



台灣茂矽電子股份有限公司

Investor **R**elation Presentation

March 16, 2022

POWER saving by MVI

風險聲明

Risk Disclosures Statement

This presentation material contains certain forward-looking statements that are based on current expectations and are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements.

- 2021營運成果 唐亦仙 董事長暨總經理
- 產品及產能規劃 鄧志達 副總經理暨發言人
- 問與答

營運結果摘要

單位：新台幣 百萬元

	110年12月31日	109年12月31日
	金額	金額
營業收入淨額	1,952	1,846
淨利(損)	248	220
每股盈餘(元)	1.58	1.42
現金及約當現金	479	635
權益	2,337	2,178
出貨片數(仟片)	614	600

簡明綜合損益表-年度比較

單位：新台幣 百萬元

	110年度		109年度		年差異
	金額	%	金額	%	%
營業收入淨額	1,952	100.0	1,846	100.0	5.7
營業成本	(1,462)	(74.9)	(1,427)	(77.3)	2.5
營業毛利	490	25.1	419	22.7	16.9
營業費用	(229)	(11.7)	(200)	(10.9)	14.3
營業淨利	261	13.4	219	11.8	19.3
資產評價(損失)利益	(2)	0.0	49	2.7	(104.1)
其他淨營業外支出	(11)	(0.7)	(48)	(2.6)	77.1
稅前淨利	248	12.7	220	11.9	12.8
本期淨利	248	12.7	220	11.9	12.8
每股盈餘(元)	1.58		1.42		

簡明資產負債表-年度比較

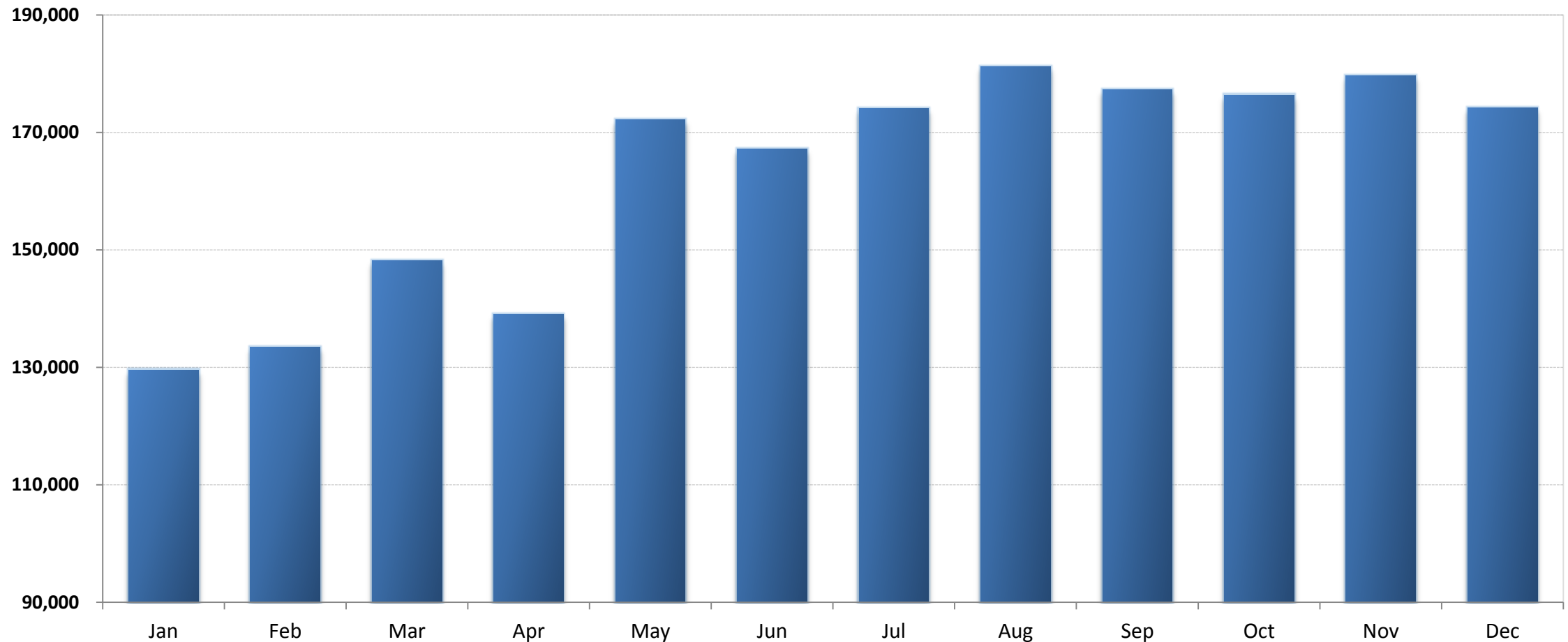
單位：新台幣 百萬元	110年12月31日		109年12月31日	
	金額	%	金額	%
總資產	3,912	100.0	2,963	100.0
現金及約當現金	479	12.2	635	21.4
應收票據及帳款	344	8.8	287	9.7
存貨	209	5.4	210	7.1
流動資產	2,880	73.6	1,523	51.4
不動產、廠房及設備	430	11.0	310	10.5
使用權資產	321	8.2	333	11.3
應付票據及帳款	178	4.6	168	5.7
應付費用及其他	526	13.4	218	7.4
流動負債	704	18.0	386	13.0
權益總計	2,337	59.7	2,178	73.5
每股淨值(元)	14.82		13.82	

