



志聖法人說明會

Investor Conference

Morrison Liang, Chairman

Mr. Toshio Huang, Executive Vice President of FPD Business Unit

Steven Lai, Executive Vice President of PCB Business Unit

Place: Sheraton Grand Taipei Hotel

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Disclaimer



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Manufacturing Plant



3,795 m²
Taipei



12,000 m²
Taichung



19,800 m²
Guangzhou



34,350 m²
Kunshan



Core Tech



7 Habits



他人之得，不必為自己之失
大家都可以是贏家

Think Win-Win

了解彼此需求，
做有效溝通的聆聽者
**Seek First to Understand,
then to be Understood**

尊重差異，整合不同觀點
共創最佳的合作解決方法

Synergize

不斷學習、持續進步
身心平衡發展

Sharpen the Saw

The 7 Habits of Highly Effective People

主動創造，
打破障礙與限制
Be Proactive

確立目標
克服困難徹底執行
**Begin with the End
in Mind**

訂定優先順序，
在關鍵任務與瑣碎事物中
追求平衡
First Things First

Agenda



- 2017Q3 Operating Results
- Growth Opportunities
 - Flat Panel Display (FPD)
 - Printed Circuit Board(PCB)
 - Subsidiary-TCF(PCB)
- Q&A



2017 Q3 營運成果

2017Q3 Operating Results

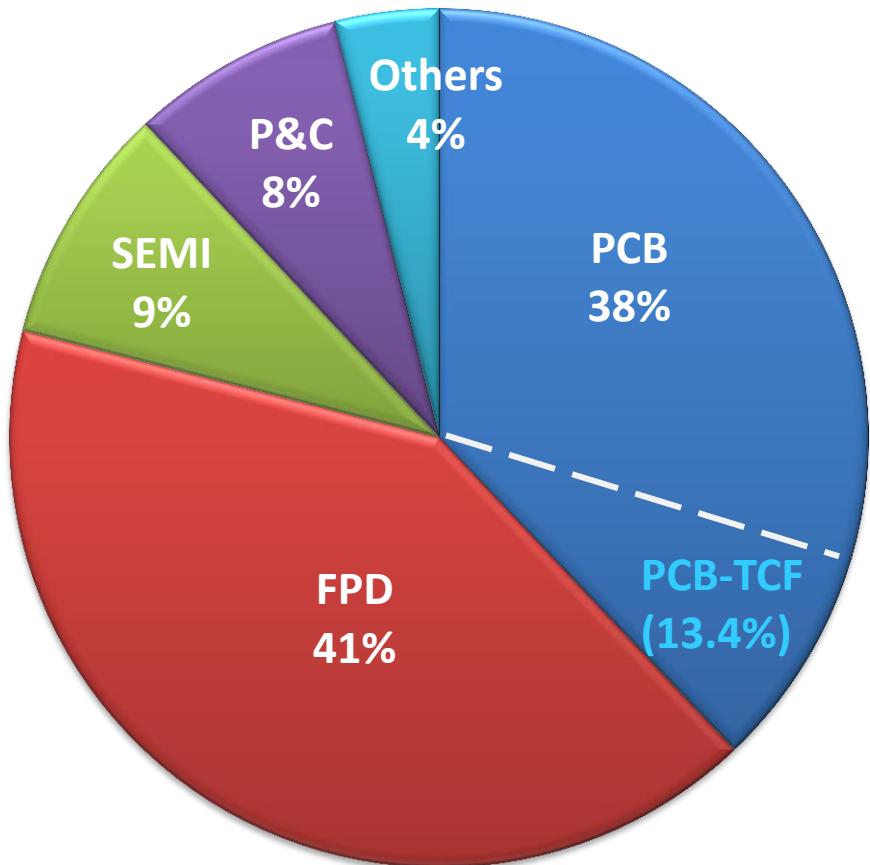
in TWD millions



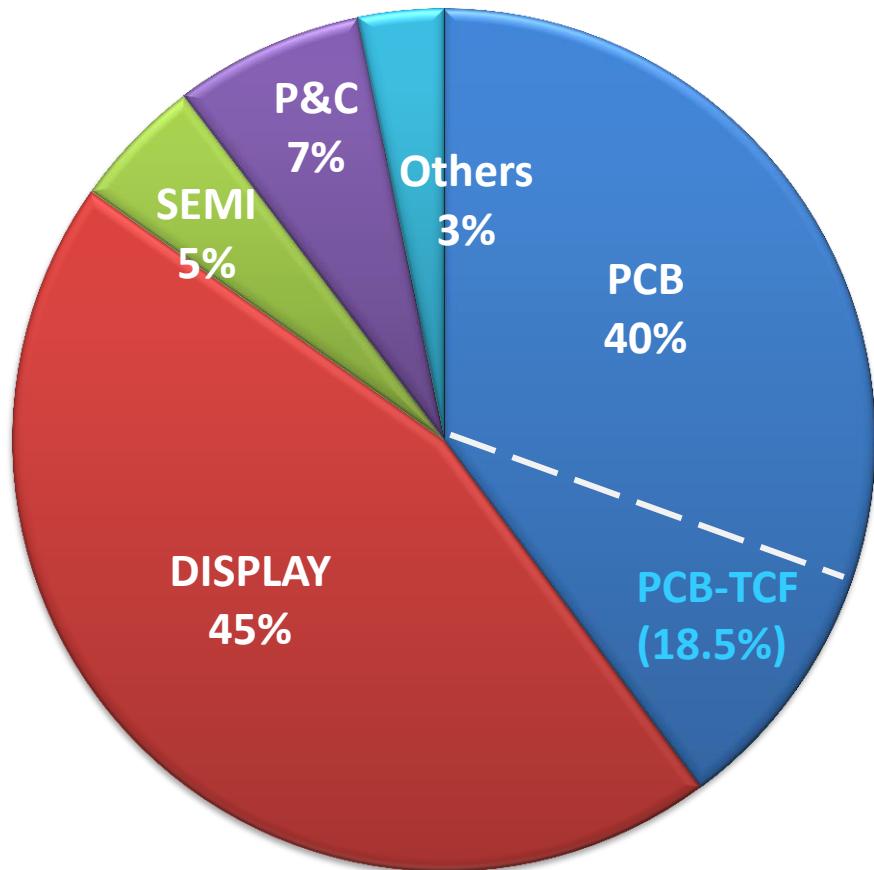
	2017Q3*		2016Q3		2016		2015		2014	
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%
Revenue-Consolidated	3,671		2,787		3,885		3,363		3,740	
COGS			1,925	69.1%	2,722	70.1%	2,619	77.9%	2,490	66.6%
Gross Margin			862	30.9%	1,162	29.9%	744	22.1%	1,250	33.4%
Operating Expense			695	24.9%	951	24.5%	968	28.8%	1,038	27.7%
Operating Income	430	11.7%	167	6.0%	212	5.5%	(224)	-6.7%	213	5.7%
Net Non-Op. Profit			(19)	-0.7%	(10)	-0.3%	(419)	-12.4%	70	1.9%
Net Income before tax	385	10.5%	148	5.3%	202	5.2%	(643)	-19.1%	283	7.6%
Net Income after tax	320	8.7%	148	5.3%	200	5.1%	(730)	-21.7%	228	6.1%
Net Income after tax attributed to stockholders of the parent	302	8.2%	158	5.7%	210	5.4%	(496)	-14.7%	243	6.5%
Employees	847				867				932	
ROE		13.94%		6.61%		10.16%		-19.55%		8.33%
EPS (NT\$/after tax)		\$2.02		\$1.04		\$1.39		(\$3.12)		\$1.53
Debt Ratio		61.36%		65.28%		62.17%		62.69%		51.03%

