

Sensortek Technology Corp. Investor Conferences

Q1 2021



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昇佳電子股份有限公司

Disclaimer

- 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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Agenda

- I . Company Introduction
- II . Financial Performance
- III . Market Outlook
- IV . Our Products
- V . Future Development

I . Company Introduction

About Us

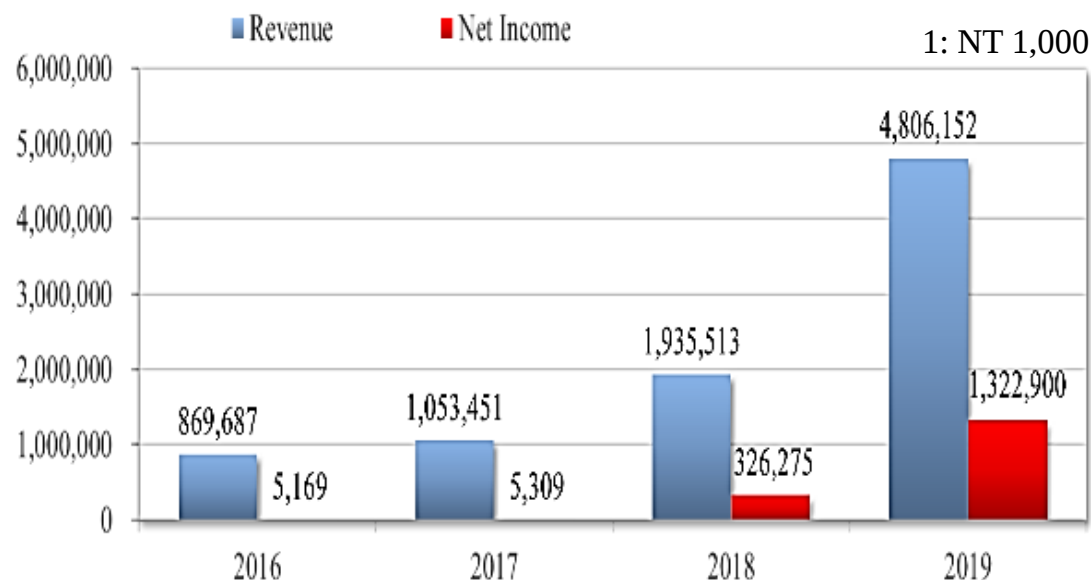
Company Name	Sensortek Technology Corp.	
Founded	December 1, 2009	
Capitalization	NT 489,126,180	
Chairman and CEO	Sheng-Su Lee	
Number of Employees	163	
Location	Tai Yuen Hi-Tech Industrial Park, Jhubei City, Hsinchu County	
Products	• 光學感測晶片 Optical Sensor - 近接感測晶片 Proximity Sensor (PS) - 環境光感測晶片 Ambient Light Sensor (ALS) - 色彩感測晶片 Color Temperature Sensor (RGB) • 微機電感測晶片 MEMS Sensor - 加速度感測晶片 Accelerometer Sensor (GS)	
Listing	上櫃 Taipei Exchange Market (TPEX) 06/08/2020 興櫃 Emerging Stock Market (TESM) 06/18/2019	

Milestones

- 2009: Founded
- 2010: Proximity (PS) & ambient light sensors (ALS)
- 2012: Accelerometers (g-sensors)
- 2013: Spinoff
- 2017: Invisible PS+ALS solution
- 2018: Under display & slit type PS+ALS solution
Low-power g-sensors
- 2019: RGB sensors for smartphone screens
- Listed at the Emerging Stock Market (TESM) 興櫃
- 2020: Listed at the Taipei Exchange Market (TPEX) 上櫃
RGB + flicker sensors for smartphone cameras

II. Financial Performance

Financial Performance



Item	2016	2017	2018	2019
Revenue	869,687	1,053,451	1,935,513	4,806,152
Gross Margin	137,375	158,184	649,442	2,018,872
Margin Rate	15.80%	15.02%	33.55%	42.00%
Operating Income	4,931	8,751	366,646	1,497,236
EBIT	5,874	5,601	372,357	1,508,063
Net Income	5,169	5,309	326,275	1,322,900
EPS (NT\$)	0.14	0.14	8.64	35.01

Note: The EPS values listed here are based on the capital of 37,781 thousand shares.