Monthly Sales

2021年每月營收表現

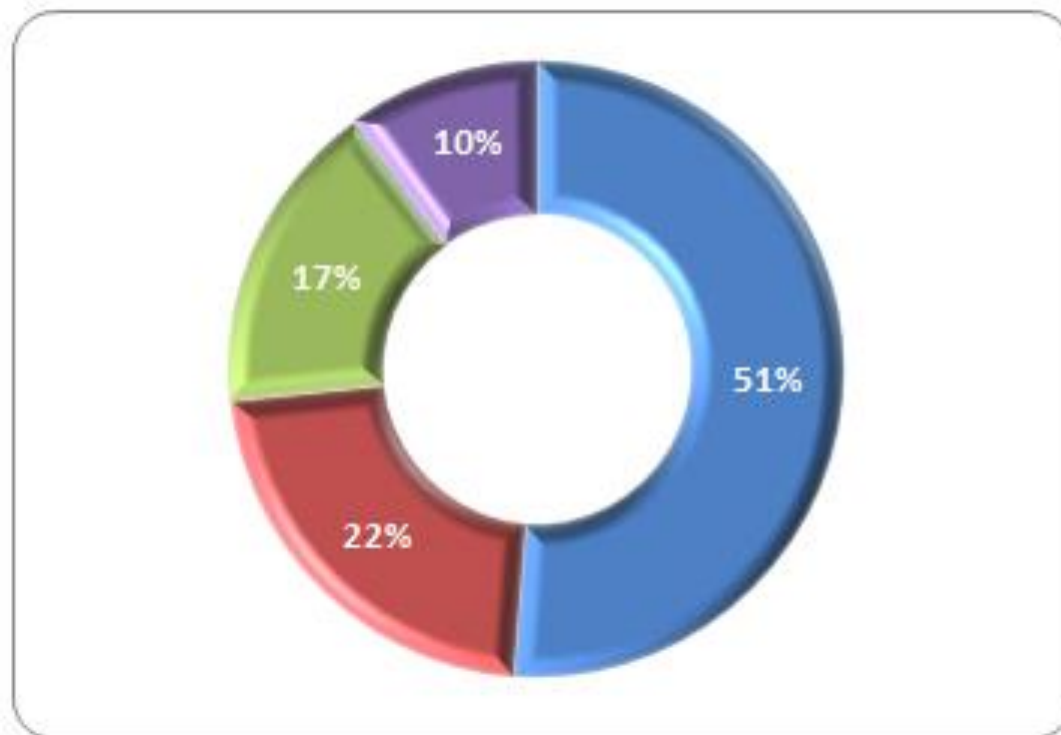


Unit : in thousands

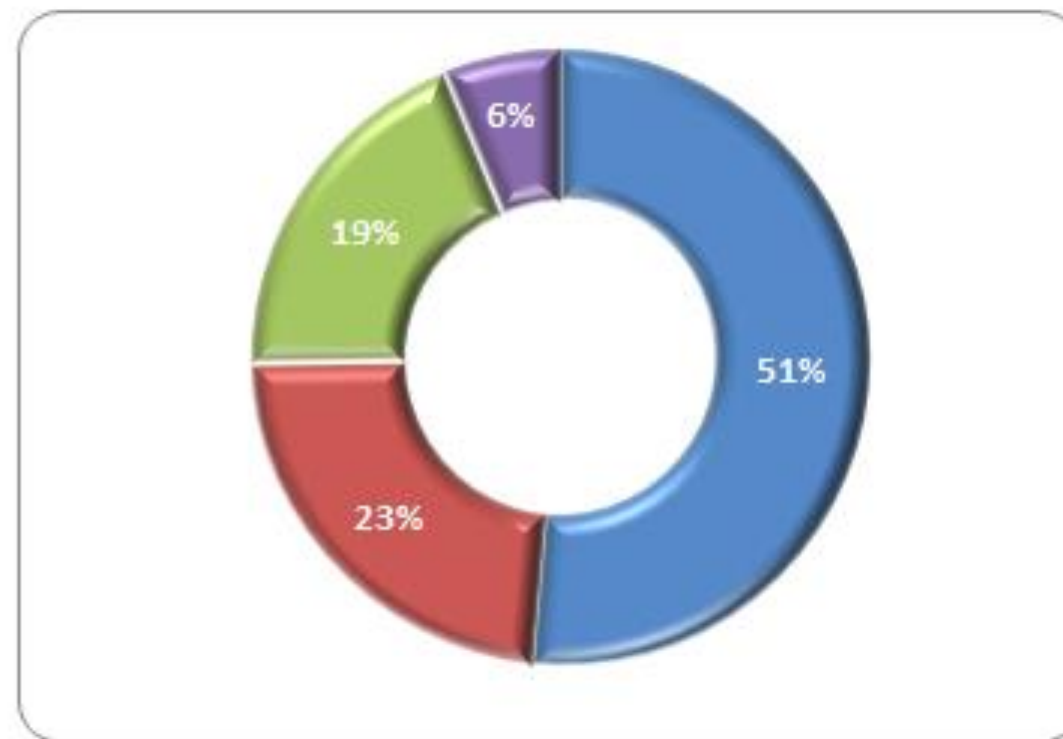


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Y2020



