

# Investor Conferences

## 2Q 2021

Sitronix Technology Corp.  
矽創電子股份有限公司  
8016: TT

**Sitronix**

# 公司簡介

|           |                   |
|-----------|-------------------|
| 公司名稱      | 矽創電子股份有限公司        |
| 成立日期      | 1998年7月           |
| 資本額       | 40M USD           |
| 董事長暨執行長   | 毛穎文 Vincent Mao   |
| 臺灣證券交易所上市 | 2003年12月 ( 8016 ) |



## Consolidated

矽創電子

**Sitronix**

Display Driver IC



Incubator since 2009

# 產品組合

## Mobile Displays

Mobile Display Driver IC  
手機顯示器

## Industrial & Automotive Displays

Automotive Display Driver IC  
車載顯示器

Industrial Display Driver IC  
工控顯示器

## Sensors

## SoC

System on Chip (SoC) products  
其他非顯示器 IC



Subsidiaries



Sitronix

Subsidiaries

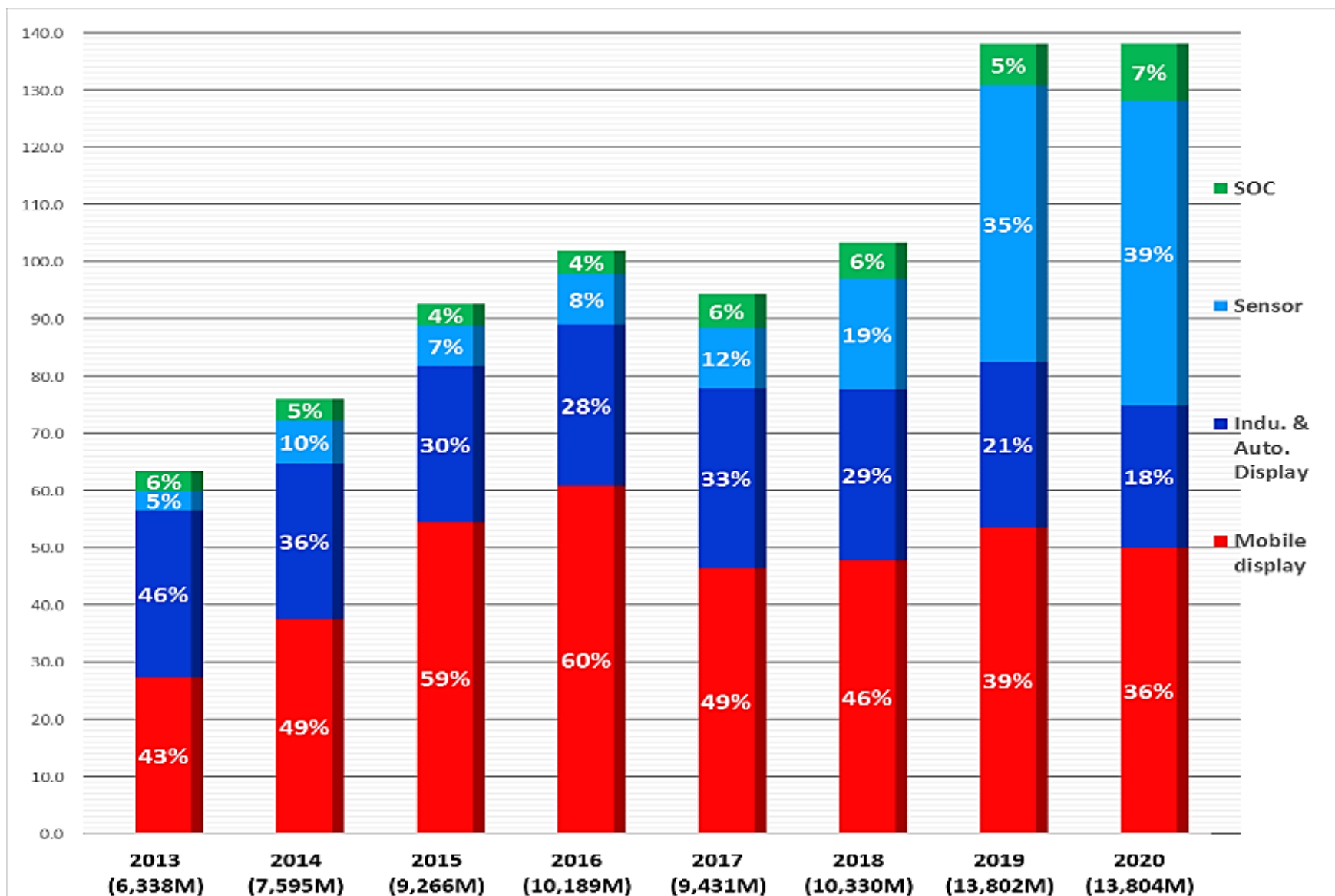


Differentiation

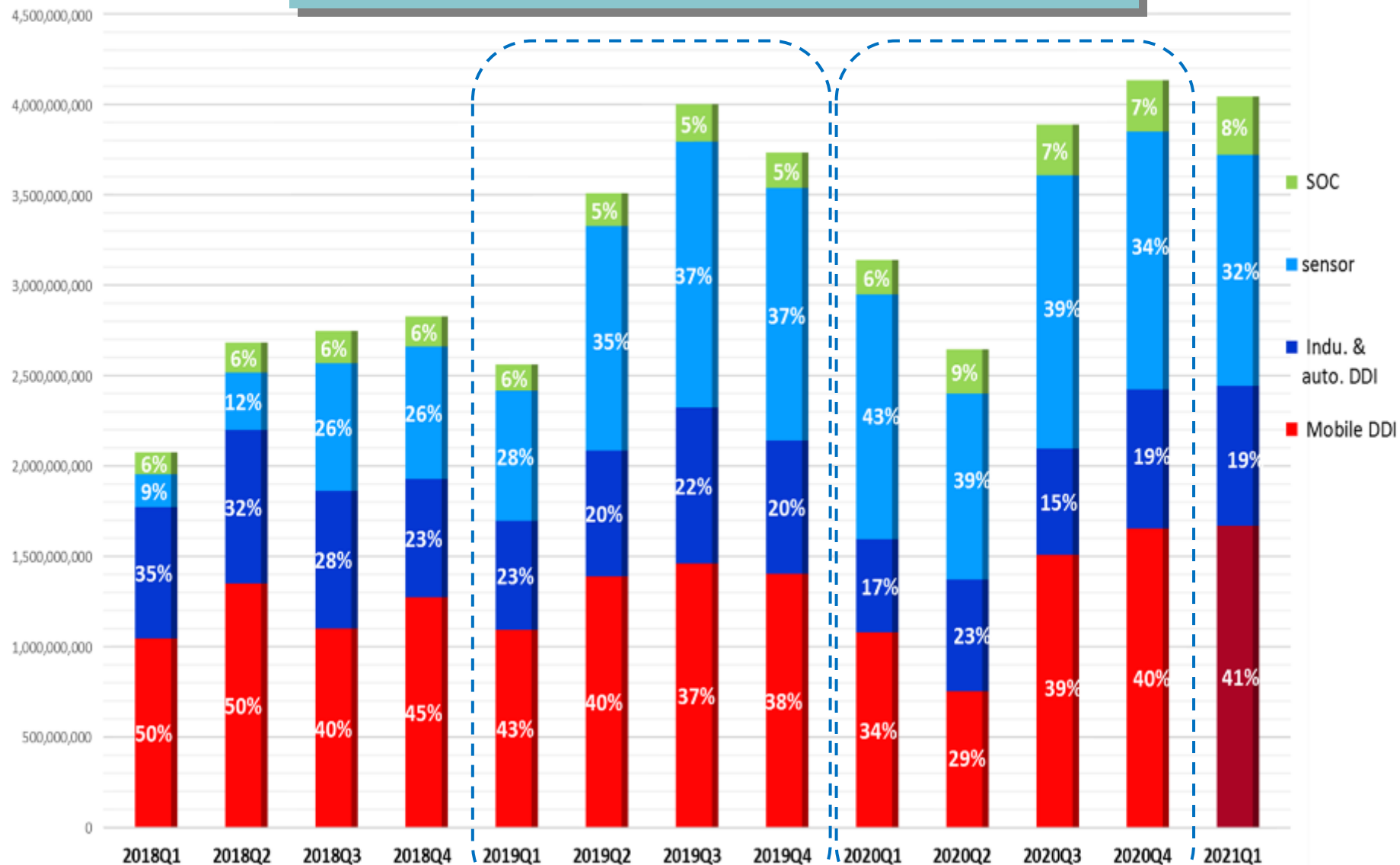
Diversification

Incubator

# 合併營收\_依產品別



# 季度合併營收\_依產品別



Unit: NTD

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# 8016 Consolidated Income Statement