Revenue Breakdown

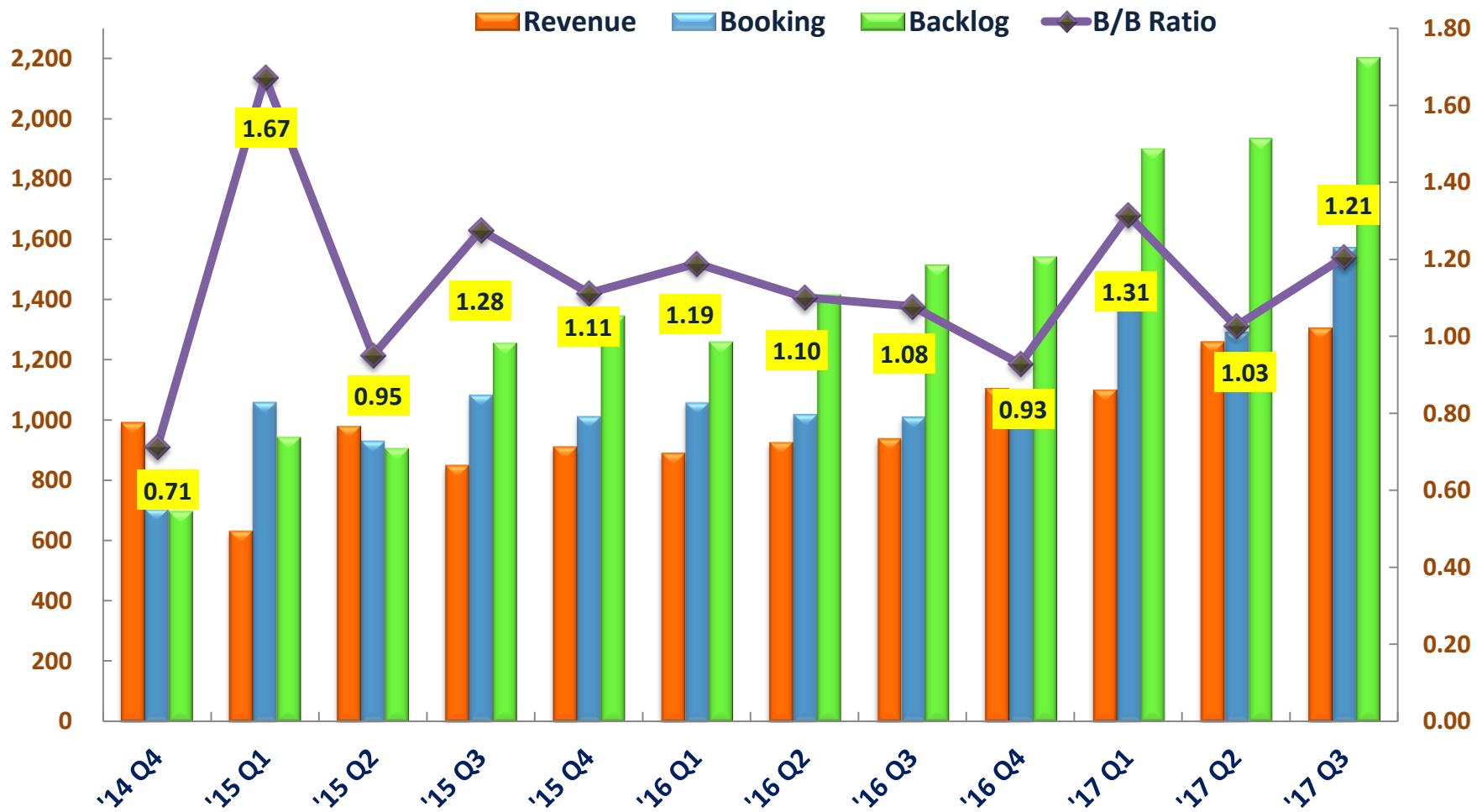
2016



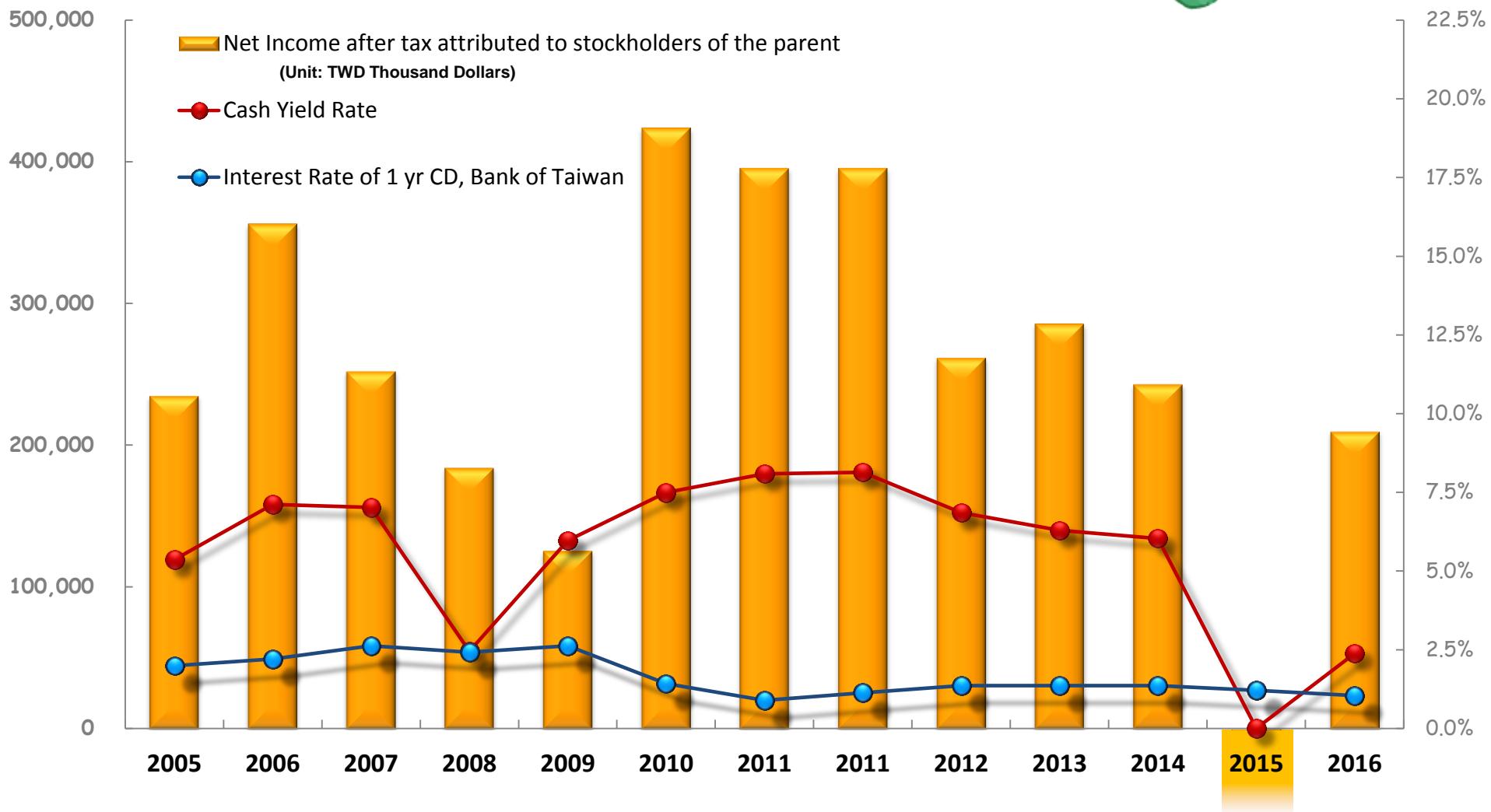
2017/1~9



B/B Ratio & Backlogs



Cash Yield





Growth Opportunities

Core Techs in SEMI/FPD UV & Thermal



真空/自動化
OVEN(SEMI)



