



**WAH LEE INDUSTRIAL CORP.**

**華立企業股份有限公司**

**Material Pioneer, Technology Navigator**



# **INVESTOR MEETING**

## **法說簡報**

**June 2013**

**2013年6月**

**TSE Ticker : 3010 TT**

**<http://www.wahlee.com>**

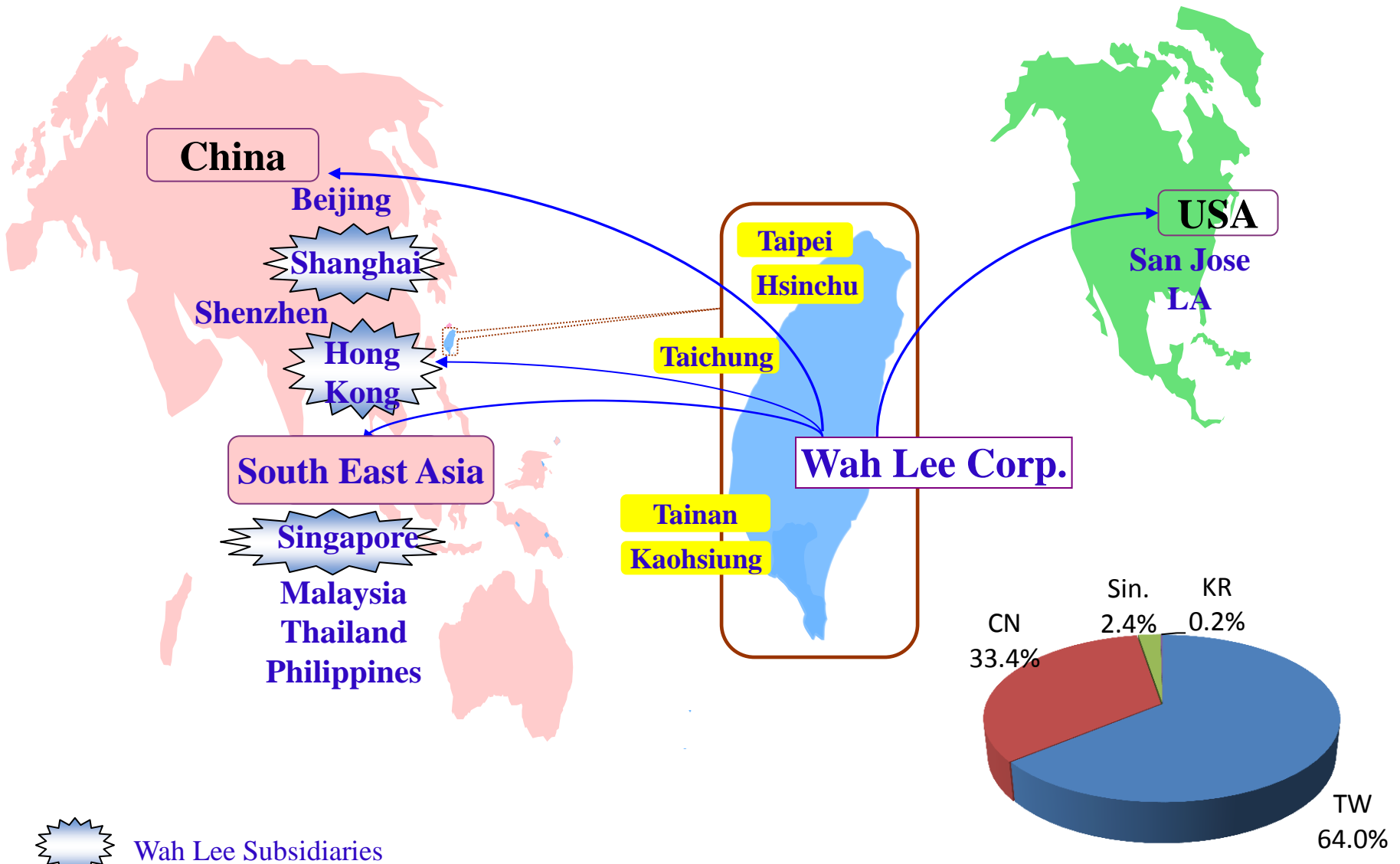
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合併2012年營運報告

# Company Profile 公司簡介

- Inception : 10/1/1968  
成立日期
- Listing: 9/22/2002 on TSE(台灣證券交易所)  
掛牌日期
- Capital: NT\$ 2,313,901,380  
實收資本額
- Market Cap: ~USD\$340 million  
市值
- Core Business: Leading HI-TECH solutions integrator and raw materials provider for :  
主要業務
  - Computer / Communication
  - Semiconductor
  - PCB /Mother Board
  - FPD
  - Green Energy/Optoelectronics

# Sales Offices 國際行銷據點

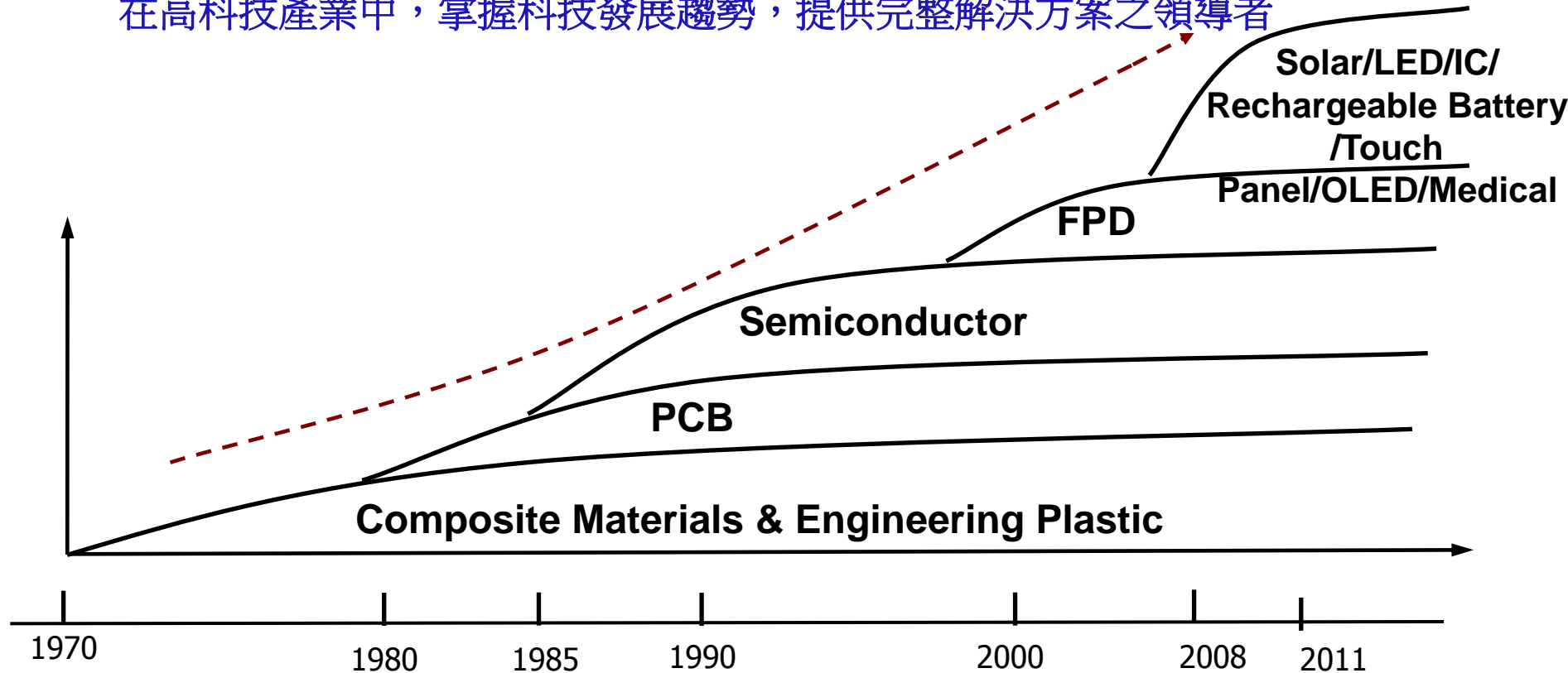


Wah Lee Subsidiaries

# Wah Lee's Core Competence 華立核心競爭力

- I. Leader in foreseeing technology developments and solutions provider of upstream raw materials & equipment in high-tech industries

在高科技產業中，掌握科技發展趨勢，提供完整解決方案之領導者



- II. Developing Next Generation Technologies:

投資開發下一代明星產業，如先進顯示技術，固態照明，太陽能發電，電動車等

- **Advanced displays (3D, flexible, transparent...)**
- **Solid state lighting, advanced solar, electrical vehicle related systems...**