| Item              | Q1 21     |            | Q1-Q4 2020 |            | Q4 20     |            | Q3 20     |            | Q2 20     |            | Q1 20     |            |
|-------------------|-----------|------------|------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
|                   | Results   | % of sales | Results    | % of sales | Results   | % of sales | Results   | % of sales | Results   | % of sales | Results   | % of sales |
| Net Sales         | 4,042,640 | -          | 13,804,562 | -          | 4,132,917 | -          | 3,887,941 | -          | 2,644,857 | -          | 3,138,847 | -          |
| Gross Profit      | 1,906,725 | 47%        | 4,785,825  | 34%        | 1,595,562 | 39%        | 1,253,220 | 32%        | 925,366   | 35%        | 1,011,677 | 32%        |
| Operating Expense | 769,430   | 19%        | 2,495,301  | 18%        | 770,858   | 19%        | 628,945   | 16%        | 525,562   | 20%        | 569,936   | 18%        |
| Operating Income  | 1,137,566 | 28%        | 2,383,048  | 17%        | 824,947   | 20%        | 624,540   | 16%        | 400,466   | 15%        | 533,095   | 17%        |
| Income before Tax | 1,157,423 | 29%        | 2,523,626  | 18%        | 847,825   | 21%        | 628,840   | 16%        | 497,065   | 19%        | 549,896   | 17%        |
| Net Income*       | 786,603   | 19%        | 1,384,818  | 10%        | 485,902   | 12%        | 315,601   | 8%         | 291,899   | 11%        | 291,416   | 9%         |
| EPS               | 6.55      | -          | 11.53      | -          | 4.04      | -          | 2.63      | -          | 2.43      | -          | 2.43      | -          |

Unit: NT\$ thousands (except EPS)

Accounting standard: IFRS

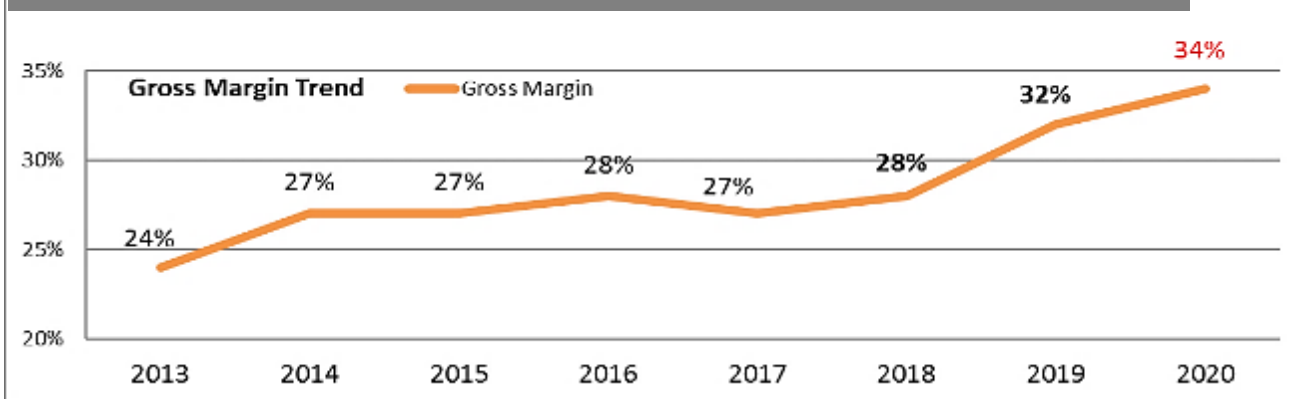
\* Listed on the English translation of our financial statements as  
"Profit (loss), attributable to owners of parent"

