WAH LEE INDUSTRIAL CORP.
華立企業股份有限公司
Material Pioneer, Technology Navigator

INVESTOR MEETING
法說簡報

November 2013
2013年11月

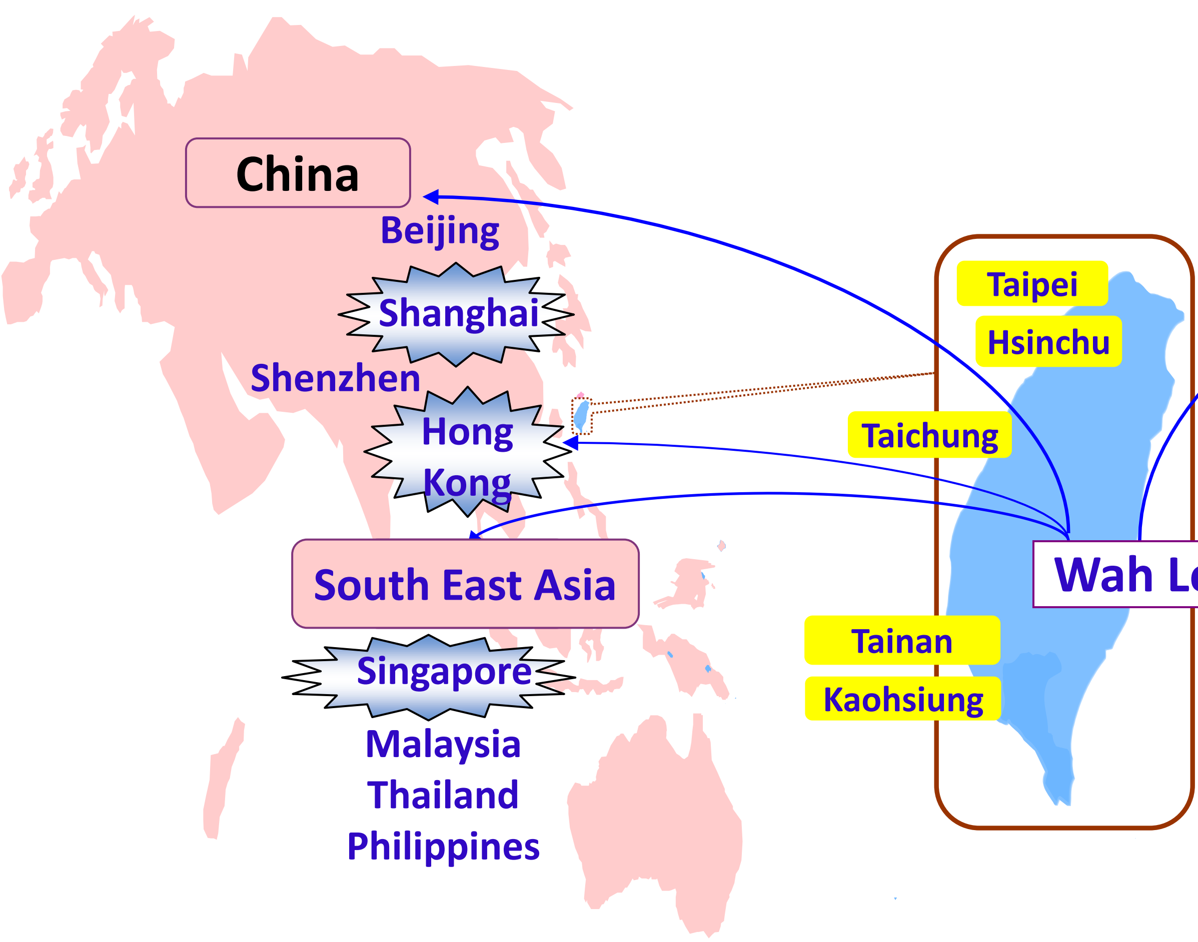
TSE Ticker : 3010 TT
http://www.wahlee.com

Contents 簡介內容

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$350 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



China

Beijing

Shanghai

Shenzhen

Hong Kong

South East Asia

Singapore

Malaysia

Thailand

Philippines

Taipei

Hsinchu

Taichung

Tainan

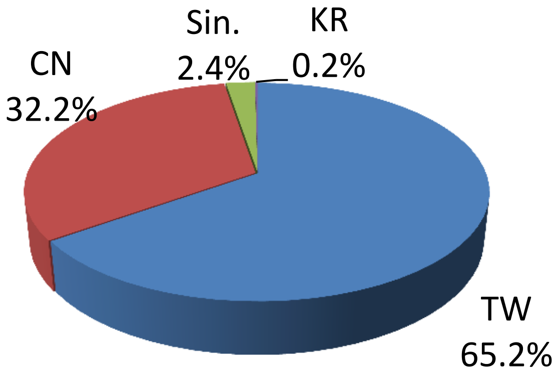
Kaohsiung

Wah Lee Corp.

USA

San Jose

LA

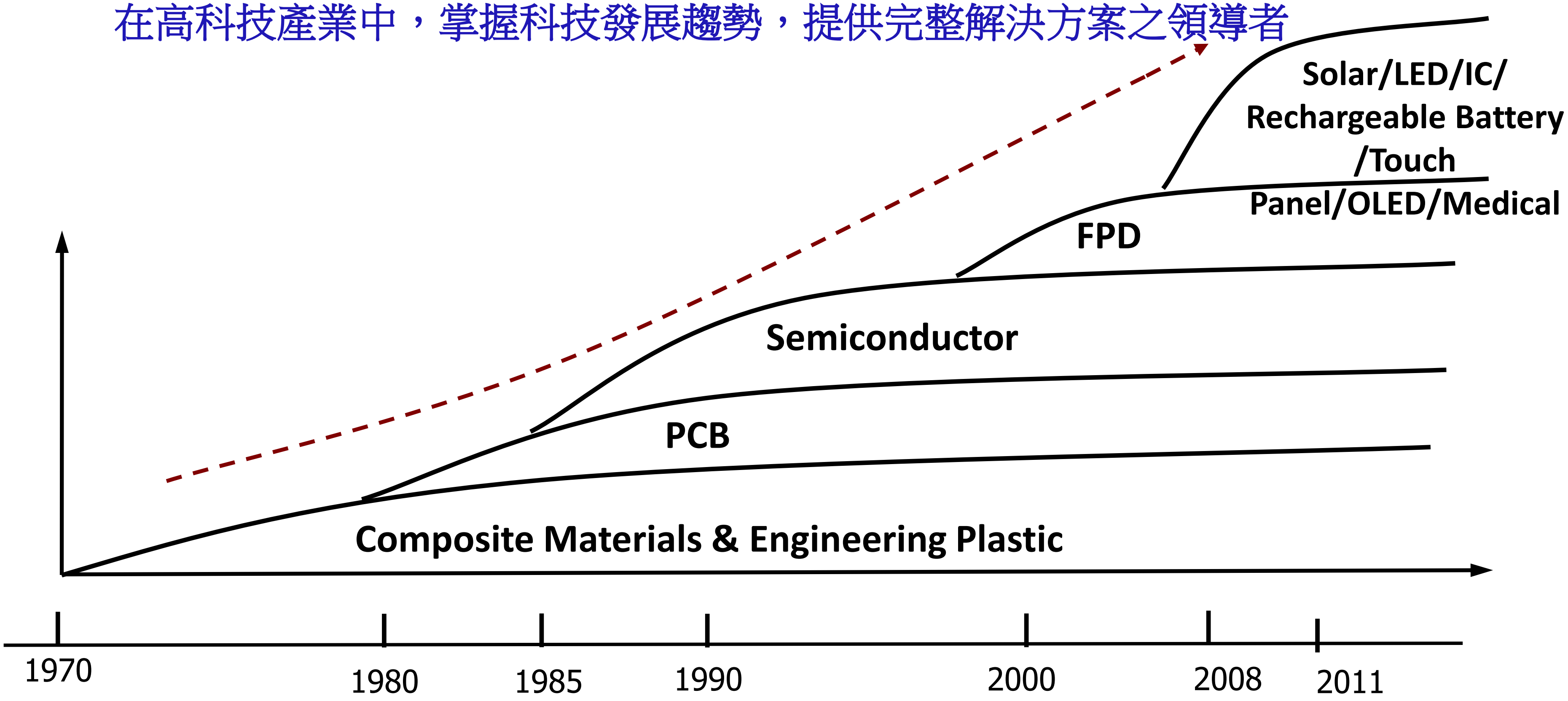


Wah Lee Subsidiaries

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



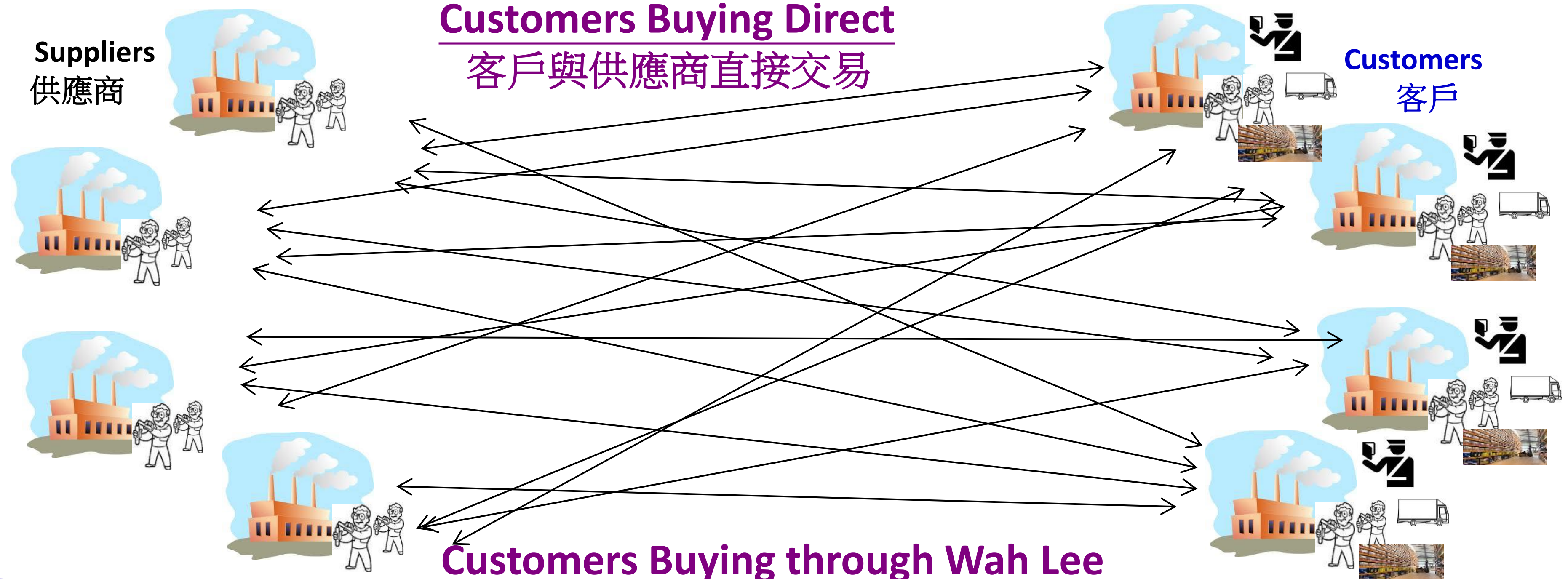
II. **Developing Next Generation Technologies:**

