

# Investor Conferences

## 1Q 2021

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

**Sitronix**

# About Sitronix

|                  |                           |
|------------------|---------------------------|
| Company Name     | Sitronix Technology Corp. |
| Established      | July 9, 1998              |
| Capitalization   | USD 40 million            |
| Chairman and CEO | Vincent Mao               |
| IPO Listing      | December 25, 2003 (8016)  |



## Consolidated

矽創電子

**Sitronix**

Display Driver IC



Incubator since 2009

# Product Portfolio

## 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



Subsidiaries

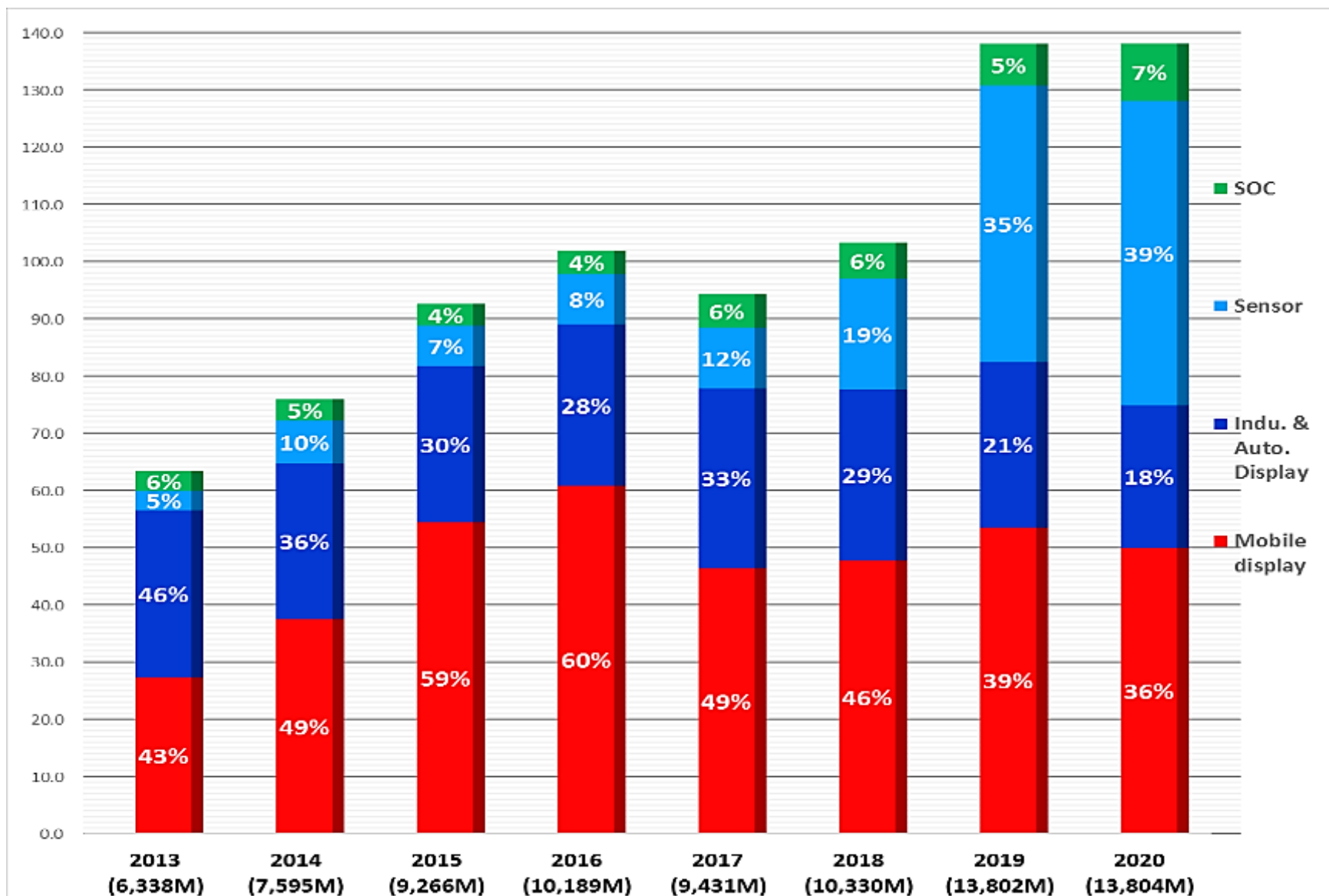


Differentiation

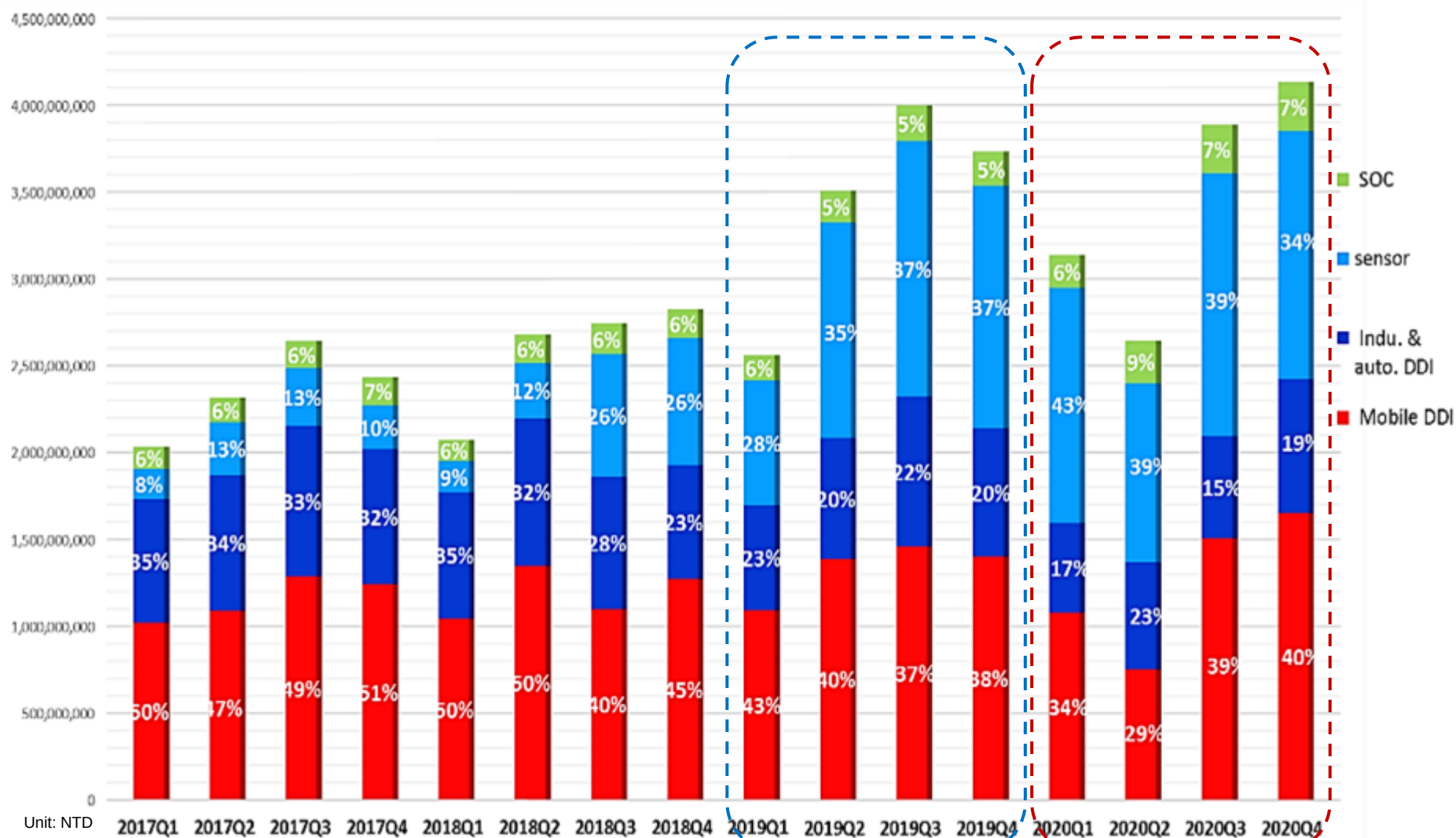
Diversification

Incubator

# Product Mix

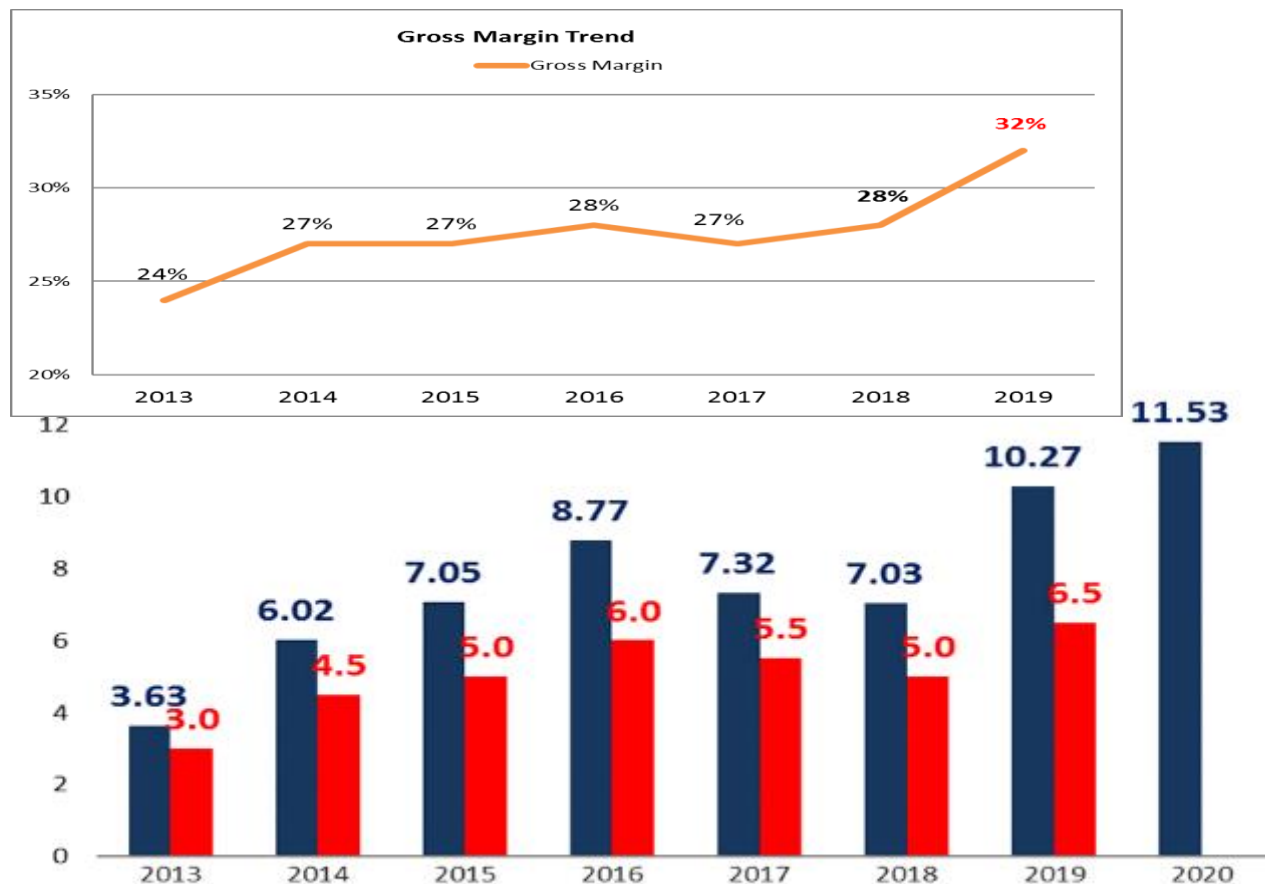


# Quarterly Product Mix





# GM, EPS ,Dividends



| Year | Q1   |     | Q2   |     | Q3   |     | Q4   |     | Annual |     |               |
|------|------|-----|------|-----|------|-----|------|-----|--------|-----|---------------|
|      | EPS  | GM  | EPS  | GM  | EPS  | GM  | EPS  | GM  | EPS    | GM  | Cash dividend |
| 2020 | 2.43 | 32% | 2.43 | 35% | 2.63 | 32% | 4.05 |     | 11.53  |     |               |
| 2019 | 1.70 | 33% | 2.80 | 33% | 3.22 | 32% | 2.55 | 30% | 10.27  | 32% | 6.5           |
| 2018 | 1.10 | 24% | 1.82 | 24% | 2.37 | 33% | 1.74 | 30% | 7.03   | 28% | 5.0           |