Income Statement

Item	Q3 2020		Q1-Q3 2020		Q3 2019		Q1-Q3 2019	
	Results	% of sales	Results	% of sales	Results	% of sales	Results	% of sales
Sales	1,500,516	100%	3,875,528	100%	1,457,762	100%	3,413,853	100%
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"

Balance Sheet

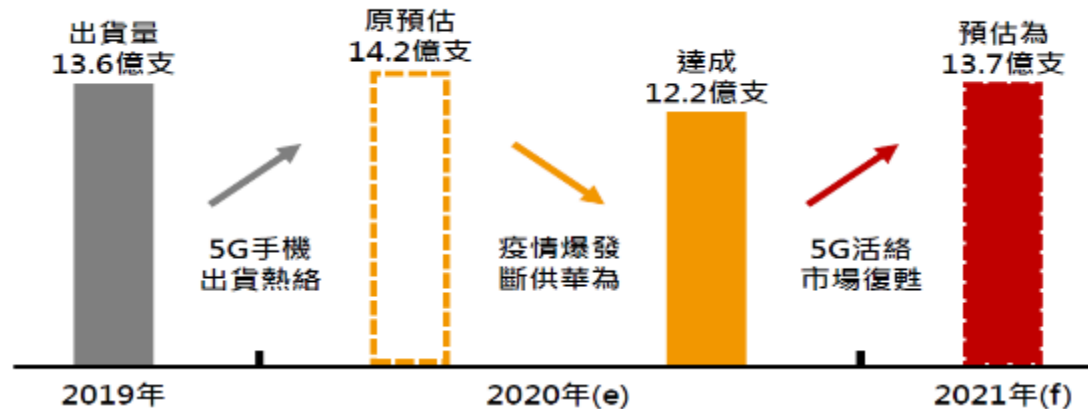
Item	2020/9/30	2020/6/30	2020/3/31	2019/12/31	2019/6/30	2019/3/31
Total Assets	5,665,950	5,920,992	3,937,918	3,257,565	2,060,175	1,445,506
Current Assets	5,500,709	5,785,995	3,824,883	3,140,188	1,992,040	1,374,119
Cash & Equivalents	1,743,561	1,895,897	1,471,630	909,984	491,204	705,679
AR	489,647	470,727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

