

# Sensortek Technology Corp.

昇佳電子股份有限公司

論壇簡報

# 免責聲明

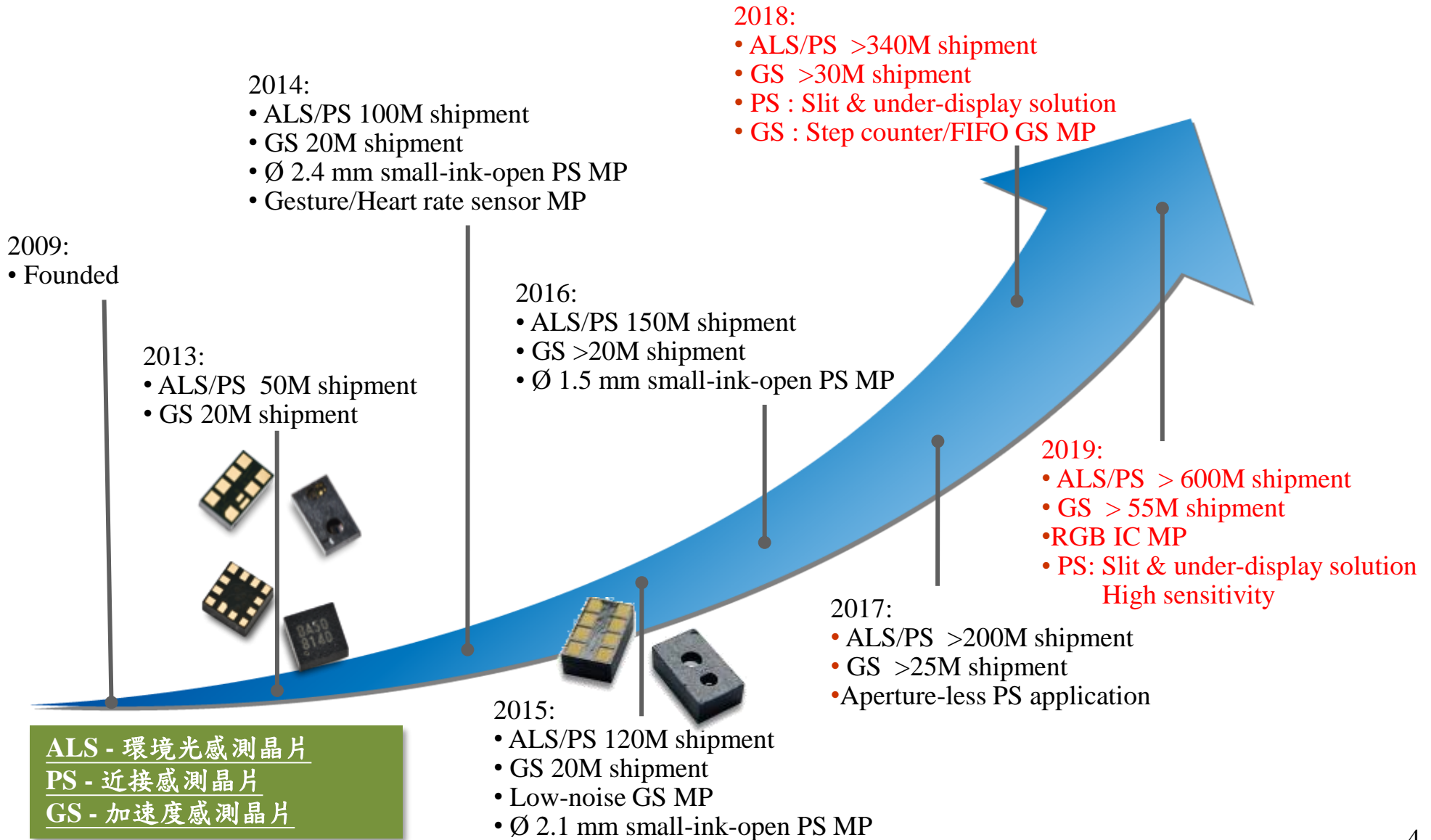
- This presentation includes forward-looking statements. All statements, other than statements of historical facts, that address activities, events or developments that Sensortek Technology Corp. expects or anticipates will or may occur in the future (including but not limited to projections, targets, estimates and business plans) are forward-looking statements.
- Sensortek's actual results or developments may differ materially from those indicated by these forward-looking statements as a result of various factors and uncertainties, including but not limited to material cost increase, market demand, change in legal, financial and regulatory frameworks, government policies, financial market conditions, and other risks and factors beyond our control.
- 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	133
Location	Tai Yuen Hi-Tech Industrial Park, Jhubei City, Hsinchu County
Products	<ul style="list-style-type: none"><li>• <b>Optical Sensors</b><ul style="list-style-type: none"><li>- Ambient Light Sensors (ALS)</li><li>- Proximity Sensors (PS)</li><li>- Color Temperature Sensors (RGB)</li></ul></li><li>• <b>MEMS Sensors</b><ul style="list-style-type: none"><li>- Accelerometer Sensors (GS)</li></ul></li></ul>