# Mobile Display Driver ICs

## Small-sized DDIC - zeroCap

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



## Smartphone DDIC - zeroCap

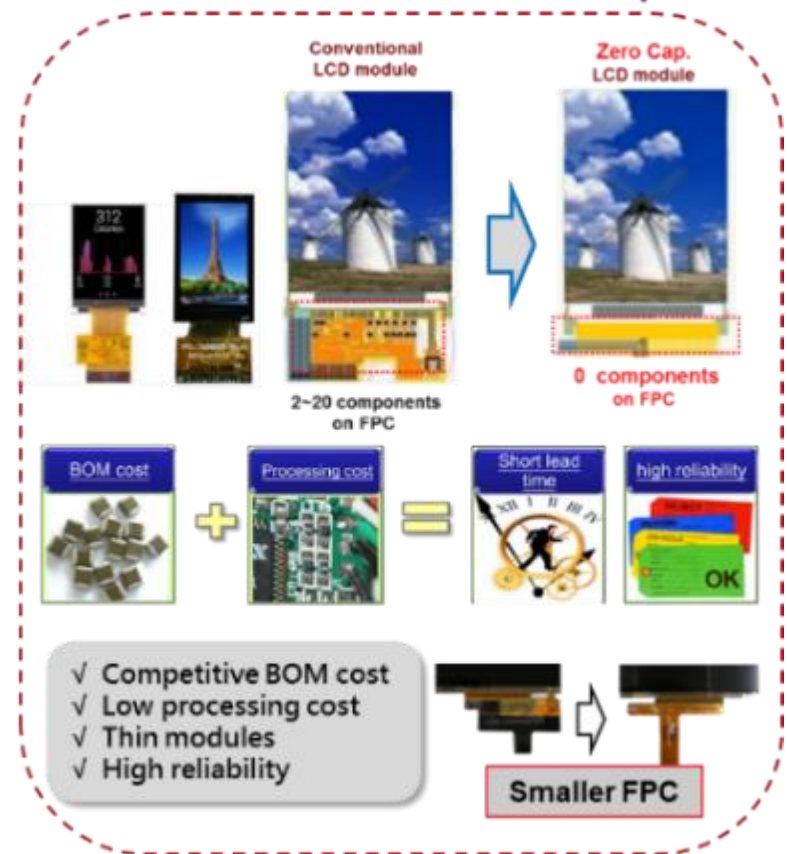
2018: > 130M pcs  
2019: > 250M pcs  
2020: > 320M pcs



## Differentiation

Sitronix's Patents

zerocap



# Automotive Display Driver ICs

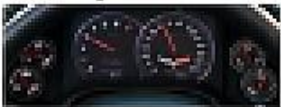
Diversification

< 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





## Diversification

The collage features a wide variety of electronic devices and applications, all utilizing a-TFT displays. At the top left is a large office printer with a document being printed. Below it are several mobile phones, including a cordless phone and a flip phone. To the right, there are smart meters, a digital scale, and a small digital display showing '102'. Further right are two white security cameras, a black rice cooker, and a circular digital display showing 'Fuel Exam 2.63'. In the center, there is a GoPro camera mounted on a tripod, a blue and white digital scale, and a small digital display showing '006.3'. Below the GoPro is a black and white digital display showing a person's face. To the right of the GoPro is a black and white digital display showing a person's face. In the bottom left, there is a small digital display showing '029', a black and white digital display showing '10:09', and a small digital display showing '10:09'. In the bottom right, there is a small digital display showing '10:09', a small digital display showing '10:09', and a small digital display showing '10:09'.