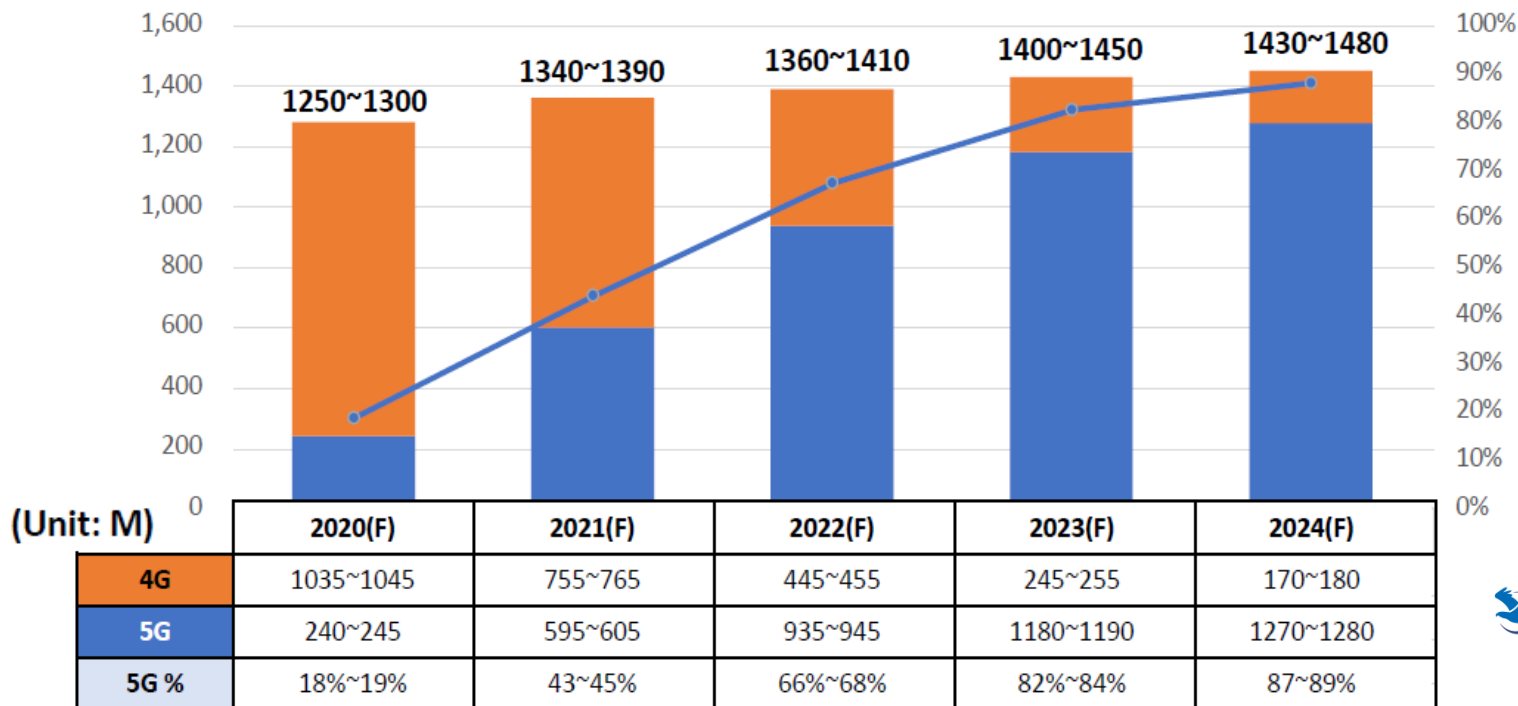
III. Market Outlook

Global Smartphone Shipment Forecasts

2019~2021年全球智慧型手機預估出貨一覽

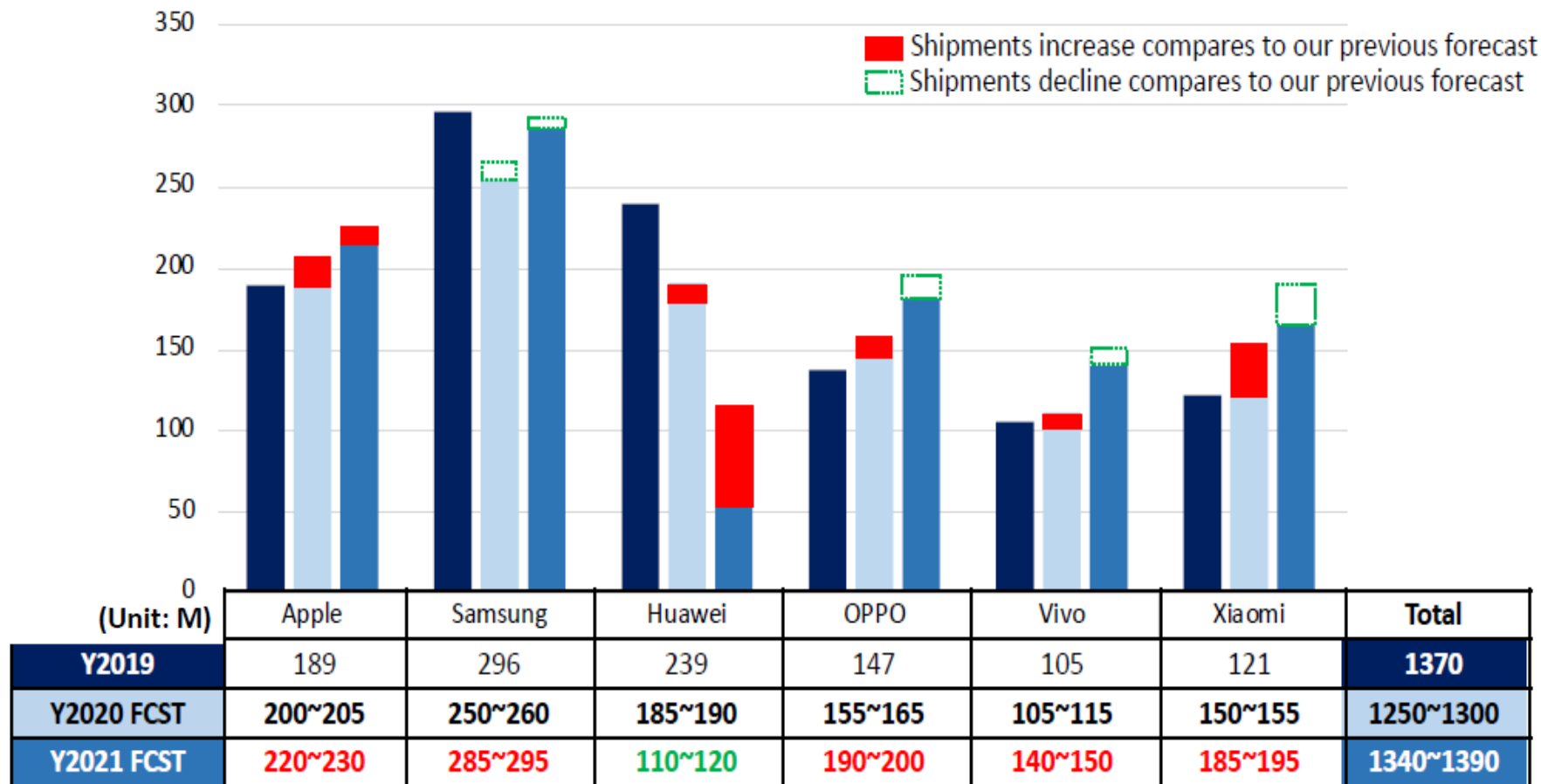


DIGITIMES



ISAIAH RESEARCH

Smartphone Shipment Forecast by Brand



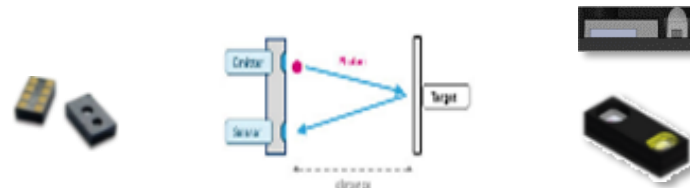
*Note: Our forecast of OPPO now includes shipments of Realme and OnePlus, Huawei includes New Honor

IV. Our Products

Optical Sensors

Proximity Sensors (PS)

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



Ambient Light Sensors (ALS)

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

G1: PS + ALS 2-in-1 visible solution (2010)

G2: PS + ALS 2-in-1 invisible solution (2018)

