

Sensortek Technology Corp.

昇佳電子股份有限公司

論壇簡報

4Q 2020



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昇佳電子股份有限公司

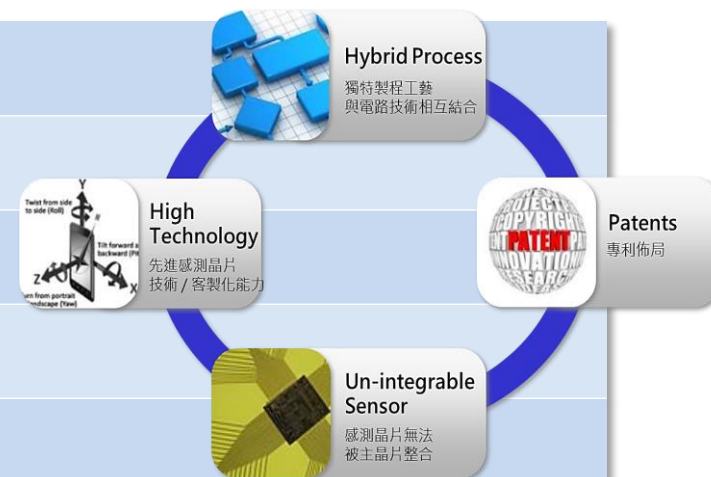
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- This presentation includes forward-looking statements. All statements, other than statements of historical facts, that address activities, events or developments that Sensortek Technology Corp. expects or anticipates will or may occur in the future (including but not limited to projections, targets, estimates and business plans) are forward-looking statements.
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- Sensortek does not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

I. 公司簡介

關於我們

Company Name	Sensortek Technology Corp.
Founded	December 1, 2009
Capitalization	NT 489,126,180.
Chairman and CEO	Sheng-Su Lee
Number of Employees	163
Location	Tai Yuen Hi-Tech Industrial Park, Jhubei City, Hsinchu County
Major Products	• 光學感測晶片(Optical Sensor) - 近接感測晶片(Proximity Sensor, PS) - 環境光感測晶片(Ambient Light Sensor, ALS) - 色彩感測晶片(color temperature sensor, RGB) _ 2019 • 微機電感測晶片(MEMS Sensor) - 加速度感測晶片(Accelerometer Sensor, GS)