# Wah Lee's Value Proposition 華立附加價值

## Customers Buying Direct 客戶與供應商直接交易

Suppliers  
供應商



Customers  
客戶



## Customers Buying through Wah Lee 華立在供應鏈中提供關鍵附加價值：一次購足

Suppliers 供應商



FAE engineers 工程師



Warehouse

倉儲系統



Customs Handling 進口報關服務



Logistics 全方位物流



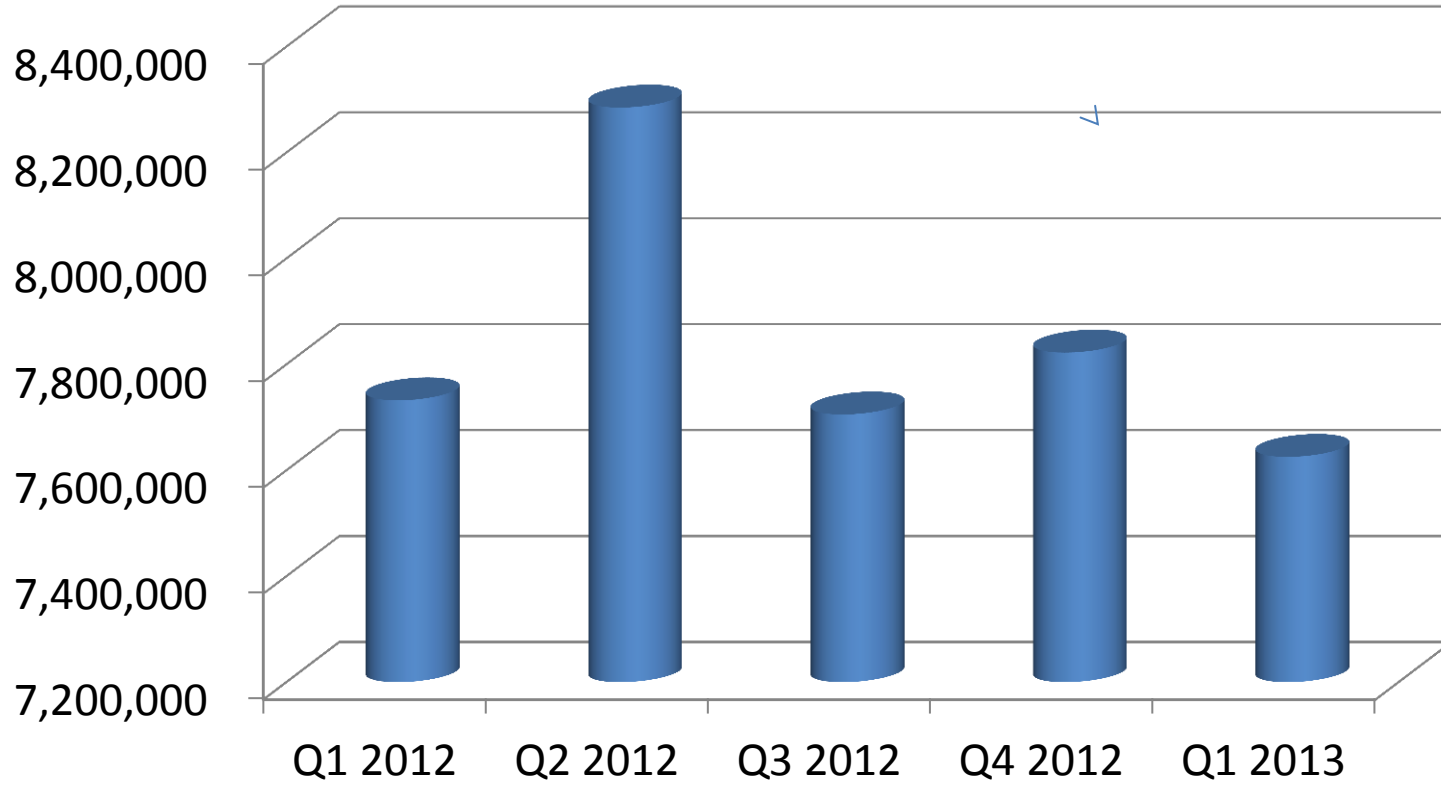
Customers 客戶



# 每季合并营收

## Quarterly Consolidated Sales Breakdown

千元  
In thousands

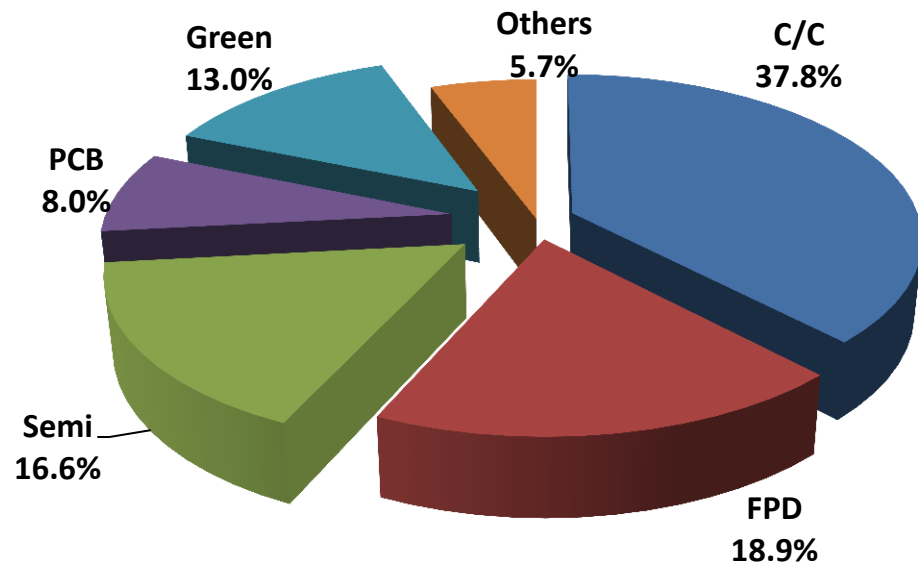


2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
7,732,183	8,285,087	7,705,533	7,822,470	7,625,467

# Industry Sales Breakdown 營收產業別資訊

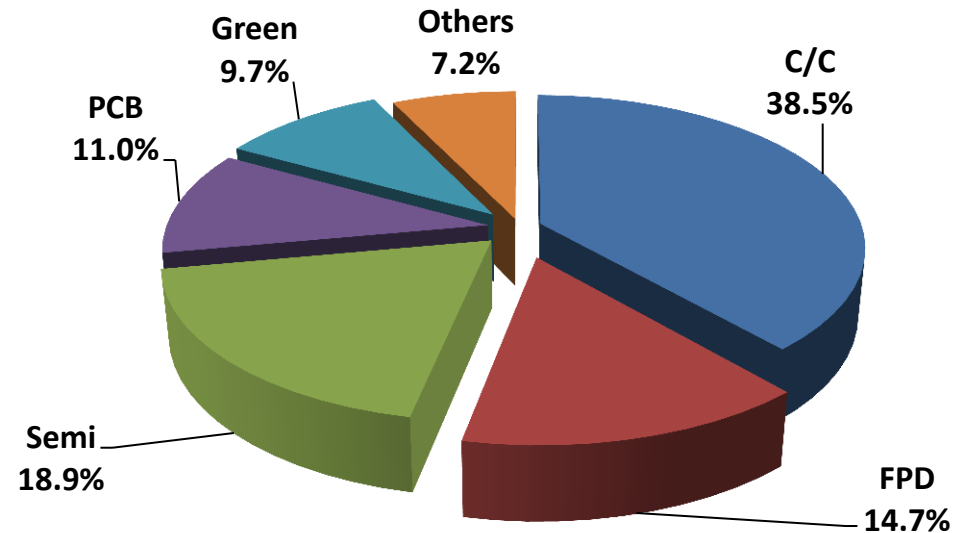
2012/ 01-12

Sales NT\$31.5 Billion



2011/ 01-12

Sales NT\$31.2 Billion



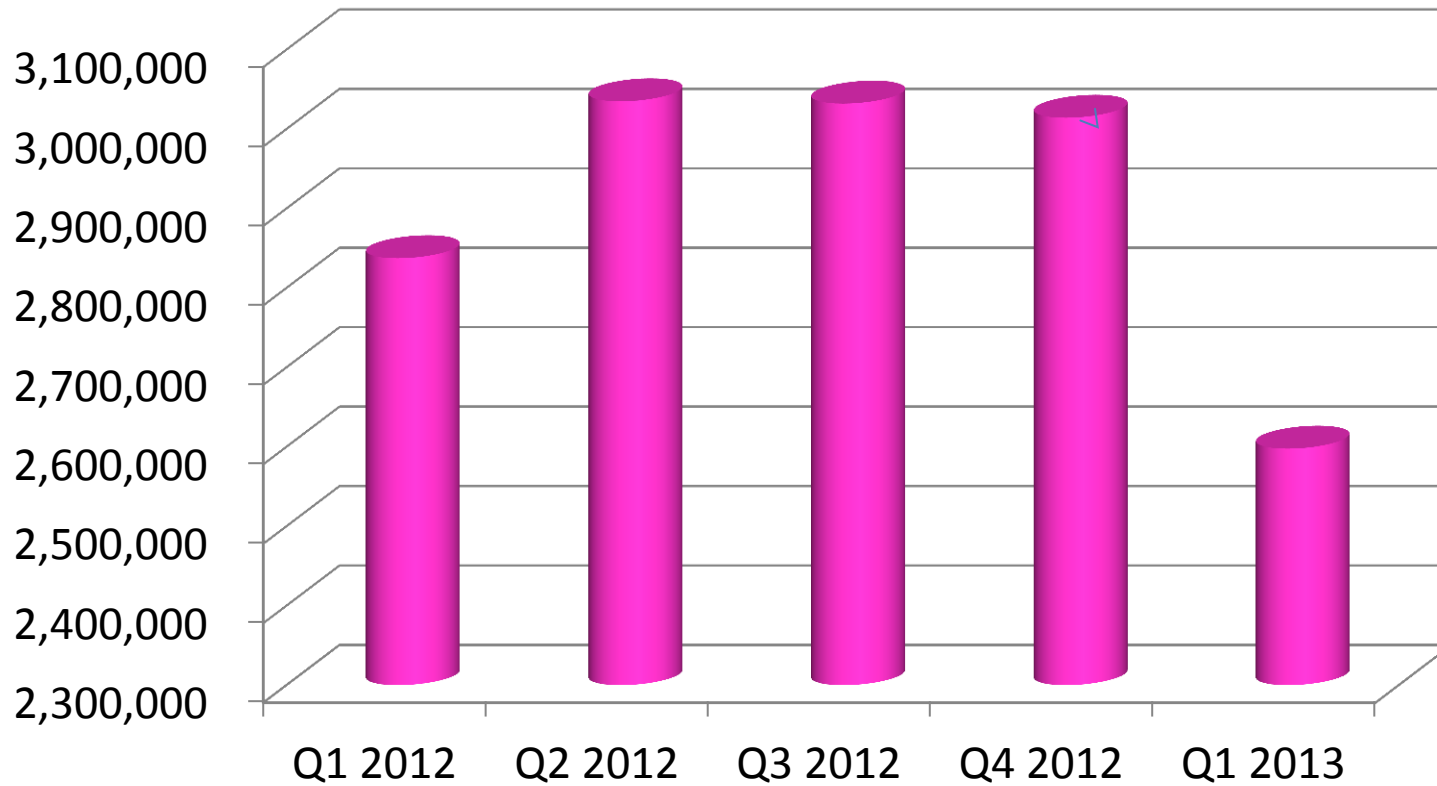


# 資通訊用高機能塑膠

千元

In thousands

## Computer Communication Engineering Plastic

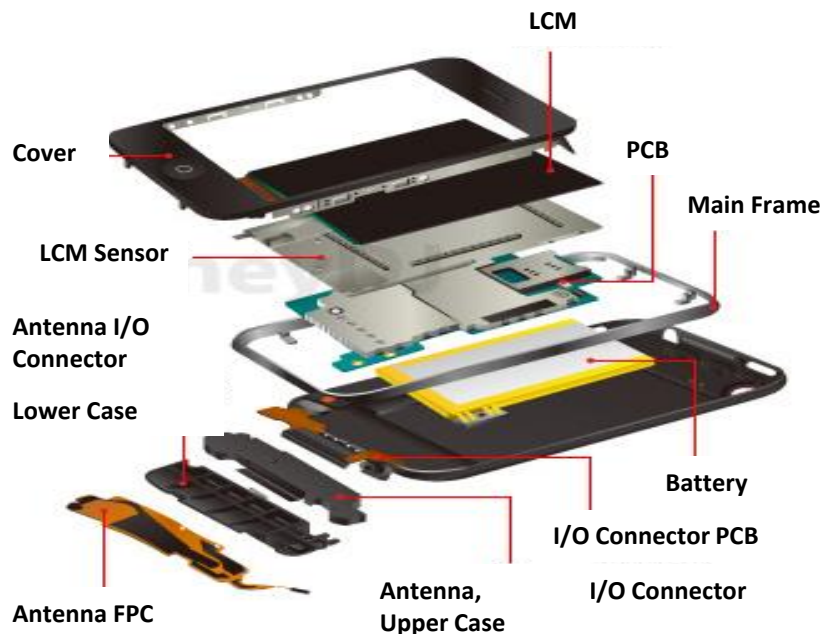


2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
2,837,549	3,055,019	3,032,201	3,014,343	2,597,776

# Products in C/C 資訊通訊產品

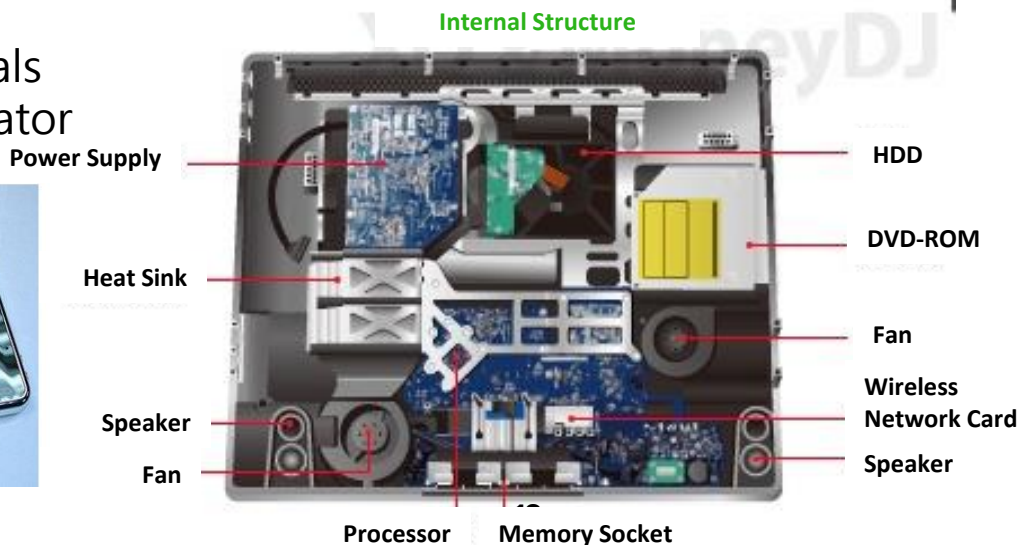
## I. High Performance Engineering Plastics