UV2 for TFT

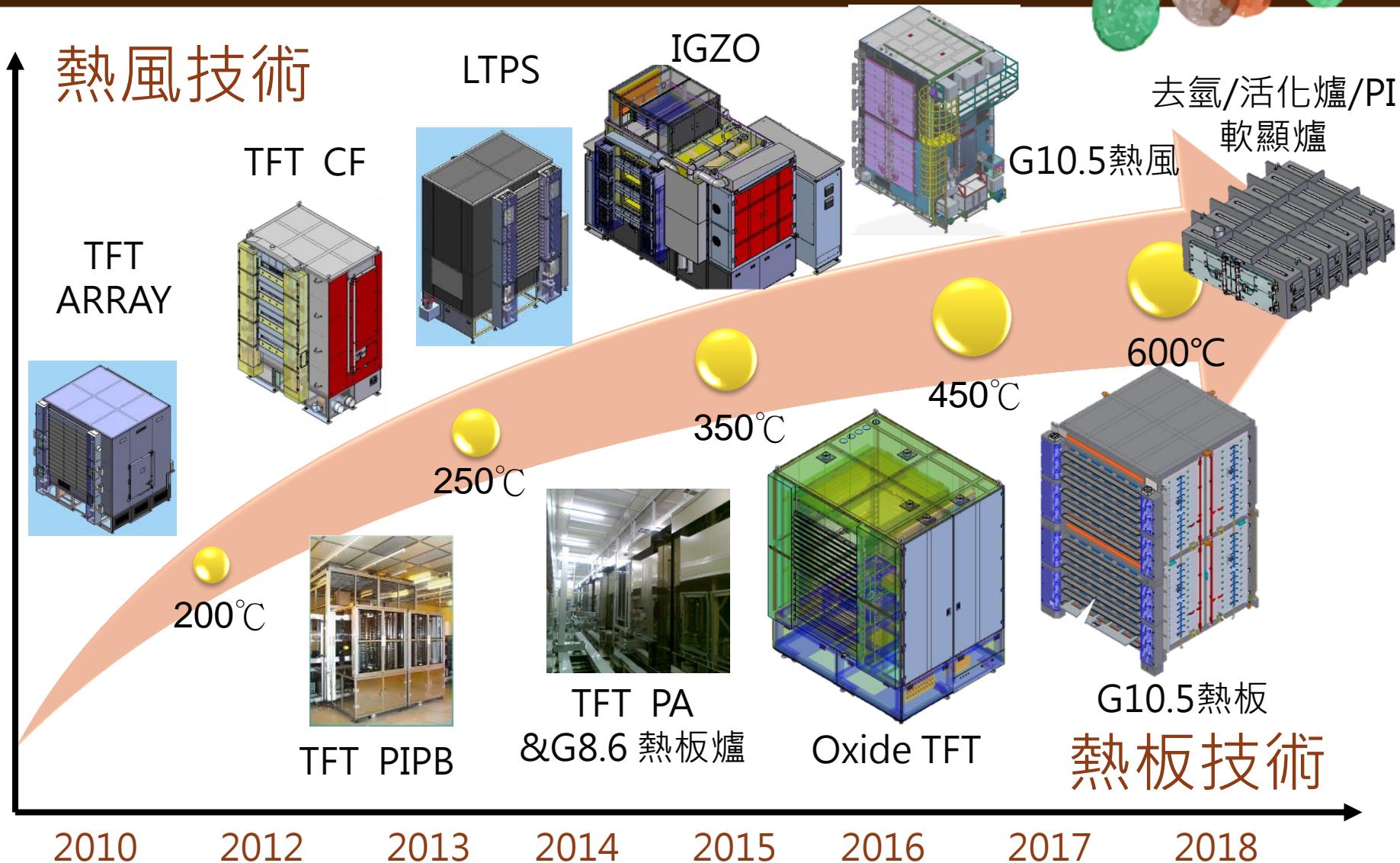


熱板 for TFT

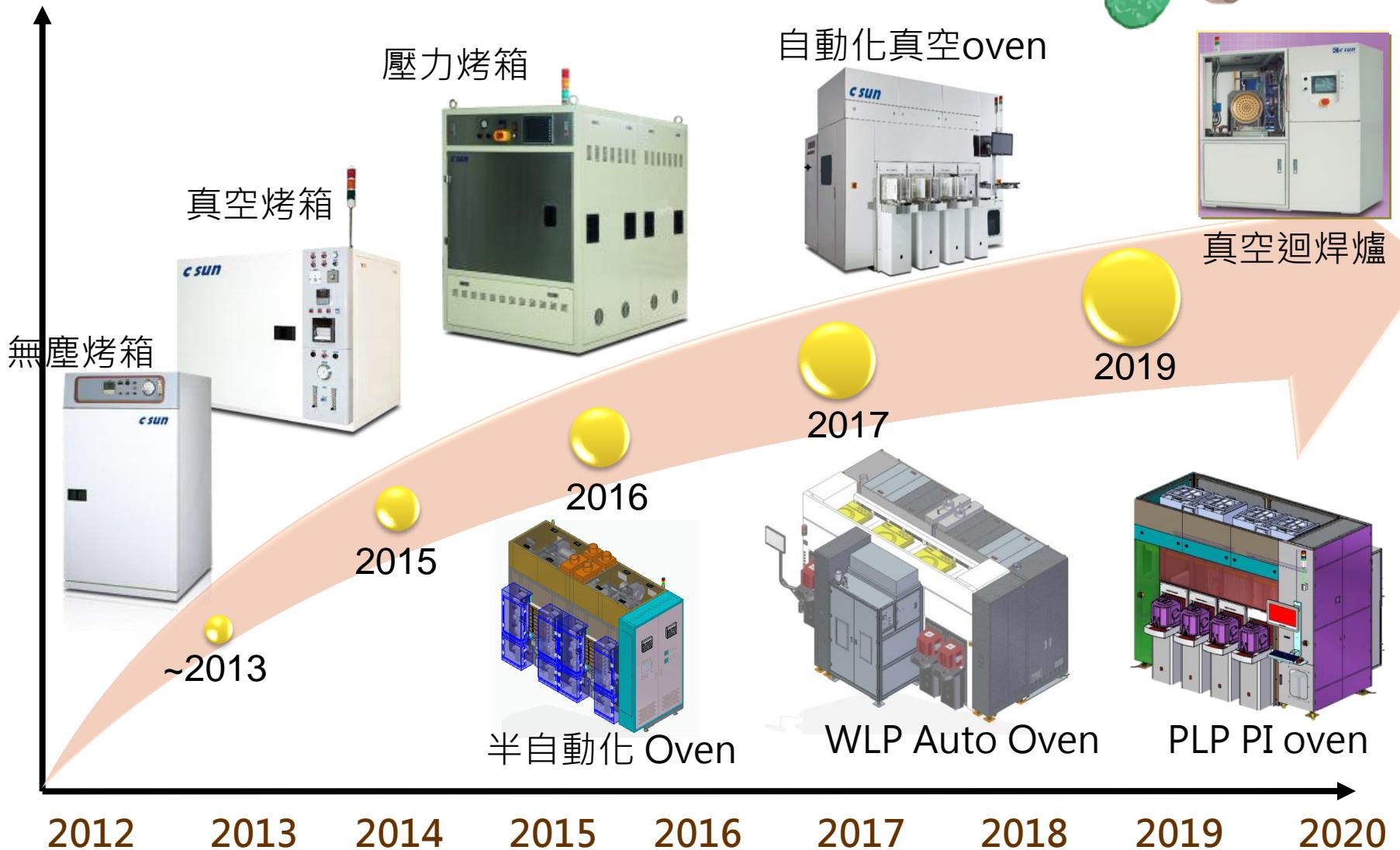


熱風 for TFT

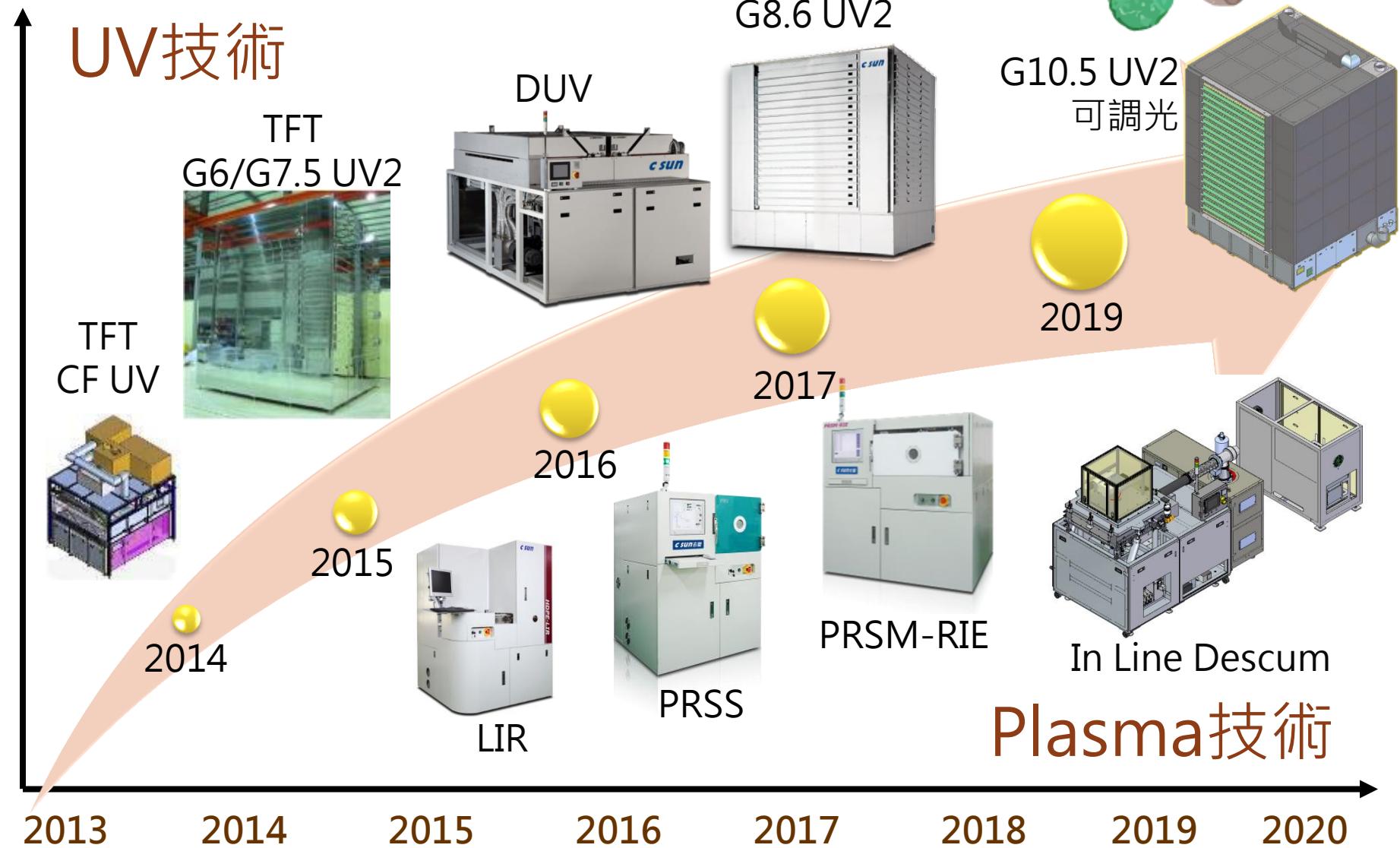
Thermal Product Roadmap in FPD



Thermal Product Roadmap in SEMI



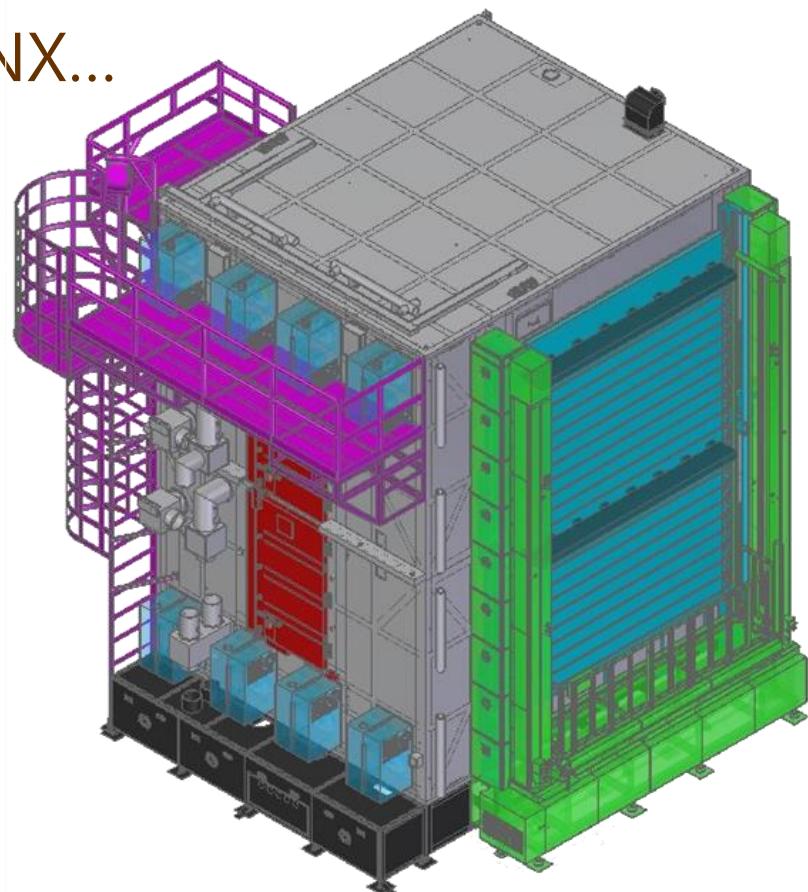
UV/Plasma Product Roadmap in FPD



Seize the Opportunities in Large Size FPD Anneal & Curing

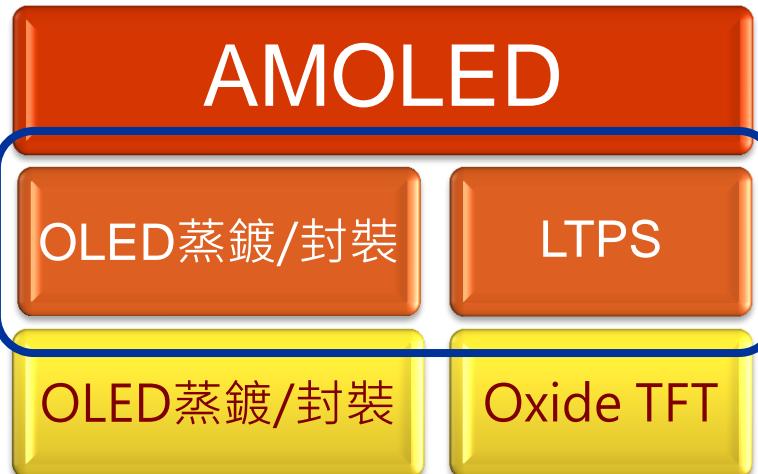
- G8.6/G10.5建廠方興未艾
- 技術:TFT設備超大型化與溫度控制技術提升。
- 客戶群:BOE/CSOT/CHOT/HKC/INX...