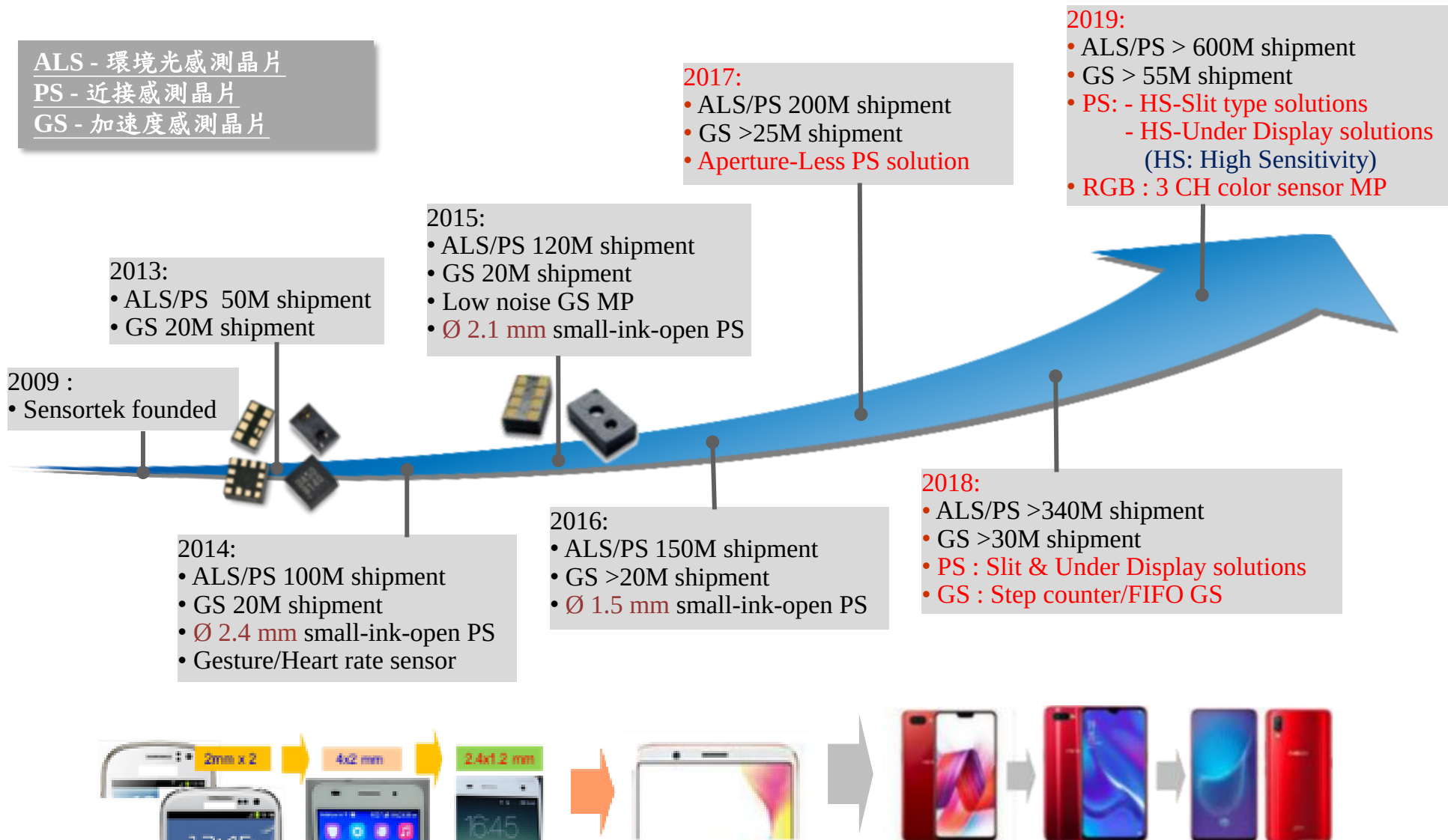


Taiwan stock market :

TPEX (上櫃): listed at Taipei Exchange market (TPEX) : 2020/06/08

TESM (興櫃): listed at emerging stock market (TESM) : 2019/06/18

產品發展歷程



II. 產品簡介

光學感測晶片 (Optical Sensors)

Optical sensor applications :

Proximity Sensors (PS)

近接感測晶片 → 關屏(防誤觸)
turn off display (Anti-touch)

Ambient Light Sensors (ALS)

環境光感測晶片 → 調節螢幕亮度
screen brightness control

Color temperature Sensors (RGB)

色溫感測晶片 → 調節螢幕色溫
screen color temperature control



PS + ALS shipment

2018 : >340M pcs

2019 : >600M pcs

1Q~3Q_2020 : >520M pcs

Ambient light detection series

G1. PS (w/T) + ALS (2in1 visible solution)

G2. PS (w/T) + ALS (2in1 invisible solution) 2018

- Under-display (屏下方案) → for AMOLED displays

- Slit type (狹縫方案) → for TFT displays (w/ backlight)

Color detection series (flagship solution)

G3. PS (w/T) + RGB sensors (visible solution) 3Q_2019

(for better reading experience / 提供最佳閱讀體驗)

ALS / PS Layout Trends

Waterdrop Screen

狹縫(Slit) ALS/PS

狹縫(Slit) PS / 屏下 ALS

前攝旁 ALS/PS
(Aside of Front Facing Camera)