1. Case : Carbon Fiber 、 TORAY CFRP 、 PA
2. Lens : OKP4 、 ARTON 、 HARD COATED SHEET
3. Insulating Strip 、 Battery Label :  
PET FILM 、 PC FILM 、 PBT FILM
4. Speaker : PET FILM
5. Charge Station : Phenolic Moulding Compound
6. Connector : LCP 、 PA9T
7. Reflector : PA9T
8. Transformer /PFC: Phenolic Moulding Compound
9. Inverter Bobbin : LCP



## II. Others

1. Hik@xy Thermal Interface Materials
2. Camera Module Auto-focus Actuator



# 高機能工程塑膠近期開發應用領域-電腦機殼

## Recent developments in Engineering Plastic- Computer Casing

### 電腦機殼



# 高機能工程塑膠近期開發應用領域-家電，醫療 Recent Developments in Engineering Plastics Consumer Electrics, Medical Industry



Coffee machine parts



Slow Juicer parts

醫療 : Glasses frame





# 高機能工程塑膠近期開發應用領域-食品包裝材

## Recent Development in Engineering Plastic - Food Packaging

### 食品包裝材

#### 多層瓶



#### 藥品包裝



#### 杯類/盤類



#### 軟性包裝



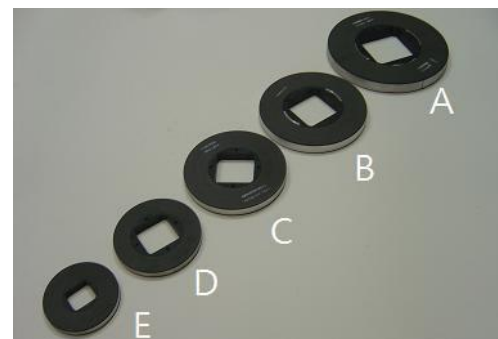
#### 軟管



#### 複合膜

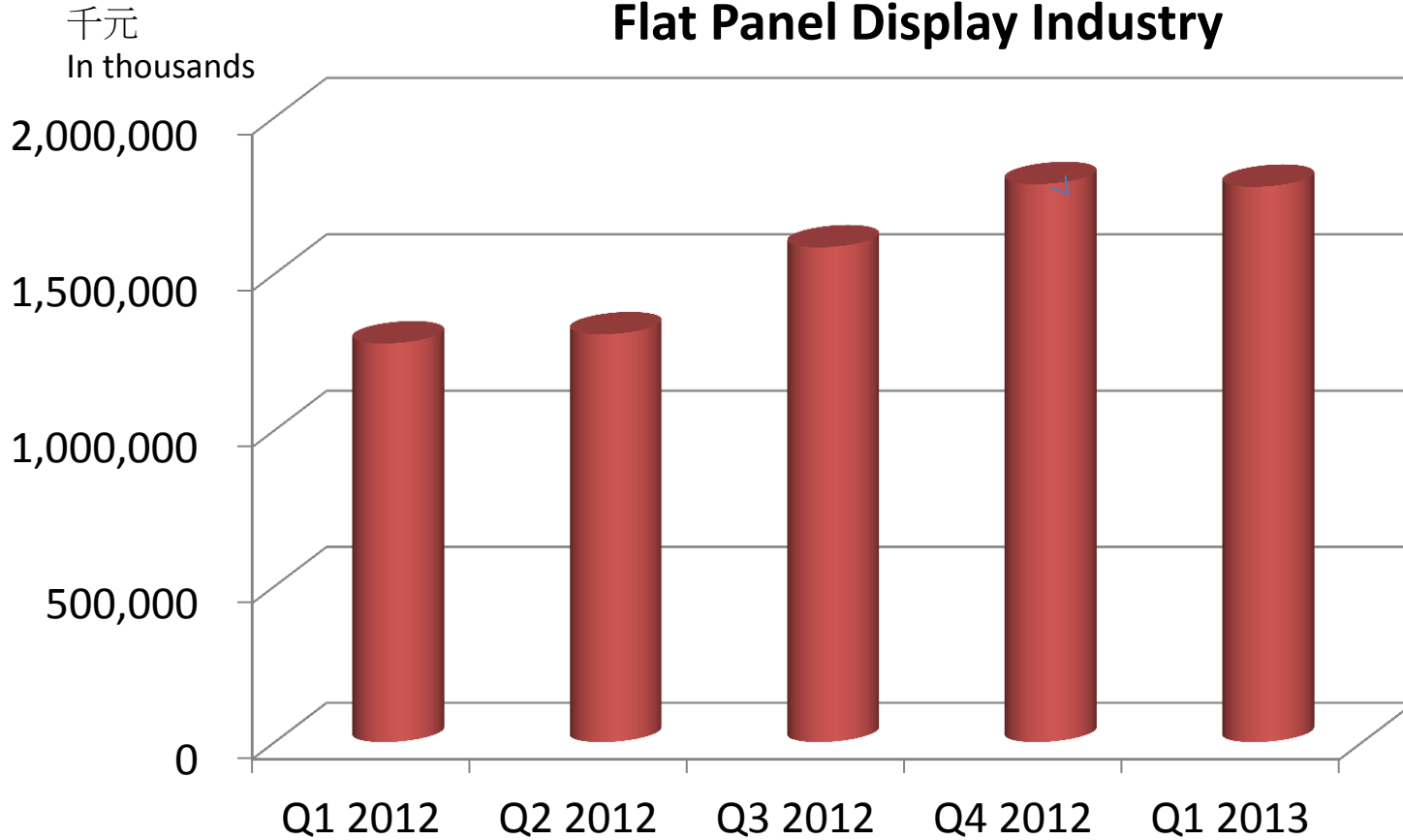


### 汽車：PULLEY/WATER PUMP/PISTION/GASKET



# 平面顯示器產業

## Flat Panel Display Industry



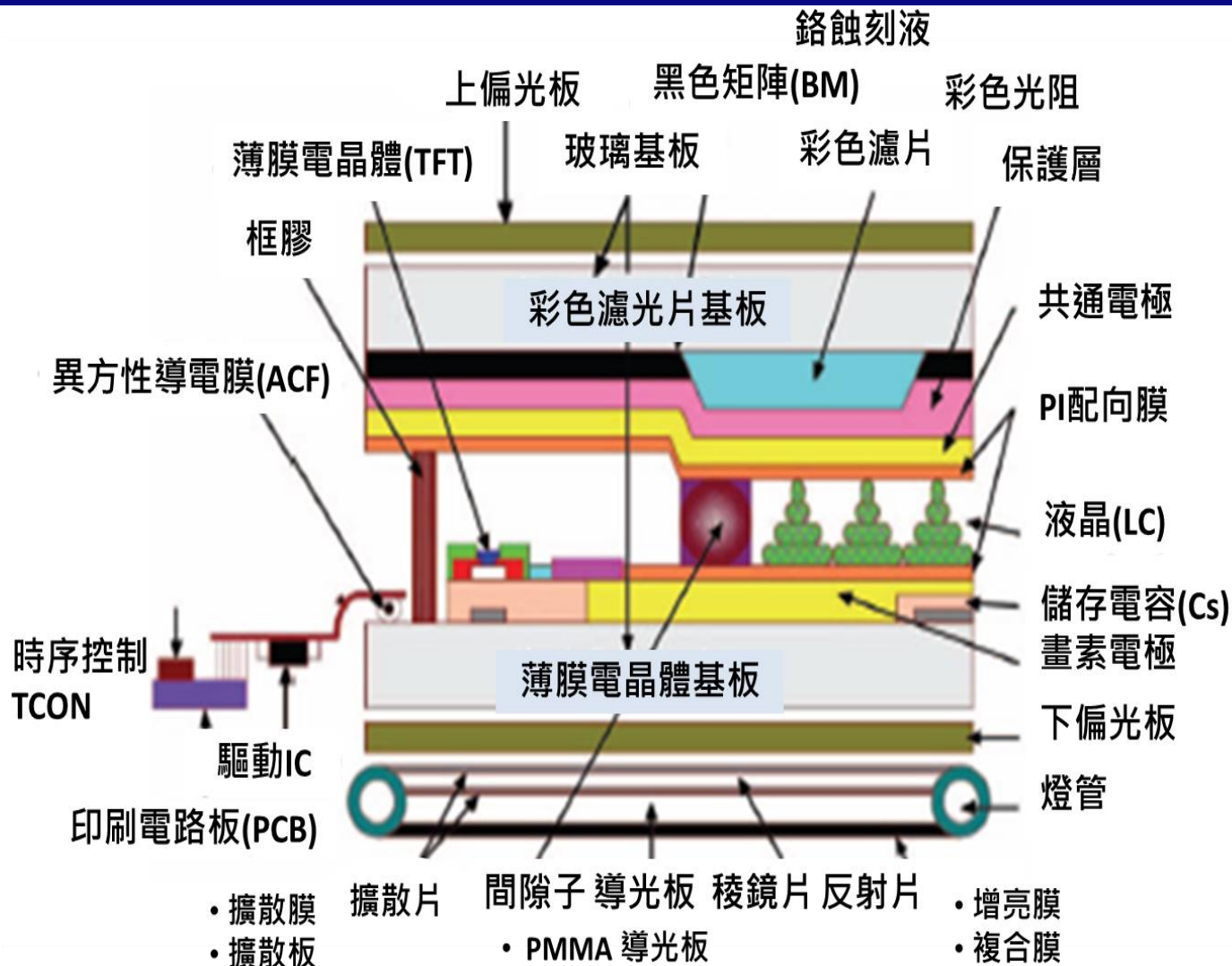
2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
1,277,309	1,306,531	1,584,445	1,786,398	1,777,895



# 在LCD TV應用中，華立供應超過九成材料 Wah Lee Provides over 90% of Material used in LCD TV

製程設備與耗材  
其它製程用化學材  
及氣體

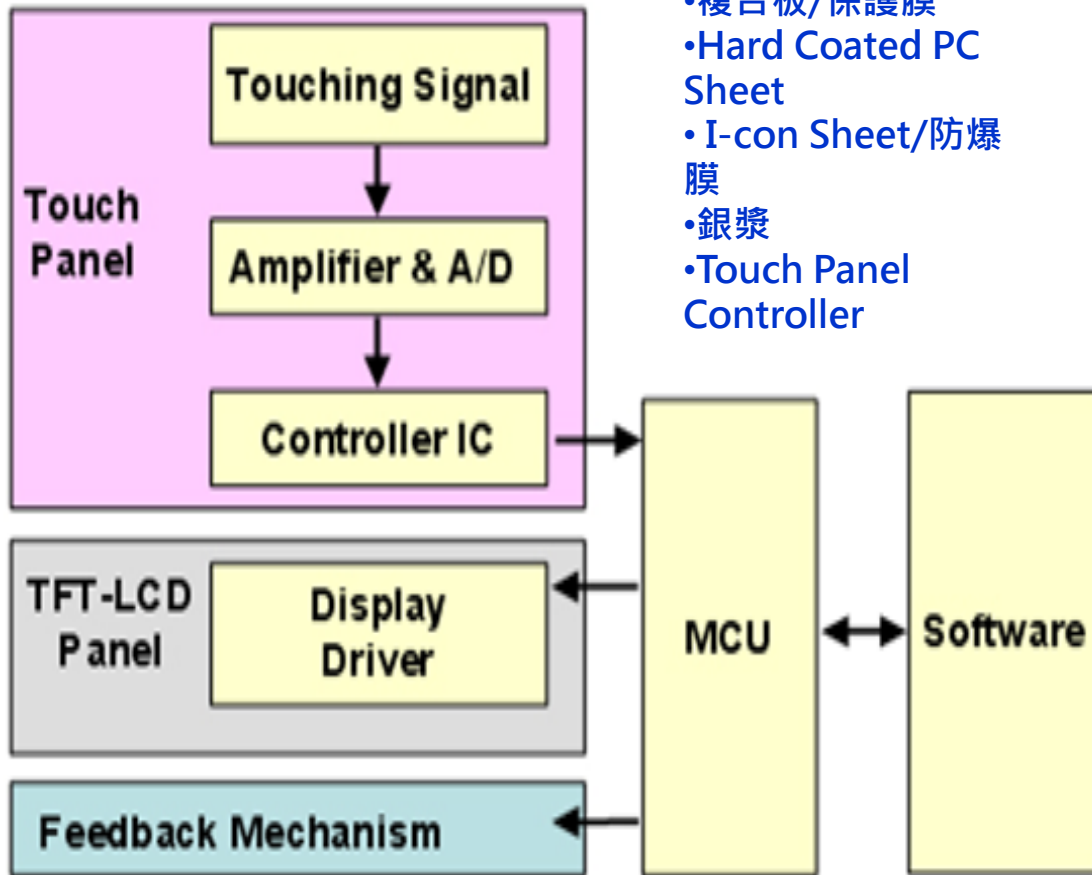
- Edge Beam Cleaning : PGME、PGMEA
- Chamber Cleaning : NF3
- 形成 Si 薄膜 : SiH4