# 產品發展歷程



## II. 產品簡介

# 光學感測晶片 Optical Sensors

## Ambient Light Sensors

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



## Optical sensor shipment

2017: >200M  
2018: >340M  
2019: >600M

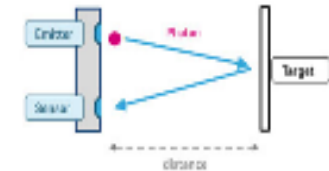
## Proximity Sensors

- turns off the display (anti-touch)  
近接感測晶片 → 關屏(防誤觸)

- PS (w/T) + ALS visible sensor solution
- PS (w/T) + ALS invisible solution
  - ✓ Under-display solution (屏下方案) → AMOLED displays
  - ✓ Slit type (狹縫方案) → TFT displays
- PS (w/T) + RGB

## RGB Sensors

- screen color temperature control  
色彩感測晶片 → 調節螢幕色溫



16:9 screen



Bezel-less screen



# ALS / PS 放置位置趨勢

## 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



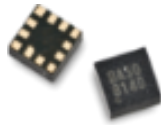


# 微機電感測晶片 MEMS Sensors

## Accelerometer Sensors (GS)

→ Rotation detection

加速度感測晶片 → 屏幕旋轉偵測

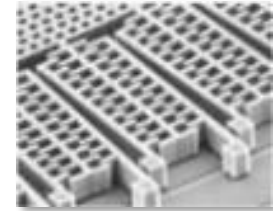


### GS shipment

2017: >25M

2018: >30M

2019: >55M



√ GS for smartphones

√ Low-power GS for wearable & IoT devices



Screen rotation



Automatic mute



Game control



Gesture detection



Answering aid

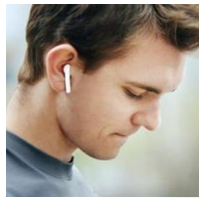


# 光學感測晶片+微機電感測晶片 穿戴裝置與非手機領域應用

## True Wireless Stereo (TWS) earphones

Accelerometer sensor → click detection

P-sensor → on/off switch



FreeBuds 3

Click detection

- Incoming call  
Click to answer  
Double click to reject
- AI assistant
- Music mode  
Click to pause  
Double click to switch

