

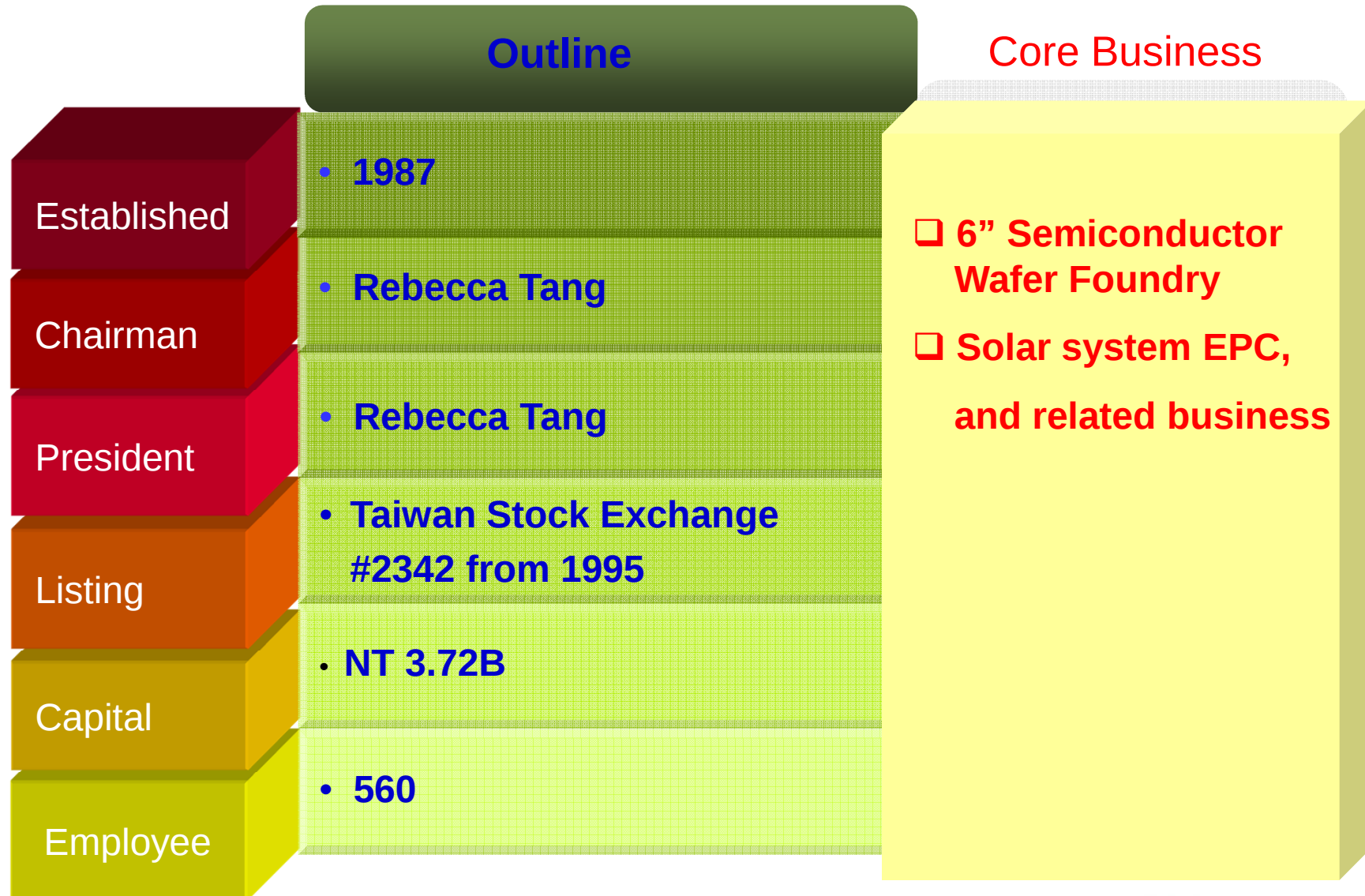


Mosel Vitelic Inc. Company Introduction

台灣茂矽電子股份有限公司
公司簡介

March 20, 2017

About MVI 關於茂矽



MVI - IC Foundry Production 茂矽晶圓廠介紹

Fab Area:

Production area: 4900m²

Supporting area: 2400m²

Clean room control:

Operation area: 0.1um, class 10

Maintenance area: 0.1um, class 100

Capacity:

6in: 57000 wafers per month



Summary 經營現況總結

- 茂矽在晶圓代工業能見度逐漸攀升，產能供不應求，毛利率改善許多，**營運也終於由虧轉盈**。

Customers' demand is over current capacity, gross margin improved significantly and become profitable.