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

Customers 客戶

FAE engineers 工程師

Warehouse
倉儲系統

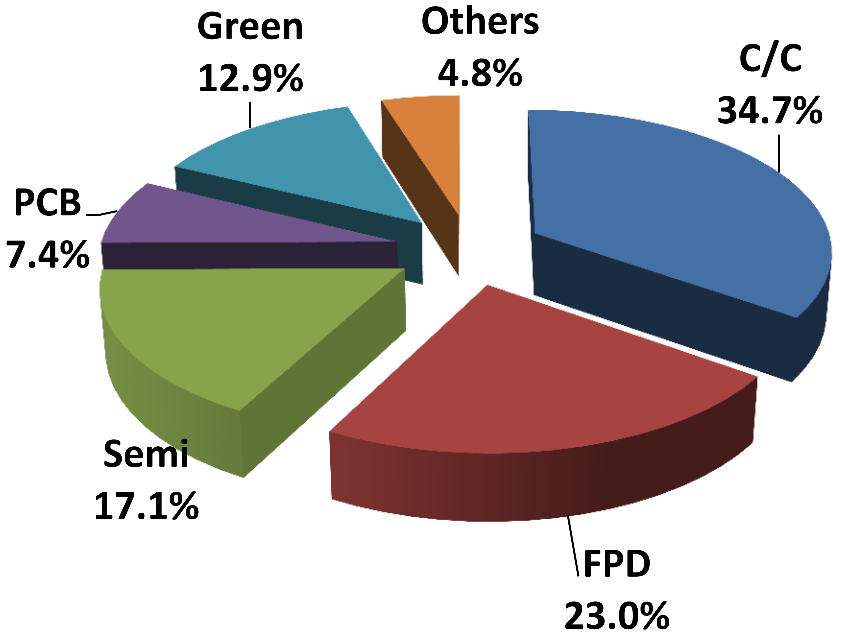
Customs Handling進口報關服務

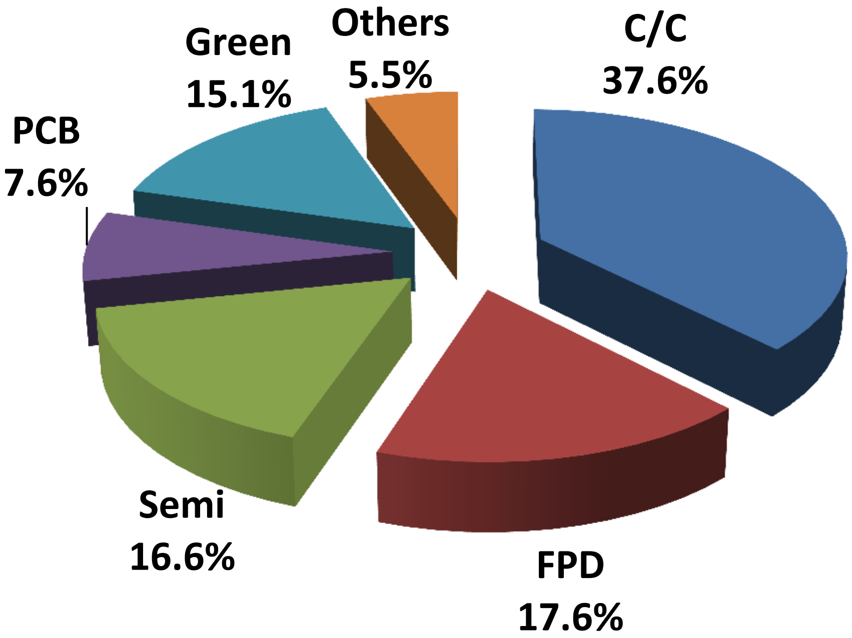
Logistics全方位物流

Quarterly Consolidated Sales 季合併營收資訊

2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
7,732,183	8,285,087	7,705,533	7,822,470	7,625,467	8,737,837	9,127,265

Industry Sales Breakdown 營收產業別資訊





Industry Sales Breakdown : C/C 資通訊營收

2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
2,837,549	3,055,019	3,032,201	3014,343	2,597,776	3,033,766	3,225,302

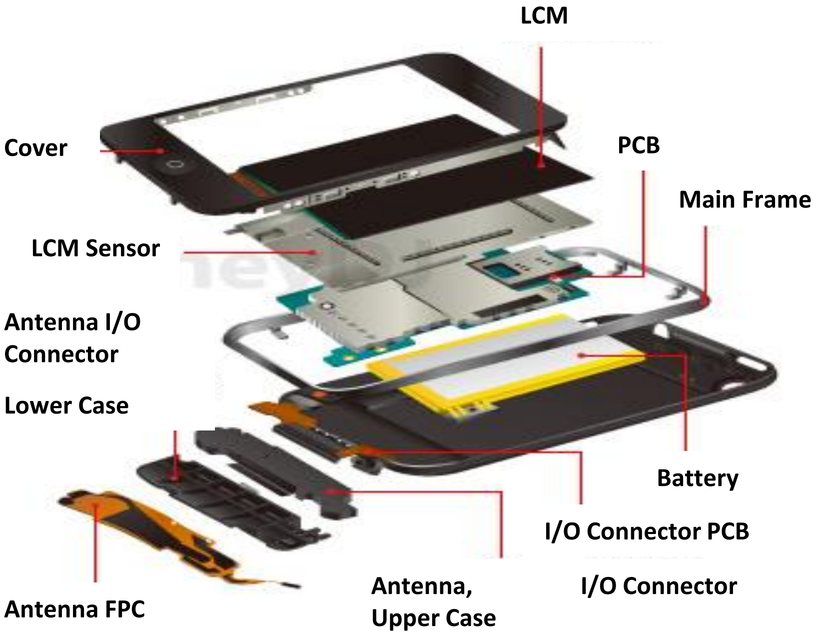
Products in C/C 資訊通訊產品

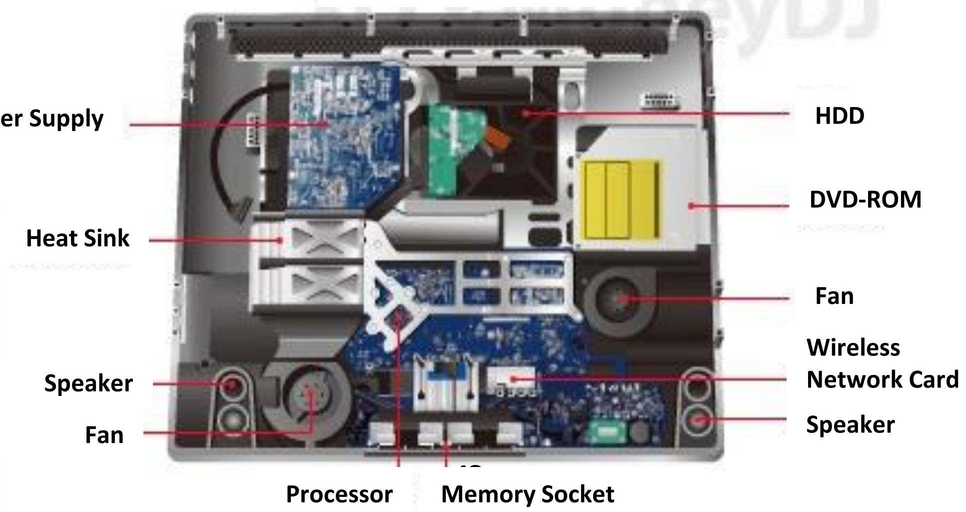
I. High Performance Engineering Plastics

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 Mounding
   Compound
6. Connector : LCP、PA9T
7. Reflector : PA9T
8. Transformer /PFC: Phenolic
   Mounding Compound
9. Inverter Bobbin : LCP

II. Others

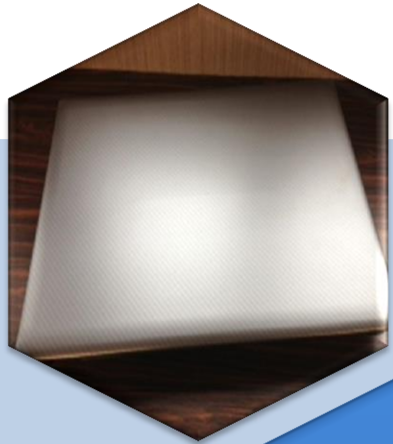
1. Hik@xy Thermal Interface Materials
2. Camera Module Auto-focus Actuator