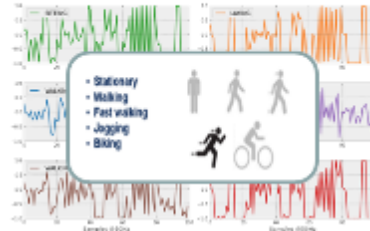
## Smart watches & fitness trackers

Accelerometer sensor → motion detection

Optical sensor → heartbeat detection



運動偵測 / 計步  
Motion detection



抬手亮屏 / 動態心率輔助  
Heartbeat detection



睡眠偵測 / 久坐提醒  
Sleep quality monitoring



# 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

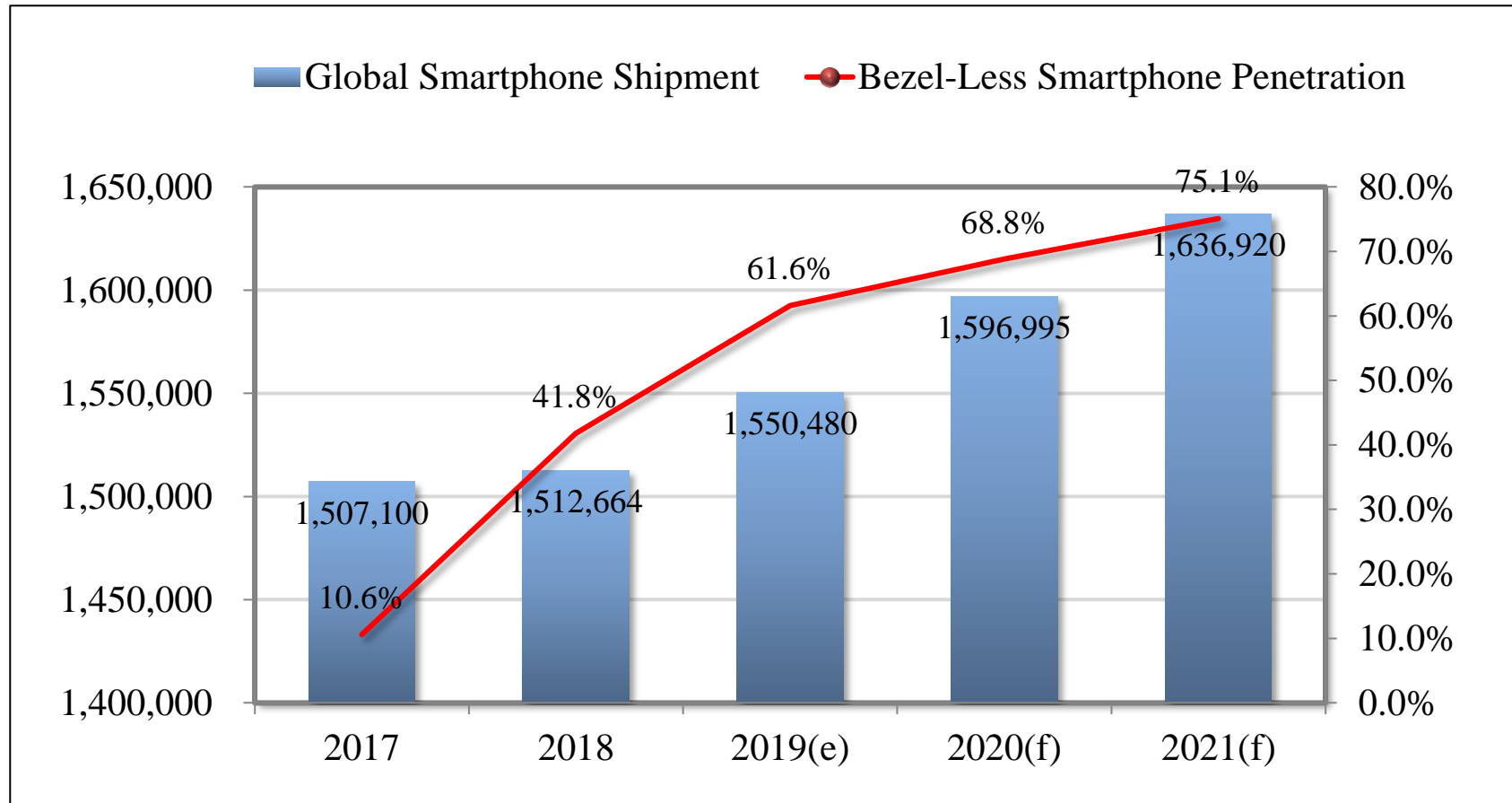
Item	2020/9/30	2020/6/30	2020/3/31	2019/12/31	2019/6/30	2019/3/31
Total Assets	5,665,950	5,920,992	3,937,918	3,257,565	2,060,175	1,445,506
Current Assets	5,500,709	5,785,995	3,824,883	3,140,188	1,992,040	1,374,119
Cash & Equivalents	1,743,561	1,895,897	1,471,630	909,984	491,204	705,679
AR	489,647	470,727	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 Eq.	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