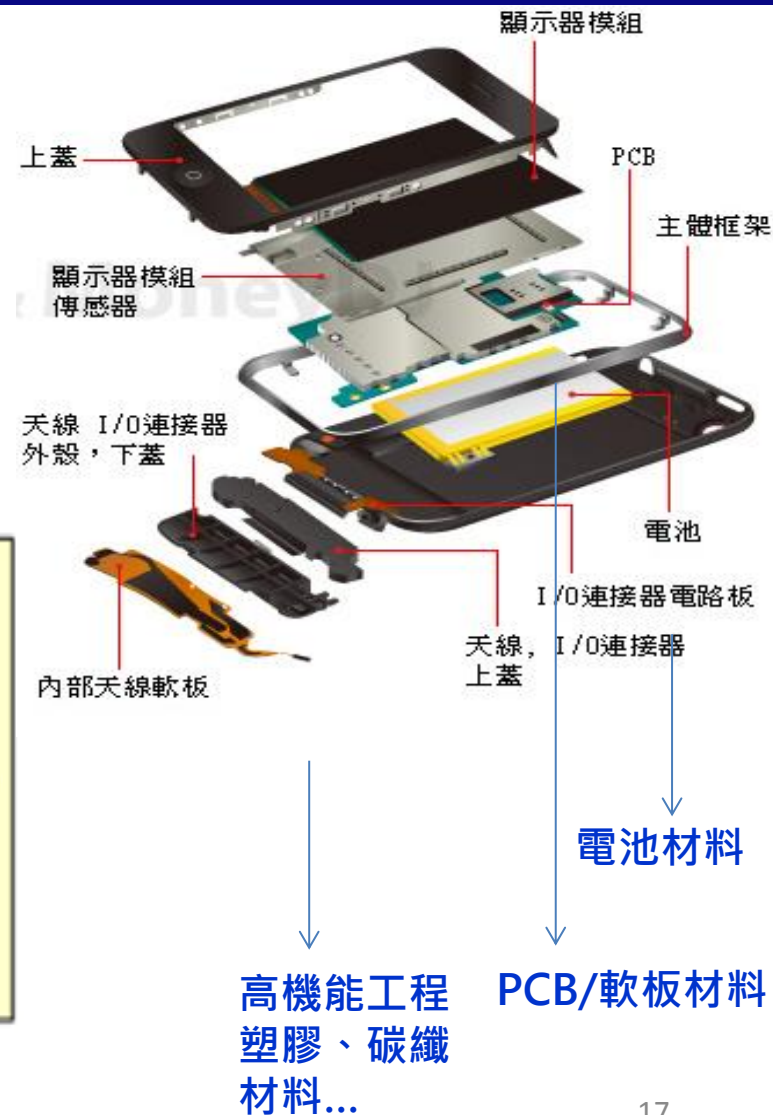


# 在平板與手機應用中，華立提供超過七成材料

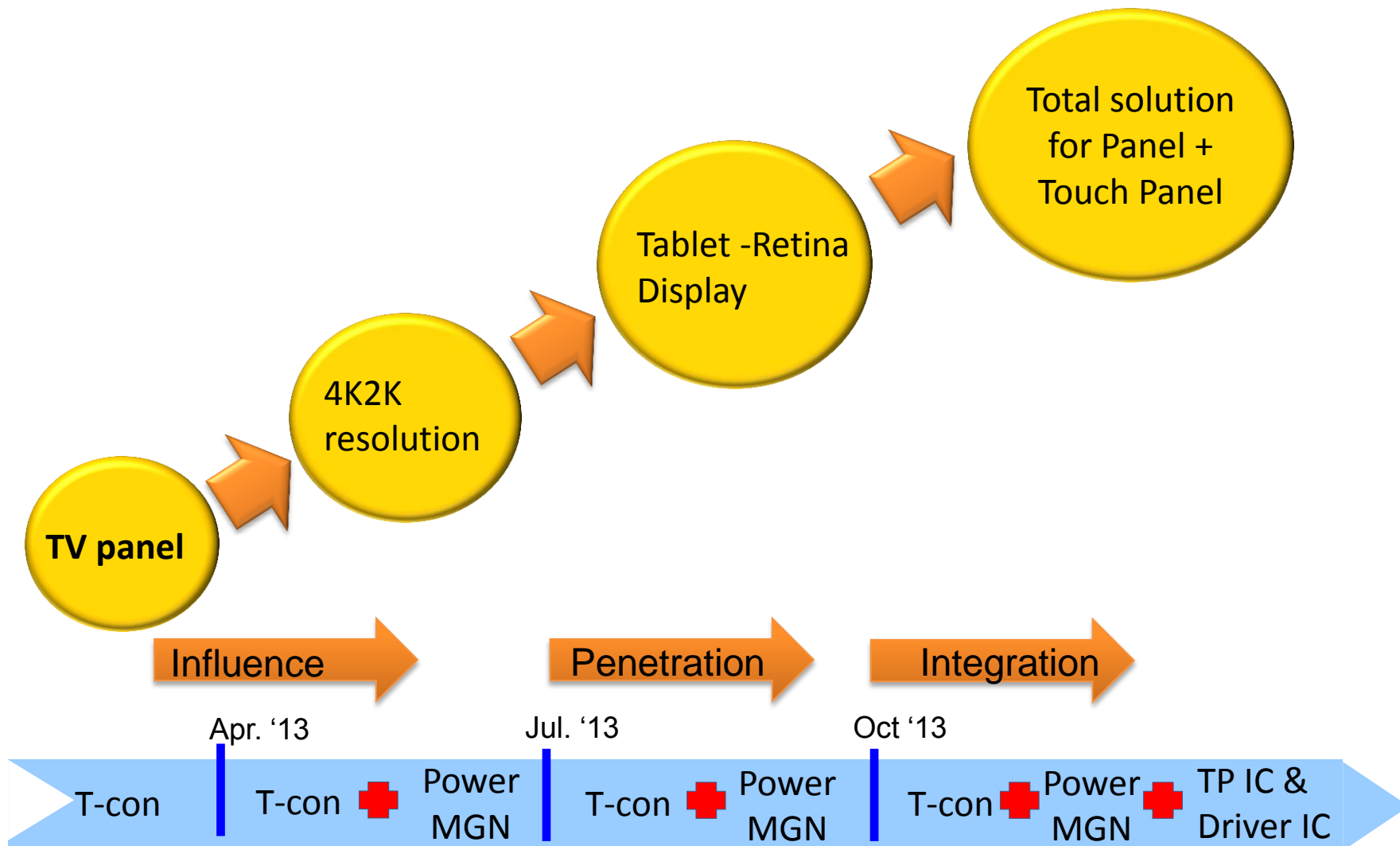
## Wah Lee Provides over 70% of material used in FPD and Cell Phone