- G8.6烘烤設備全球市佔第一。
- 首套G10.5烘烤設備裝機中

製程	製程溫度	志聖設備
Array	230~250°C	ANOV (退火爐)
CF	230~240°C	Post-bake (光阻固烤爐)
CELL	120~160°C	SEPB (框膠固烤爐)



The Prosperous Development of AMOLED

- 產業趨勢:



- 背板技術:LTPS/Oxide TFT → 退火、去氫、活化製程。
- OLED封裝段:蒸鍍前Curing/蒸鍍後Aging。
- 客戶群:AUO/BOE/CSOT/INX/TIANMA...
- 已切入 → LTPS ITO/Metal、IGZO Oven 製程退火設備
 → OLED蒸鍍前Curing/蒸鍍後Aging
- 志聖正發展LTPS 背板製程關鍵技術:去氫、活化爐



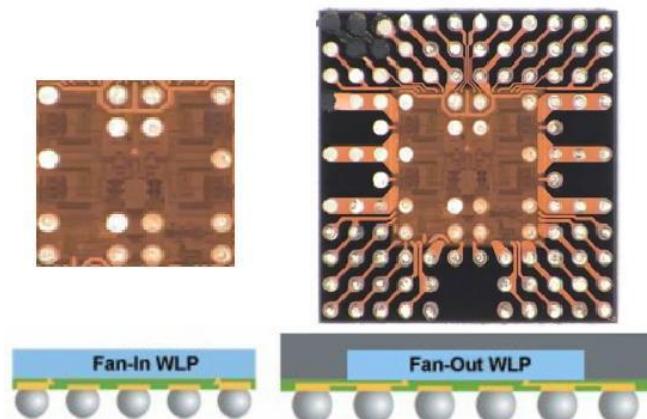
Thermal Process in Glass Case for Smartphone