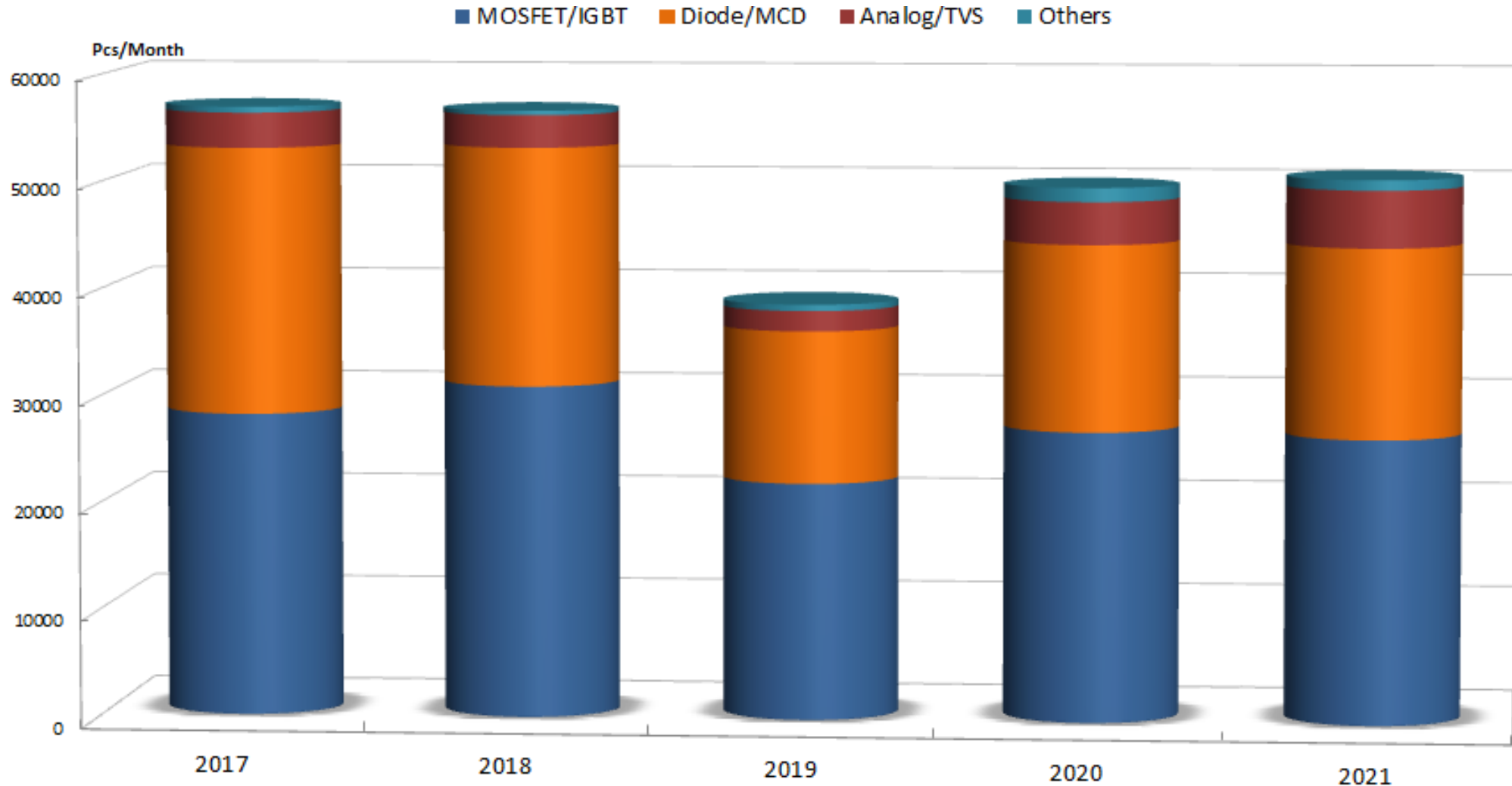
Y2021



■ MOSFET/IGBT ■ Diode/MCD ■ Analog/TVS ■ Others

Wafer Foundry Output Trend (average per month)

平均每月晶圓製造產出數量