- 複合板/保護膜
- Hard Coated PC Sheet
- I-con Sheet/防爆膜
- 銀漿
- Touch Panel Controller

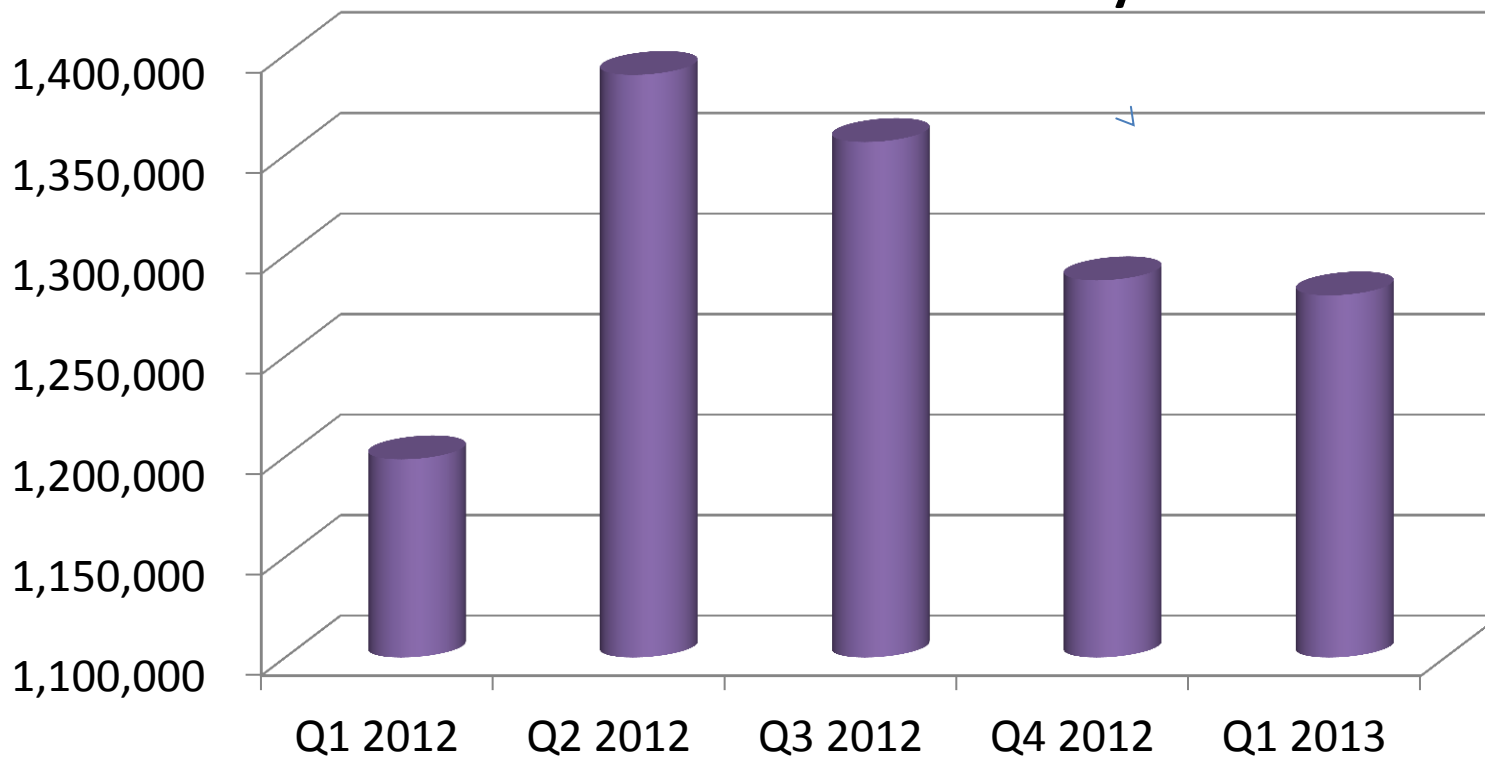


# Wah Lee FPD Turnkey Solution 華立FPD成長策略



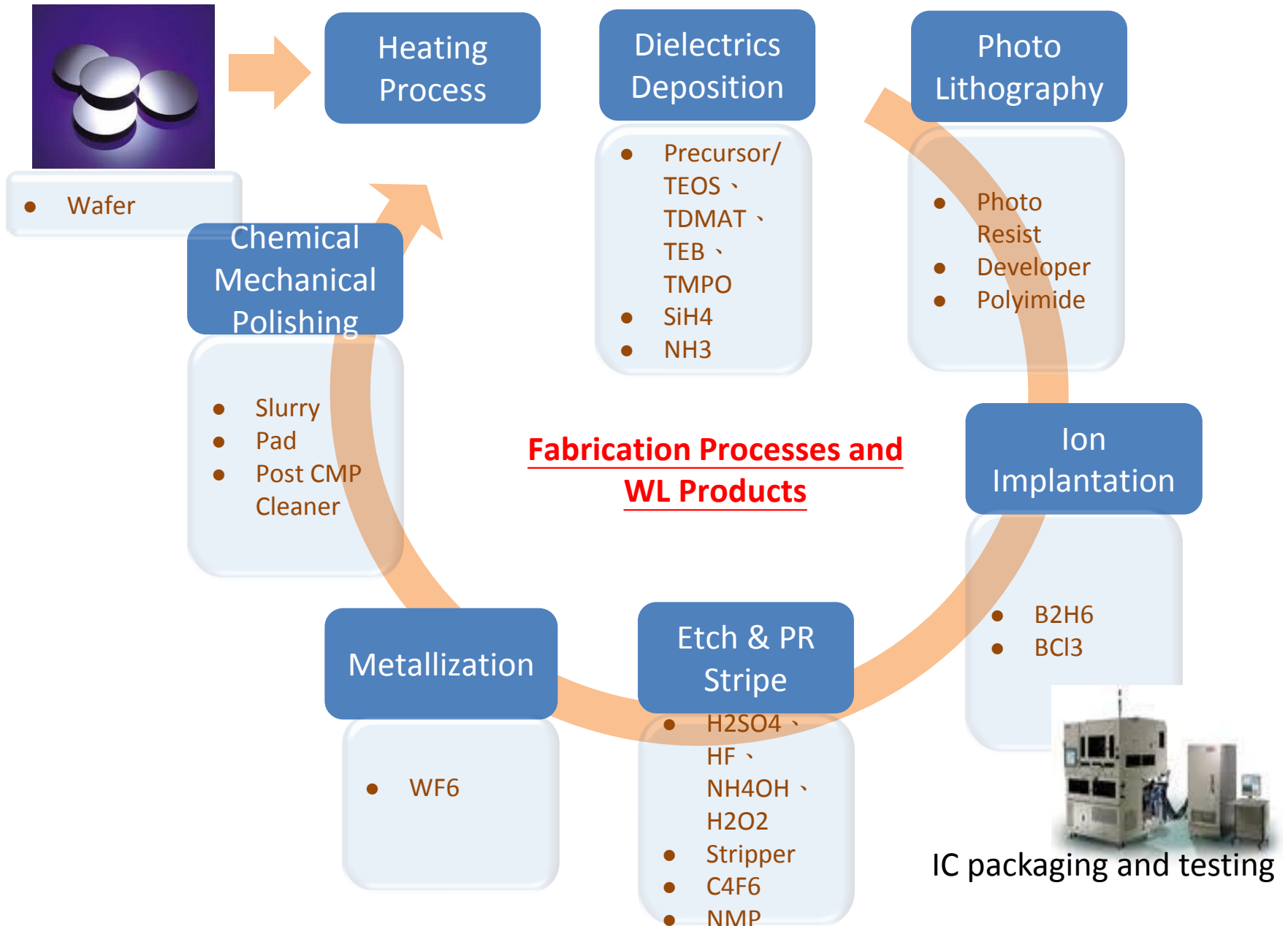
千元  
In thousands

## 半導體產業 Semiconductor Industry



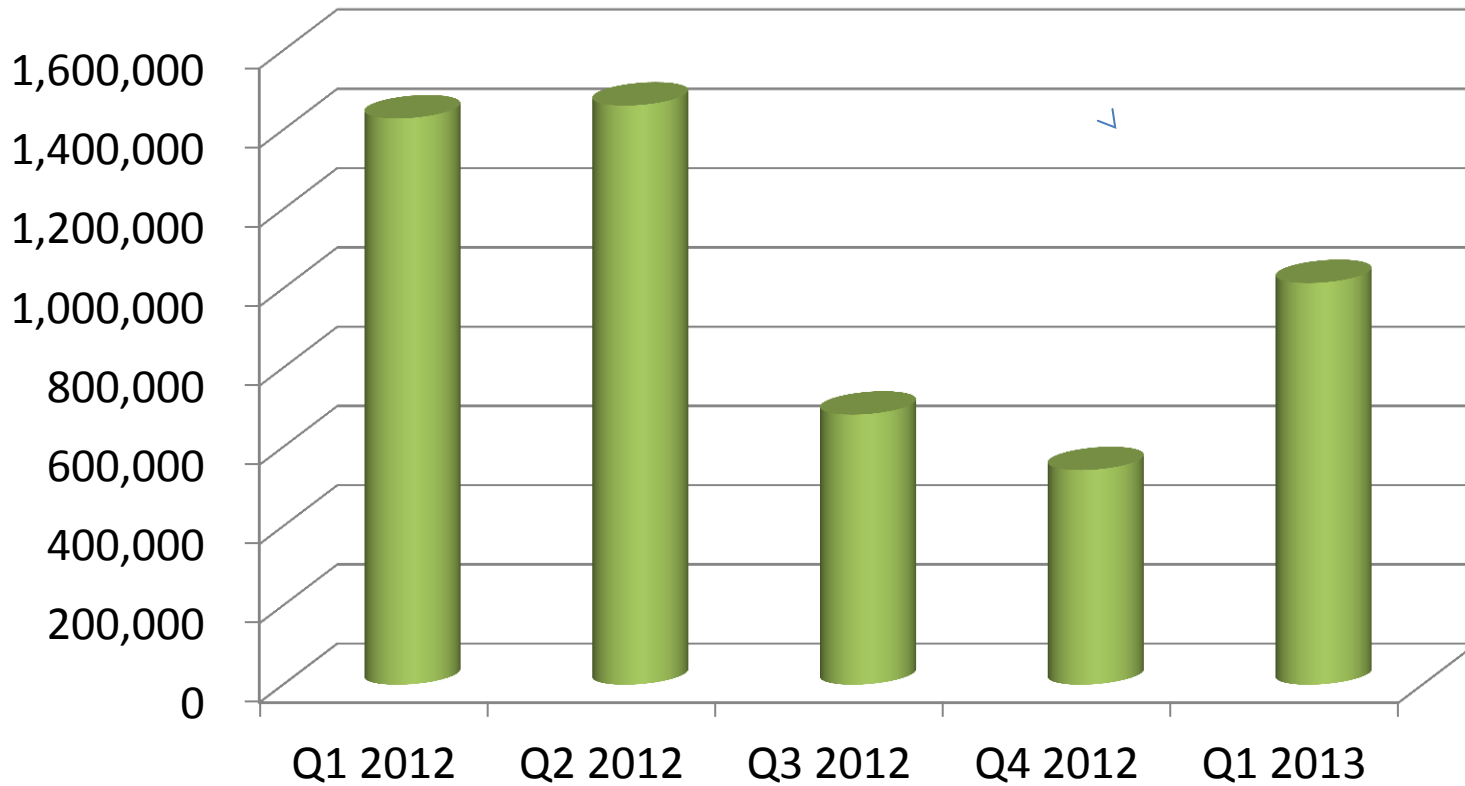
2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
1,198,674	1,389,833	1,356,480	1,287,735	1,280,269

# Products in Semiconductor Industry 半導體產品



# 綠能光電產業 Green Energy Industry

千元  
In thousands

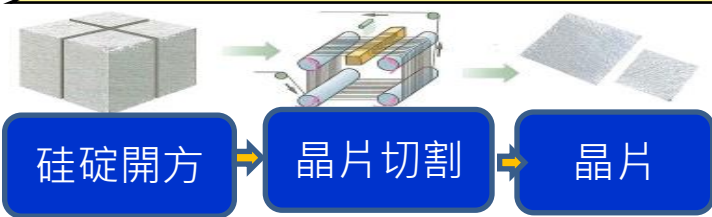


2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
1,429,243	1,461,628	682,358	542,194	1,014,297