- 新開發Pre Bake/Post Bake設備導入玻璃機殼製程。
- 設備已量產玻璃機殼中



The Development of Semiconductor Advanced Packaging

- 先進封裝製程發展快速(Fan-Out) ，封裝載具變化(WLP、PLP)。
- 傳統封裝廠朝向自動化整合發展，提高良率降低成本
- 熱技術應用與現況：
 - 先進封裝Molding段:與外商合作切入Molding 固化製程。
 - 與客戶合作開發切入PLP RDL 全自動烘烤設備，製程驗證中
 - 傳統Oven結合自動化技術，導入客戶端
- 客戶群:tsmc、ASE、SPIL、PTI.....。



CSUN's Business in TFT Field

2017現況
AUO L6K 昆山
AUO L7B 中科
AUO L8A 中科
BOE B10 福建
B社 惠州
CEC 南京
CSOT t2 深圳
CSOT t3 武漢
HSD 南科
HKC 重慶
IVO 昆山
L社 長沙
TIANMA 武漢
TIANMA 廈門

A* 后科	H*重慶 H*華中	C* 華北	B* B9華中	H* 南科
2017	2017	2017	2017	2017



2018展望
C* t2 華南
C* t4 華中
C* t6 華南
I* Fab1 南科
I* T2 竹南
I* Fab5 南科
K* 華東
L* 華南
B* B11 華中