Internal Structure

高機能工程塑膠近期開發應用領域 1
Recent developments in Engineering Plastics 1

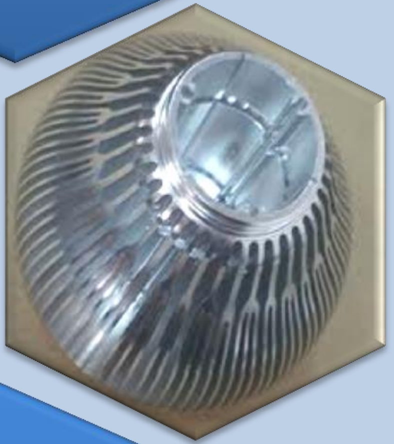


電腦機殼

Computer Casing

照明

LED Cover



家電

Coffee Machine
Juicer Parts

高機能工程塑膠近期開發應用領域 2
Recent developments in Engineering Plastics 2

民生消費品
Glasses Frame

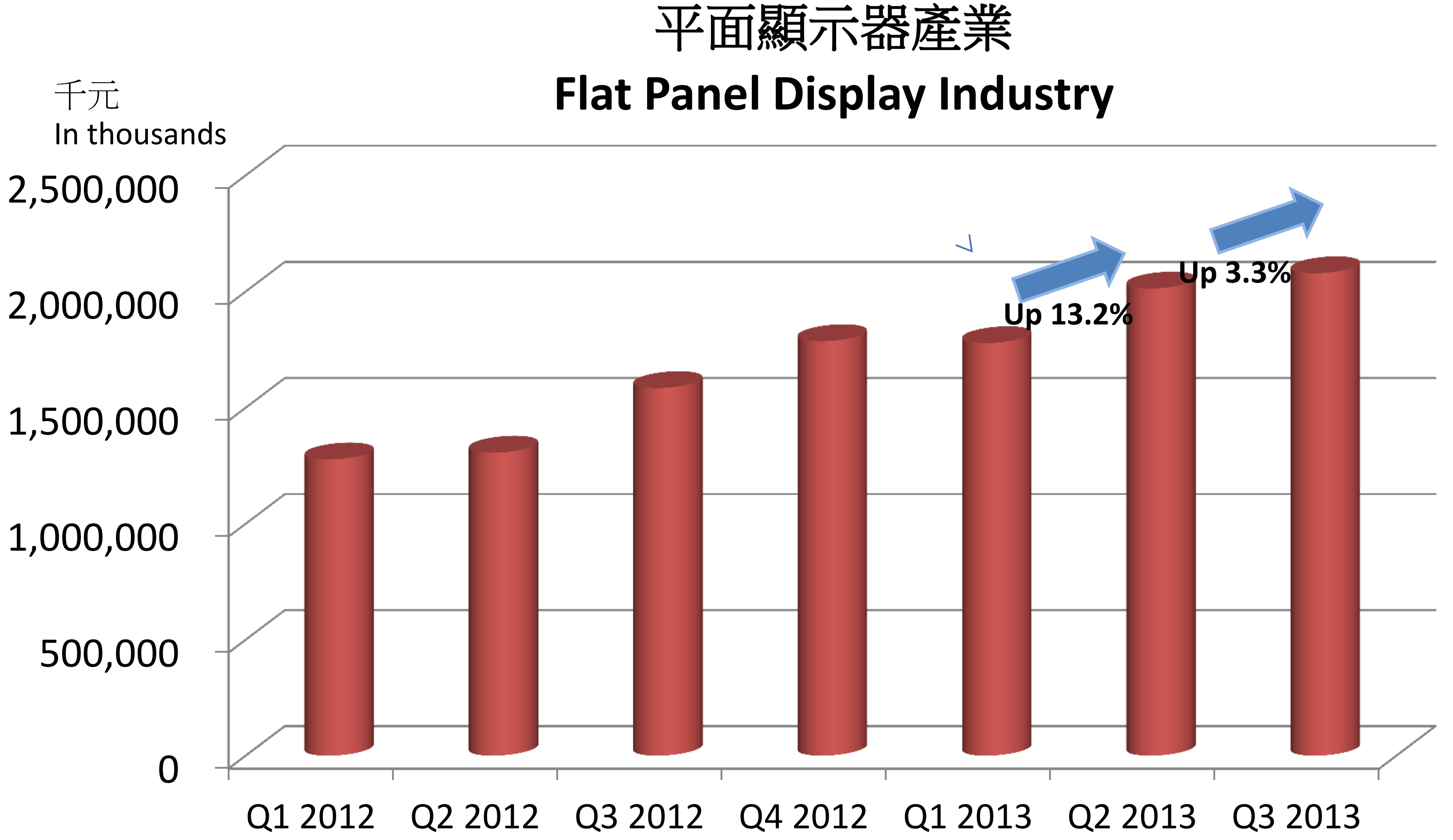
醫療輸液

Medical Liquid Bags

食品包裝

Food Packaging

Industry Sales Breakdown: FPD 平面顯示器營收

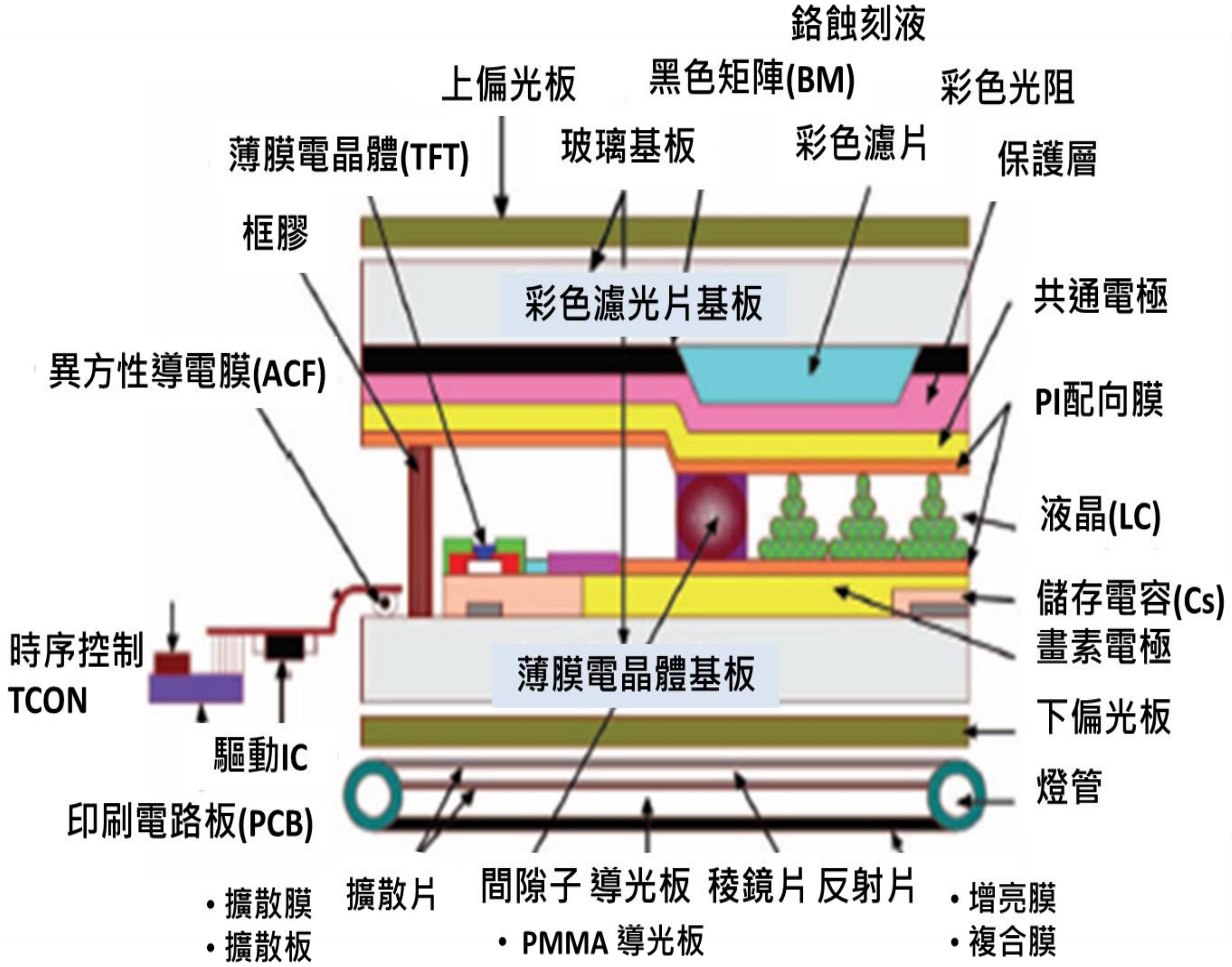


2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
1,277,309	1,306,531	1,584,445	1,786,398	1,777,895	2,012,892	2,078,850

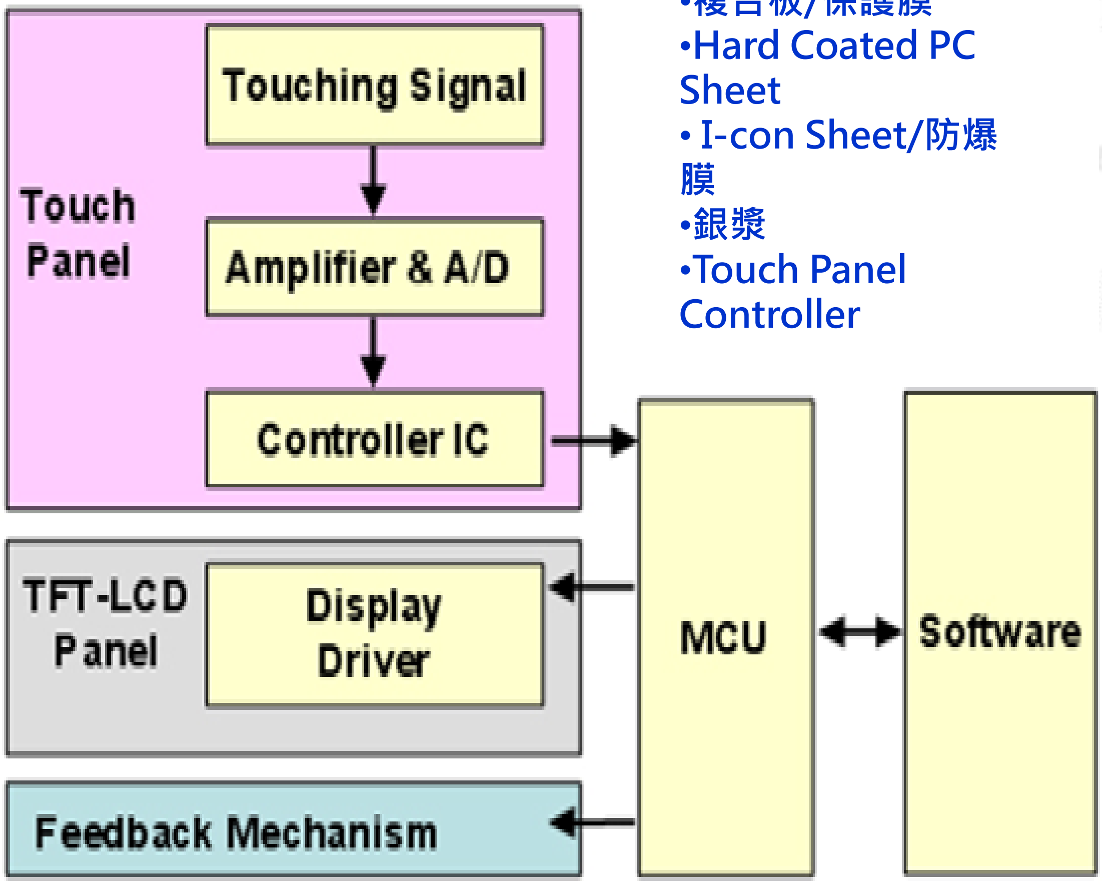
在LCD TV應用中，華立供應超過九成材料
Wah Lee Provides over 90% of Material used in LCD TV

