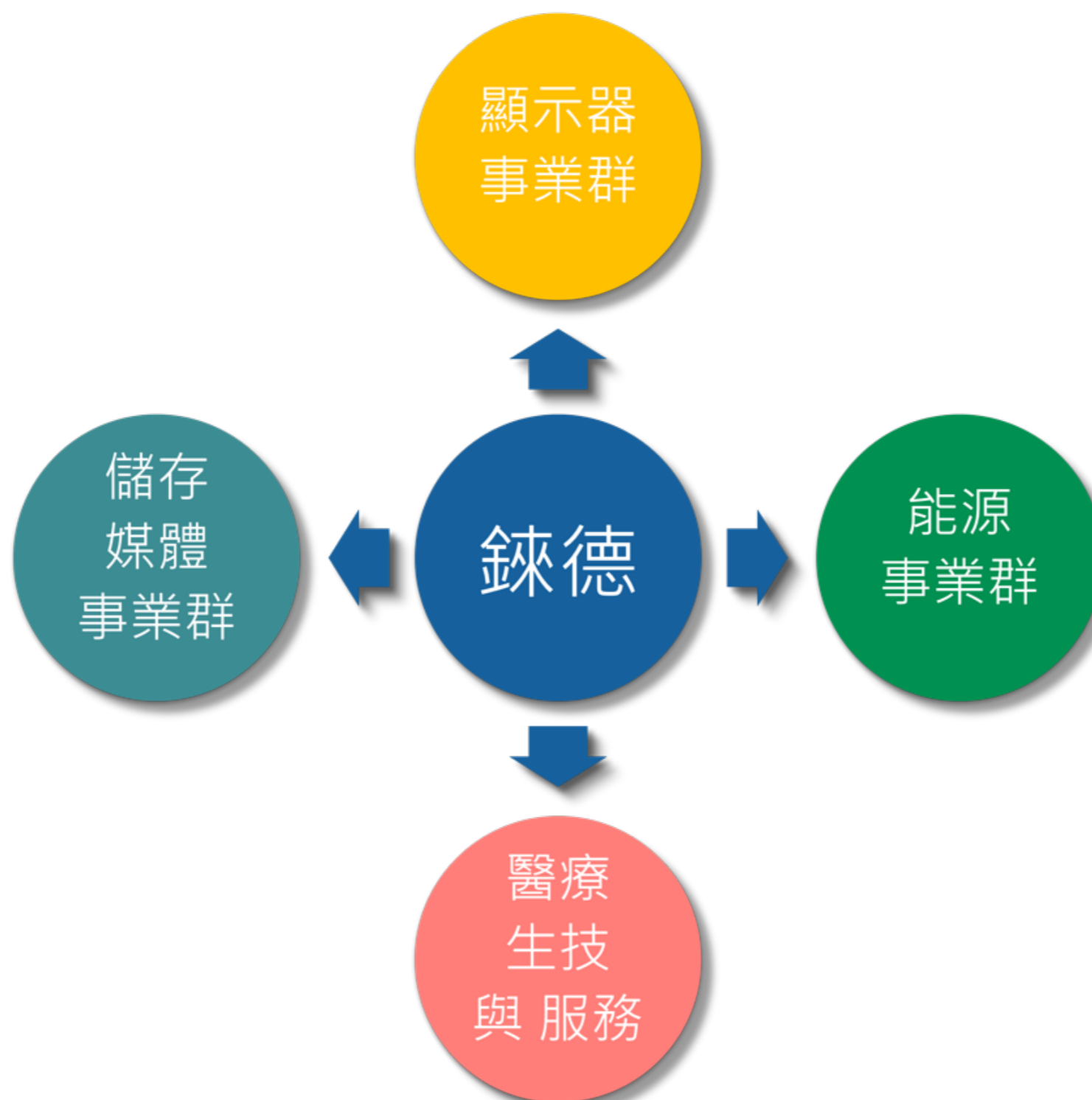




銖德集團營運發展概況

Sharing The Right Technology

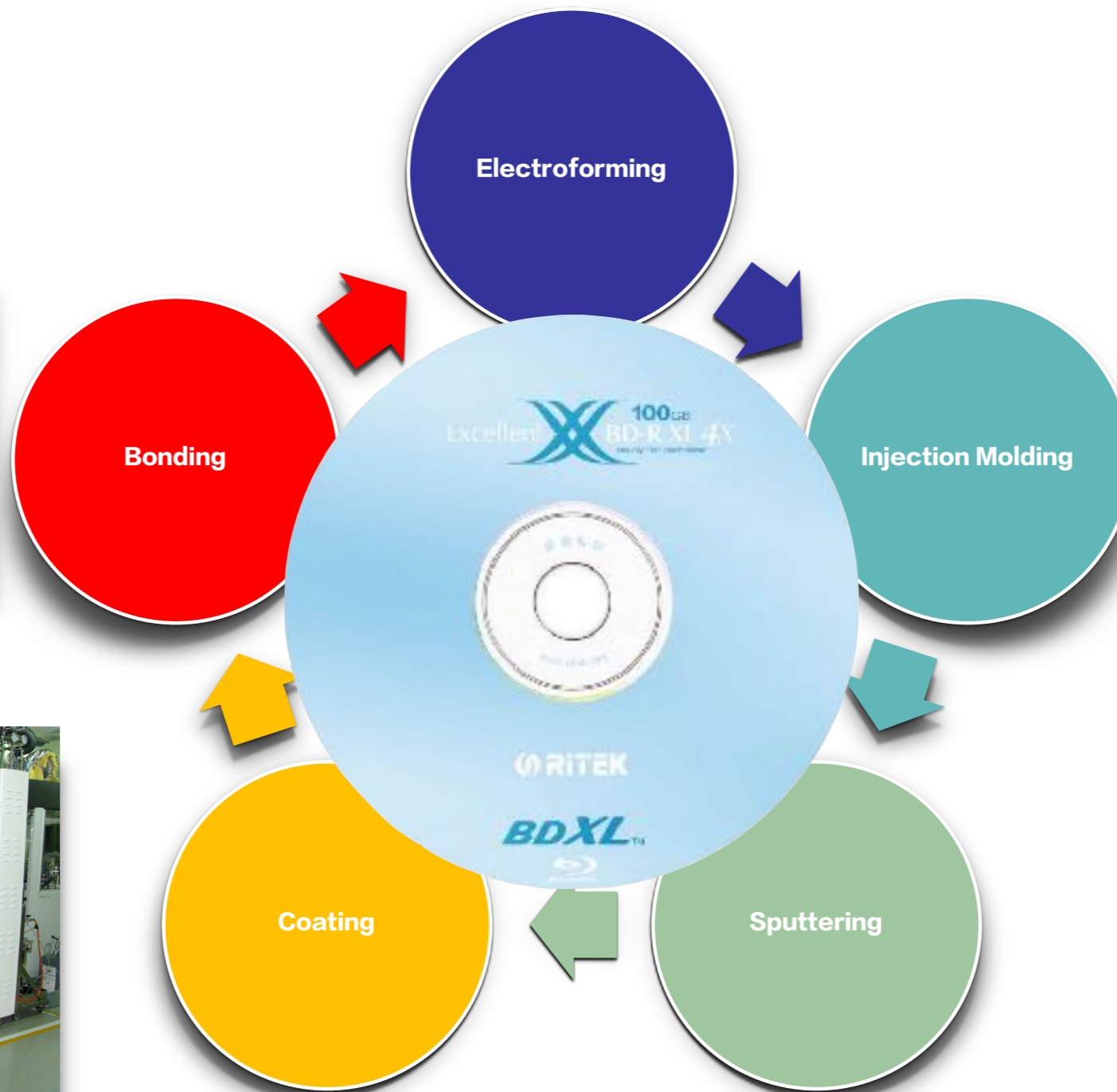
錸德主要事業群



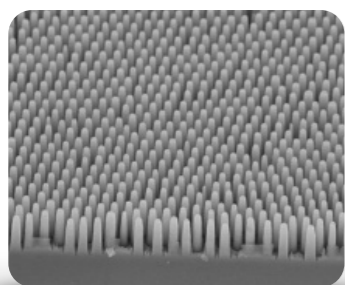
錐德錐德全球分布概況



光碟本業蘊含的『核心技術』