# Solar Supply Chain

# 太陽能產業鏈

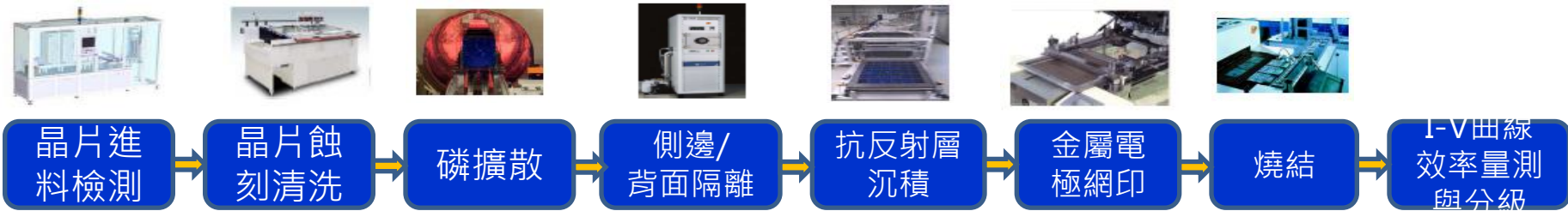
## Solar Wafer



• 切割鋼線

- 多晶矽晶片
- 單晶矽晶片

## Solar Cell

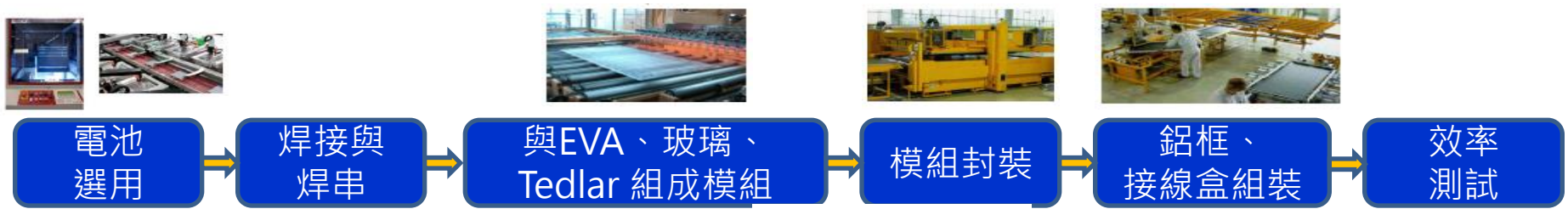


- NF3
- IC Chemical
- Texture etchant
- POCL3

- NH3
- SiH4

- 銀漿、鋁漿
- 銀/鋁漿

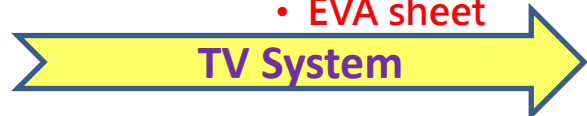
## PV Module



- Solar Cell

- Solar Glass
- Backsheet
- EVA sheet

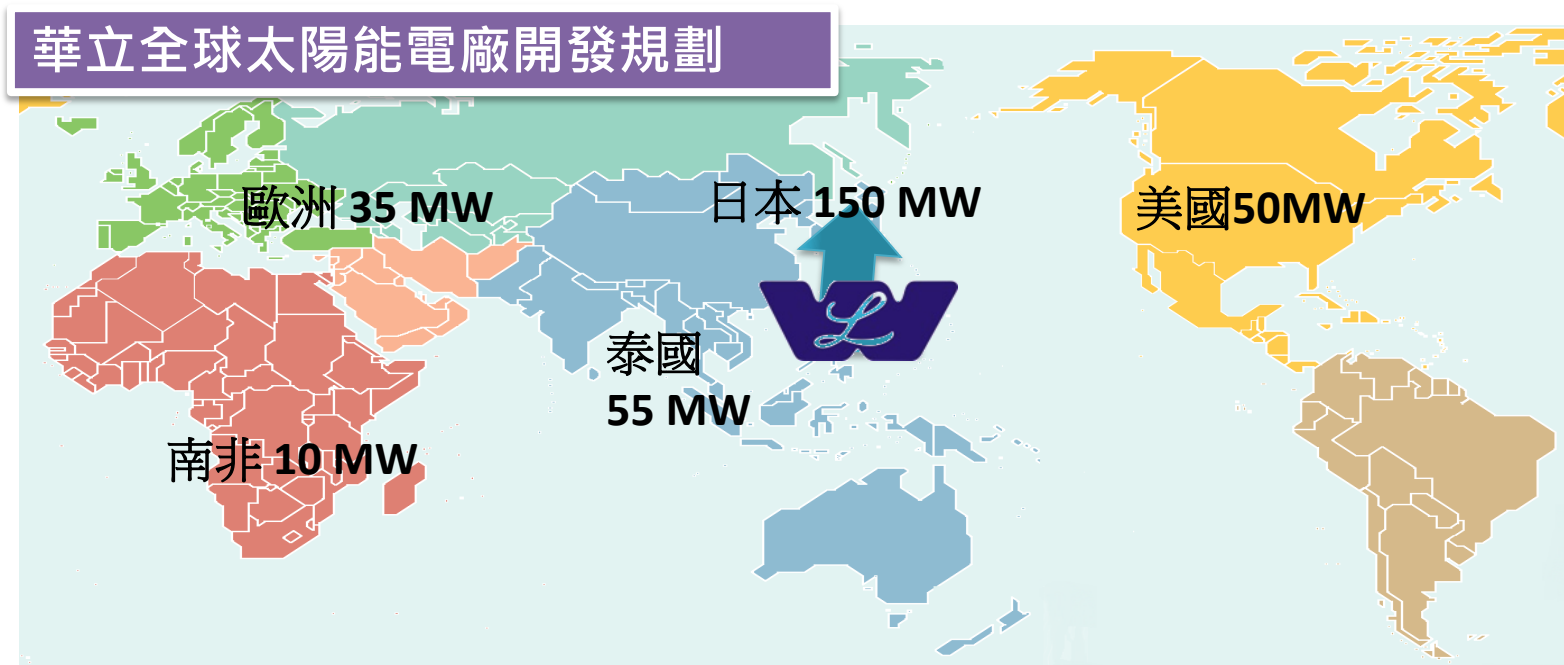
- Junction Box 用PPE



- 小型太陽能系統
- 電廠

# WL's Growth Driver in Solar WL太陽能的成長動能

- 更具彈性的服務模式
  - 除單晶、多晶、銀鋁漿、背板等材料銷售外，進行代工等服務與出海口機會，具備全面產業鏈供應能力
- 海外太陽能電廠營運與開發
  - 具備當地市場開發與建置能力
  - 與金融集團合作取得資金槓桿



# LED Supply Chain

# LED產業鏈

1. 原始材料合成
2. 蒸餾還原形成多晶
3. 單晶成長單晶棒

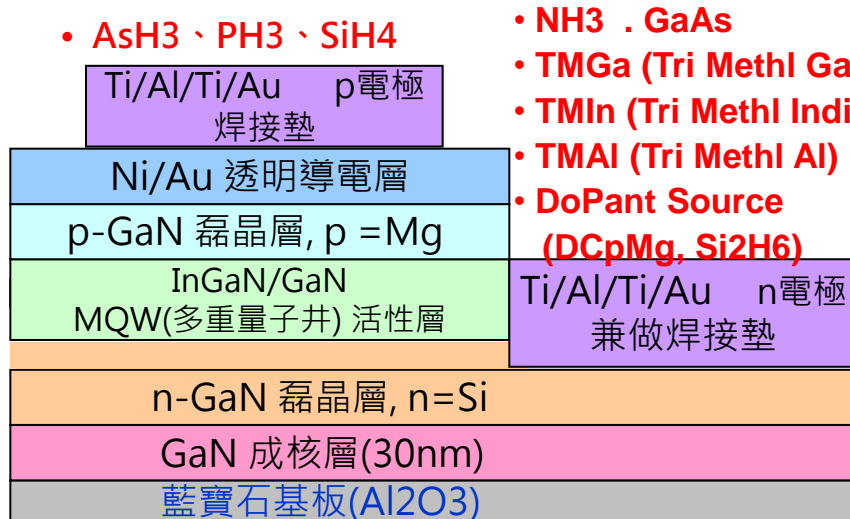


將單晶棒鋸切成片狀晶圓，並加以拋光處理。

- 鑽石切割線、PSS

4. 晶圓/基板

N電極形成區



- AsH<sub>3</sub>、PH<sub>3</sub>、SiH<sub>4</sub>

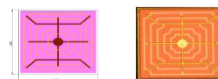
- NH<sub>3</sub>、GaAs
- TMGa (Tri Methl Ga)
- TMIIn (Tri Methl Indium)
- TMAI (Tri Methl Al)
- DoPant Source (DCpMg, Si<sub>2</sub>H<sub>6</sub>)

5. 磊晶成長

6. 晶片製程  
(製作電極圖案)