# 光學感測晶片 Optical Sensors

## PS + ALS shipment

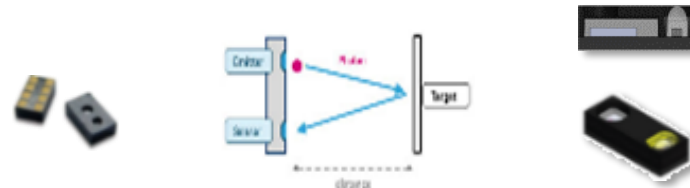
2018 : >340M pcs

2019 : >600M 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



# 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)



Upgrading because of increases in...

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



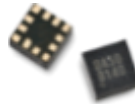
16:9 → 18:9 → 19:9 ...

# 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

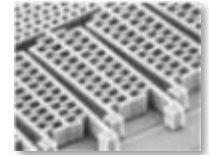


## G-sensor shipment

2018 : >30M pcs

2019 : >55M pcs

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





# 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

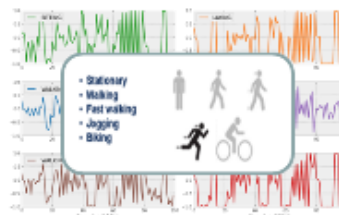
## Smart watches & fitness trackers

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



# Sensor : 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

## 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)

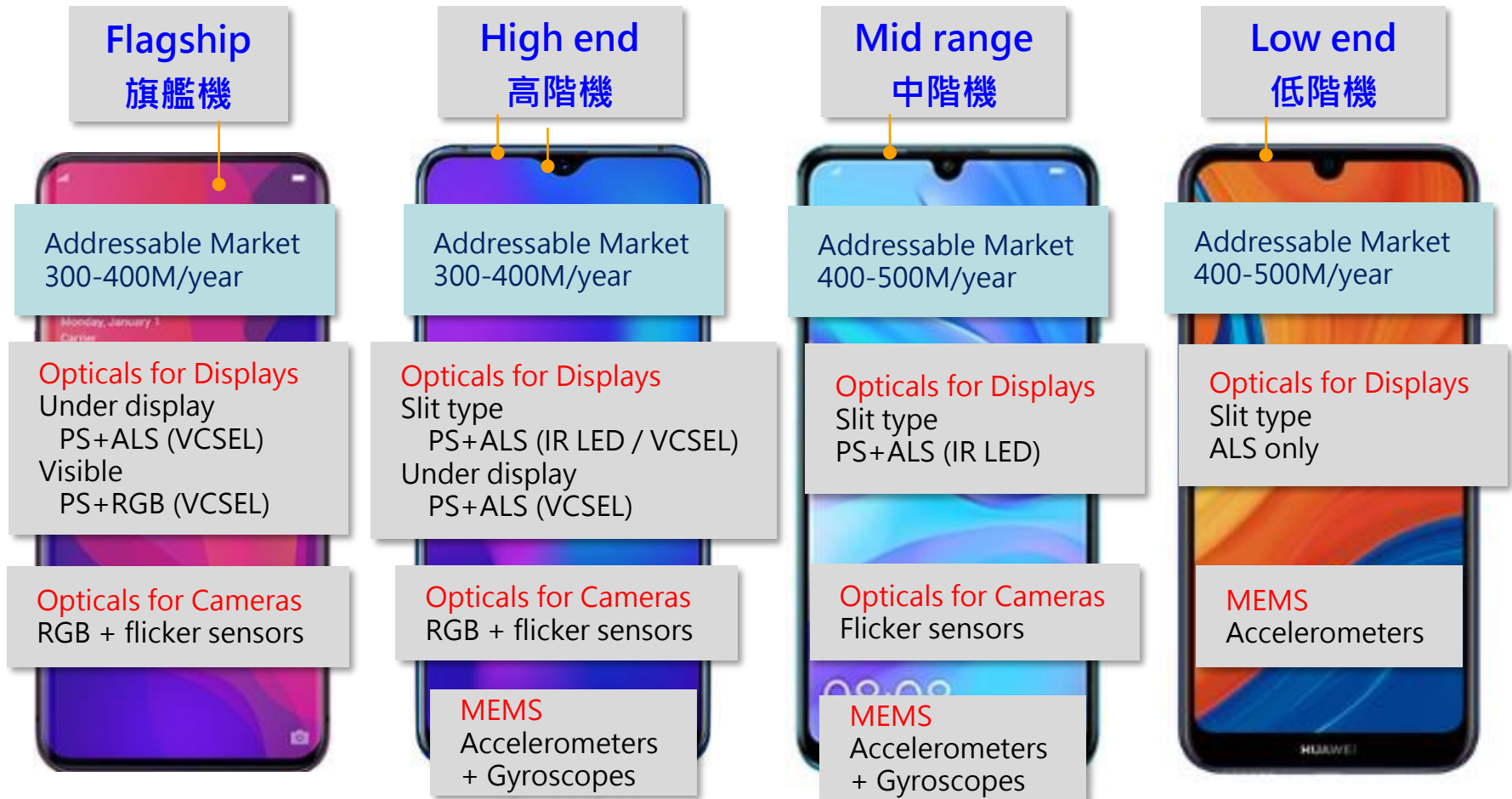
## Low end 低階機

Addressable Market  
400-500M/year

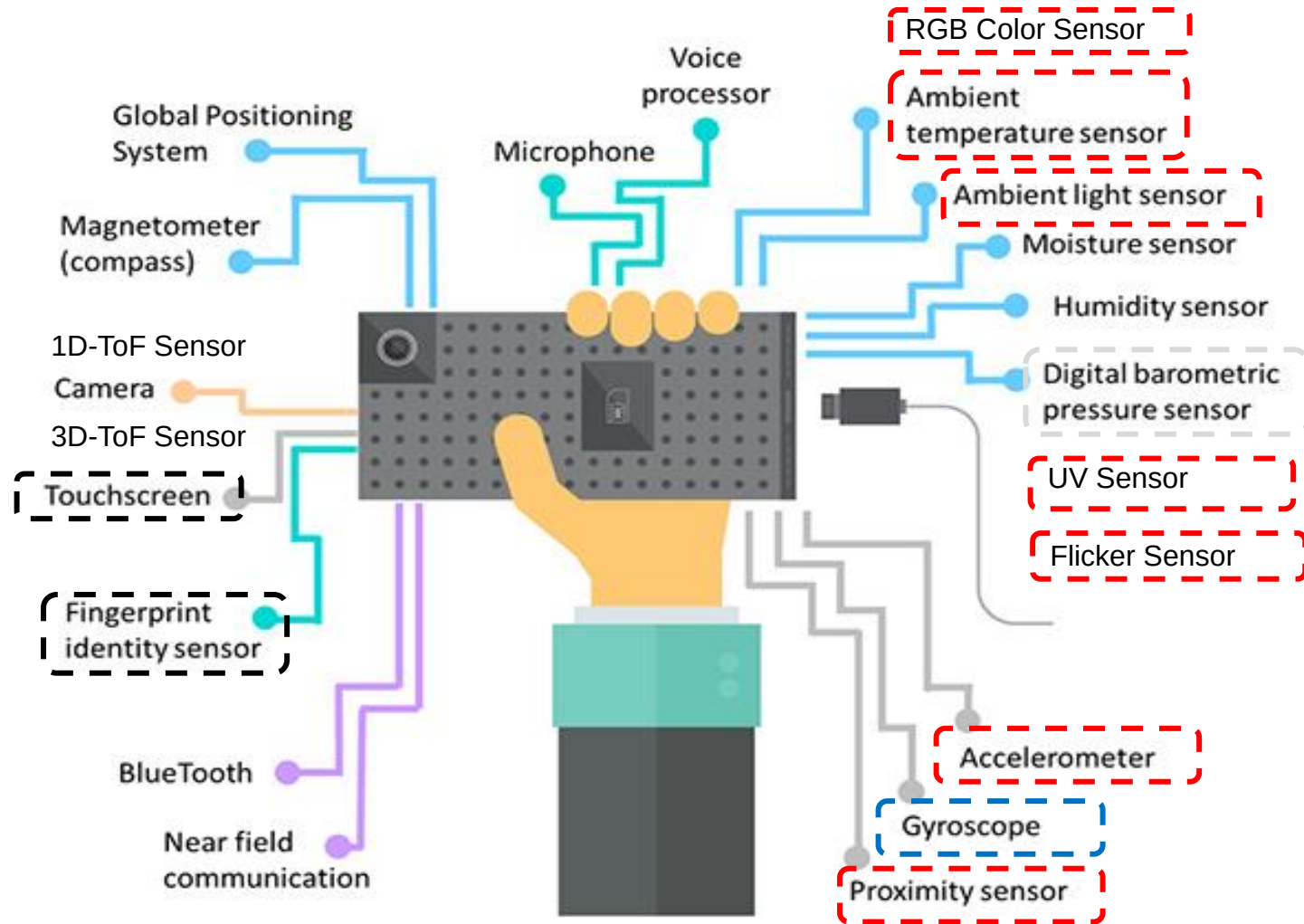
Opticals for Displays  
Slit type  
ALS only