以鈹德核心技術拓展的新事業

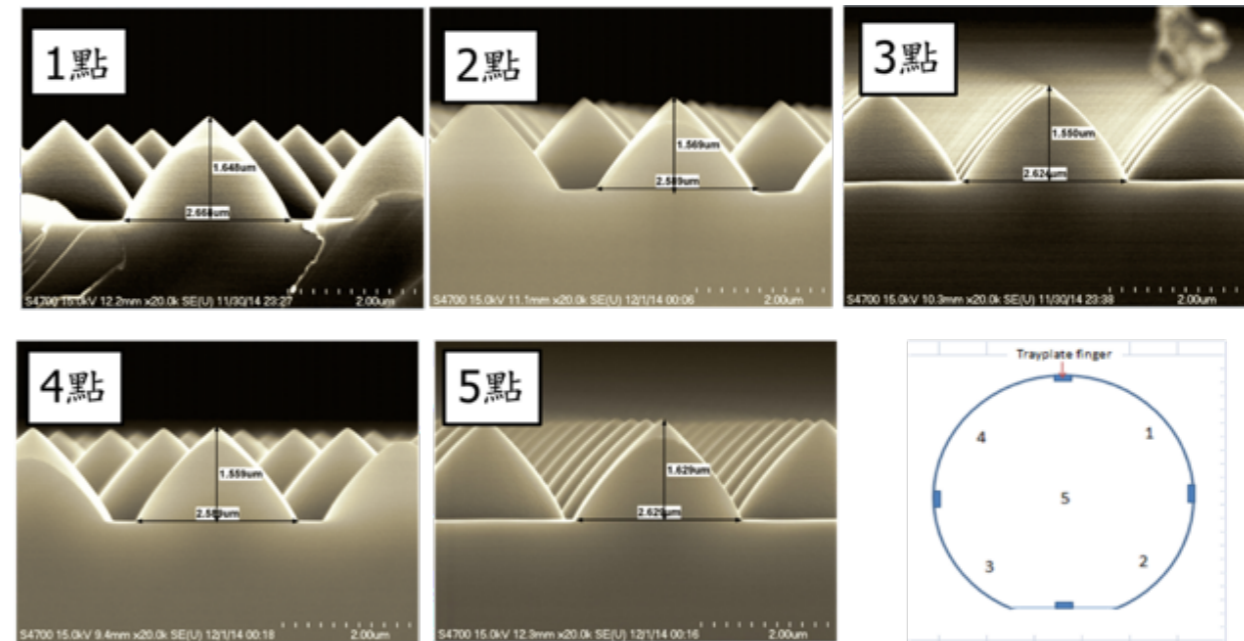


發展中的新事業

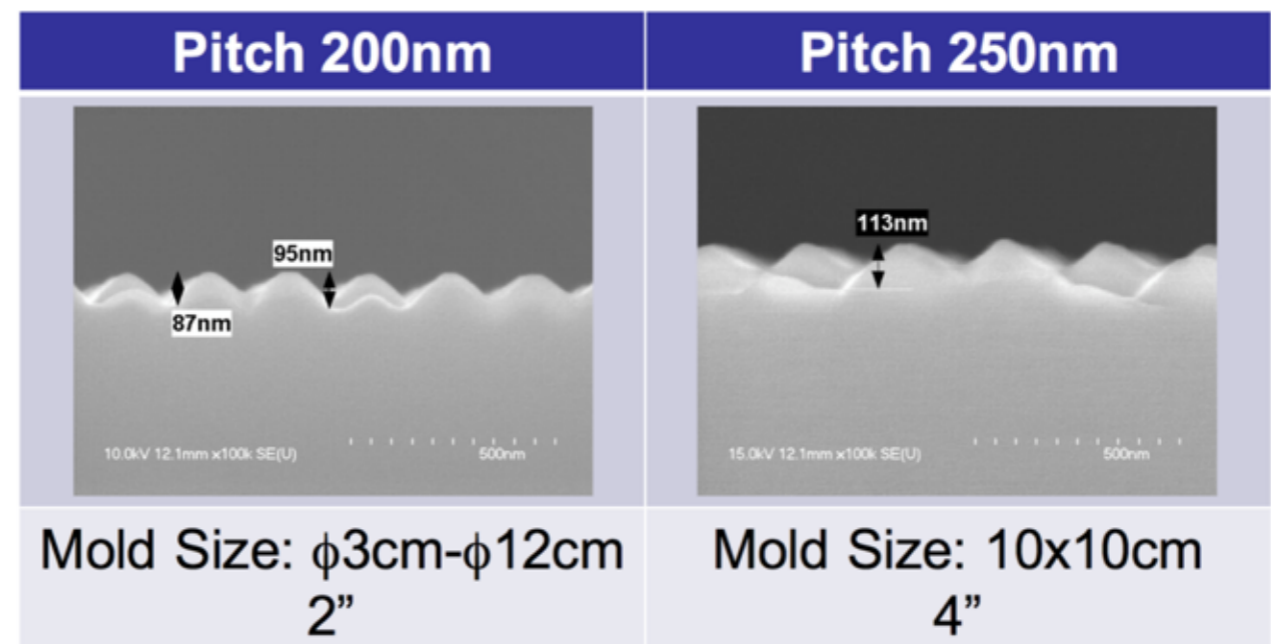
奈米壓印技術 Nanoimprint technology

- ☑ LED PSS 是拓展 Nanoimprint technology 新技術領域的第一個產品
- ☑ 目前已穩定出貨，且逐漸做出市場差異化。後續隨著 LED PSS 產品大型化、微細化的趨勢，壓印技術將會是最佳解決方案。
- ☑ 短期目標：以光學及光學鏡頭產品為主，利用壓印技術生產數十到數百奈米大小的微結構，達到結構性的抗反射、抗油污與光學指紋辨識...等產品。
- ☑ 中期目標：用奈米壓印技術生產光波導及繞射元件產品，應用於 AR(擴增實境)產品上；或是用壓印方式生產 Microlens 於光學鏡片用途。
- ☑ 長期目標：利用壓印技術製作特殊大小結構的生醫晶片。