- 晶圓代工，除了Trench MOS，亦開發獨特溝槽蕭特基(Trench Schottky)，廣為客戶好評，提升產能稼動率。

Unique Trench Schottky process was widely acknowledged and approved by our customer and therefore, fab. utilization is greatly improved.

感謝經濟部技術處之指導，車用 IGBT 科專計畫研發成果優異，獲得肯定，性能優越的IGBT solutions 吸引國內外系統廠商進行新產品試產。

Thanks to the guidance of the Technical Department of the Ministry of Economic Affairs. Superior performance of IGBT solution has attracted many domestic and foreign system manufacturers to have pilot runs in Mosel.

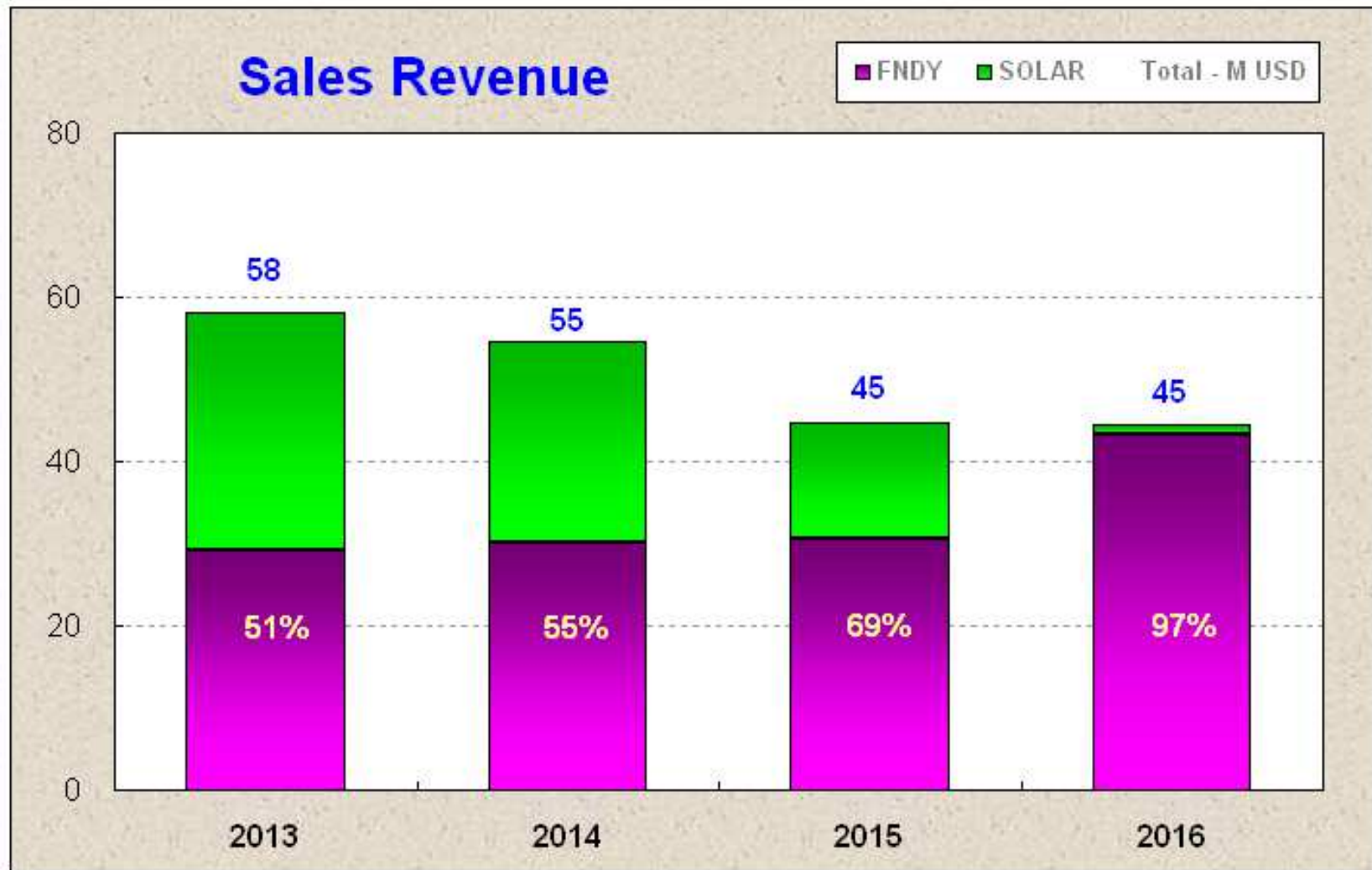
由消費性領域跨入工業及車用領域，並往高密度電源與系統保護裝置之技術發展。

Strategy to move products from consumer areas into the field of industrial and automotive applications; and will focus to develop the technologies on high-density power management and system protection devices.

- 持續尋求新資金與技術伙伴，目前數家投資團隊與茂矽洽談投資合作，共同開發下一世代產品。

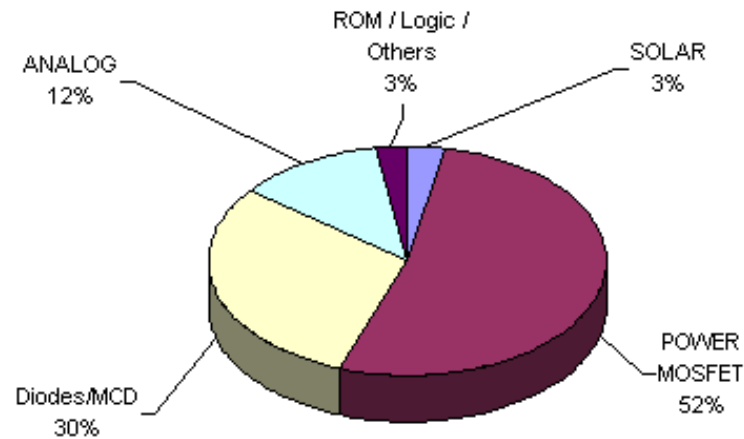
Continue discussion with potential partners on finance investment and technical cooperation for next generation products.