MEMS  
Accelerometers

# Going Forward



# Stay Tuned





# Our Strategy

## 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**

# Consolidated Income Statement

| Item                        | Q3 2020   |            | Q2 2020   |            | Q1 2020   |            | Q1-Q4 2019 |            | Q3 2019   |            |
|-----------------------------|-----------|------------|-----------|------------|-----------|------------|------------|------------|-----------|------------|
|                             | Results   | % of sales | Results   | % of sales | Results   | % of sales | Results    | % of sales | Results   | % of sales |
| Net Sales                   | 3,887,941 | -          | 2,644,857 | -          | 3,138,847 | -          | 13,802,738 | -          | 4,000,478 | -          |
| Gross Profit                | 1,253,220 | 32%        | 925,366   | 35%        | 1,011,677 | 32%        | 4,385,345  | 32%        | 1,280,271 | 32%        |
| Operating Expense           | 628,945   | 16%        | 525,562   | 20%        | 569,936   | 18%        | 2,308,582  | 17%        | 630,271   | 16%        |
| Net other income (expenses) | 265       | 0%         | 662       | 0%         | 91,354    | 3%         | 9,663      | 0%         | 9,662     | 0%         |
| Operating Income            | 624,540   | 16%        | 400,466   | 15%        | 533,095   | 17%        | 2,086,426  | 15%        | 659,662   | 16%        |
| Income before Tax           | 628,840   | 16%        | 497,065   | 19%        | 549,896   | 17%        | 2,203,422  | 16%        | 693,490   | 17%        |
| Net Income*                 | 315,601   | 8%         | 291,899   | 11%        | 291,416   | 9%         | 1,230,588  | 9%         | 386,629   | 10%        |
| EPS                         | 2.63      | -          | 2.43      | -          | 2.43      | -          | 10.27      | -          | 3.22      | -          |

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"

# Consolidated Balance Sheet

| Item               | 2020/9/30  | 2020/6/30  | 2020/3/31  | 2019/12/31 | 2019/9/30  |
|--------------------|------------|------------|------------|------------|------------|
| Total Assets       | 12,691,112 | 13,313,165 | 11,315,424 | 10,760,904 | 10,013,046 |
| Current Assets     | 10,741,502 | 11,320,483 | 9,386,607  | 8,626,168  | 7,945,341  |
| Cash & Equivalents | 3,751,335  | 4,123,024  | 3,356,031  | 2,932,647  | 2,944,608  |
| AR                 | 1,239,710  | 1,103,291  | 1,248,372  | 1,398,832  | 1,427,273  |
| Inventory          | 1,818,842  | 2,495,793  | 2,387,205  | 1,909,664  | 1,731,420  |
| Total Liability    | 3,886,615  | 5,046,401  | 5,630,077  | 4,155,212  | 4,003,106  |
| AP                 | 1,616,864  | 1,411,218  | 2,065,666  | 2,085,145  | 2,064,045  |
| Shareholder Eqt.   | 8,804,497  | 8,266,764  | 5,685,347  | 6,605,692  | 6,009,940  |

Unit: NT\$ thousands  
Accounting standard: IFRS