Lamination Exposure & Smart Production System in PCB/SEMI/PV



Exposure Product Roadmap

- PCB
- 太陽能

設備智能 光源LED化



2000

2001

2004

2009

2010

2011

2012

2013

2014

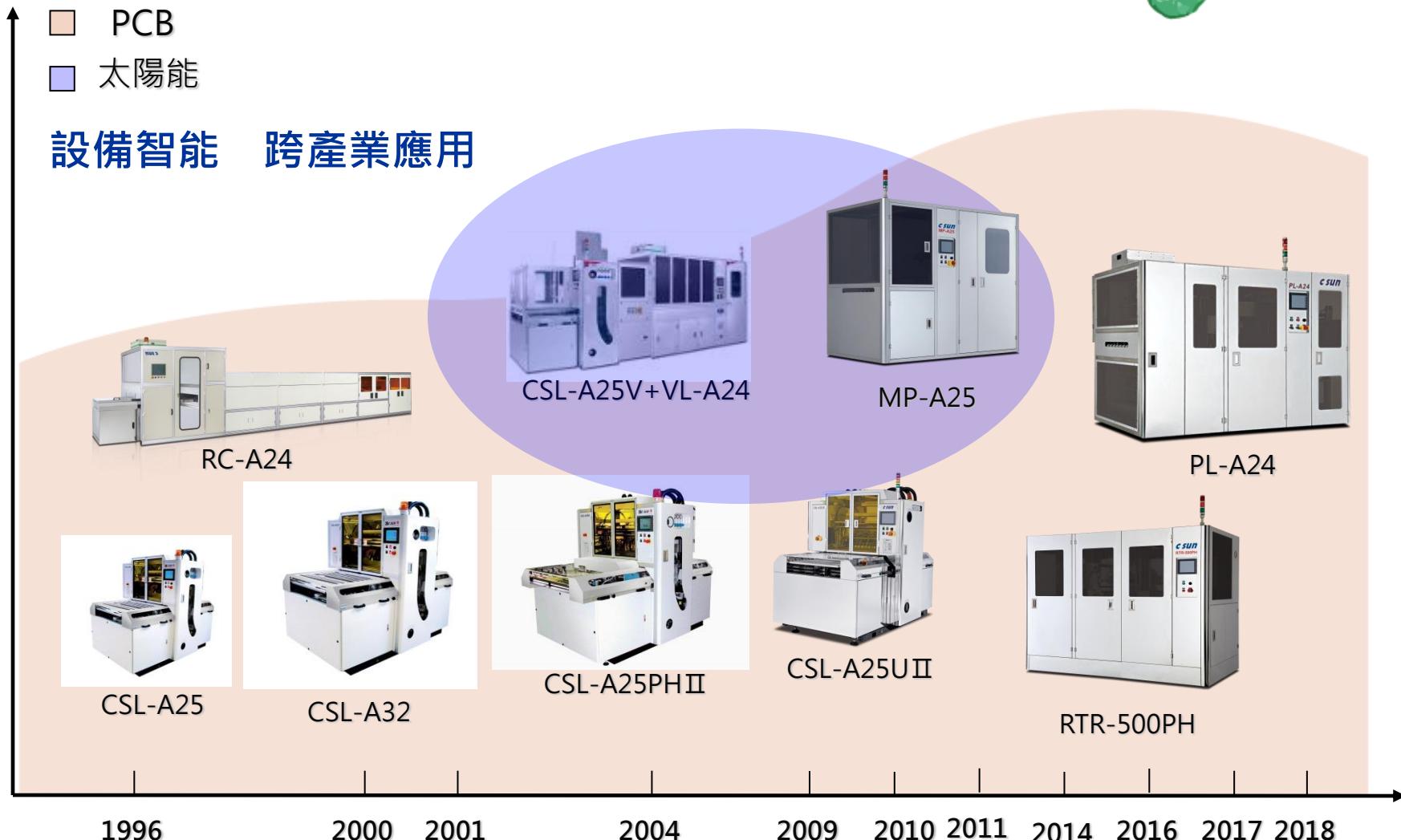
2015

2016

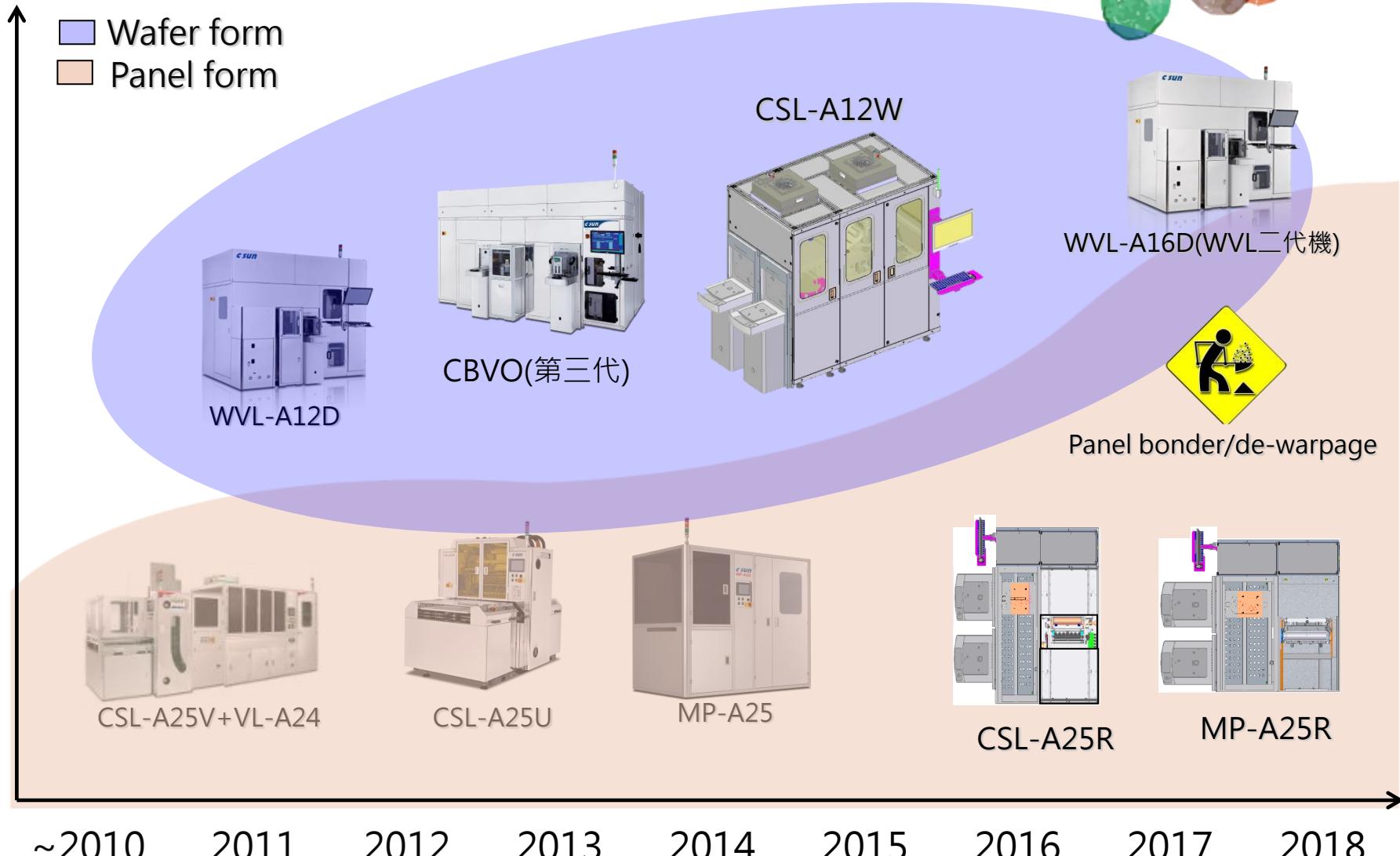
2017