6" Imprint PSS Products



Moth-eye structure



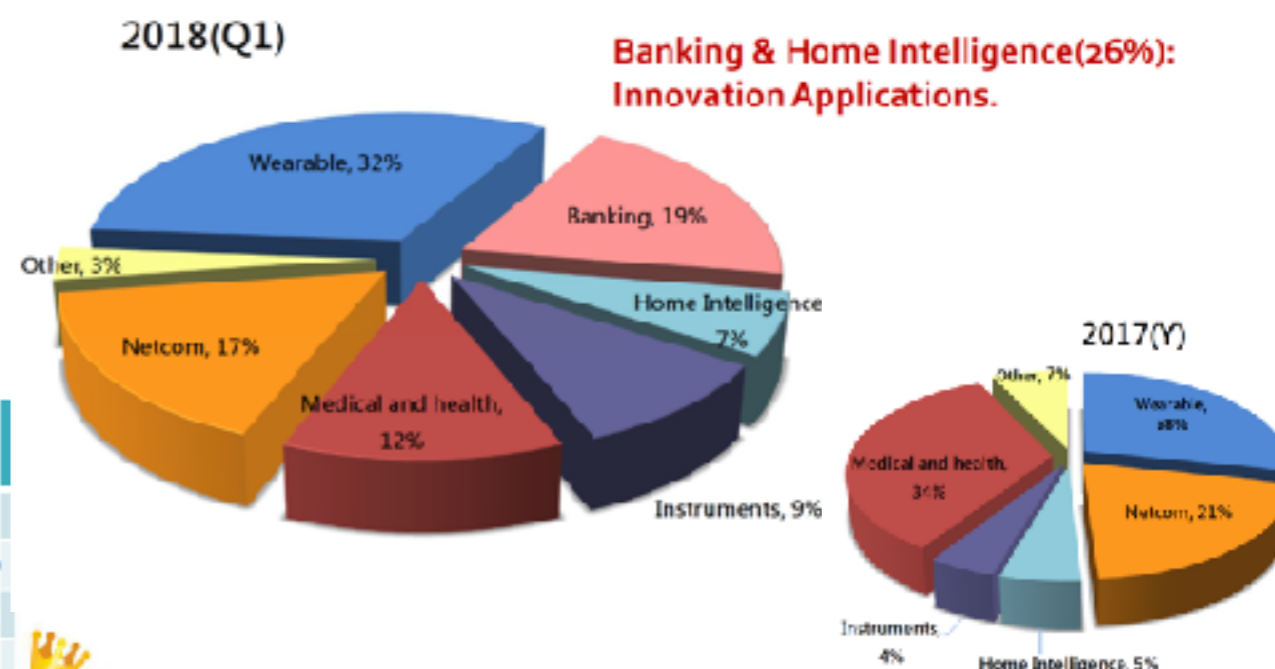
有機發光二極體 OLED

產品組合

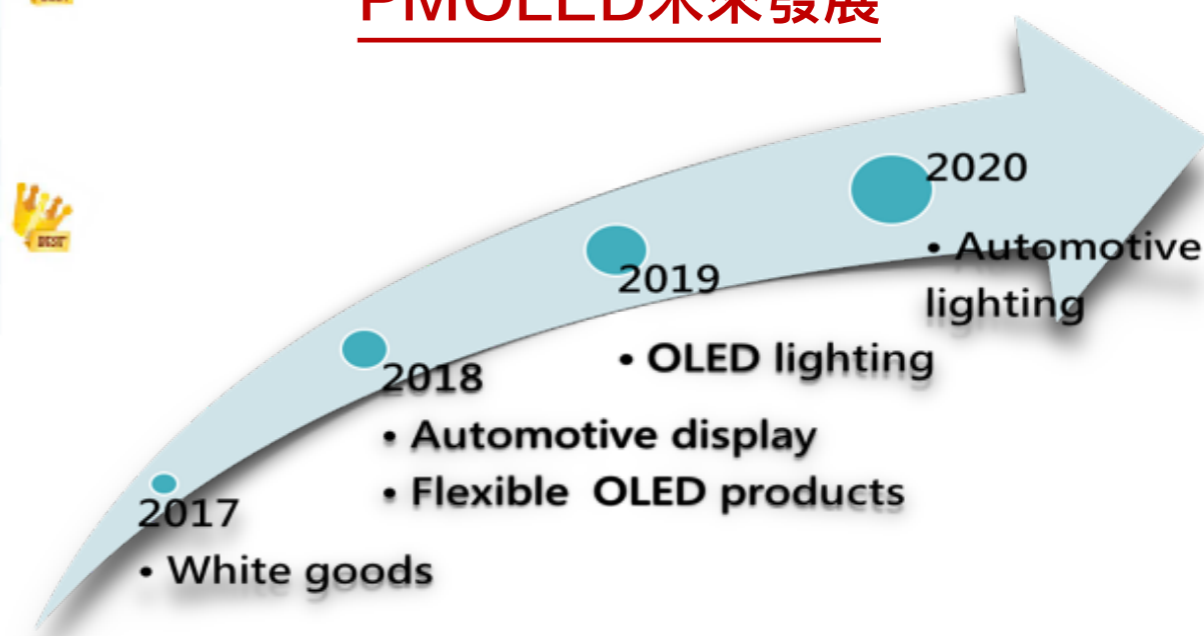
Income Statement

2017 Keep to make a new record.

| (In NTD thousands, except EPS) | 2015 | | 2016 | | 2017 | |
|-----------------------------------|-------------|------|-------------|------|-------------|------|
| | Amount | % | Amount | % | Amount | % |
| Sales revenue | 1,649,811 | 100 | 2,138,745 | 100 | 2,262,373 | 100 |
| Cost of goods sold | (1,346,850) | (82) | (1,617,403) | (76) | (1,694,009) | (75) |
| Gross profit | 302,961 | 18 | 521,342 | 24 | 568,364 | 25 |
| Operating expenses | (170,111) | (10) | (273,054) | (12) | (248,172) | (11) |
| Net operating income | 132,850 | 8 | 248,288 | 12 | 320,192 | 14 |
| Non-operating income and expenses | (2,970) | - | 87,726 | 3 | 76,908 | 4 |
| Net income before tax | 129,880 | 8 | 336,014 | 15 | 397,100 | 18 |
| Tax expense | (9,312) | (1) | (5,209) | - | (18,680) | (1) |
| Net income | 120,568 | 7 | 330,805 | 15 | 378,420 | 17 |
| outstanding shares | 41,035,000 | | 41,035,000 | | 41,186,000 | |
| Basic EPS(NTD) | 2.94 | | 8.06 | | 9.19 | |



PMOLED未來發展



生物光碟 Bio Disc

STEP 1
Prepare the disc

STEP 3
Insert DISC into the instrument

STEP 2
Collect Blood Sample & Introducing sample into the disc

STEP 4
Read results on the screen



半導體製具 Semiconductor appliance

- ☑ 當前錒德在此項半導體製具的高階市場技術領先
- ☑ 主要客戶為國內外一線半導體封裝廠

Solder ball stencil



IC substrate (pinting stencil)