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



Touch Panel

Touching Signal

Amplifier & A/D

Controller IC

TFT-LCD Panel

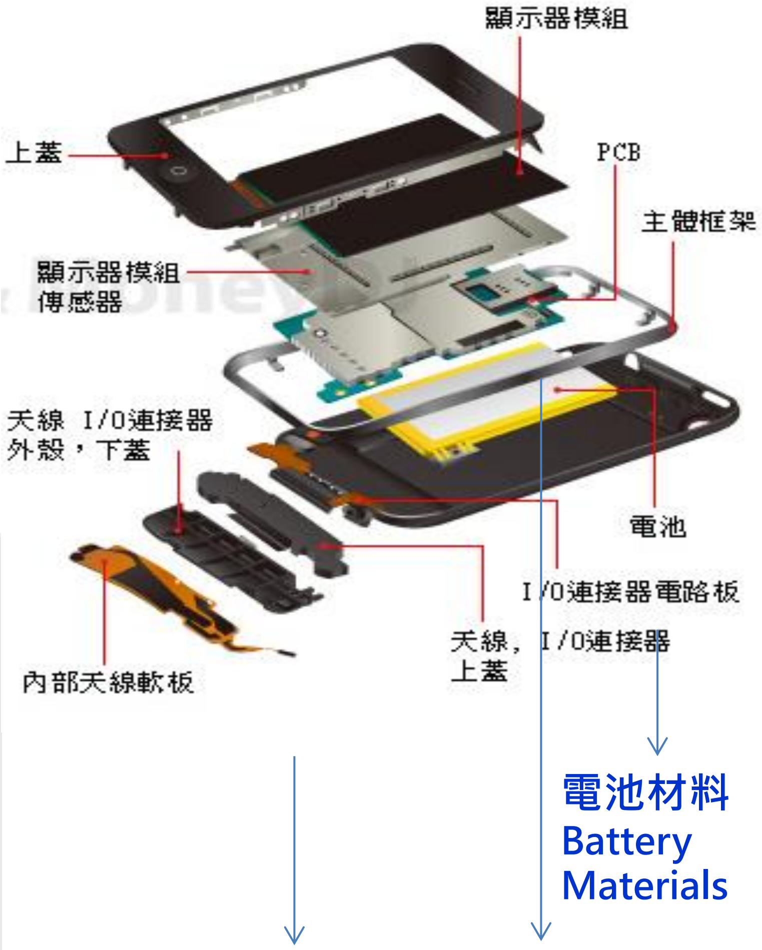
Display Driver

Feedback Mechanism

MCU

Software

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

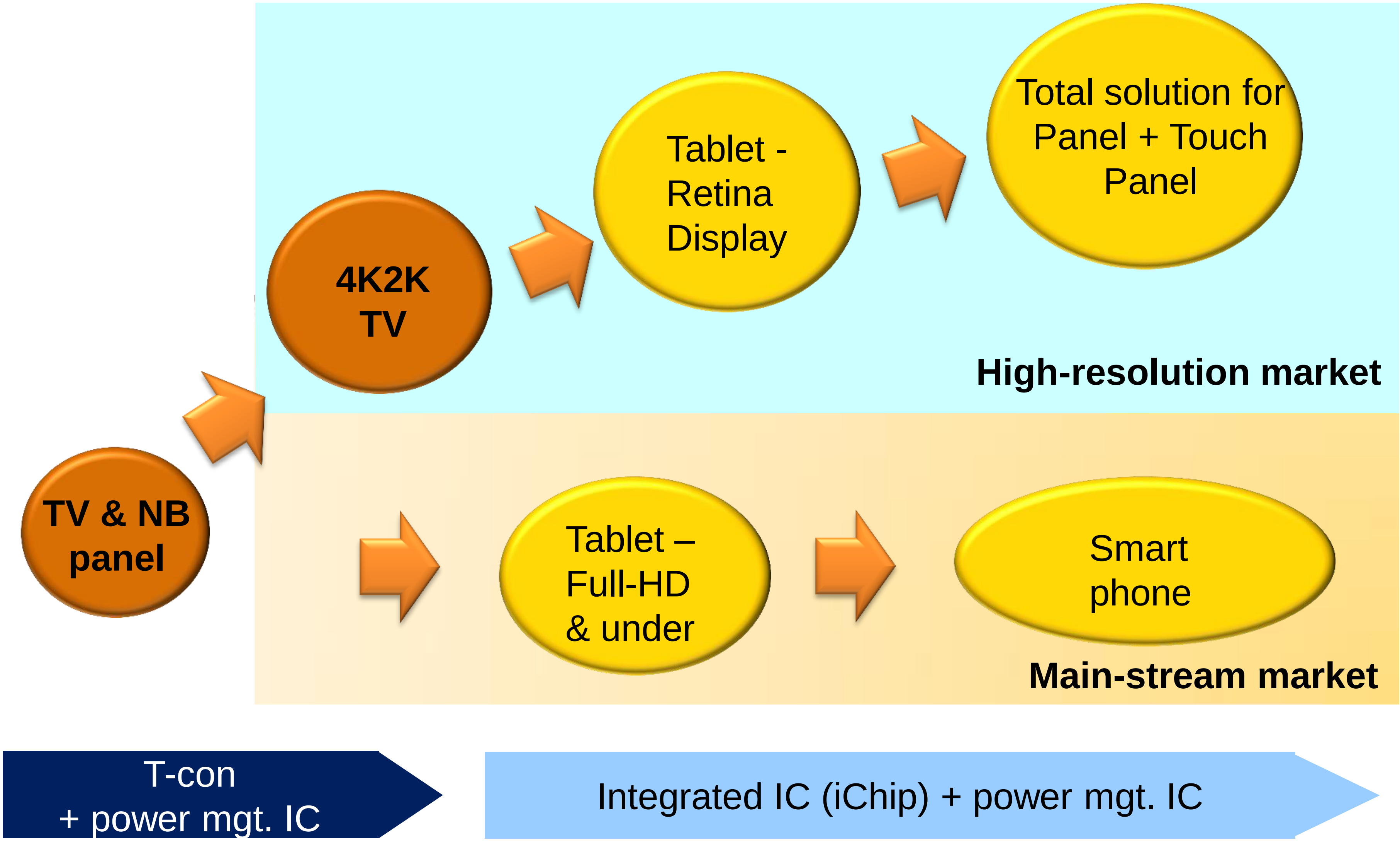


電池材料
Battery Materials

高機能工程塑膠
High performance Engineering Plastics、碳纖材料
Carbon Fiber…

PCB/軟板材料
PCB/FBC Materials

FPD Business Development FPD發展計畫



TV & NB panel

4K2K TV

Tablet - Retina Display

Total solution for Panel + Touch Panel

High-resolution market

Tablet – Full-HD & under

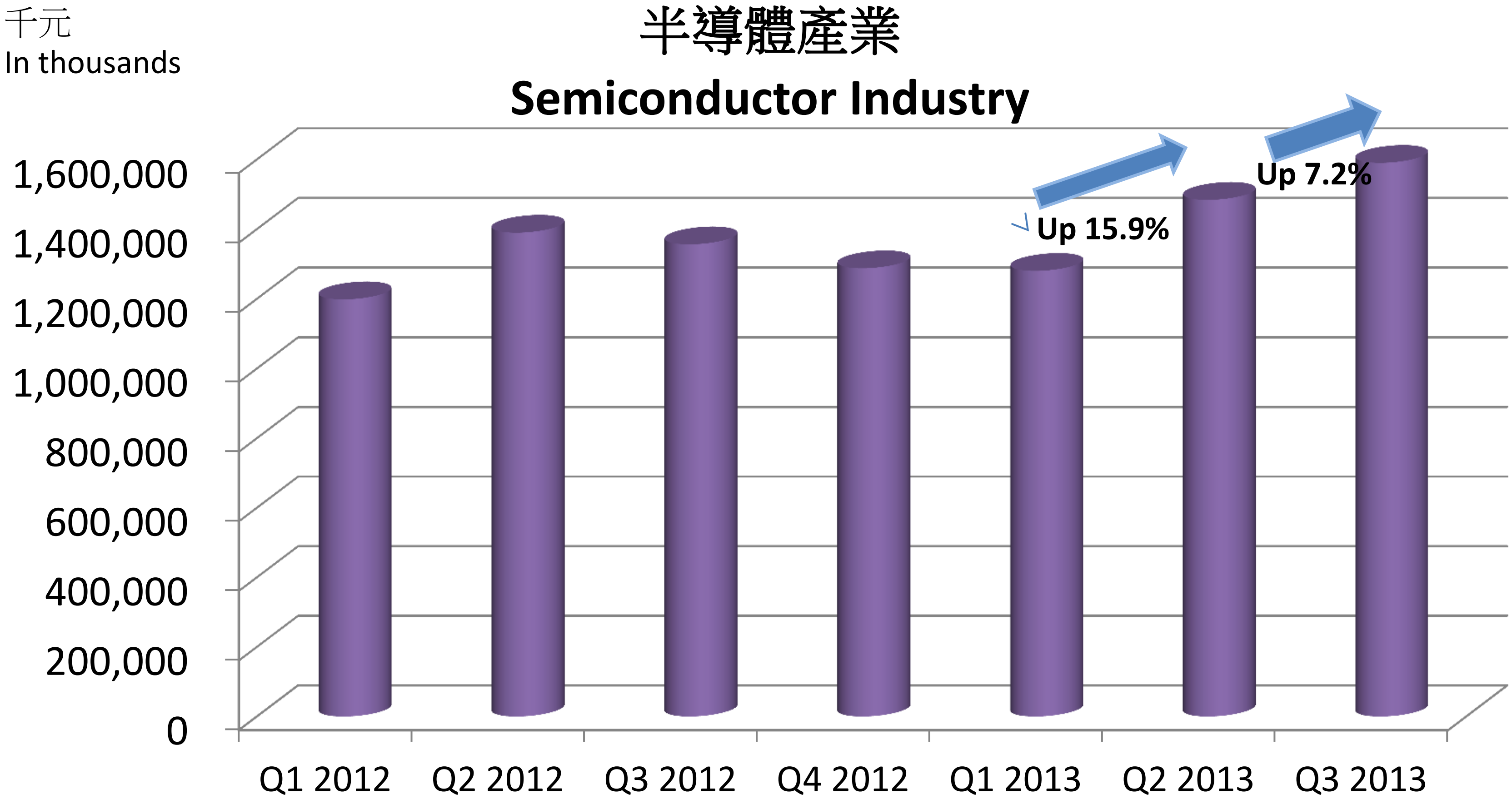
Smart phone

Main-stream market

T-con
+ power mgt. IC

Integrated IC (iChip) + power mgt. IC

Industry Sales Breakdown: Semi 半導體營收



2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
1,198,674	1,389,833	1,356,480	1,287,735	1,280,269	1,484,104	1,590,222