Bezel-less Screen

屏下(Under-display) ALS/PS

狹縫 (Slit) PS / 屏下 Under-display ALS



AMOLED 顯示屏演進 → 帶動感度持續提升

- G1. PS (w/T) + ALS (**visible** sensor hole solution) x1
- G2. PS (w/T) + ALS (**invisible** sensor hole solution) → High sensitivity x3 → x6 → x10
 - Under-display solution (for AMOLED displays)
 - Slit type solution (for TFT displays w/ backlight)
- G3. PS (w/T) + RGB sensors (**visible** sensor hole solution) → **invisible solution (G4)**

水滴屏 (Teardrop-shaped)



全景屏 (Full screen)



開孔屏 (Apature type)



瀏海屏 (Notch type)



PS & ALS upgrade due to :

1. Display resolution increase
2. PPI density increase
3. AMOLED penetration increase

... **resulted transparency decrease**

Boost ASP increase

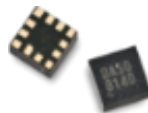
16:9 → 18:9 → 19:9 ...

微機電感測晶片 (MEMS Sensors)

Accelerometers (G-sensors)

→ Rotation detection

加速度感測器 → 屏幕旋轉偵測



G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

1Q~3Q_2020 : >52M pcs



✓ G-sensor for Smartphone market

✓ Low power G-sensor for wearable & IoT devices

Smartphone application :



MOTION
DETECTION

屏幕旋轉
Screen rotation



自動靜音
Automatic mute



遊戲
Game control



手勢偵測
Gesture detection



接聽輔助
Answering aid



光學感測晶片+微機電感測晶片 穿戴裝置與非手機領域應用

Proximity sensing (距離感測)

Ambient Light sensing (環境光感測)

RGB color sensing (精準色溫感測)

UV sensor (紫外線感測)

2D / 4D gesture (2D/4D方向手勢感測)

Heartbeat detection (心律偵測)

Rotation detection (旋轉力度感測)

Click detection (敲擊偵測)

Step counter (計步偵測)

TWS (True Wireless Stereo earphone)

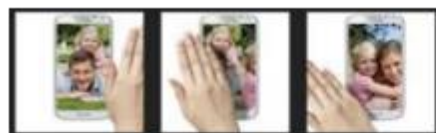
Accelerometer sensor → click detection (敲擊偵測)

P-sensor → on/off switch (功能啟用開關)



敲擊偵測 (Click detection)

- 有來電時 (Incoming call)
單擊接聽 (Click to answer)
雙擊拒接 (Double click to reject)
- 無來電時 (None call)
啟動 AI 助手 (Start AI Assistant)
- 音樂播放 (Music model)
單擊暫停 (Click pause)
雙擊換曲 (Double click change)



Gesture control



On/off control



Proximity detection
(ELA)



Ambient dimming control
(Smart speaker)



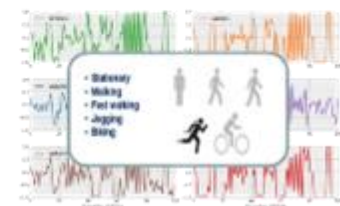
Smart watch / Fitness trackers

Accelerometer sensor → motion detection (移動偵測)

Optical sensor → heartbeat detection (心律偵測)



運動偵測 / 計步
Motion detection



III. 經營實績

合併損益表

Item	Q3_2020		Q1~Q3_2020		Q3_2019		Q1~Q3_2019	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Net Sales	1,500,516	-	3,875,528	-	1,457,762	-	3,413,853	-
Gross Profit	626,215	42%	1,596,045	41%	622,247	43%	1,471,725	43%
Operating Expense	175,320	12%	431,670	11%	154,888	11%	388,244	11%
Operating Income	450,895	30%	1,164,375	30%	467,359	32%	1,083,481	32%
Income before Tax	451,245	30%	1,177,198	31%	468,871	32%	1,093,609	32%
Net Income*	397,497	26%	1,036,500	27%	413,566	28%	957,245	28%
EPS	8.13	-	22.10	-	9.12	-	21.17	-

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

* Listed on the English translation of our financial statements as
"Profit (loss), attributable to owners of parent"