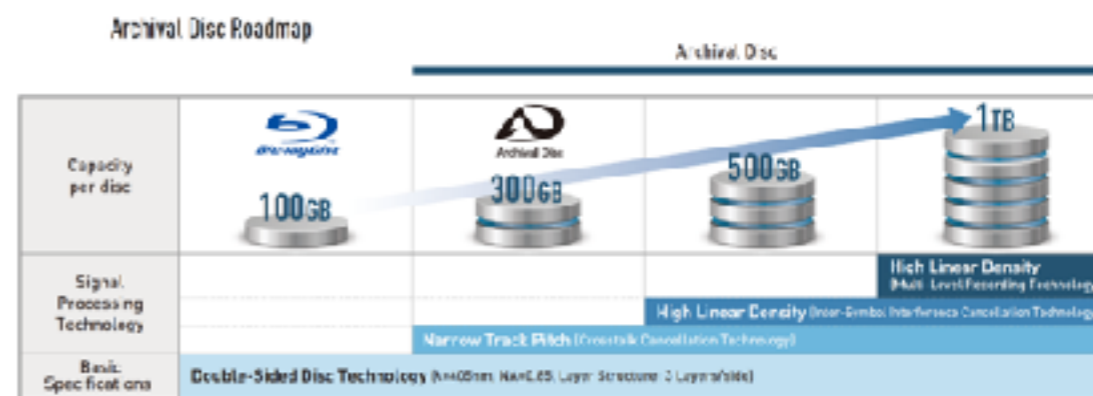
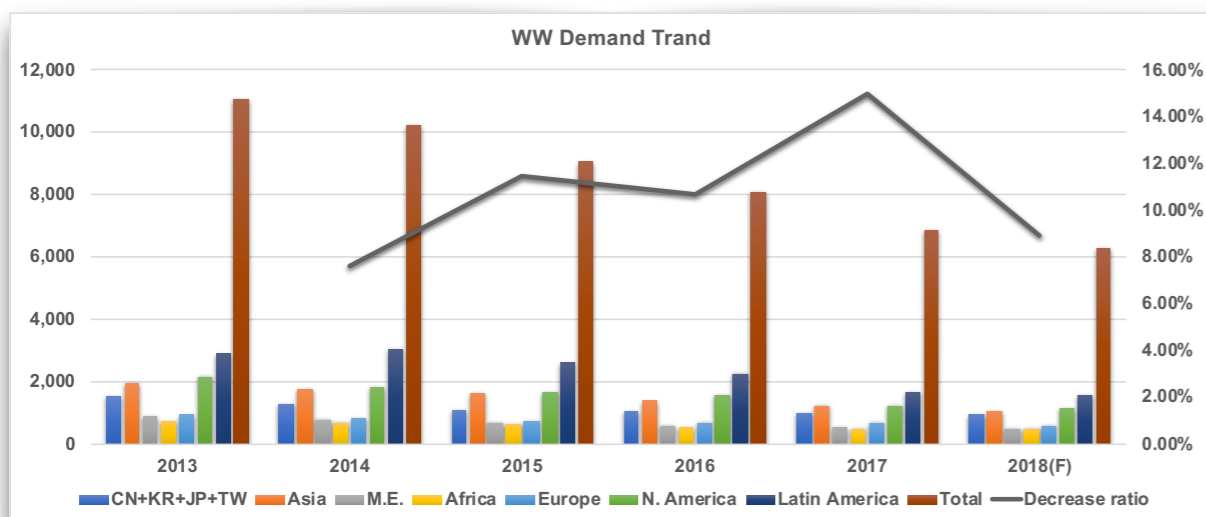


銖德預計七月量產300GB AD光碟片



- ☑ 2018消費者市場光碟年需求約6-70億片
- ☑ 市場需求遞減率依市場特性不同約12% - 15%
- ☑ 預計至2020約有40-50億片市場
- ☑ 新興市場記錄型光碟片需求遞減速度慢

- ☑ 資料中心冷儲存用超高容量光碟需求正要崛起
- ☑ 根據全球權威分析機構Gartner預測數據提出至2020年全球數位資訊量將會超過40,000EB
- ☑ 如果僅有1%數位資料備存到光碟，2020將會約有8億片的高容量光碟的需求(500GB /per disc)。
- ☑ 銖德成為Panasonic海外Archival Disc生產伙伴，預計七月開始量產300GB AD碟片。



Source from: Panasonic Optical Disc Data Archiving A New Age of Cold Data — The Storage Revolution Begins Now 2017

Thank You