MVI Sales History 茂矽歷年銷售金額

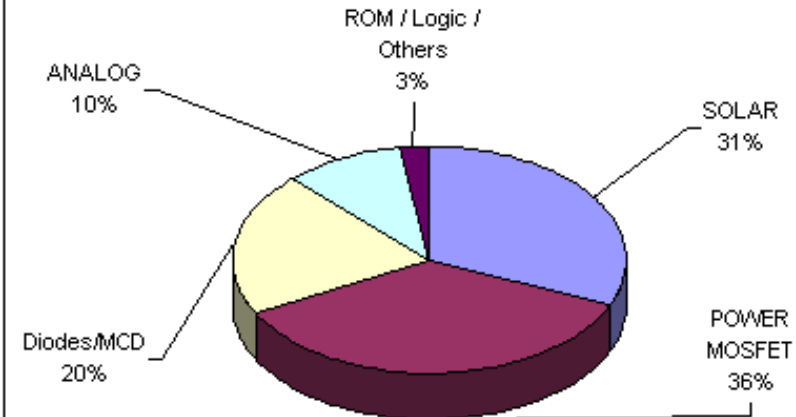


MVI Revenue Breakdown 茂矽營收比重

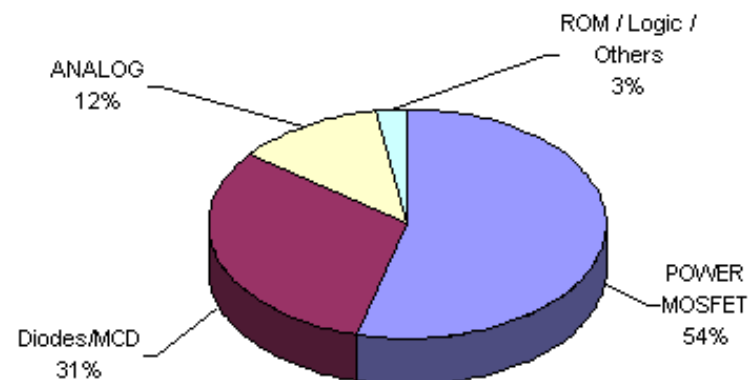
2016 Mosel Revenue Breakdown