- Under-display 屏下方方案 for AMOLED displays
- Slit type 狹縫方案 for TFT displays

Color temperature Sensors (RGB)

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

G3: PS + RGB sensors (2019)

- for better reading experience

Waterdrop Screen

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



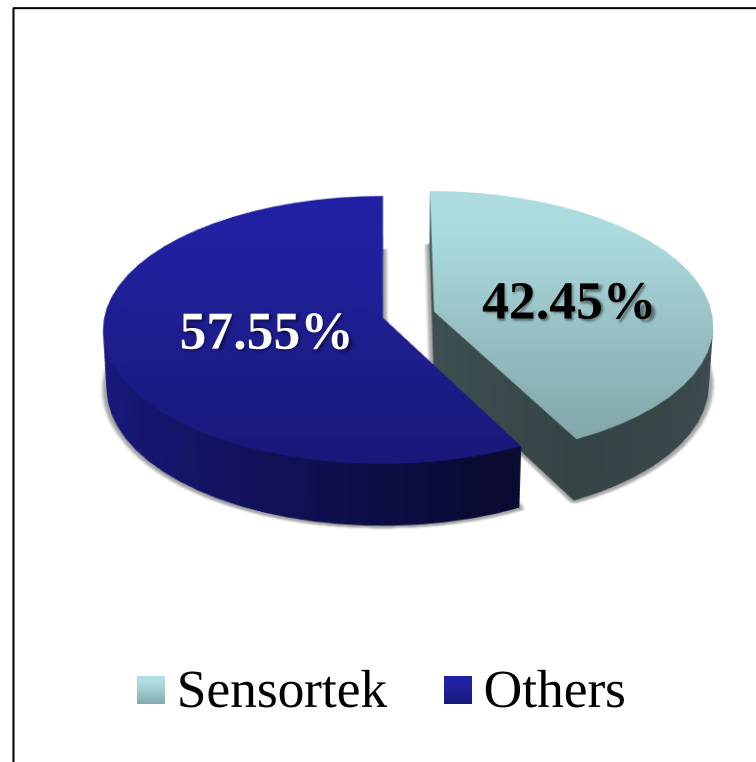
Bezel-less Screen

屏下(Under-display) ALS/PS
狹縫(Slit) PS / 屏下 Under-display ALS



Proximity & Ambient Light Sensors Shipments & Market Share

2018: >340M pcs
2019: >600M pcs
Q1-Q3 2020: >520M pcs



Sensitivity Upgrades → ASP Boost

G1: PS + ALS visible solution 1x

G2: PS + ALS invisible solution → sensitivity 3x → 6x → 10x
- Under-display solution for AMOLED