# 8016 Consolidated Balance Sheet

| Item               | 2021/3/31  | 2020/12/31 | 2020/9/30  | 2020/6/30  | 2020/3/31  |
|--------------------|------------|------------|------------|------------|------------|
| Total Assets       | 15,205,696 | 13,816,160 | 12,691,112 | 13,313,165 | 11,315,424 |
| Current Assets     | 12,168,616 | 11,544,737 | 10,741,502 | 11,320,483 | 9,386,607  |
| Cash & Equivalents | 5,352,063  | 5,586,541  | 3,751,335  | 4,123,024  | 3,356,031  |
| AR                 | 1,335,828  | 1,378,563  | 1,239,710  | 1,103,291  | 1,248,372  |
| Inventory          | 1,778,865  | 1,543,734  | 1,818,842  | 2,495,793  | 2,387,205  |
| Total Liability    | 6,341,128  | 4,537,083  | 3,886,615  | 5,046,401  | 5,630,077  |
| AP                 | 1,965,114  | 1,893,923  | 1,616,864  | 1,411,218  | 2,065,666  |
| Shareholder Eqt.   | 8,864,568  | 9,279,077  | 8,804,497  | 8,266,764  | 5,685,347  |

Unit: NT\$ thousands  
Accounting standard: IFRS

# 毛利率, EPS, 配息資訊

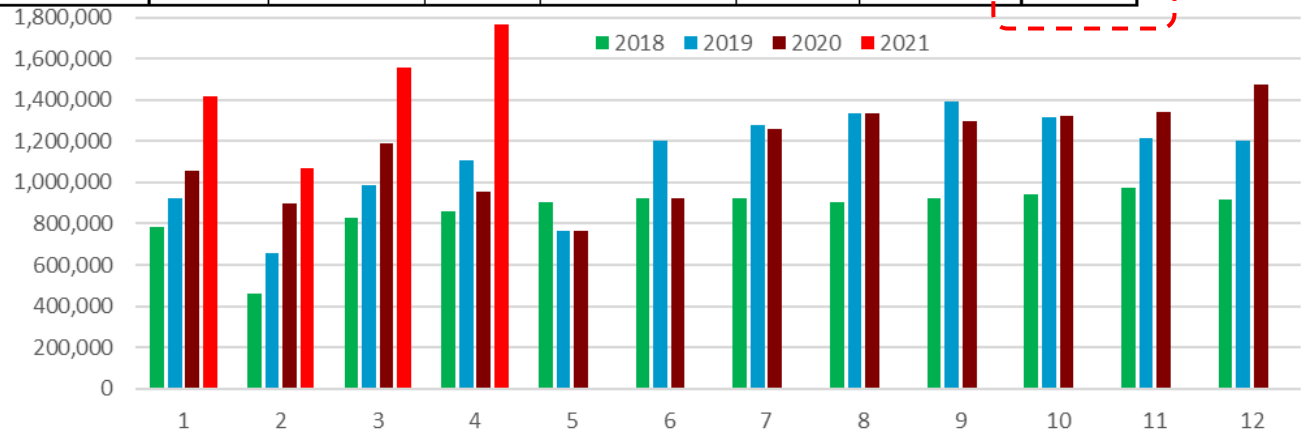


| Year | Q1   |     | Q2   |     | Q3   |     | Q4   |     | Annual |     |               |
|------|------|-----|------|-----|------|-----|------|-----|--------|-----|---------------|
|      | EPS  | GM  | EPS  | GM  | EPS  | GM  | EPS  | GM  | EPS    | GM  | Cash dividend |
| 2021 | 6.55 | 47% |      |     |      |     |      |     |        |     |               |
| 2020 | 2.43 | 32% | 2.43 | 35% | 2.63 | 32% | 4.04 | 39% | 11.53  | 34% | 7.5           |
| 2019 | 1.70 | 33% | 2.80 | 33% | 3.22 | 32% | 2.55 | 30% | 10.27  | 32% | 6.5           |