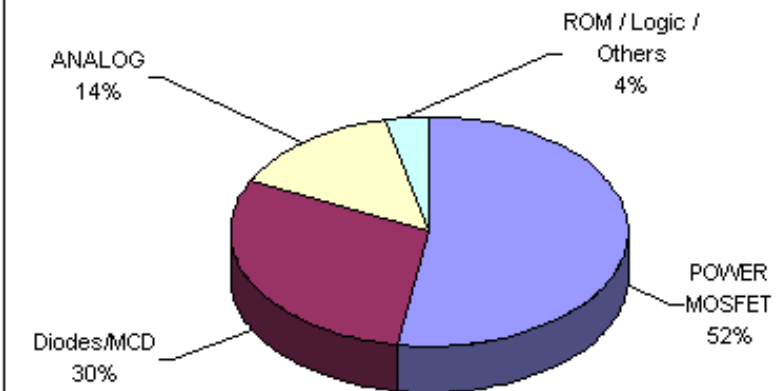
2015 Mosel Revenue Breakdown



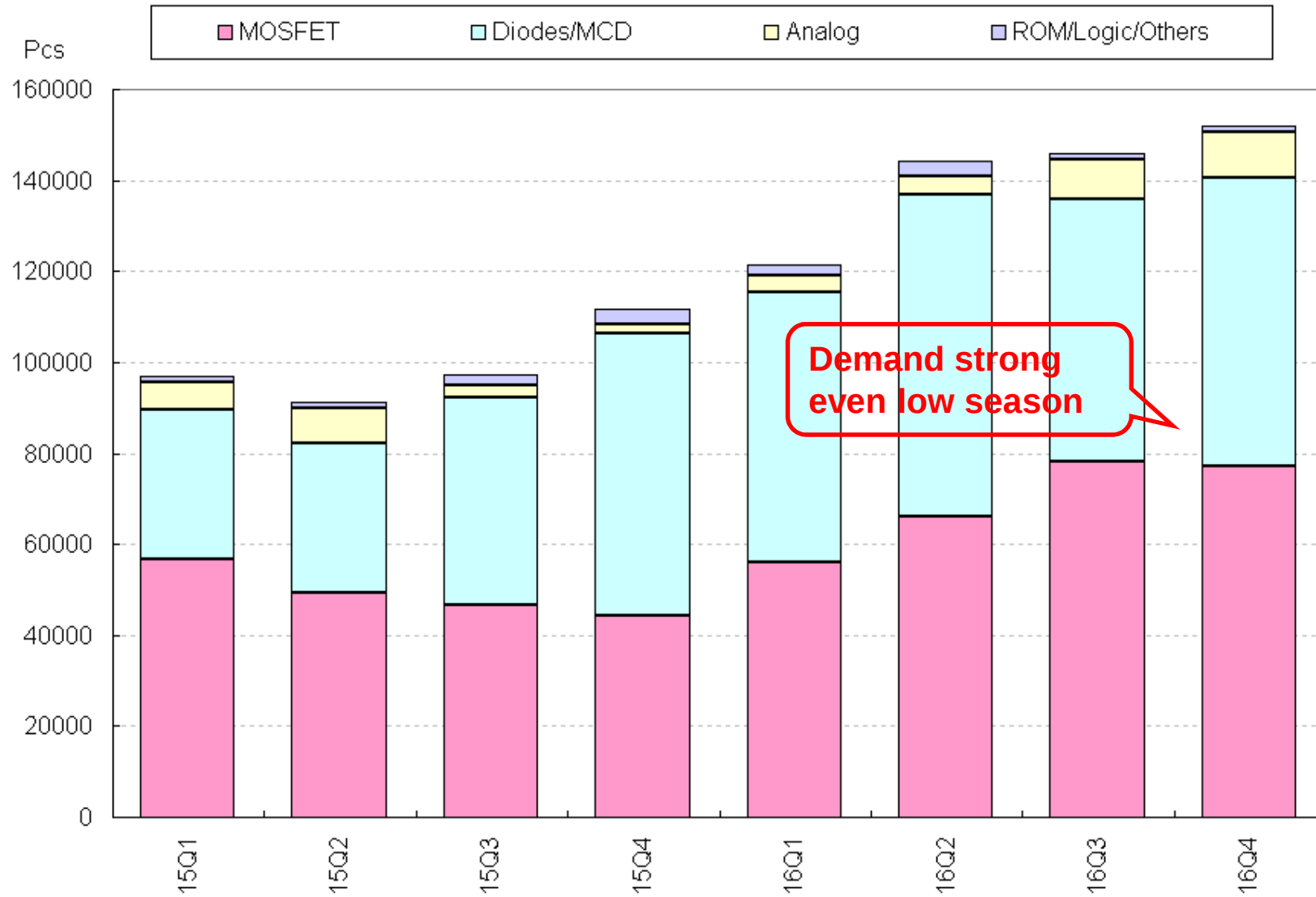
2016 Mosel Wafer Foundry Revenue Breakdown