G3: PS + RGB visible solution

G4: PS + RGB invisible solution

水滴屏 (Teardrop-shaped)



全景屏 (Full screen)



瀏海屏 (Notch type)



開孔屏 (Aperture type)



16:9 → 18:9 → 19:9 ...

Upgrading because of increases in...

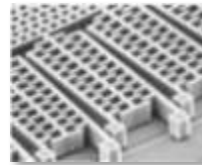
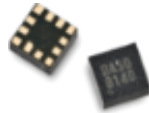
1. Display resolution
2. PPI density
(resulting in a decrease in light transmittance)
3. AMOLED penetration rate

MEMS Sensors

Accelerometers (G-sensors)

Rotation detection

加速度感測器 → 屏幕旋轉偵測



- ✓ G-sensors for smartphones
- ✓ Low power g-sensors for wearable & IoT devices



屏幕旋轉
Screen rotation



遊戲
Game control

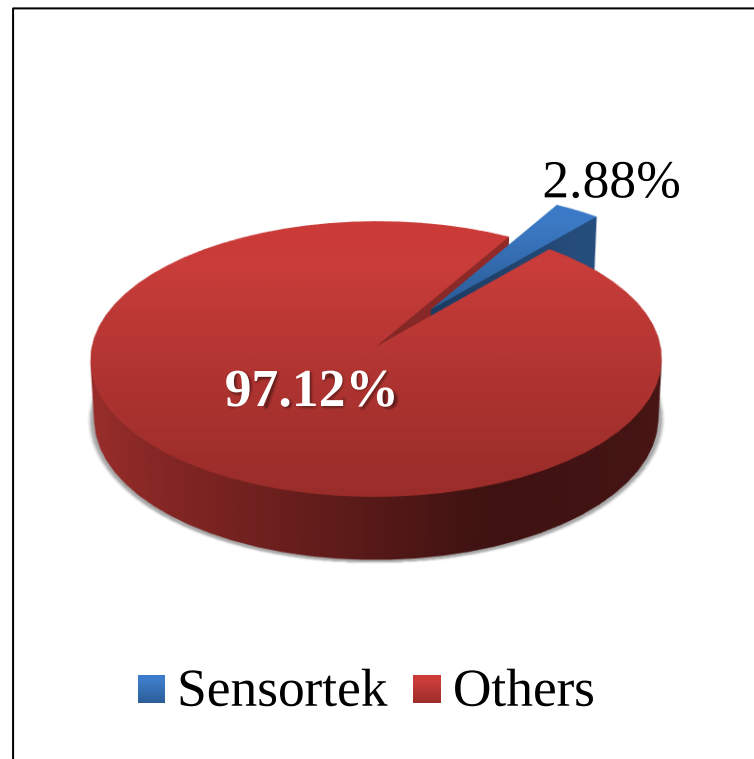


自動靜音
Automatic mute



G-sensor Shipments & Market Share

2018: >30M pcs
2019: >55M pcs
Q1-Q3 2020: > 52M pcs



Wearable Devices: Optical + MEMS

True wireless stereo (TWS) earbuds

Accelerometers → click detection 敲擊偵測

Proximity sensors → 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
- 音樂播放 Music mode
單擊暫停 Click to pause
雙擊換曲 Double click to switch