# Sitronix revenue update

| (K) ntd        | 2020              | YoY_M  | Quarterly amount | YoY_Q       | 2021             | YoY_M | Quarterly amount | YoY_Q        |
|----------------|-------------------|--------|------------------|-------------|------------------|-------|------------------|--------------|
| 1              | 1,053,042         | 14.4%  | 3,138,847        | 22.5%       | 1,418,533        | 34.7% | 4,042,640        | 28.8%        |
| 2              | 897,852           | 36.5%  |                  |             | 1,069,329        | 19.1% |                  |              |
| 3              | 1,187,953         | 20.8%  |                  |             | 1,554,779        | 30.9% |                  |              |
| 4              | 955,769           | -13.4% | 2,644,857        | -24.6%      | 1,765,268        | 84.7% |                  |              |
| 5              | 763,403           | -36.4% |                  |             |                  |       |                  |              |
| 6              | 925,685           | -23.0% |                  |             |                  |       |                  |              |
| 7              | 1,258,731         | -1.3%  | 3,887,941        | -2.8%       |                  |       |                  |              |
| 8              | 1,334,015         | -0.1%  |                  |             |                  |       |                  |              |
| 9              | 1,295,195         | -6.8%  |                  |             |                  |       |                  |              |
| 10             | 1,322,850         | 0.5%   | 4,132,917        | 10.7%       |                  |       |                  |              |
| 11             | 1,338,741         | 10.2%  |                  |             |                  |       |                  |              |
| 12             | 1,471,326         | 22.5%  |                  |             |                  |       |                  |              |
| <b>Total</b>   | <b>13,804,562</b> |        |                  | <b>0.0%</b> | <b>5,807,908</b> |       |                  |              |
| <b>1-4 yoy</b> | <b>4,094,616</b>  |        |                  |             | <b>5,807,908</b> |       |                  | <b>41.8%</b> |



Unit: NT\$ thousands  
Accounting standard: IFRS

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# 手機顯示器驅動 ICs

## Small-sized DDIC - zeroCap

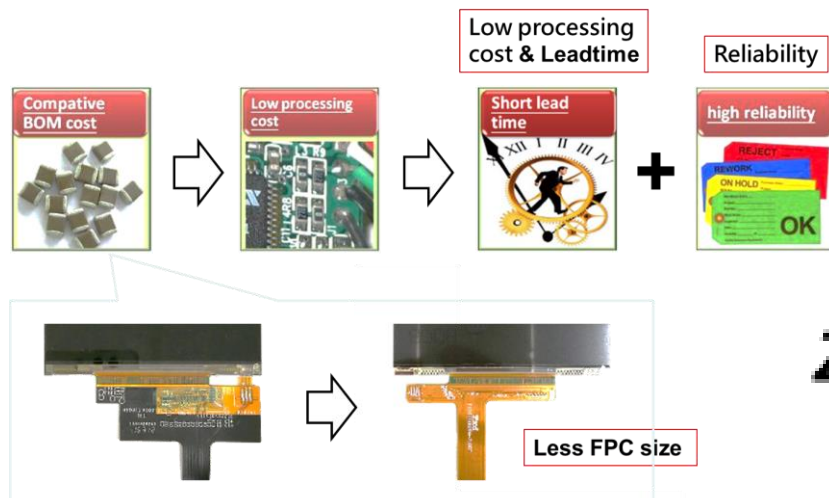
2018: ~ 500M pcs  
2019: ~ 400M pcs  
2020: ~ 300M pcs

## Mobile DDIC - zeroCap

2018: > 130M pcs  
2019: > 250M pcs  
2020: > 320M pcs



## Differentiation: Zero cap. solution



over 70% Mobile DDI  
in AloT applications

zerocap

Green  
Driver.