2015 Mosel Wafer Foundry Revenue Breakdown



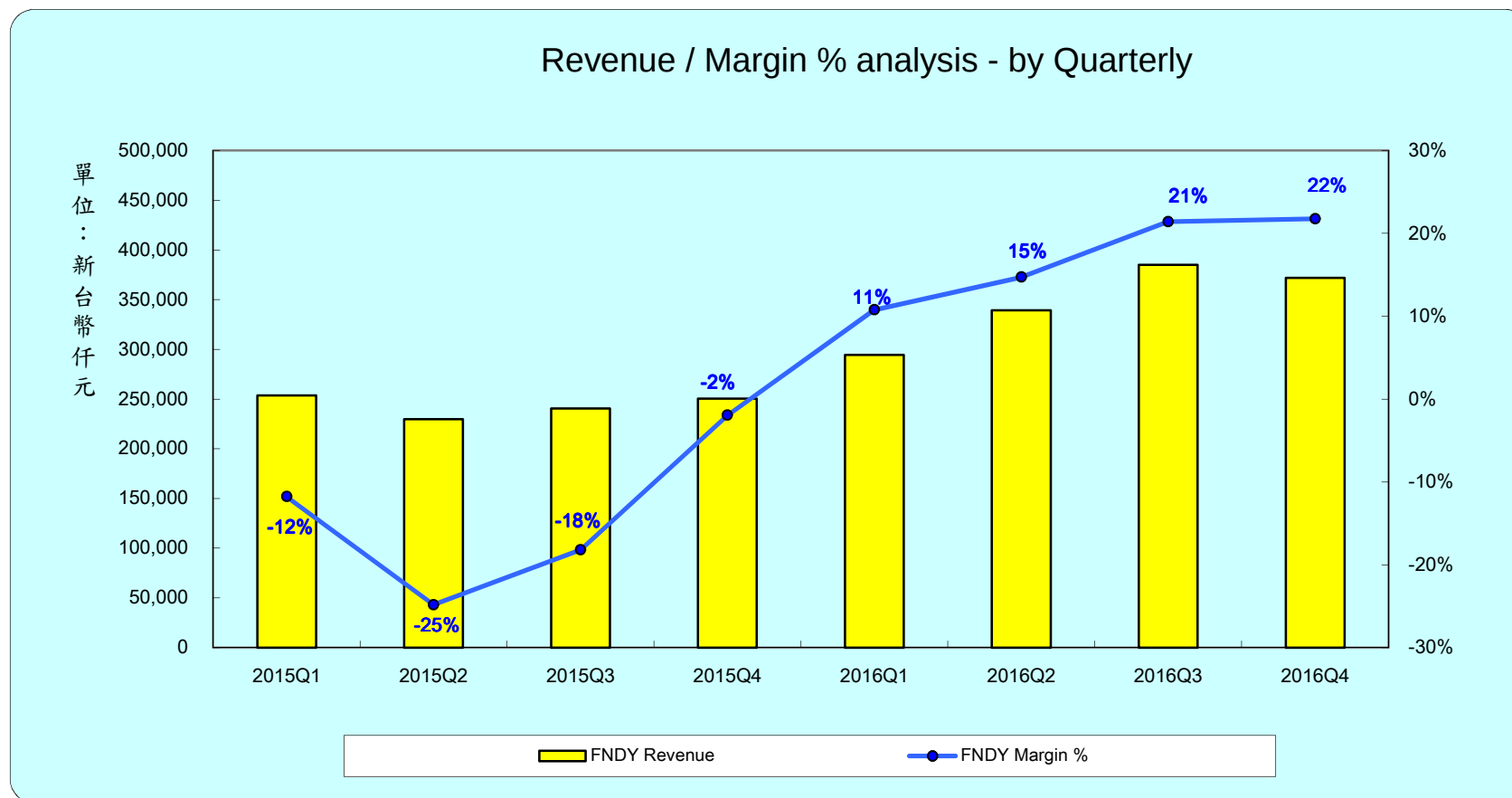
Wafer Foundry Output Trend 晶圓製造產出數量



Business Status: Gross Margin is Positive

8