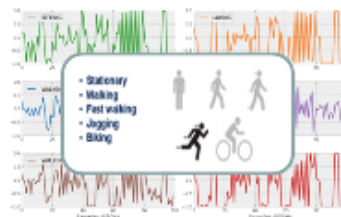
Smart watches & fitness trackers

Accelerometers → motion detection 移動偵測

Optical sensors → heartbeat detection 心律偵測 & UV sensors 紫外線感測



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



V . Future Development

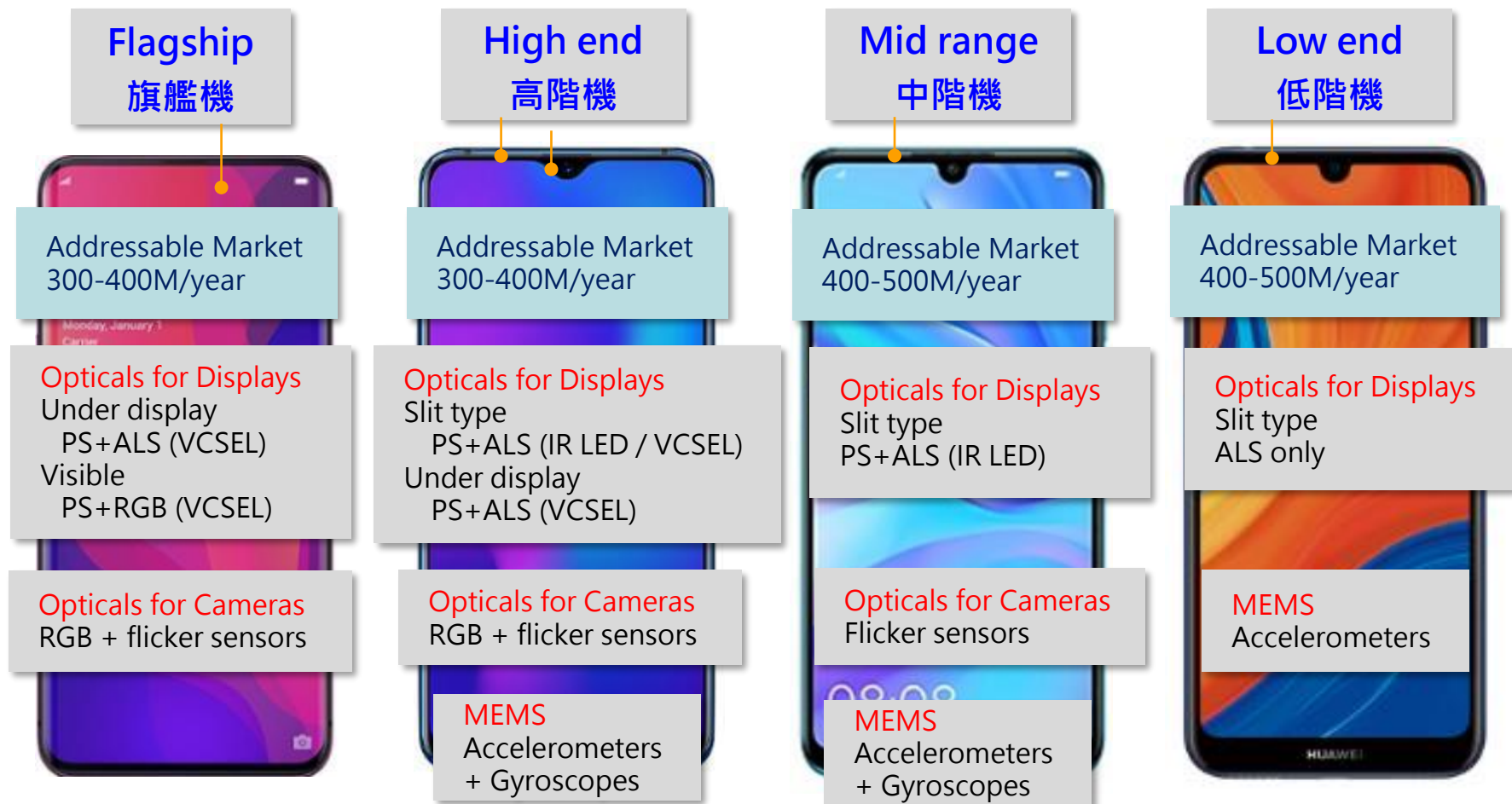
Going Forward

1. Optical sensors for smartphone screens 前螢幕應用
 - PS + ALS visible solution 調整顯示亮度
 - High-sensitivity PS + ALS invisible solution → 3x → 6x → 10x sensitivity
 - PS + RGB visible solution 調整顯示色溫 → invisible solution (coming soon!)
2. Optical sensors for smartphone cameras 後相機應用 white balance correction 白平衡校正
 - 3-channel RGB sensors → 6-channel for better color detection (coming soon!)
 - Flicker sensors 閃頻偵測
3. MEMS: Gyroscope 加速MEMS陀螺儀感測器開發
 - Accelerometers + Gyroscopes (2 in 1) for high-end smartphones (coming soon!)
4. Other applications 其他非手機之應用
 - TWS: proximity sensors & accelerometers
 - Smart watches: ambient light + UV, heartbeat sensors, accelerometers
 - Smart speakers: ambient light sensors
 - ...and more (e.g. auto & industrial)

