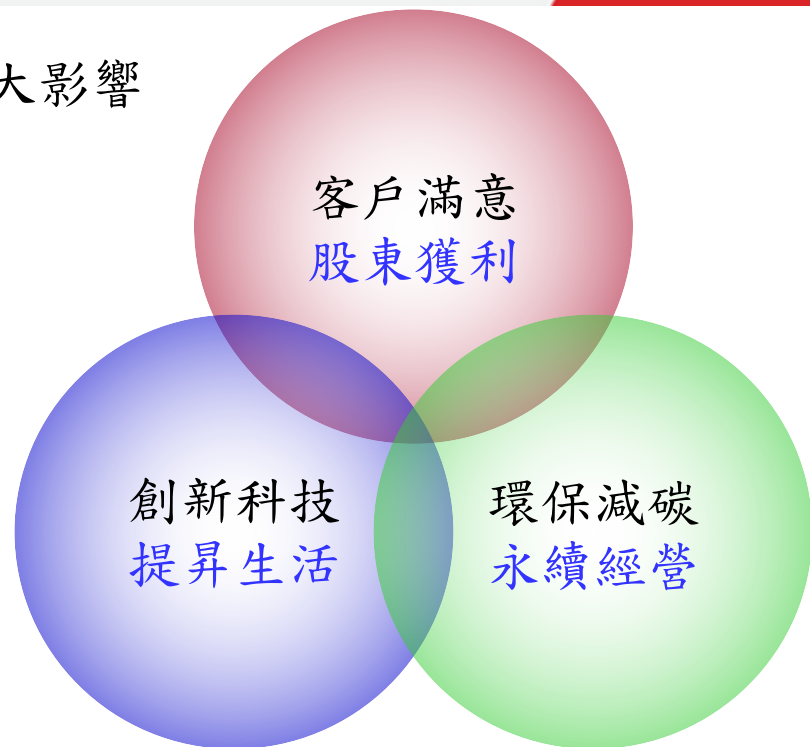
◆ 俄烏戰爭、台灣和大陸疫情爆發對營運無重大影響

◆ 產業前景展望

1. 電動車TPMS市場需求強勁
2. 半導體廠設備鋰鐵電池為綠能趨勢
3. 農耕機強固型工業電腦動能持續成長

◆ 產能持續擴充、營運獲利逐季增長

◆ 強化ESG公司治理、儲能碳中和政策



Sysgration integrates sustainability into business practices for human life enhancement, that will benefit profitability of the company.



Q&A



Thank You