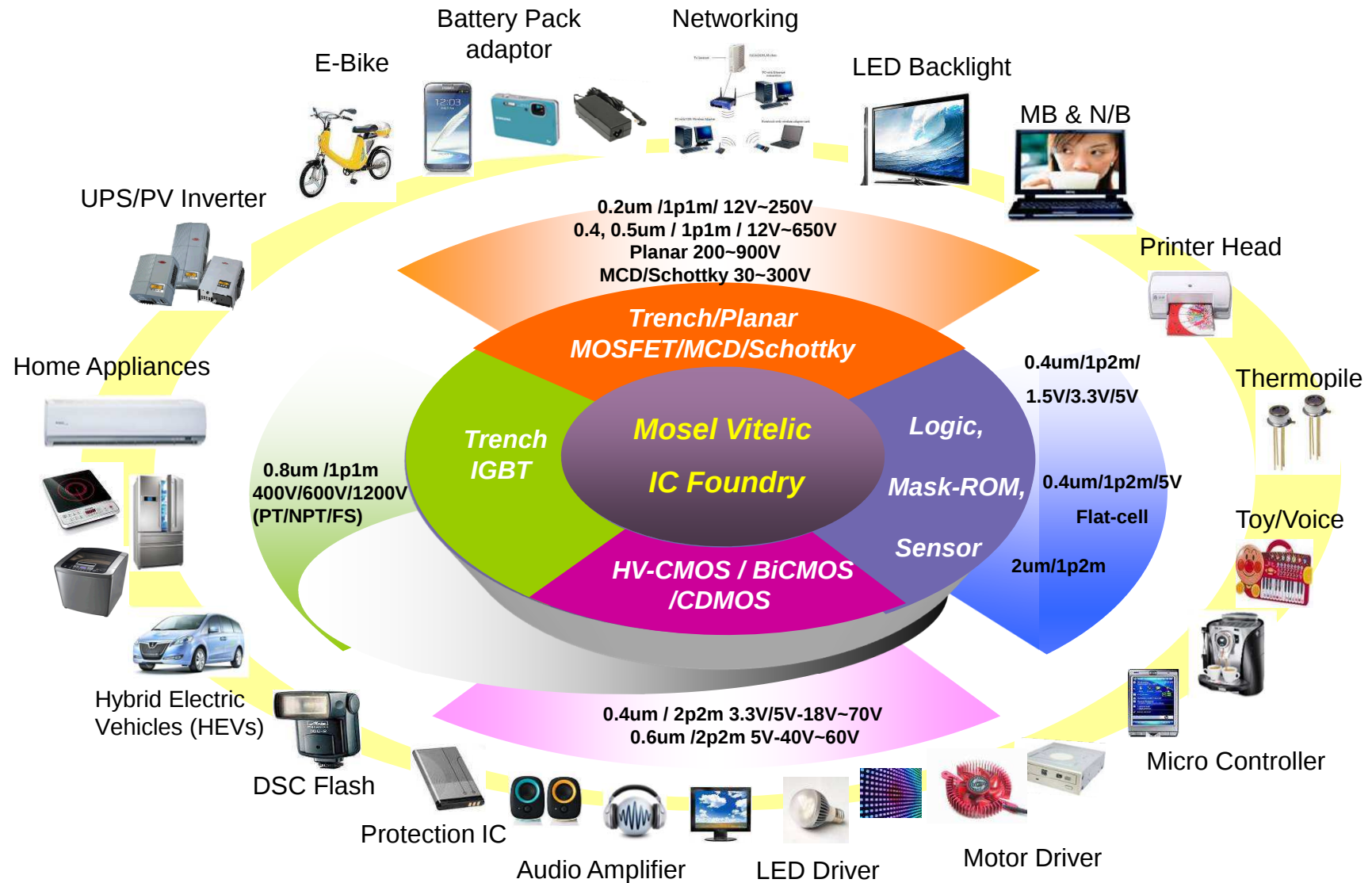
茂矽營運現況：營業毛利已由負轉正！



YTD-2015	Revenue	Revenue%	Margin	Margin%	YTD-2016	Revenue	Revenue%	Margin	Margin%
FNDY	974,324	69%	(135,723)	-14%	FNDY	1,390,719	97%	244,975	18%