2018

Lamination Product Roadmap -PCB/PV

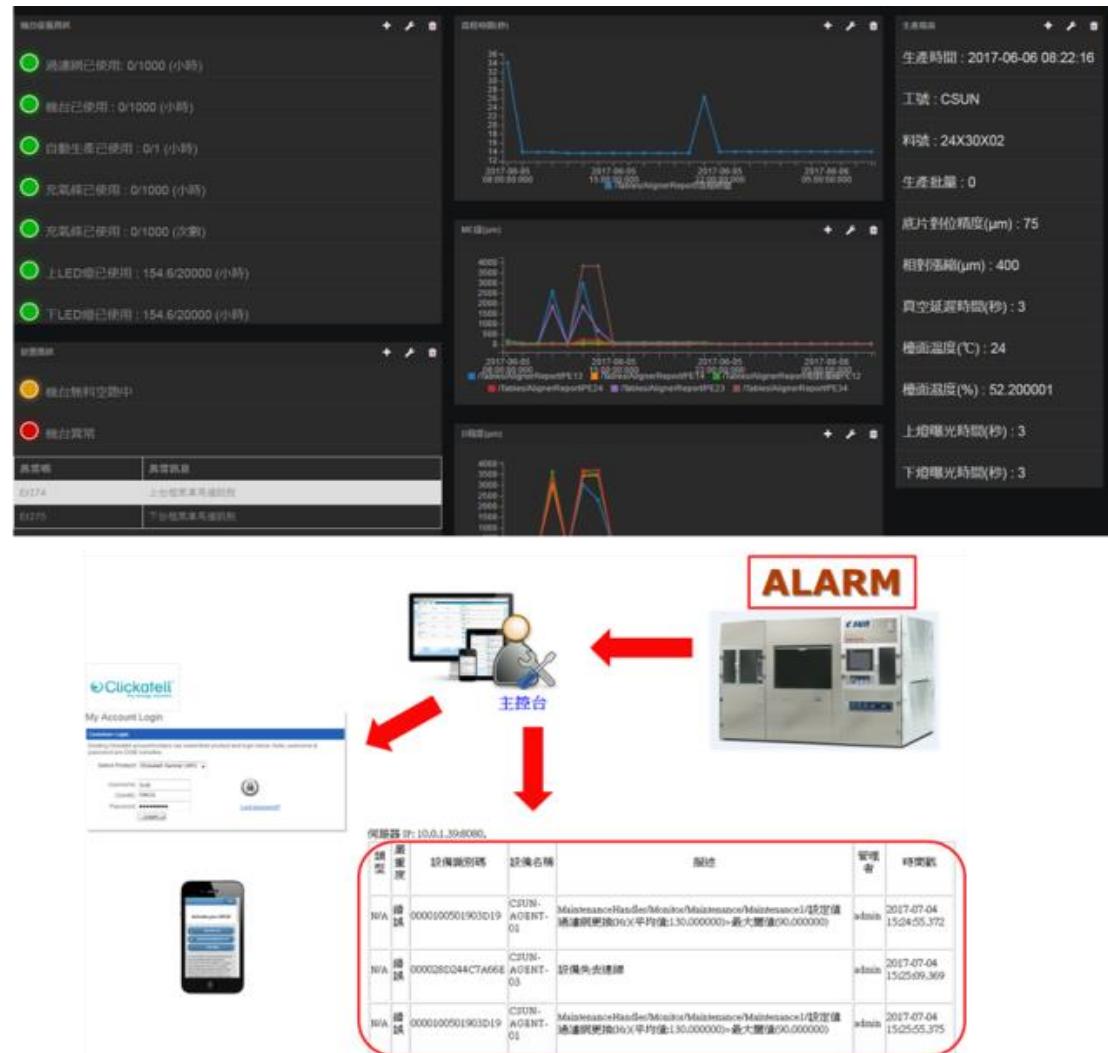


Product Development in Semiconductor Field (Laminator/Bonder/Peeler)



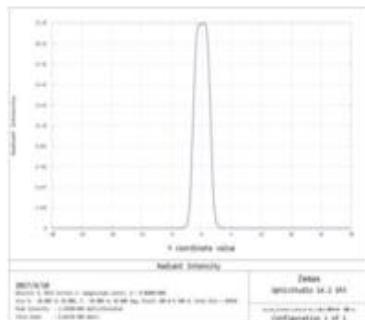
Two Expansion Drivers for the Growth of PCB Industry : Smart Production & ECO.