Semiconductor Supply Chain 半導體供應鏈

- Wafer

Heating Process

Dielectrics Deposition

- Precursor/ TEOS、TDMAT、TEB、TMPO
- SiH4
- NH3

Photo Lithography

- Photo Resist
- Developer
- Polyimide

Ion Implantation

- B2H6
- BCl3

Etch & PR Stripe

- H2SO4、HF、NH4OH、H2O2
- Stripper
- C4F6
- NMP

Metallization

- WF6

Chemical Mechanical Polishing

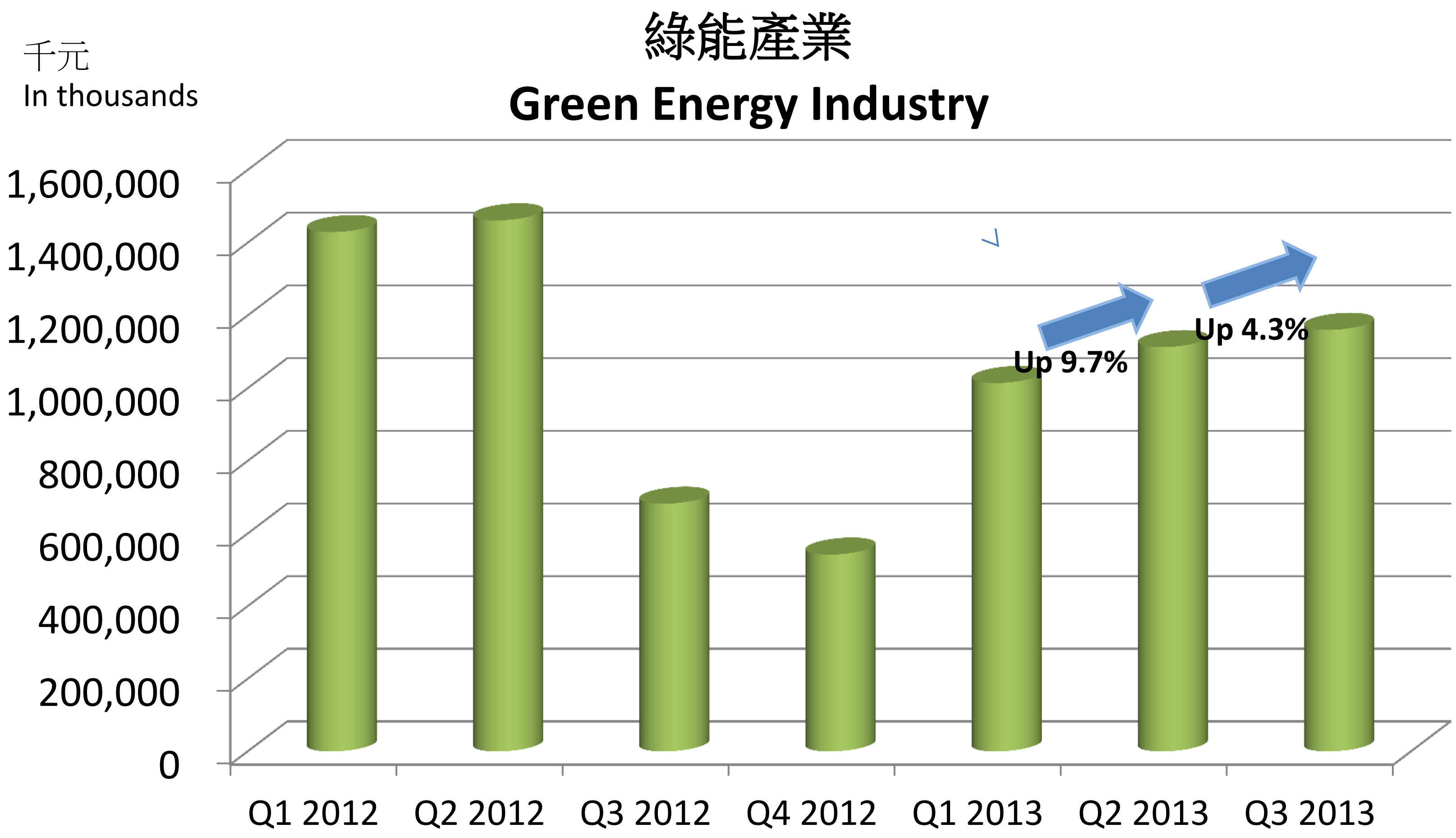
- Slurry
- Pad
- Post CMP Cleaner

Fabrication Processes and WL Products

成長動能: 新製程演進、市占率提升
Growth Driver:
Advanced processes & market-share raise

IC packaging and testing

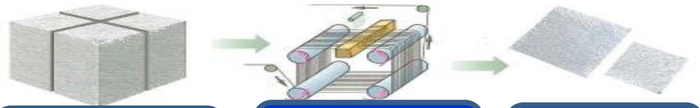
Industry Sales Breakdown: Green Energy 綠能營收



2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
1,429,243	1,461,628	682,358	542,194	1,014,297	1,112,908	1,160,422

Solar Supply Chain 太陽能產業鏈

Solar Wafer



硅碇開方 → 晶片切割 → 晶片

- 多晶矽晶片 Poly silicon wafer
- 鑫單晶晶片 Single silicon wafer

•切割鋼線 Wire

Solar Cell

晶片進料檢測 → 晶片蝕刻清洗 → 磷擴散 → 側邊/背面隔離 → 抗反射層沉積 → 金屬電極網印 → 燒結 → I-V曲線效率量測與分級

- NF3
- IC Chemical
- Texture etchant

- POCL3

- NH3
- SiH4

- 銀漿、鋁漿 Ag Paste, Al Paste
- 銀/鋁漿 Ag/Al Paste

PV Module

電池選用 → 焊接與焊串 → 與EVA、玻璃、Tedlar 組成模組 → 模組封裝 → 鋁框、接線盒組裝 → 效率測試

- Solar Cell

- Solar Glass
- Back sheet
- EVA sheet

- Junction Box 用PPE

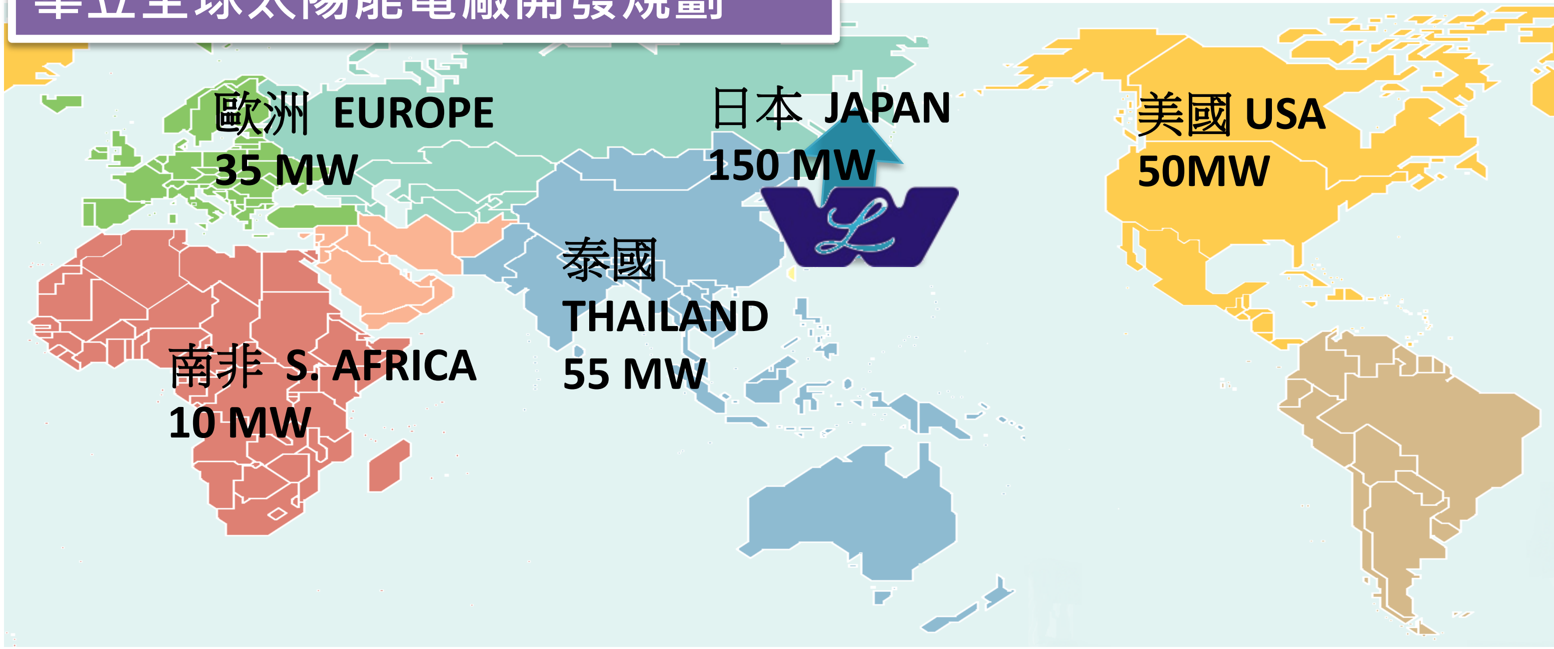
TV System

- 小型太陽能系統 System
- 電廠 Solar Plants

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

- 更具彈性的服務模式 Flexible Service Model
  - 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 Besides such material sales as silicon wafer/cell/module, Ag/Al paste, back sheet and so on, WL provides a full range of services to the supply chain including OEM and turnkey solutions.
- 海外太陽能電廠營運與開發 Development and Operation of Solar Plants
  - 具備當地市場開發與建置能力 Local market development and EPC (engineering, procurement and construction)
  - 與金融集團合作取得資金槓桿 Cooperation with financial groups for capital leverage

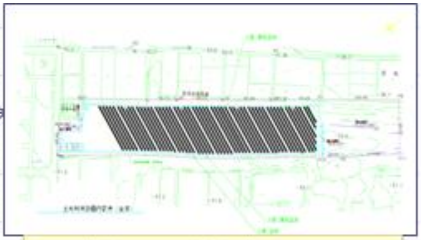
華立全球太陽能電廠開發規劃



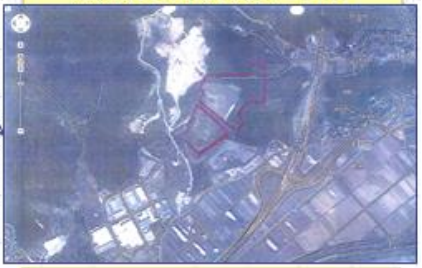
Solar Plants in Japan 日本太陽能電廠建置

- 搶先把握每度40日圓高收購電價，華立在日本中部地區建置5MW 電廠：Wah Lee established 5 MW solar plants in Japan:
  - 石川縣2MW已在8月併網售電，發電效能佳：9月發電量高於NEDO預估39%；Ishikawa Plant (2MW) started generating electricity sales in August .
  - 富山縣3MW預計在12月併網售電 Toyama Plant (3MW) are projected to generate electricity sales in December.
- 尚有超過50MW的日本電廠案正在洽談中，華立將持續擴大太陽能出海口的發展，提升供應鏈整體銷售的獲利 More than 50MW projects are under development.