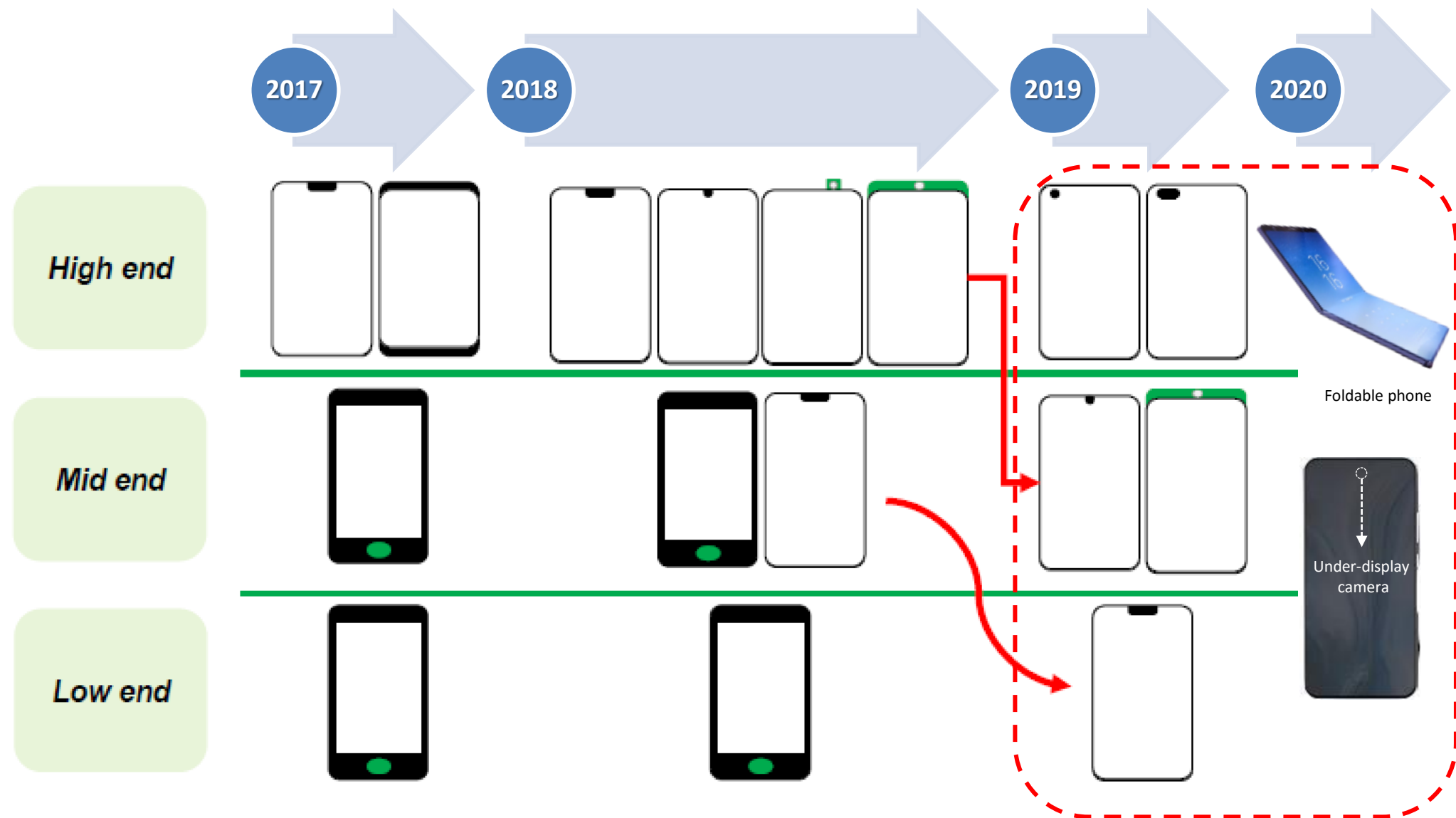
# 智慧型手機規模及趨勢

1: 1,000



Source: IEK

# 智慧手機螢幕全屏化 → 屏下技術為主流





# V. 未來發展計劃

# 未來研發計畫

1. PS + ALS for front displays → 協同前螢幕之應用
  - ▣ Under-display PS (屏下方案) + ALS → for AMOLED displays
  - ▣ Slit type PS (狹縫方案) + ALS → for TFT displays
  - ▣ PS+RGB sensors (更精準色溫偵測 more precise light detection)
2. Optical sensors for rear cameras → 協同後相機之應用
  - ▣ RGB sensors (白平衡校正 white balance correction)
  - ▣ RGB + flicker sensors
3. Other applications → 延伸至非手機之應用
  - ▣ Smart watches, fitness trackers, TWS, etc.
4. Speeding up MEMS development → 加速MEMS產品線
  - ▣ Gyroscopes
  - ▣ A + Gyro (2 in 1) for high-end smartphones

## 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