CSUN智動曝光機
雲端管理平台
設備資訊監控
設備異常通知
設備訊息通知
定期保養功能
耗材更換通知
帳號權限管理
郵件發送功能
數據分析
遠端參數設定
多國語言(繁簡英)



Two Expansion Drivers for the Growth of PCB Industry : Smart Production & ECO.

技術發展狀況 – High-Resolution UV LED exposure system



設計模擬將光線收斂至半角2度以下

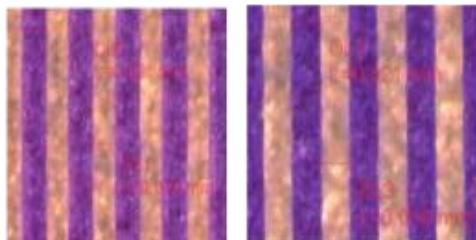


LED Module 設計



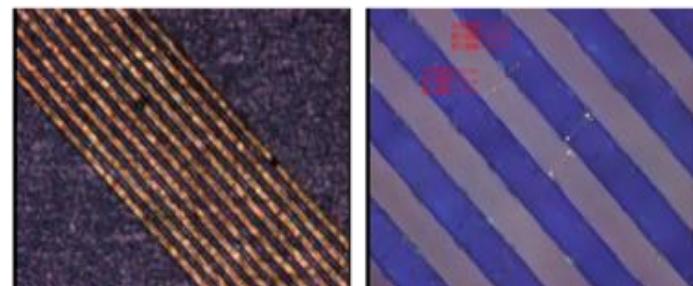
Dry Film : ETERTEC APR410
(thickness: 20um)
Substrate : cooper
Mask : PET Films

Exposure Resolution: 20um
(limited by PET Films)



Dry Film : ETERTEC 6000
(thickness: 20um)
Substrate : cooper
Mask : Glass mask

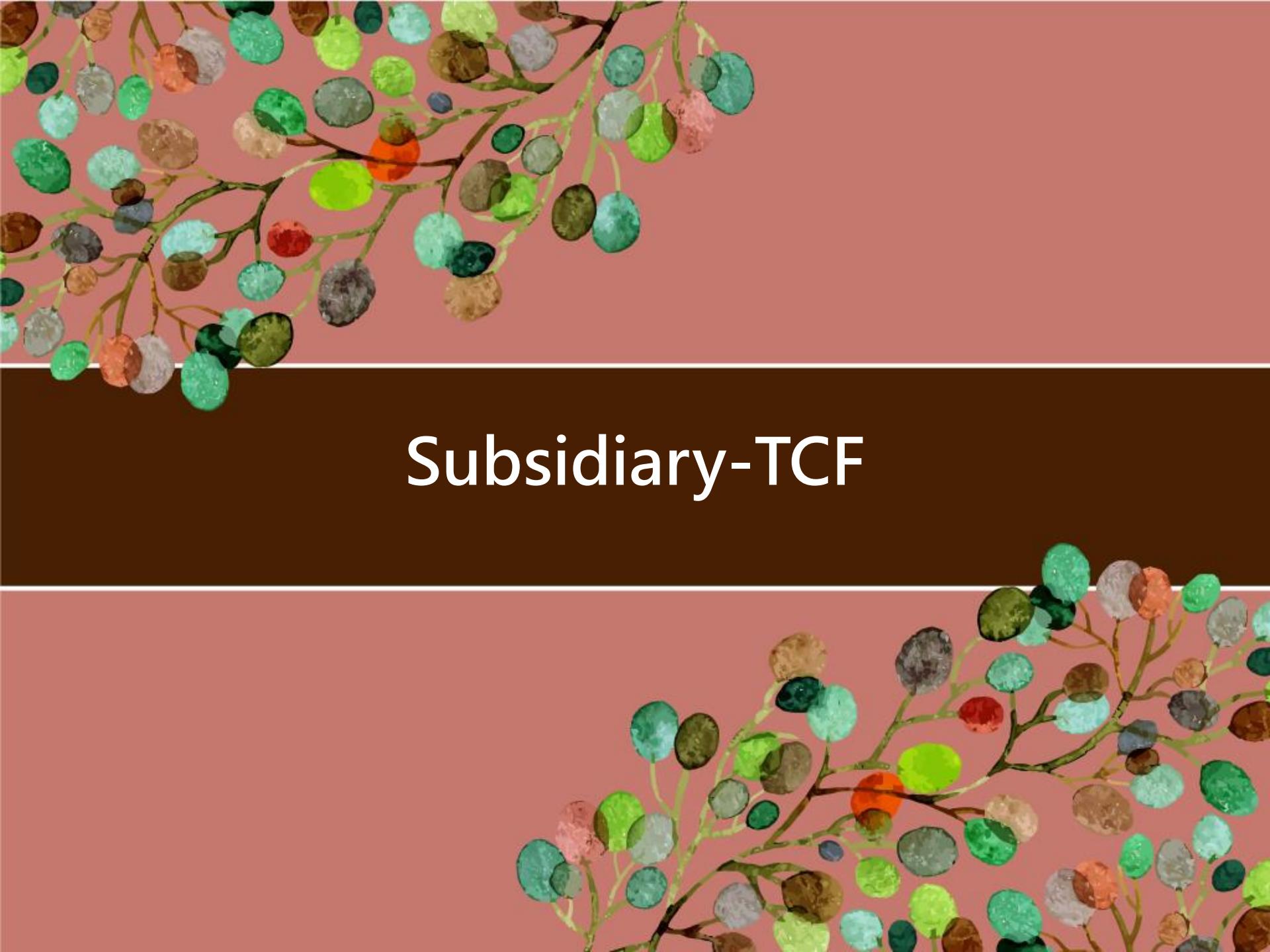
Exposure Resolution: 10um



Trailing the development of semiconductor advanced packaging

- 高階AI先進封裝製程
- 消費性晶片先進封裝製程





Subsidiary-TCF

Growth Momentum

2017營收成長動能

- Desmear PTH取代既有龍門線設備
 - 耗能、耗水、耗藥水
 - 汰舊換” 節能、環保” 設備
- 沿海環保議題→往內陸擴張





Thank You