# our Mobile DDI **over 70%** in AIoT applications

## Tablet & Touch & POS & industrial

- WXGA Tablet
- HD Tablet
- FHD Tablet



## Work From Home

- Projector
- Printer
- Sound Station



## Wearable

- QQVGA for Band
- QVGA for Watch
- OLED for Band & Watch



## Outdoor & Automotive

- Sport Cams
- Navigator
- Aerial camera
- CSD / HUD
- E-mirror
- Cluster / Knob



## Medical

- WVGA for Monitor
- Portable Medical
- QQVGA for thermometer



## Smart Home

- WVGA for Echo
- QVGA for Door lock
- FHD Tablet



# 車載顯示器驅動 ICs

Diversification

< 6 inch displays

7 - 9 inch displays

## Instrument Cluster Display

Analog



No Display

Hybrid (Analog + Digital)



Meters

Full Digital



Virtual Cockpit



## Automobile Monitors



Multi-Function CSD



Display Audio



Climate Control



Twin CSDs  
Display Audio  
+  
Navigation



Rearview Mirror Display



Overhead Monitor



Dual Headrest

Segment TN

Character TN

Graphic STN

Mono TFT

Color TFT





## 工控類顯示器驅動 ICs

TN / STN / mono TFT / color TFT



## Ultra Low Power a-TFT Drivers for new applications

IoT, wearable devices, e-payment...



# 光學感測晶片 Optical Sensors

## PS + ALS shipment

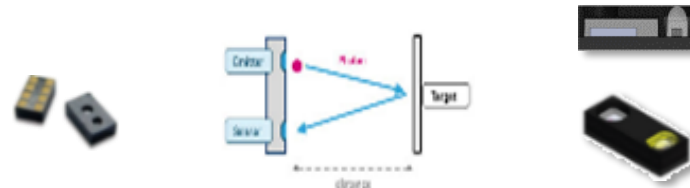
2018 : >340M pcs

2019 : >650M pcs

2020 : >720M pcs

### 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





# 感測器之感度演進 → 單價(ASP)促升

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...

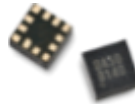
1. Display resolution
2. PPI density  
(resulting in a decrease in light transmittance)
3. AMOLED penetration rate

# 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

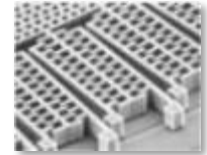


## G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

2020 : >80M pcs



✓ 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



# 感測器：展望未來

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)

# 2020年以前

## Flagship 旗艦機

Addressable Market  
300-400M/year

Opticals for Displays  
Under display  
PS+ALS (VCSEL)  
Visible  
PS+RGB (VCSEL)

## High end 高階機

Addressable Market  
300-400M/year

Opticals for Displays  
Slit type  
PS+ALS (IR LED / VCSEL)  
Under display  
PS+ALS (VCSEL)

## Mid range 中階機

Addressable Market  
400-500M/year

Opticals for Displays  
Slit type  
PS+ALS (IR LED)