- Du Pont EKC Remover

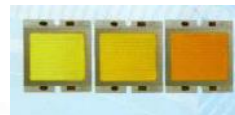
7. 磊晶晶圓減薄  
並切割成晶粒



- EMITTER

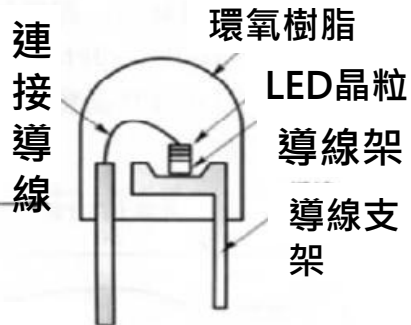
9. 元件/模組

8. 封裝

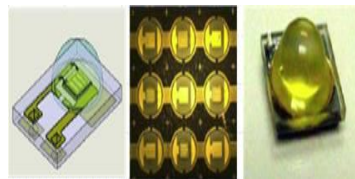


10. 半成品/成品

- 構構件
- 燈源/燈具



- PA9T、LCP
- 螢光粉
- 封裝材(矽膠、Hybrid、Epoxy)
- JSR LED Material

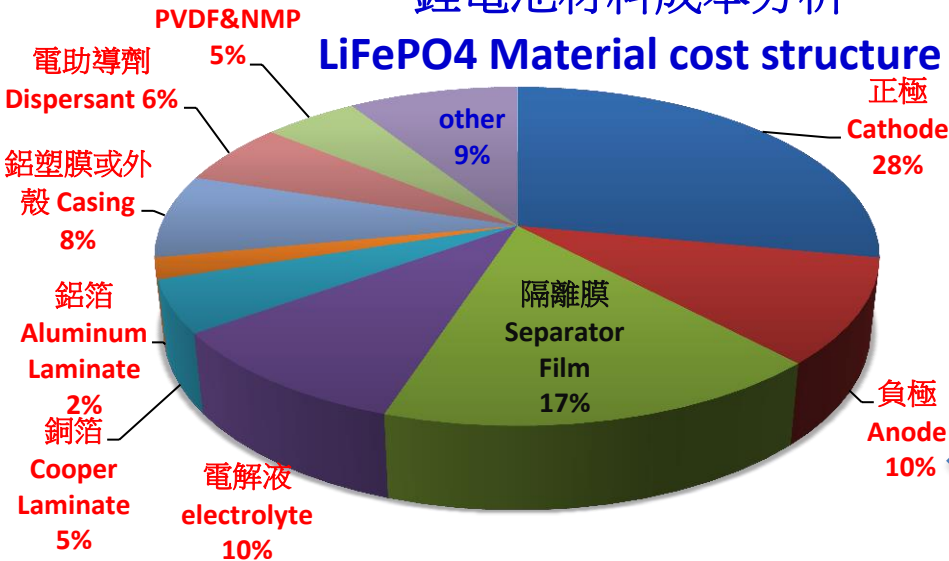




# Products in Rechargeable Battery 二次電池產品

## 鋰電池材料成本分析

### LiFePO4 Material cost structure



## 動力電池應用



電動車



電動機車



充電站

## 3C電池應用



平板



智慧型手機



無限充電電池系統



平板電腦

## 電池模組



3C電池芯



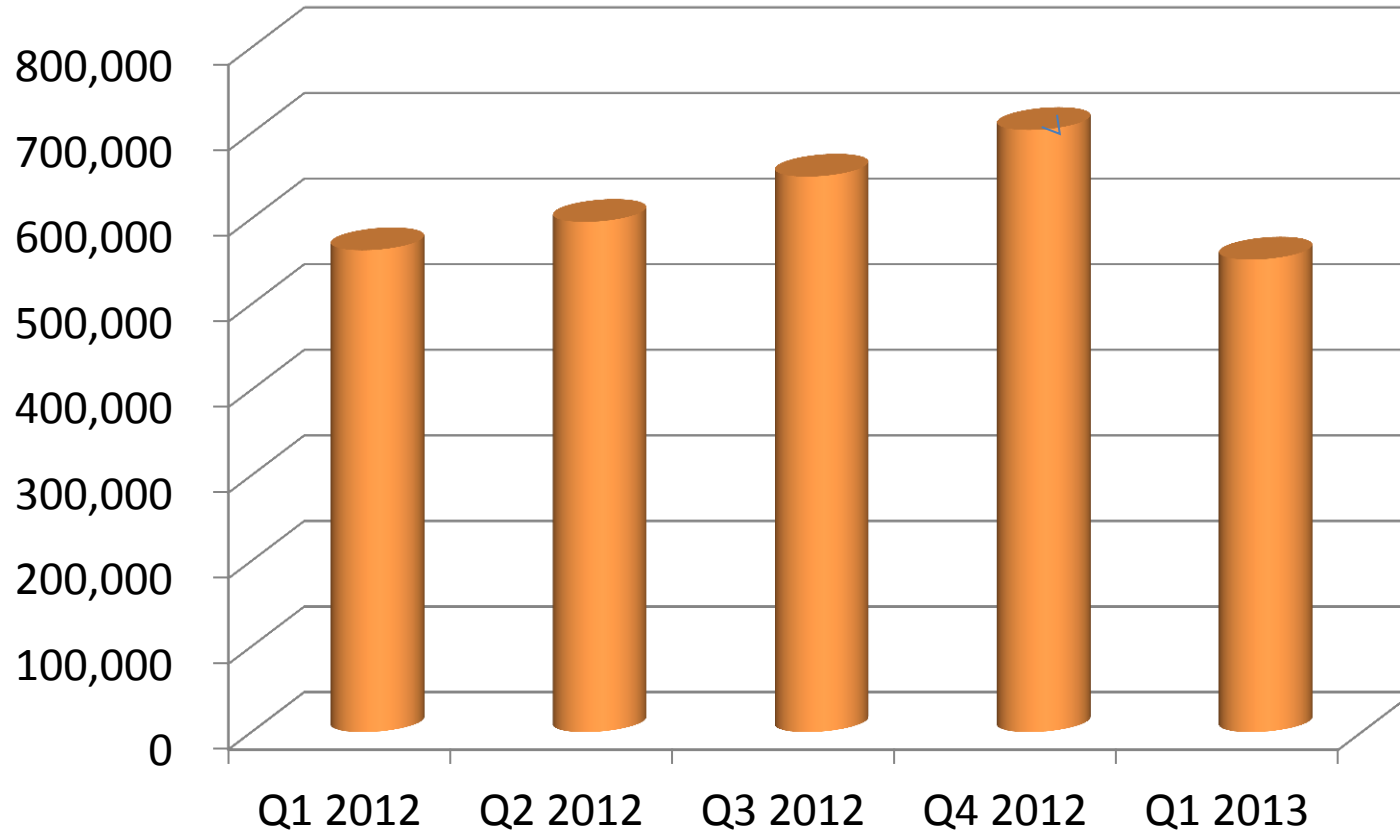
電動車電池模組



平板電池模組

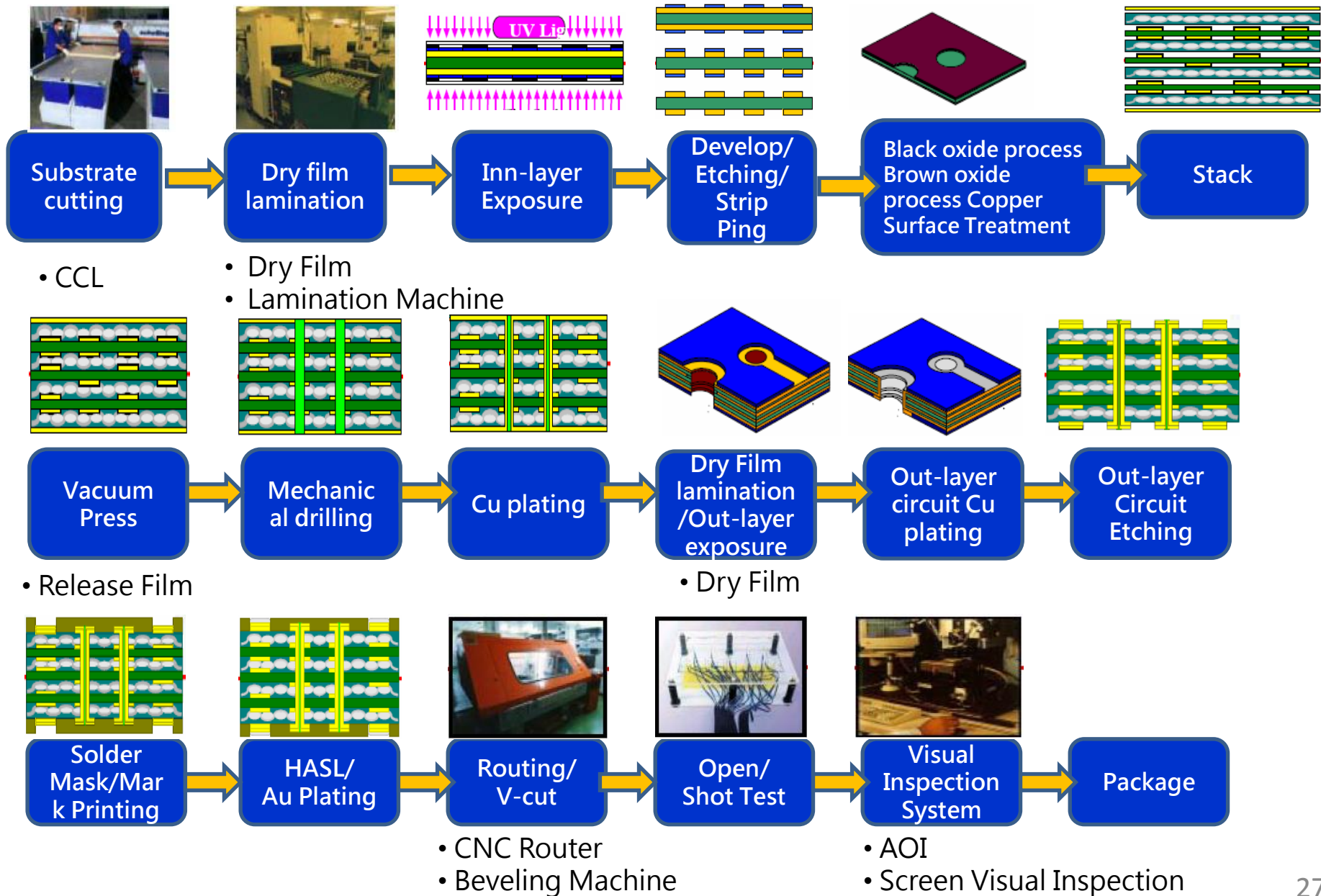
# PCB產業 PCB Industry

千元  
In thousands

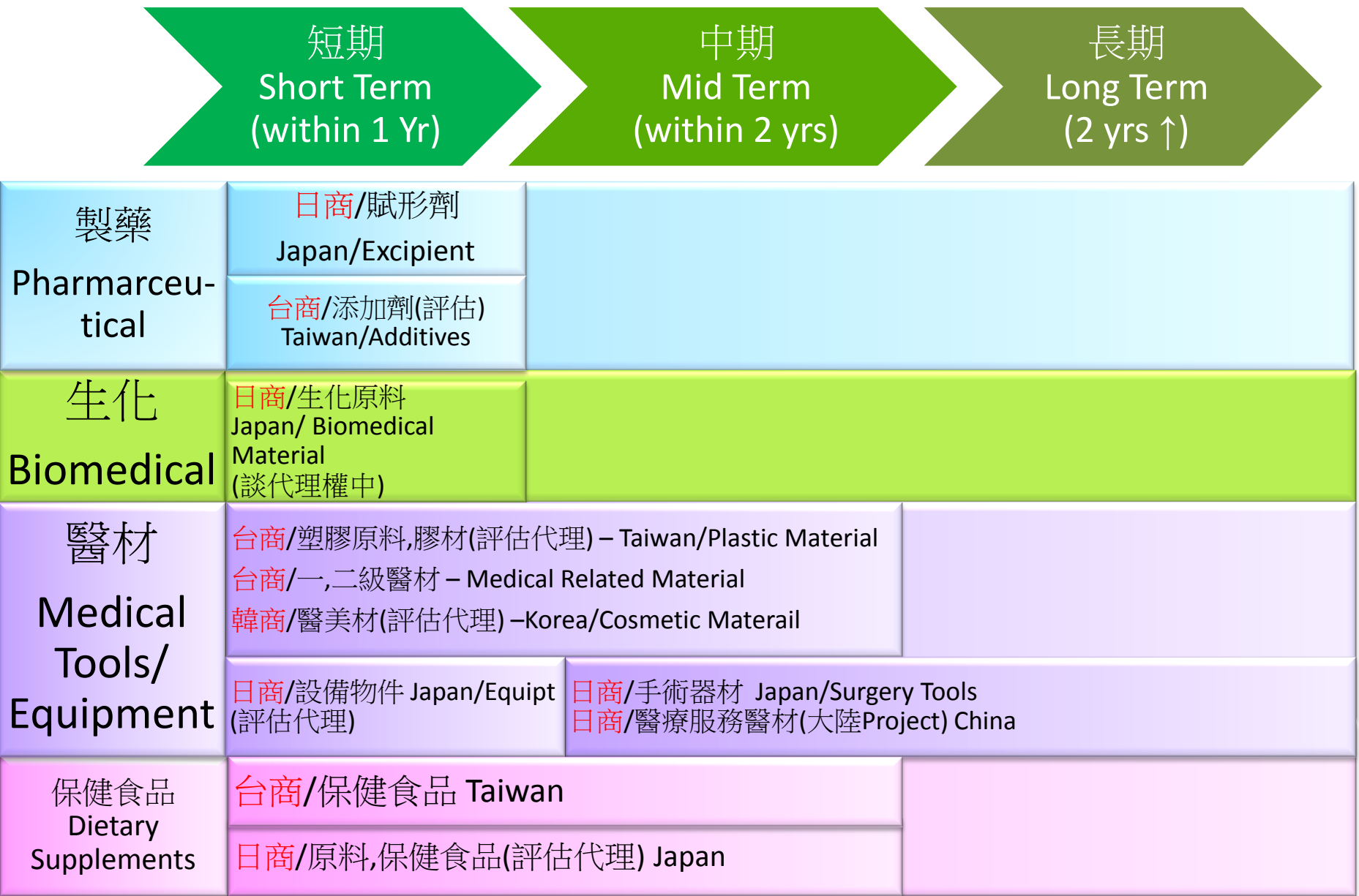


2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1
563,180	596,325	649,224	703,729	552,281

# Products in PCB Industry PCB產業產品



# Biotech Roadmap 生化產業發展規劃



# 2013Q1 Consolidated Income Statement 合併損益表

Unit: NT\$ million	2013Q1 (CPA)	2012Q1 (CPA)	YoY	2013Q1 as % of Full 2012
Net Sales 營收淨額	7,625.5	7,734.1	-1%	24.2%
Gross Profit 銷貨毛利	671.4	684.2	-2%	23.5%
Gross Margin 毛利率	8.8%	8.8%	0.0%	
Op. Expense 營業費用	465.6	442.3	5%	23.0%
Op. Profit 營業利益	205.8	242.0	-15%	24.7%
Non-op. Profit 業外收支	156.4	74.6	110%	32.5%
L-T investment income 長投收益	87.0	80.9	8%	20.8%
Disposal gain 處分利益	15.3	4.0	282%	587.8%
Others 其他	54.1	(10.4)	-620%	88.8%
Pre-tax Profit 稅前利潤	362.2	316.5	14%	27.5%
Net Income 稅後淨利	299.1	255.0	17%	30.5%
After tax EPS	1.24	1.07	17%	29.2%

\* Consolidated entities include: Wah Lee Taiwan and China Subsidiaries (Raycong, Shanghai YiKang), Wah Lee Japan, Wah Lee Tech(Singapore), and Wah Lee Korea.

\*上述合併報表主體，包含華立台灣、大陸子公司(華港香港、上海怡康)，華立日本，華立新加坡，及華立韓國。

# 2013Q1 Long Term Investments 長期投資收益

Unit: NT\$ thousand

<b>Long-term Investments</b> 轉投資事業	<b>Product Lines</b> 主要產品線	<b>Holding %</b> 持有比例 %	<b>2013Q1 Earnings Recognized</b> 長投收益
Chang Wah Electromaterials Inc. 長華電材	Semiconductor Packaging and Testing Materials	28	44,571
Nagase Wah Lee Plastics 長華塑膠	SABIC Engineering Plastics	40	38,878
Wah Hong Industrial Corp. 華宏新技	Optical Film, High Performance Plastic Compound, Heat Dissipation Solution, VCM Actuator	26	1,968
ORC Wah Lee Technology Corp. 華展光電	ORC Exposure Machine and Lamps	35	1,605
<b>Total</b>			<b>87,022</b>

# Consolidated Balance Sheet 合併資產負債表

Unit: NT\$ million

	2013-03-31		2012-03-31			2013-03-31		2012-03-31	
	(CPA)		(CPA)			(CPA)		(CPA)	
Cash & Equiv. 現金	1,938	9.2%	1,695	8.7%	S-T Borrowing 短期借款	4,123	19.6%	3,198	16.4%
A/R 應收帳款	8,683	41.2%	8,422	43.1%	A/P 應付帳款	5,121	24.3%	5,531	28.3%
Inventory 存貨	2,687	12.8%	2,684	13.7%	Other C/L 其他流動負債	173	0.8%	293	1.5%
Other C/A 其他流動資產	1,843	8.8%	1,793	9.2%	Current Liab. 流動負債	9,417	44.7%	9,022	46.2%
Current Assets 流動資產	15,151	72.0%	14,595	74.7%	L-T Liab. 長期負債	1,559	7.4%	1,567	8.0%
Financial Asset-Non Current 金融資產-非流動	599	3%	386	2.0%	Other Liab. 其他負債	787	3.7%	701	3.6%
L-T investments 長期投資	3,883	18.4%	3,227	16.5%	Non-Current Liab. 非流動負債	2,347	11.1%	2,268	11.6%
Fixed Assets 固定資產	975	4.6%	995	5.1%	Total Liab. 總負債	11,763	55.9%	11,290	57.8%
Other Assets 其他資產	448	2.1%	337	1.7%	Capital 股本	2,314	11.0%	2,314	11.8%
Non-Current Asset 非流動資產	5,905	28.0%	4,945	25.3%	Capital Surplus 資本公積	1,266	6.0%	1,211	6.2%
					Retained Earnings 保留盈餘	4,725	22.4%	4,242	21.7%
					Other Equities 其他權益	383	1.8%	(12)	-0.1%
					Non-Controlling. Interest 非控制權益	781	3.7%	557	2.8%
Total Assets 總資產	21,056	100.0%	19,540	100.0%	Total Equities 總股東權益	9,292	44.1%	8,250	42.2%

\* Consolidated entities include: Wah Lee Taiwan and China Subsidiaries (Raycong, Shanghai YiKang), Wah Lee Japan, Wah Lee Tech(Singapore), and Wah Lee Korea.