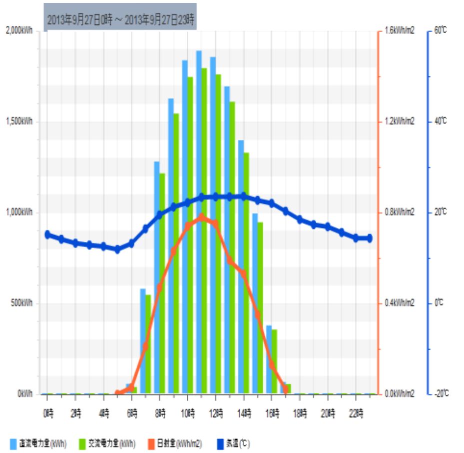
中部地區地圖
案件1-石川縣內灘町
案件2-富山縣高岡市



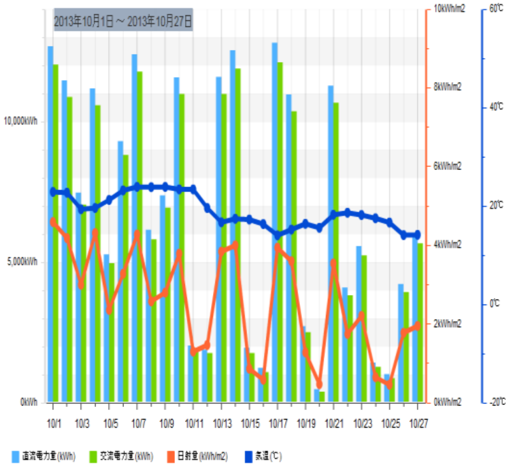
案件1-石川縣內灘町-2MW



案件2-富山縣高岡市-3MW



9/27日發電統計



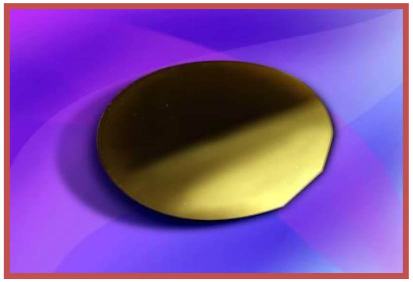
10/1-10/27月發電統計

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



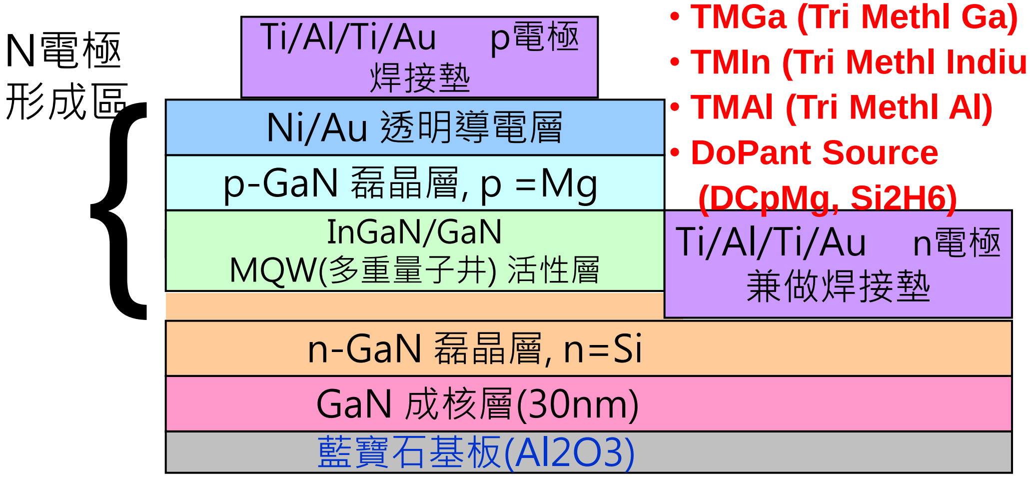
將單晶棒鋸切成片狀晶圓，並加以拋光處理。

- 鑽石切割線、PSS

4. 晶圓/ 基板

- AsH3、PH3、SiH4

- NH3 . GaAs
- TMGa (Tri Methl Ga)
- TMIn (Tri Methl Indium)
- TMAl (Tri Methl Al)
- DoPant Source (DCpMg, Si2H6)