備註：2016年數字為公司自結數

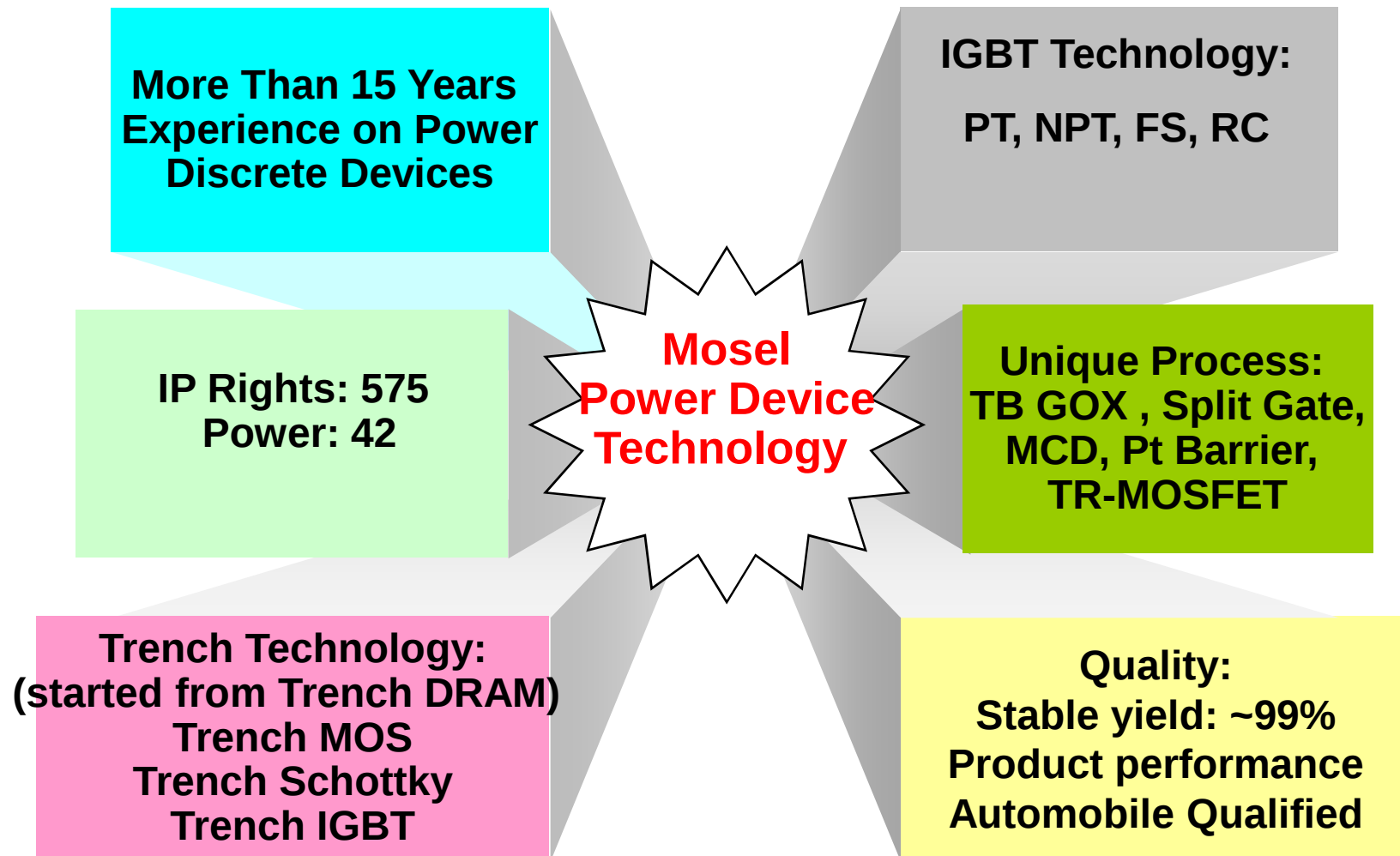
Wafer Foundry Business 晶圓製造業務



Mosel Power Device Technology History

11

茂矽功率元件技術發展歷程



Government Project : Power FS-IGBT of EV Technology

12

科專計畫：綠能車用高功率 IGBT 元件技術開發

茂矽成功主導科專計畫，開發出國內第一顆應用於電動車馬達驅動之高功率IGBT元件，達成實車道路測試無中斷之計畫目標

Mosel FS-IGBT 1200V/150A



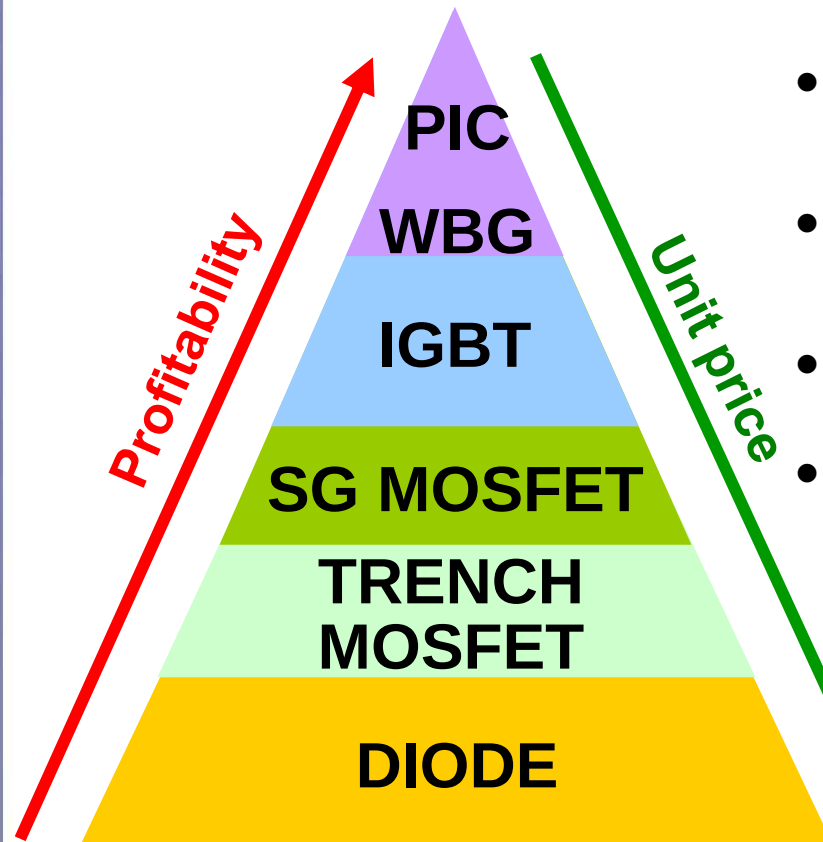
NPIE Achievements Exhibition - IGBT

NPIE 智慧電子國家型科技計畫－車用 IGBT

13



Product Strategy 產品佈局與發展方向



- 繼續耕耘IGBT

Continue to develop IGBT technology.

- 開發利基型高效能之製程平台

Develop niche-based and high-performance process platforms

- 往工業及車用電子之領域發展

Develop technologies for industrial and automotive applications.

- 佈局下世代寬能隙功率半導體元件

Have a strategic plan on next generation wide-band-gap power devices

Thank You !

Q and A !