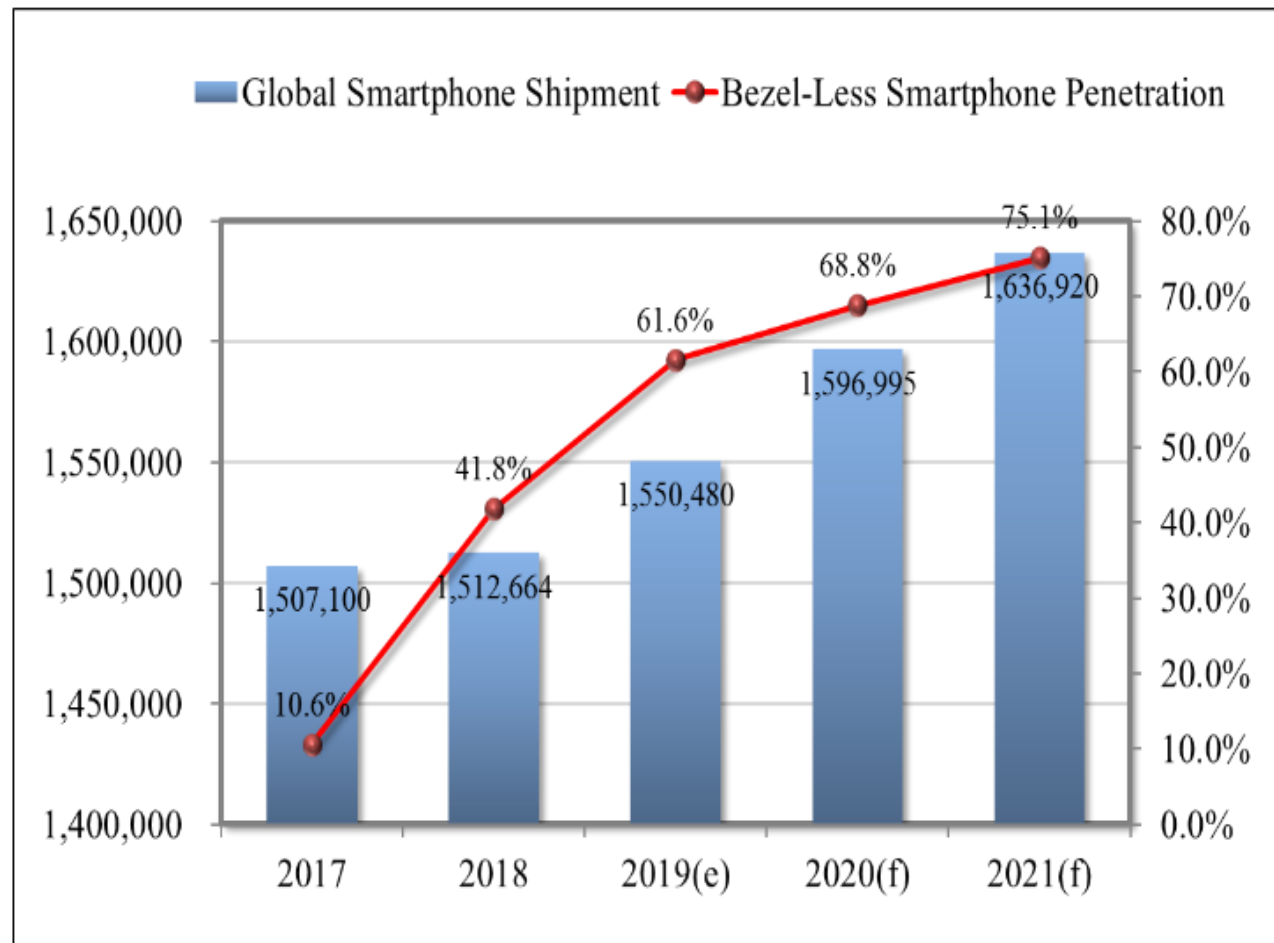
合併資產負債表

Item	2020/9/30	2020/6/30	2020/3/31	2019/12/31	2019/6/30	2019/3/31
Total Assets	5,665,950	5,920,992	3,937,918	3,257,565	2,060,175	1,445,506
Current Assets	5,500,709	5,785,995	3,824,883	3,140,188	1,992,040	1,374,119
Cash & Equivalents	1,743,561	1,895,897	1,471,630	909,984	491,204	705,679