\*上述合併報表主體，包含華立台灣、大陸子公司(華港香港、上海怡康)，華立日本，華立新加坡，及華立韓國。



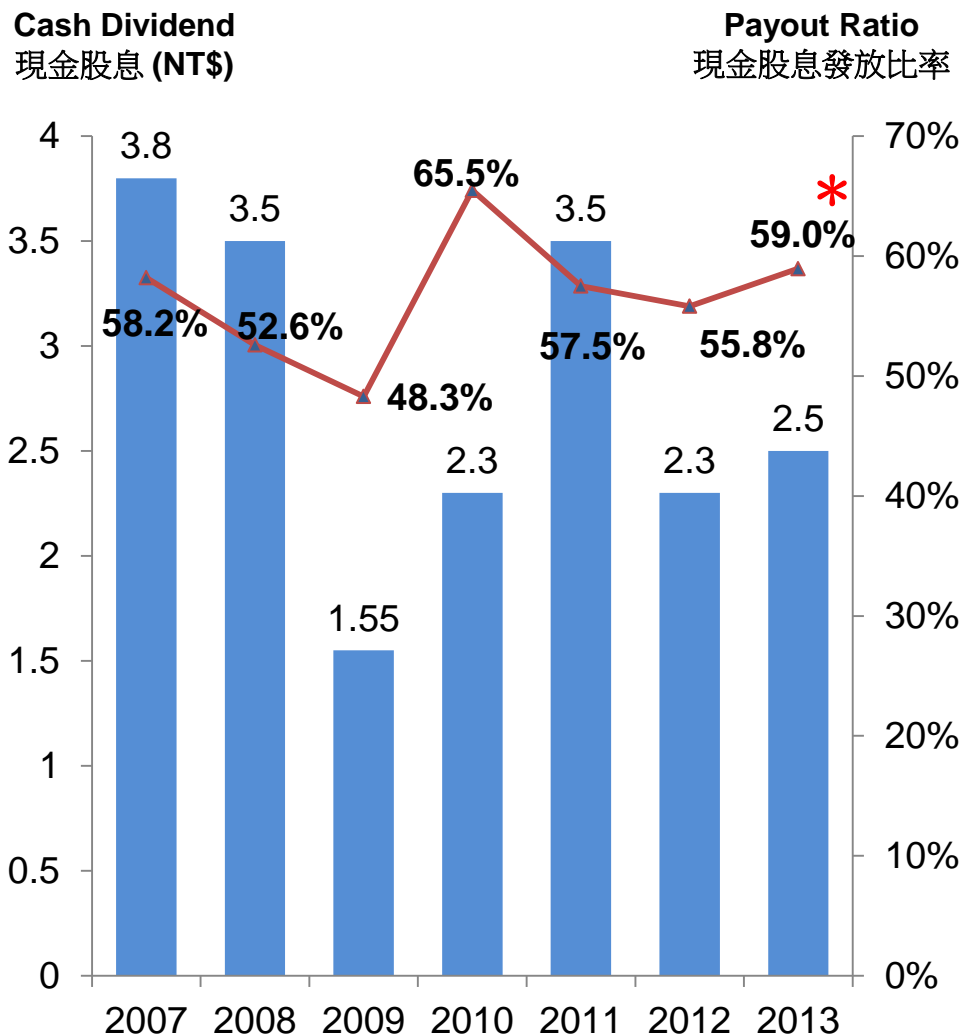
# Consolidated Financial Indicators 合併財務比率

	2007	2008	2009	2010	2011	2012	2013Q1
Current Ratio 流動比率	144.8%	148.6%	171.7%	162.6%	164.4%	162.2%	160.9%
Quick Ratio 速動比率	98.8%	95.6%	132.4%	115.9%	122.2%	130.9%	128.1%
Net Debt/Equity 淨負債比率	36.2%	42.3%	9.0%	22.3%	31.0%	20.7%	24.9%
A/R days 應收帳款天數	84.8	86.3	112.7	87.9	88.9	95.2	103.3
Inventory days 存貨天數	53.4	64.8	67.1	47.1	46.2	40.7	37.6
A/P days 應付帳款天數	57.9	54.2	81.5	60.8	56.8	59.0	61.9
Cash conversion days 現金週轉天數	80.3	96.9	98.3	74.1	78.2	76.9	79.0
Operating cash flow (NT\$K) 來自營業活動現金流量	243,444	636,700	2,539,747	-389,836	603,661	1,493,739	-384,167
ROE 股東權益報酬率	18.7%	11.9%	12.3%	19.7%	12.0%	12.6%	13.3%



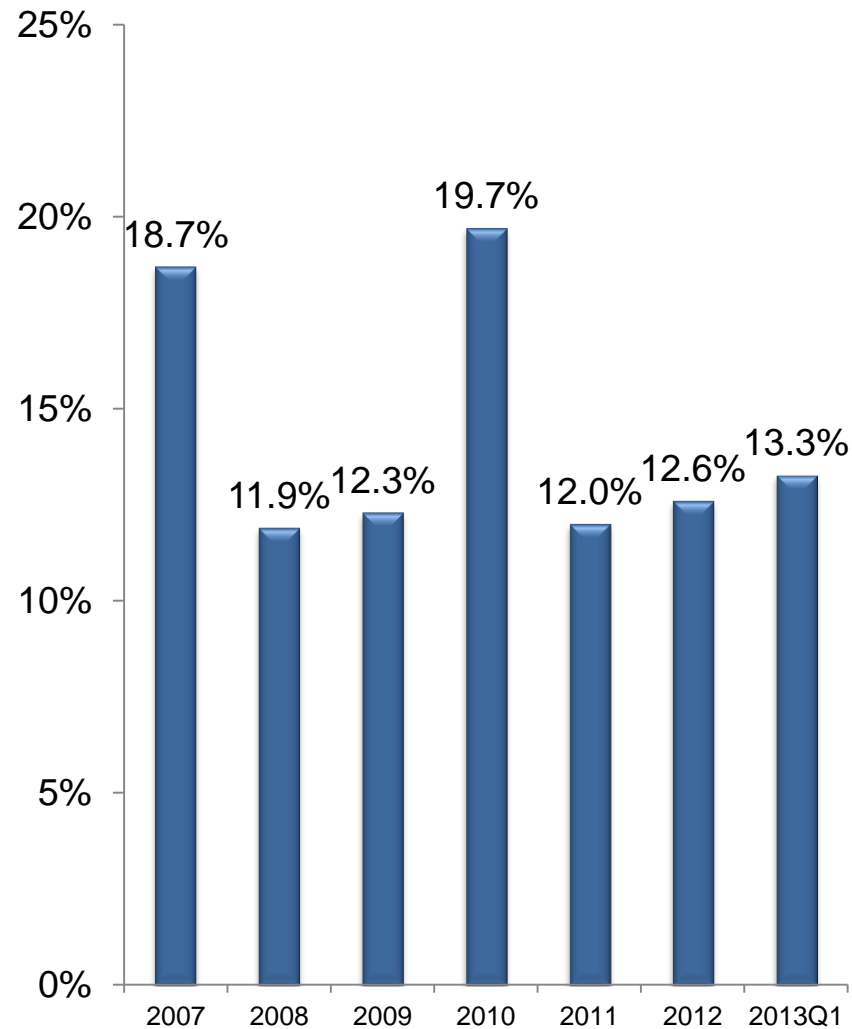
# Shareholder Returns Trend 股東投資報酬

## Dividend Policy 股利政策



\* Dividends are distribution of prior year's earnings.  
 \* 2013 dividends are subject to the resolution of AGM.

## ROE 股東權益報酬率



\* 2013Q1 ROE is annualized.

# 2012 Consolidated Income Statement 合併損益表

Unit: NT\$ million	2012 (CPA)	2011 (CPA)	YoY
Net Sales 營收淨額	31,545.3	31,224.5	1%
Gross Profit 銷貨毛利	2,857.9	2,821.8	1%
Gross Margin 毛利率	9.1%	9.0%	0.0%
Op. Expense 營業費用	2,023.5	1,881.9	8%
Op. Profit 營業利益	834.4	939.9	-11%
Non-op. Profit 業外收支	481.1	410.5	17%
L-T Investment Income 長投收益	417.5	264.3	58%
Disposal Gain 處分利益	2.6	37.4	-93%
Others 其他	60.9	108.3	-44%
Pre-tax Profit 稅前利潤	1,315.5	1,350.3	-3%
Net Income 稅後淨利	981.1	952.2	3%
After-tax EPS	4.24	4.12	3%

\* Consolidated entities include: Wah Lee Taiwan and China Subsidiaries (Raycong, Shanghai YiKang), Wah Lee Japan, Wah Lee Tech(Singapore), and Wah Lee Korea.

\*上述合併報表主體，包含華立台灣、大陸子公司(華港香港、上海怡康)，華立日本，華立新加坡，及華立韓國。

# 2012 Long Term Investments 長期投資收益

Unit: NT\$ thousand

<b>Long-term Investments</b> 轉投資事業	<b>Product Lines</b> 主要產品線	<b>Holding %</b> 持有比例 %	<b>2012 Earnings Recognized</b> 長投收益
Chang Wah Electromaterials Inc. 長華電材	Semiconductor Packaging and Testing Materials	<b>28</b>	<b>198,518</b>
Nagase Wah Lee Plastics 長華塑膠	SABIC Engineering Plastics	<b>40</b>	<b>137,764</b>
Wah Hong Industrial Corp. 華宏新技	Optical Film, High Performance Plastic Compound, Heat Dissipation Solution, VCM Actuator	<b>24</b>	<b>71,531</b>
ORC Wah Lee Technology Corp. 華展光電	ORC Exposure Machine and Lamps	<b>35</b>	<b>9,729</b>
<b>Total</b>			<b>417,542</b>

# Consolidated Balance Sheet 合併資產負債表

Unit: NT\$ million

	2012-12-31 (CPA)		2011-12-31 (CPA)			2012-12-31 (CPA)		2011-12-31 (CPA)	
Cash & Equiv. 現金	3,420	17.0%	2,471	13.1%	S-T Borrowing 短期借款	3,632	18.1%	3,404	18.0%
A/R 應收帳款	8,596	42.7%	7,910	41.9%	A/P 應付帳款	4,931	24.5%	4,334	22.9%
Inventory 存貨	2,650	13.2%	3,229	17.1%	Other C/L 其他流動負債	687	3.4%	830	4.4%
Other C/A					Current Liab. 流動負債	9,249	46.0%	8,568	45.4%
其他流動資產	337	1.7%	478	2.5%	L-T Liab. 長期負債	1,561	7.8%	1,569	8.3%
Current Assets 流動資產	15,002	74.6%	14,088	74.6%	Other Liab. 其他負債	666	3.3%	644	3.4%
L-T investments 長期投資	3,813	18.9%	3,486	18.5%	Total Liab. 總負債	11,508	57.2%	10,781	57.1%
Fixed Assets 固定資產	947	4.7%	898	4.8%	Capital 股本	2,314	11.5%	2,314	12.2%
Other Assets 其他資產	361	1.8%	418	2.2%	Capital Surplus 資本公積	1,304	6.5%	1,268	6.7%
					Retained Earnings 保留盈餘	4,371	21.7%	3,922	20.8%
					Minority int. & Other Adjust. 少數股權	627	3.1%	605	3.2%
Total Assets 總資產	20,123	100.0%	18,890	100.0%	Total Equities 總股東權益	8,616	42.8%	8,109	42.9%

\* Consolidated entities include: Wah Lee Taiwan and China Subsidiaries (Raycong, Shanghai YiKang), Wah Lee Japan, Wah Lee Tech(Singapore), and Wah Lee Korea.

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