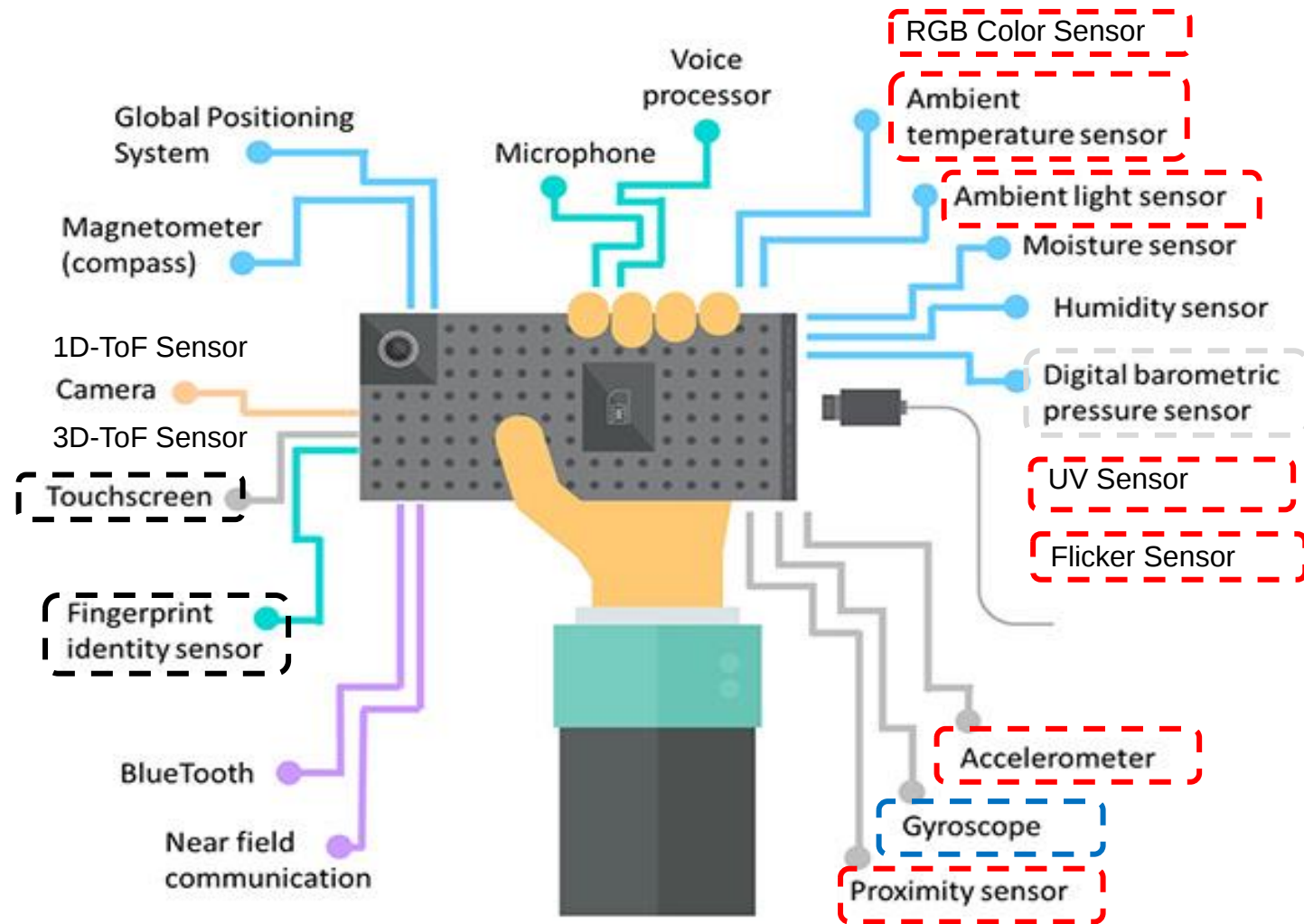
Before 2020



Going Forward



Stay Tuned





Thank You

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