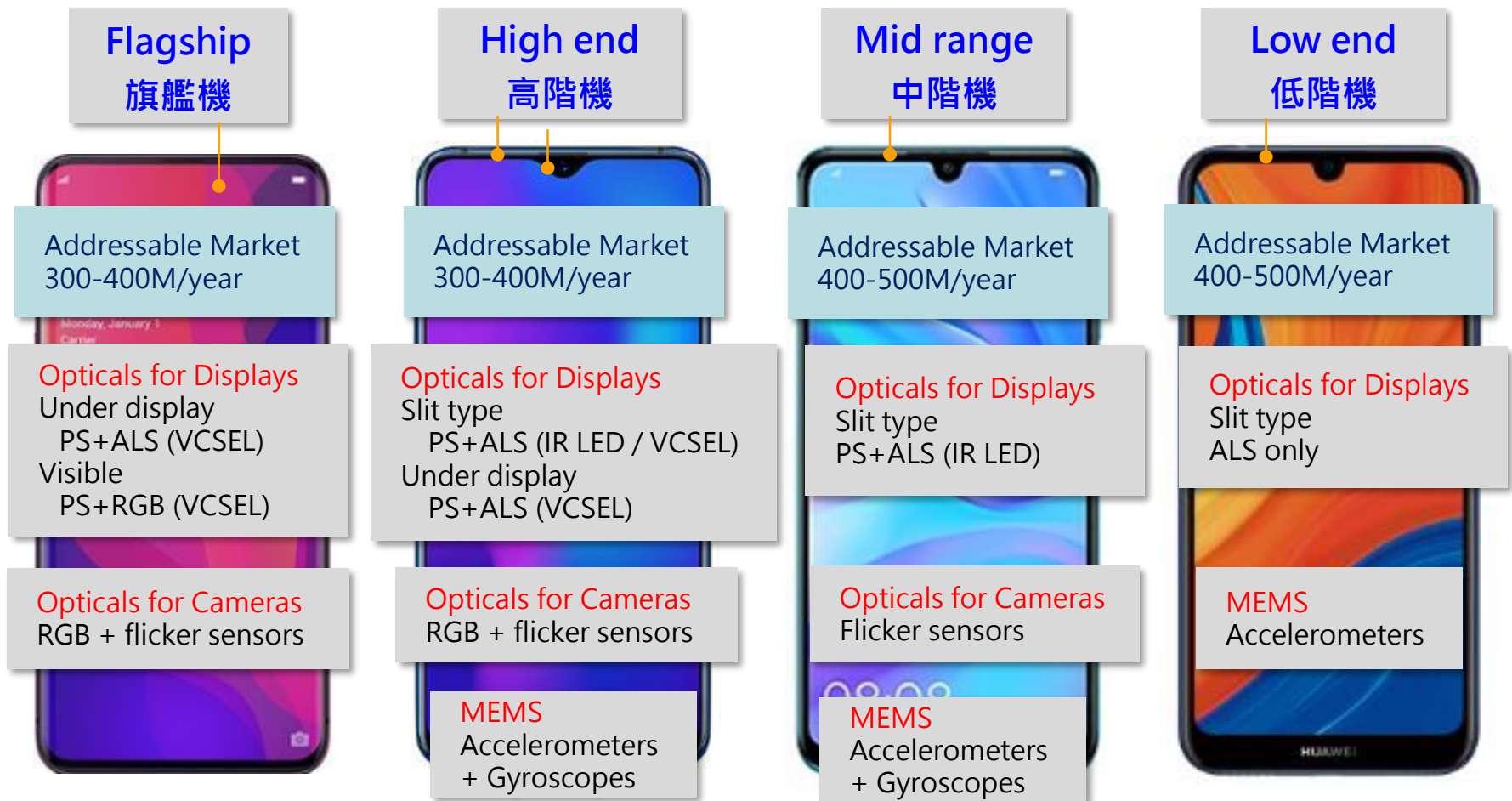
## Low end 低階機

Addressable Market  
400-500M/year

Opticals for Displays  
Slit type  
ALS only

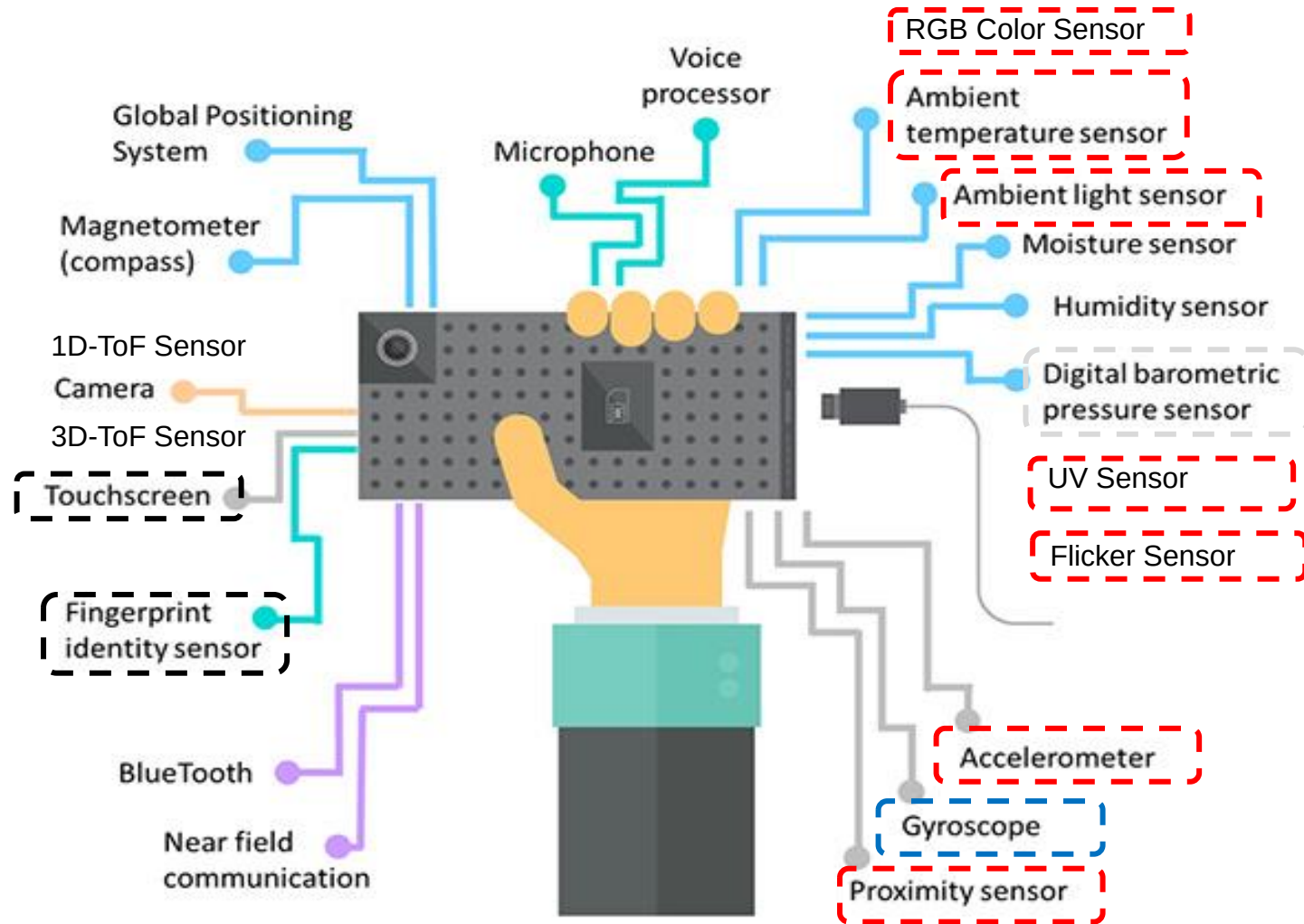
MEMS  
Accelerometers

# 展望未來





# 敬請期待

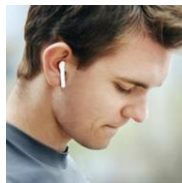


# 穿戴式裝置： 顯示器IC + 光學感測器 + MEMS + 觸控IC

## 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



Gesture control



On/off control



Proximity detection  
(ELA)



Ambient dimming control  
( Smart speaker)



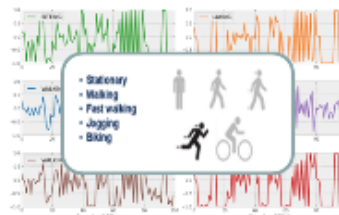
## Smart watches & fitness trackers

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



# 支持 AIoT 相關解決方案





# 產品策略

## 多樣化 (Diversification)

提供完整產品綫, 一站式採購服務  
One-stop shopping

分散應用, 分散市場, 降低風險  
Risk reduction

高成長+高毛利之產品組合  
Balance GM & sales growth

## 差異化 (Differentiation)

持續創造俱市場競爭力產品  
Make existing products better

持續擴展市場滲透率  
Market share gains

持續孵化新產品  
Incubated new products



## Consolidated



Incubator since 2009

# We'd love to hear from you!

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*Lighting up your life.*

**Sitronix**