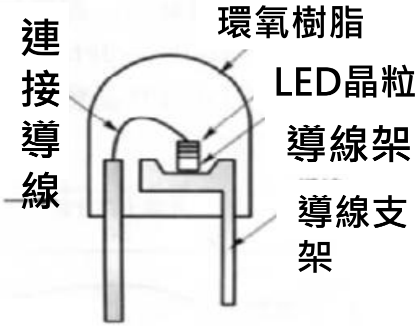
5.磊晶成長

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

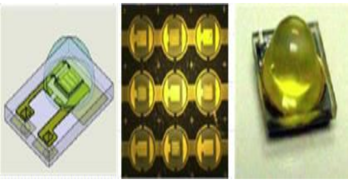
8. 封裝



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

9. 元件/ 模組

- EMITTER

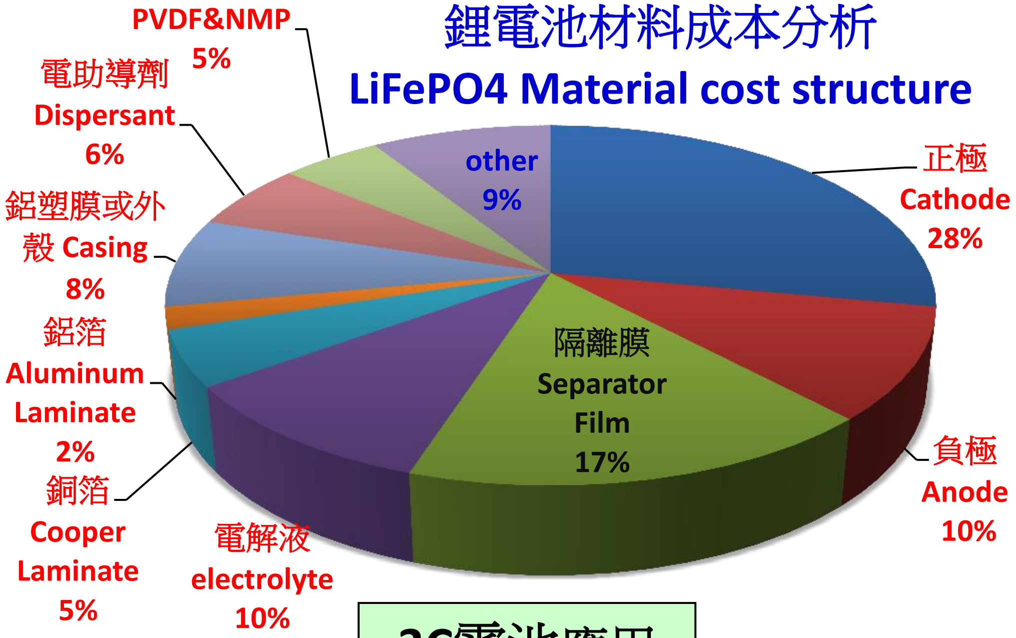


10. 半成品/成品

- 機構件
- 燈源/燈具

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
Power Application

電動車
Electric Vehicle

電動機車 E-bike

充電站 Charging Station

電池模組
Module

3C電池芯
Battery Cell

電動車電池模組
Electric Vehicle Module

平板電池模組
Tablet Battery Cell

3C電池應用
3C Application

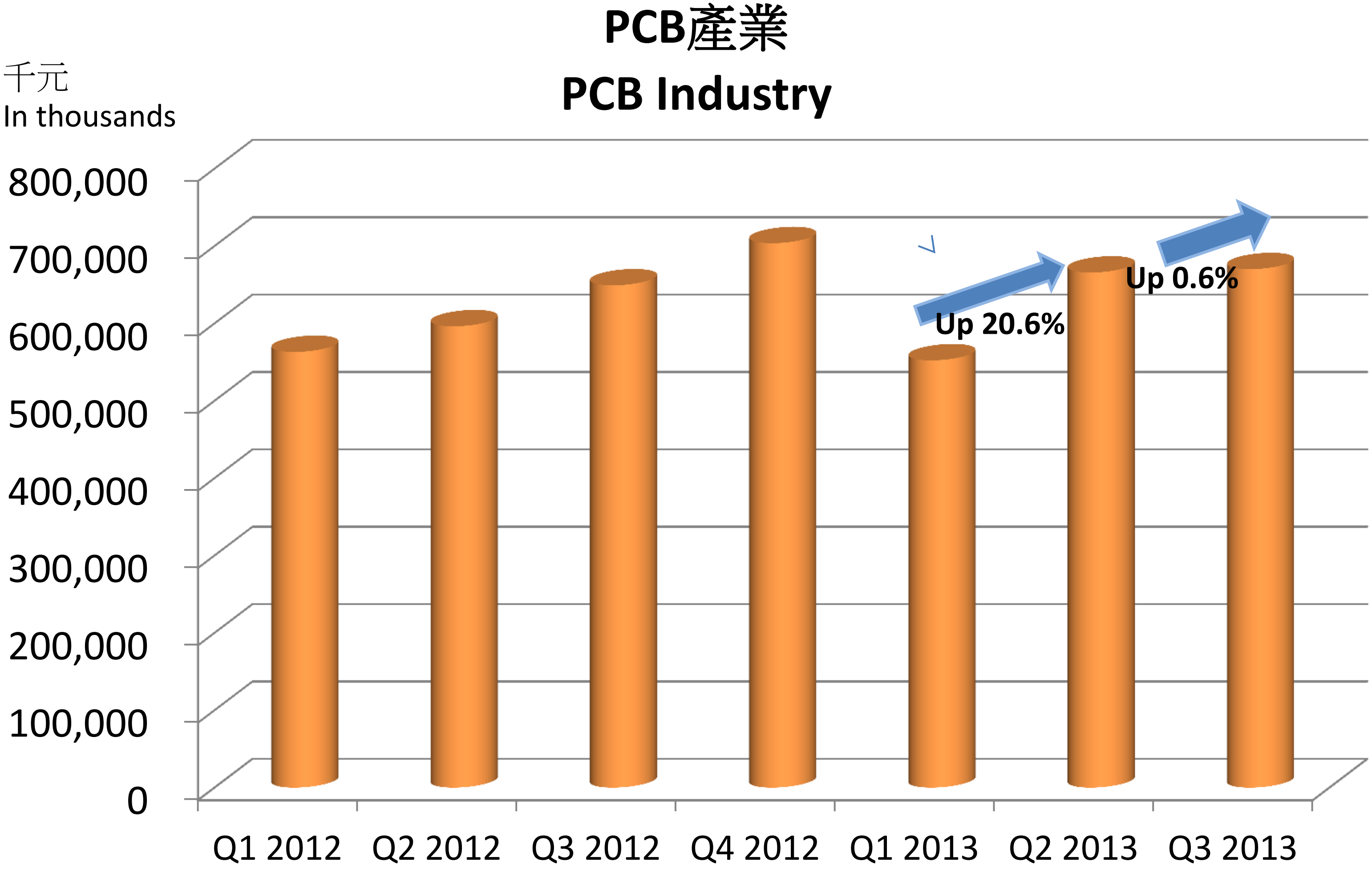
平板 Tablet

智慧型手機
Smart Phone

無線充電電池系統
Wireless Charging System

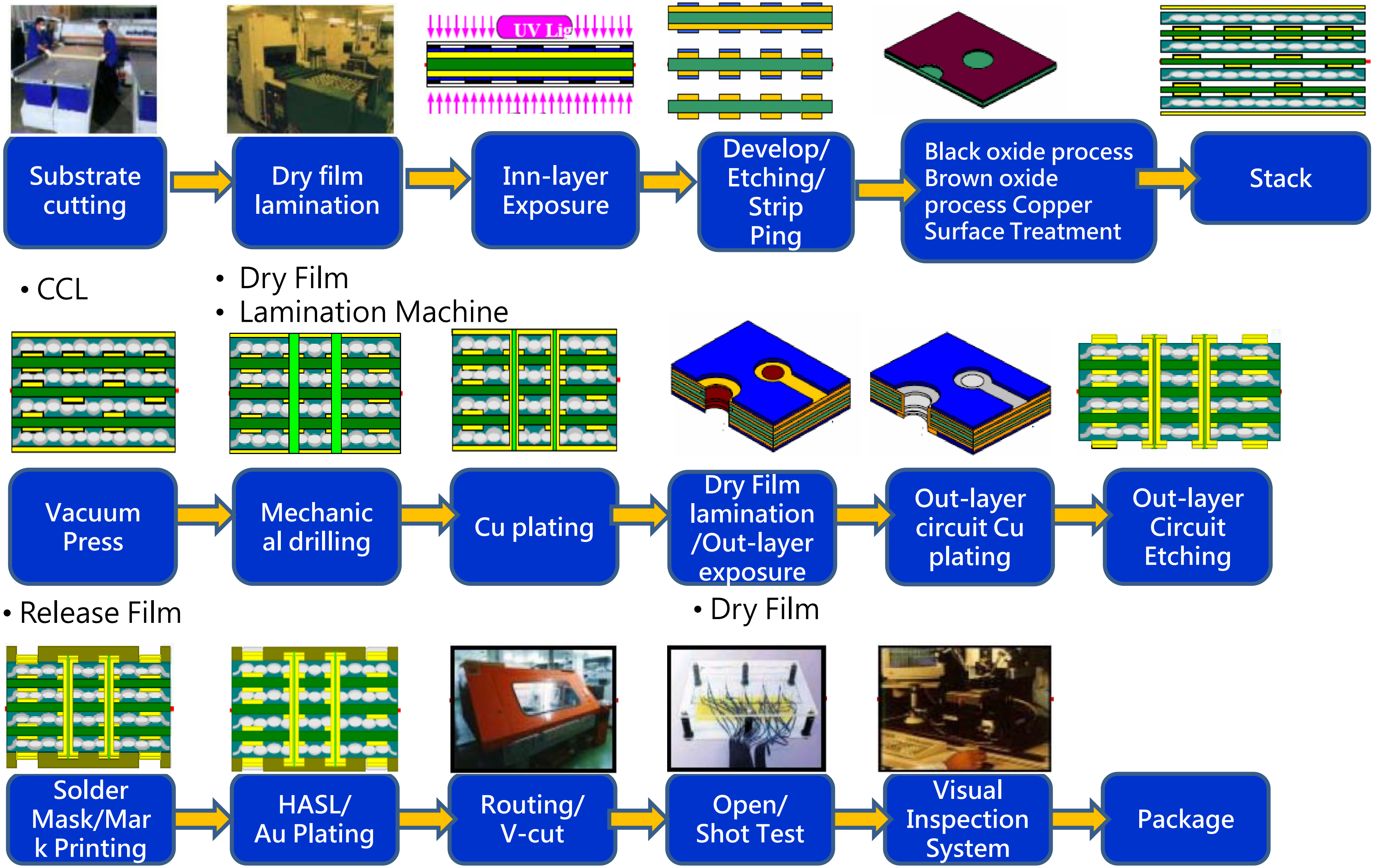
平板電腦
Tablet PC

Industry Sales Breakdown: PCB 印刷電路板營收



2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3
563,180	596,325	649,224	703,729	552,281	665,817	670,123

Products in PCB Industry PCB產業產品



Substrate cutting → Dry film lamination → Inn-layer Exposure → Develop/ Etching/ Strip Ping → Black oxide process Brown oxide process Copper Surface Treatment → Stack

- CCL

- Dry Film
- Lamination Machine

Vacuum Press → Mechanical drilling → Cu plating → Dry Film lamination /Out-layer exposure → Out-layer circuit Cu plating → Out-layer Circuit Etching

- Release Film

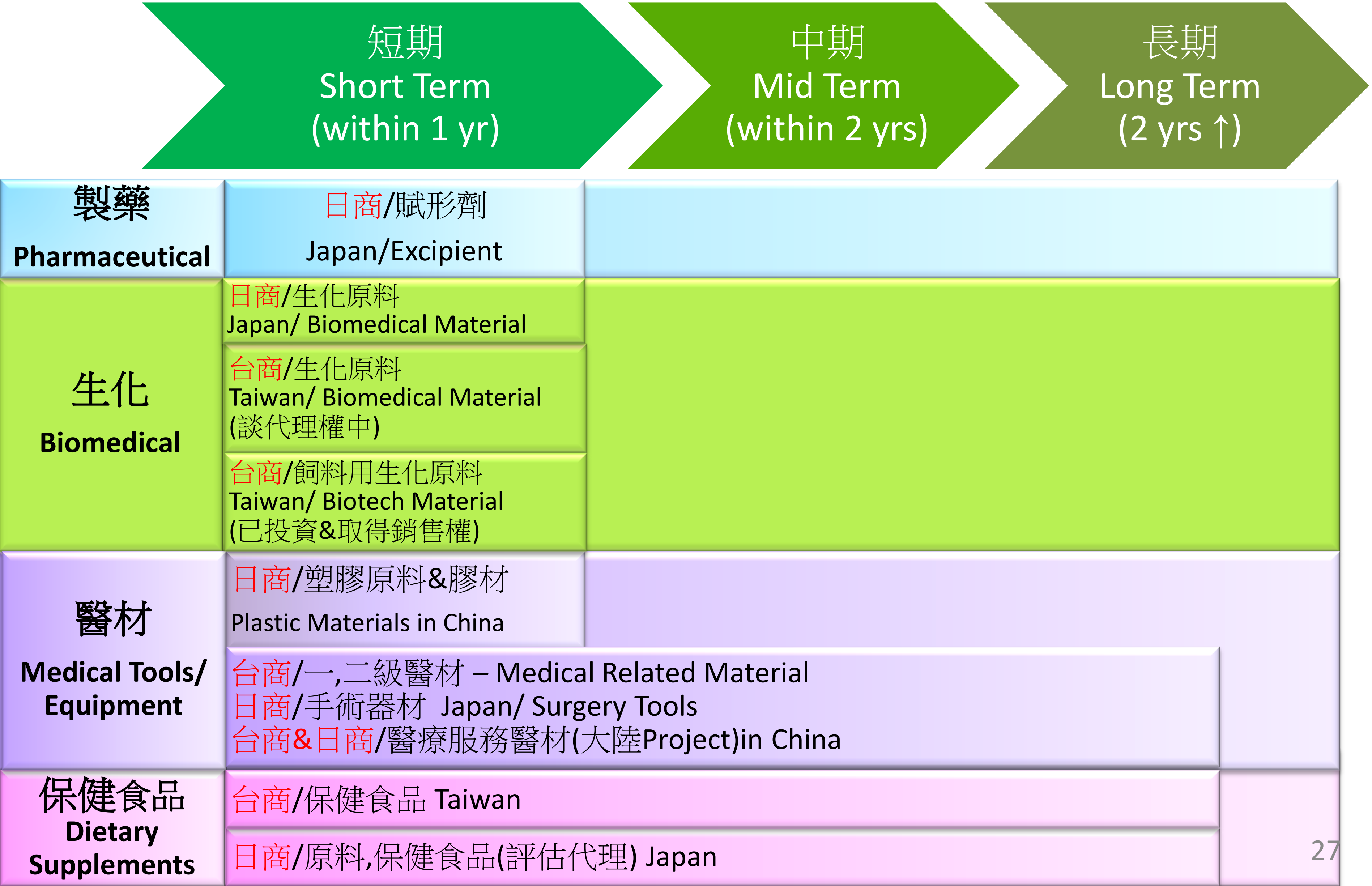
- Dry Film

Solder Mask/Mark Printing → HASL/ Au Plating → Routing/ V-cut → Open/ Shot Test → Visual Inspection System → Package

- CNC Router
- Beveling Machine

- AOI
- Screen Visual Inspection

Biotech Roadmap 生化產業發展規劃



	短期 Short Term (within 1 yr)	中期 Mid Term (within 2 yrs)	長期 Long Term (2 yrs ↑)
製藥 **Pharmaceutical**	日商/賦形劑 Japan/Excipient		
生化 **Biomedical**	日商/生化原料 Japan/ Biomedical Material		
	台商/生化原料 Taiwan/ Biomedical Material (談代理權中)		
	台商/飼料用生化原料 Taiwan/ Biotech Material (已投資&取得銷售權)		
醫材 **Medical Tools/ Equipment**	日商/塑膠原料&膠材 Plastic Materials in China		
	台商/一,二級醫材 – Medical Related Material 日商/手術器材 Japan/ Surgery Tools 台商&日商/醫療服務醫材(大陸Project)in China		
保健食品 **Dietary Supplements**	台商/保健食品 Taiwan		
	日商/原料,保健食品(評估代理) Japan		

2013Q3 Consolidated Income Statement 合併損益表

Unit: NT$ million	2013Q3 (Self)	2012Q3 (CPA)	*YoY*	2013Q3 as % of Full 2012
Net Sales 營收淨額	25,490.6	23,722.8	*7%*	*80.8%*
Gross Profit 銷貨毛利	2,290.0	2,218.7	*3%*	*80.1%*
Gross Margin 毛利率	9.0%	9.4%	*-0.4%*	
Op. Expense 營業費用	1,533.5	1,517.7	*1%*	*75.8%*
Op. Profit 營業利益	756.1	701.0	*8%*	*90.6%*
Non-op. Profit 業外收支	453.6	314.2	*44%*	*94.3%*
L-T investment income 長投收益	265.8	296.0	*-10%*	*63.7%*
Disposal gain 處分利益	13.1	6.2	*110%*	*504.0%*
Others 其他	174.6	12.0	*1358%*	*286.7%*
Pre-tax Profit 稅前利潤	1,209.6	1,015.2	*19%*	*92.0%*
Net Income 稅後淨利	859.5	756.7	*14%*	*87.6%*
After tax EPS	3.72	3.27	*14%*	*87.6%*