AR	489,647	470,727	542,826	539,062	592,915	365,712
Inventory	382,448	605,743	595,547	439,684	355,887	279,904
Total Liability	1,459,386	2,121,747	2,581,779	1,434,311	1,029,386	774,592
AP	616,844	527,754	816,834	669,038	586,899	285,319
Shareholder Eqt.	4,206,564	3,799,245	1,356,139	1,823,254	1,031,329	670,914

Unit: NT\$ thousands
Accounting standard: IFRS

IV. 市場概況

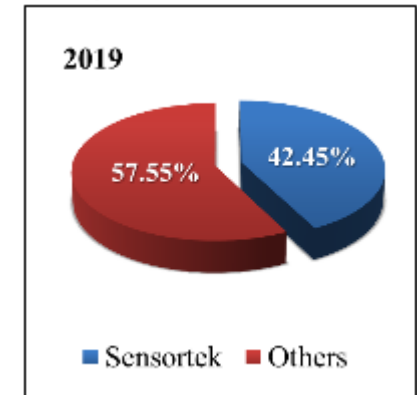
智慧型手機規模及趨勢



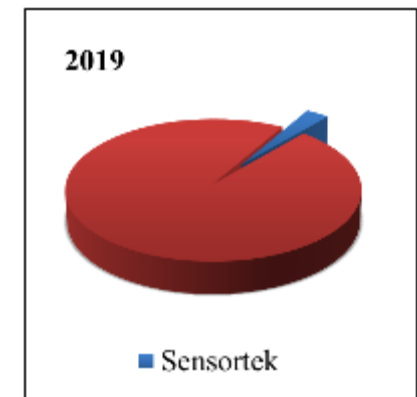
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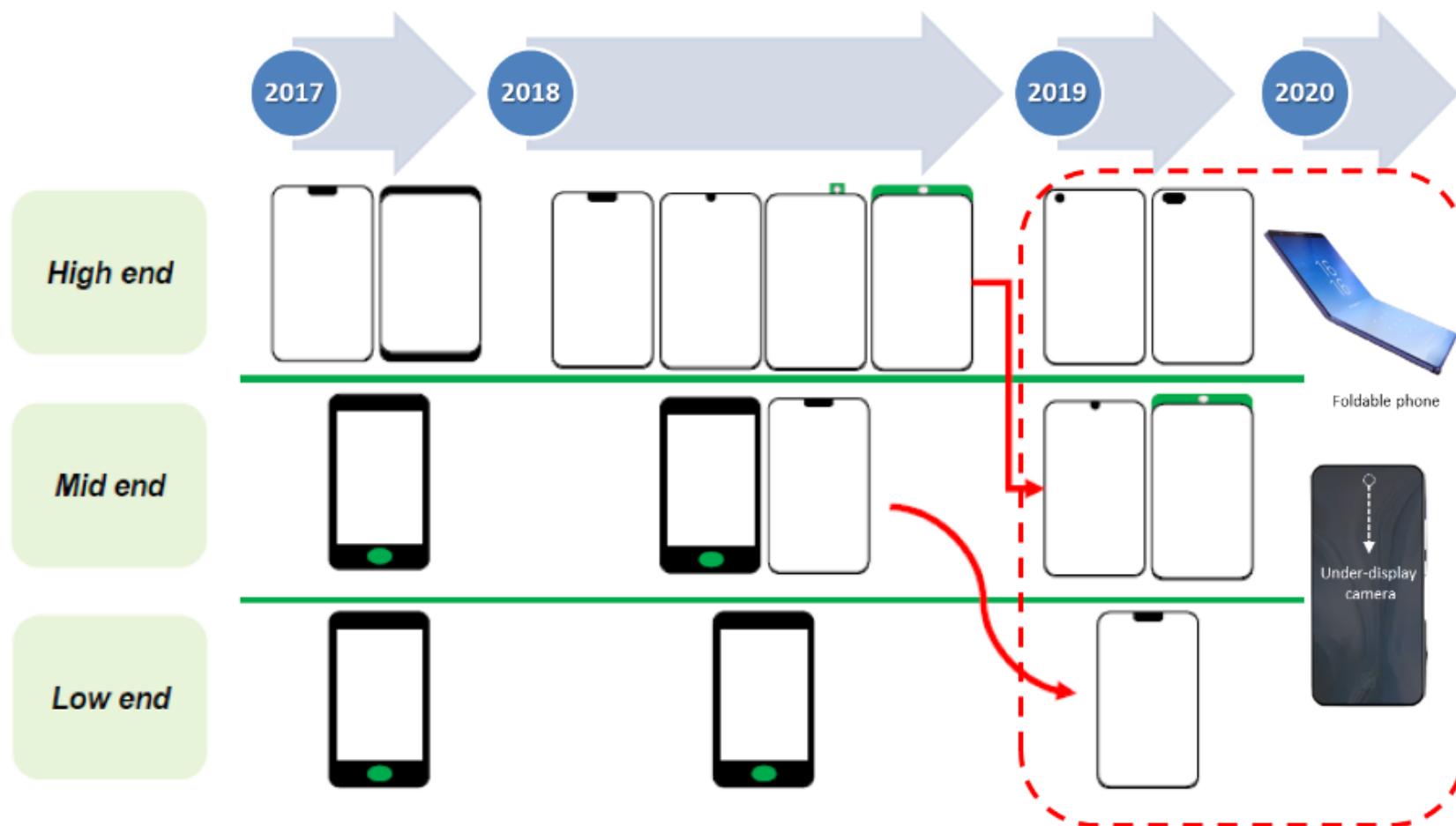
ALS / PS Sensor