* 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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2013Q3 Long Term Investments 長期投資收益

Unit: NT$ thousand

Long-term Investments **轉投資事業**	**Product Lines** **主要產品線**	**Holding %** **持有比例 %**	**2013Q3 Earnings Recognized** **長投收益**
Chang Wah Electromaterials Inc. 長華電材	Semiconductor Packaging and Testing Materials	**28**	**116,846**
Nagase Wah Lee Plastics 長華塑膠	SABIC Engineering Plastics	**40**	**114,739**
Wah Hong Industrial Corp. 華宏新技	Optical Film, High Performance Plastic Compound, Heat Dissipation Solution, VCM Actuactor	**26**	**27,211**
ORC Wah Lee Technology Corp. 華展光電	ORC Exposure Machine and Lamps	**35**	**7,007**
Total			**265,803**

Consolidated Balance Sheet 合併資產負債表

Unit: NT$ million

	2013-09-30 (Self)		2012-09-30 (CPA)			2013-09-30 (Self)		2012-09-30 (CPA)	
Cash & Equiv. 現金	3,422	15.3%	3,244	16.9%	**S-T Borrowing** 短期借款	4,162	18.6%	3,612	18.9%
A/R 應收帳款	9,602	42.9%	8,120	42.4%	**A/P** 應付帳款	5,318	23.8%	4,241	22.1%
Inventory 存貨	2,792	12.5%	2,494	13.0%	**Other C/L** 其他流動負債	1,064	4.8%	809	4.2%
Other C/A 其他流動資產	466	2.1%	462	2.4%	**Current Liab.** 流動負債	10,545	47.2%	8,662	45.2%
Current Assets 流動資產	16,282	72.8%	14,320	74.8%	**L-T Liab.** 長期負債	1,689	7.6%	1,563	8.2%
					Other Liab. 其他負債	819	3.7%	662	3.5%
					Non-Current Liab. 非流動負債	2,508	11.2%	2,225	11.6%
Financial Asset-Non Current 金融資產-非流動	473	2%	308	1.6%	**Total Liab.** 總負債	13,053	58.4%	10,887	56.8%
L-T investments 長期投資	3,911	17.5%	3,297	17.2%	**Capital** 股本	2,314	10.3%	2,314	12.1%
Fixed Assets 固定資產	1,368	6.1%	898	4.7%	**Capital Surplus** 資本公積	1,264	5.7%	1,267	6.6%
Other Assets 其他資產	327	1.5%	332	1.7%	**Retained Earnings** 保留盈餘	4,720	21.1%	4,146	21.6%
Non-Current Asset 非流動資產	6,079	27.2%	4,835	25.2%	**Other Equities** 其他權益	371	1.7%	21	0.1%
					Non-Controlling. Interest 非控制權益	682	3.0%	519	2.7%
Total Assets 總資產	22,361	100.0%	19,154	100.0%	**Total Equities** 總股東權益	9,308	41.6%	8,267	43.2%

* 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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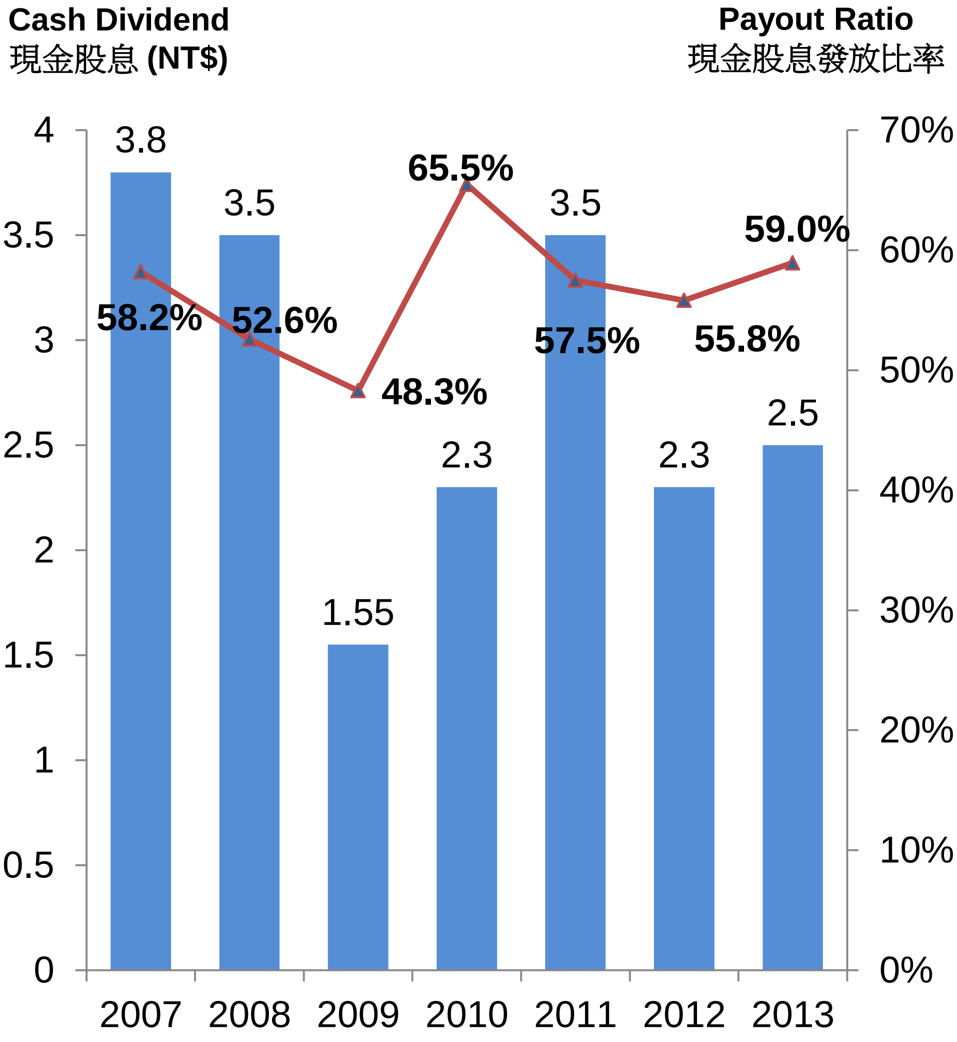
Consolidated Financial Indicators 合併財務比率

	2007	2008	2009	2010	2011	2012	2013Q3
Current Ratio 流動比率	144.8%	148.6%	171.7%	162.6%	164.4%	162.2%	154.4%
Quick Ratio 速動比率	98.8%	95.6%	132.4%	115.9%	122.2%	130.9%	125.5%
Net Debt/Equity 淨負債比率	36.2%	42.3%	9.0%	22.3%	31.0%	20.7%	26.2%
A/R days 應收帳款天數	84.8	86.3	112.7	87.9	88.9	95.2	98.1
Inventory days 存貨天數	53.4	64.8	67.1	47.1	46.2	40.7	34.3
A/P days 應付帳款天數	57.9	54.2	81.5	60.8	56.8	59.0	60.5
Cash conversion days 現金週轉天數	80.3	96.9	98.3	74.1	78.2	76.9	71.9
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	287,758
ROE 股東權益報酬率	18.7%	12.0%	12.3%	19.7%	12.7%	12.5%	13.6%

＊ 2013Q3 ROE is annualized.

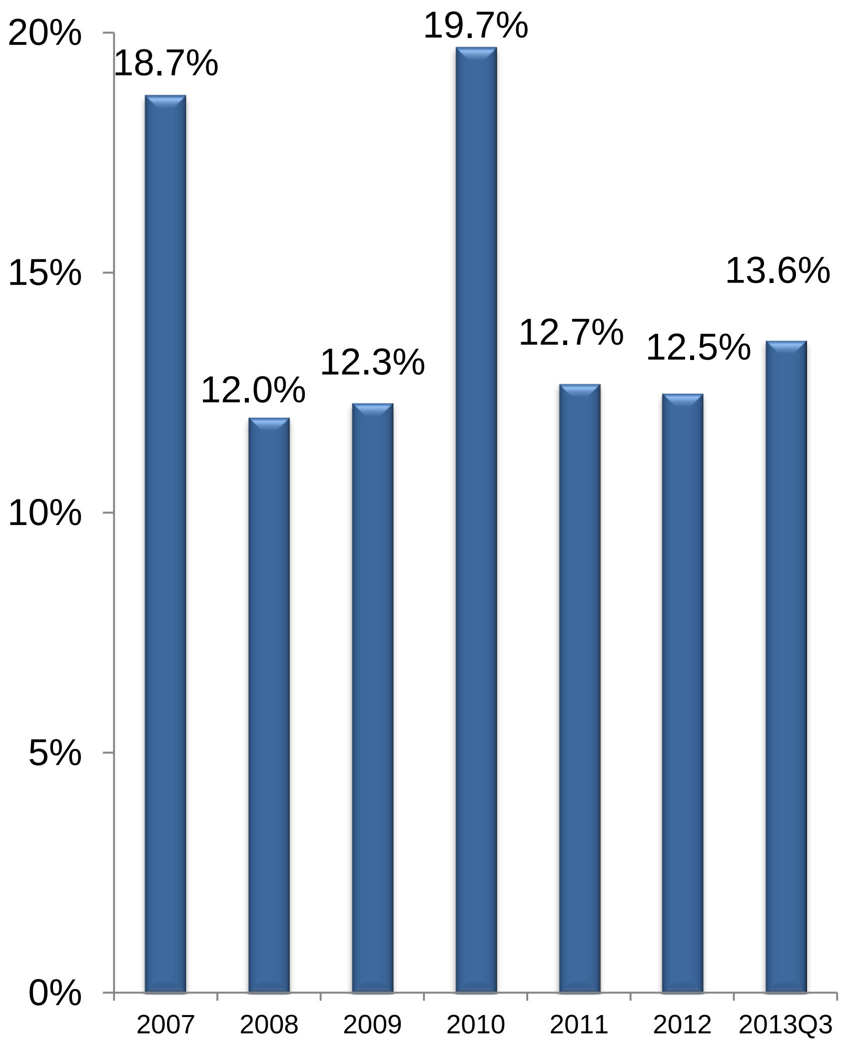
Shareholder Returns Trend 股東投資報酬

Dividend Policy 股利政策



＊ **Dividends are distribution of prior year's earnings.**

ROE 股東權益報酬率



＊ **2013Q3 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.

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2012 Long Term Investments 長期投資收益

Unit: NT$ thousand

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

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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