G Sensor



智慧手機螢幕全屏化演進趨勢

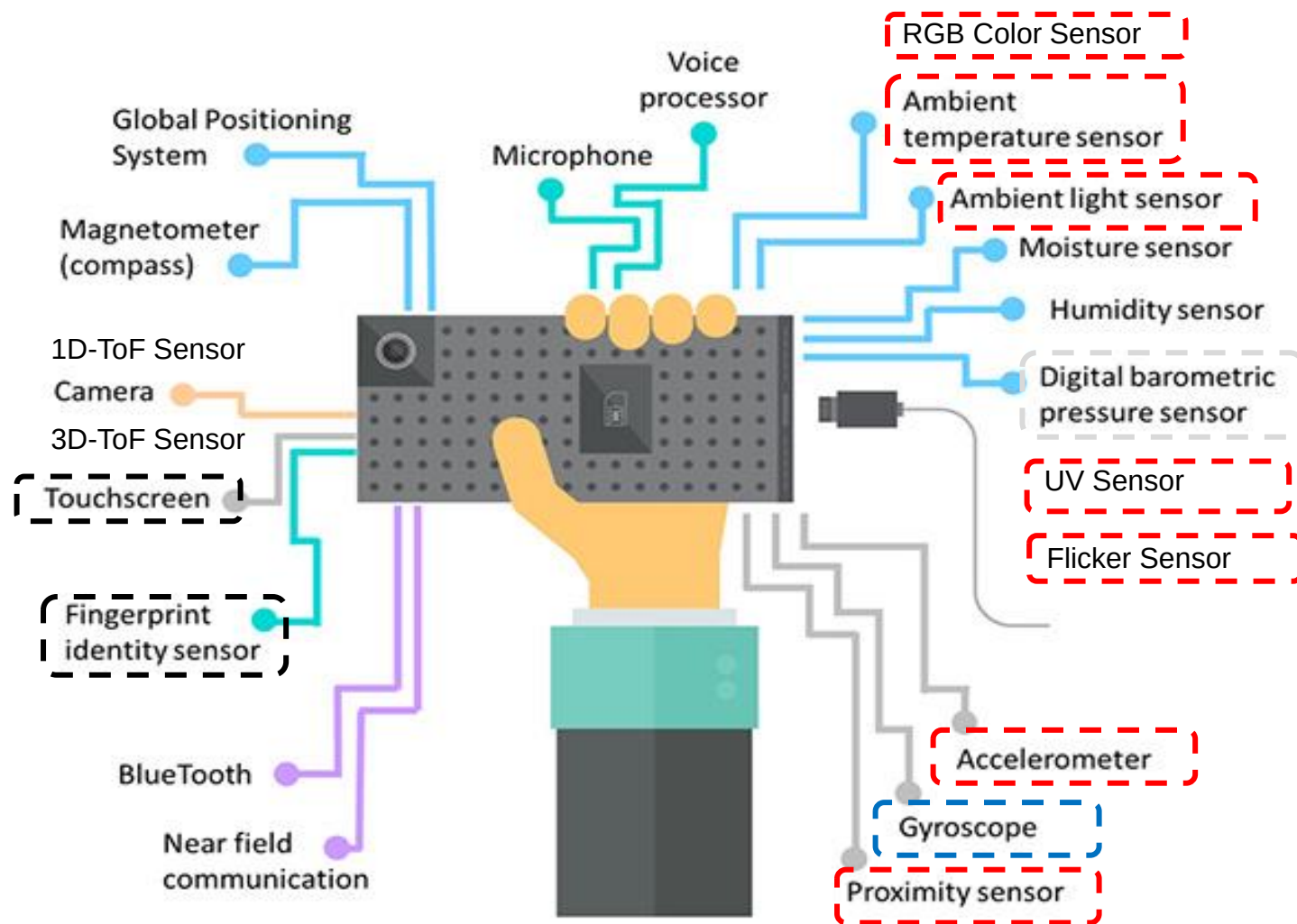


V. 未來發展計劃

未來研發與市場計畫

1. PS + ALS for smartphone displays → 協同前螢幕之應用
 - ❑ Under-display : PS (x3 屏下方案) + ALS → for AMOLED displays
 - ❑ Slit type : PS (x3 狹縫方案) + ALS → for TFT displays
 - ❑ HS_PS+ALS (x6 or x10 超高感度屏下方案) → for AMOLED display
 - ❑ PS+RGB sensors (色溫偵測/color temperature detection) → for flagship application
2. Optical sensors for rear cameras → 輔助後相機之應用
 - ❑ RGB sensor (白平衡校正/white balance correction)
 - ❑ flicker sensors (閃頻偵測/flicker detection)
 - ❑ RGB + flicker sensors
3. Speeding up MEMS development → 加速MEMS產品線
 - ❑ Gyroscopes (under development)
 - ❑ Accelerometers + Gyroscopes (2 in 1) → for high-end smartphones
4. Extend to other applications → 拓展其他非手機之應用
 - ❑ TWS : P sensor / Accelerometers
 - ❑ Smart watch : **ALS+UV** / Heartbeat sensor / Accelerometers
 - ❑ Smart speaker : ALS ...

越來越多感知器將加入智慧手機



VI. 公司治理

執行公司治理之情形

- Organization: 4 directors and 3 independent directors
- The Company has established an audit committee and a compensation committee.
- Complies with "Corporate Governance Best Practice Principles for TWSE/TPEX Listed Companies" to stipulate the following rules:
 - 1) Ethical Corporate Management Best Practice Principles
 - 2) Rules and Procedures of Shareholders Meeting
 - 3) Rules and Procedures of Board of Directors Meeting
 - 4) Election Procedure of Directors
 - 5) Audit Committee Charter
 - 6) Compensation Committee Charter



謝謝

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