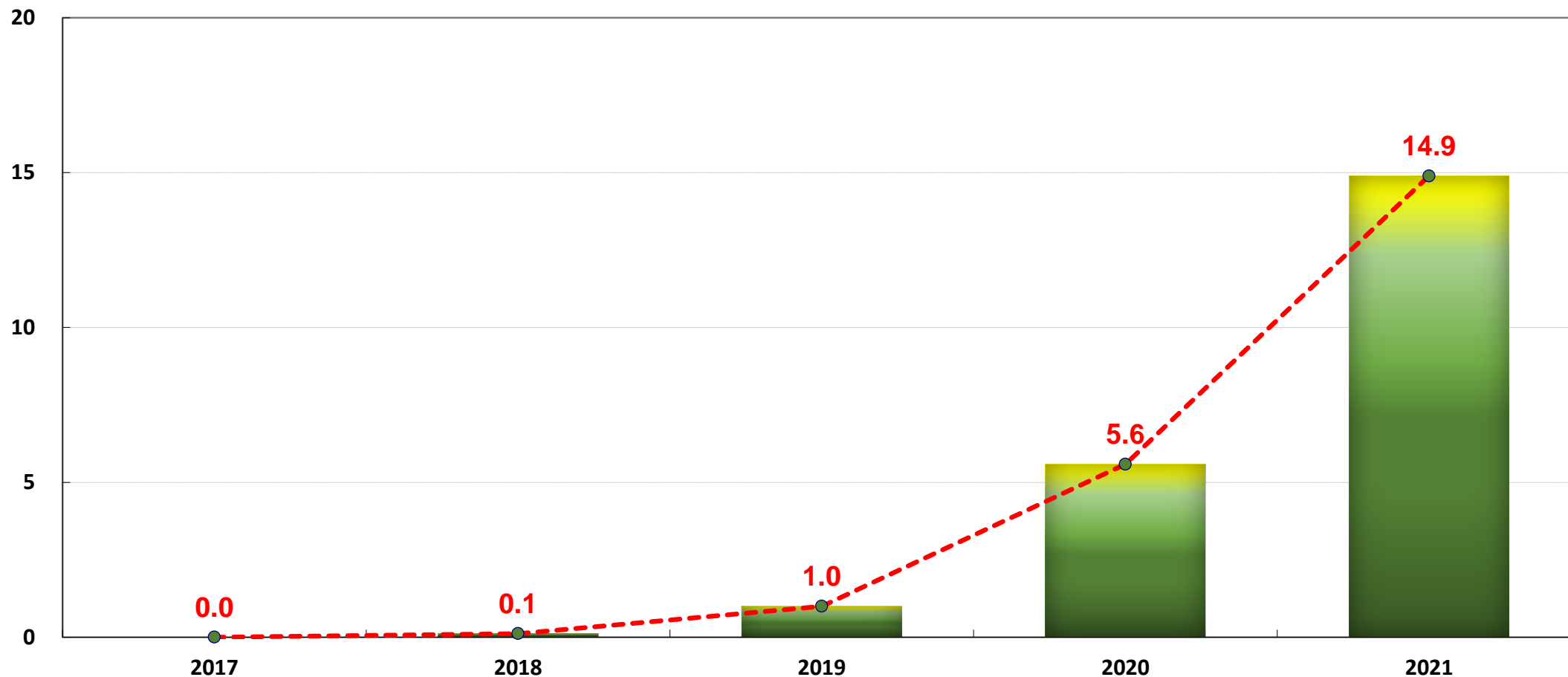


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MVI IGBT Products Shipping Trend

IGBT產品出貨比

Ratio with Baseline Y2019



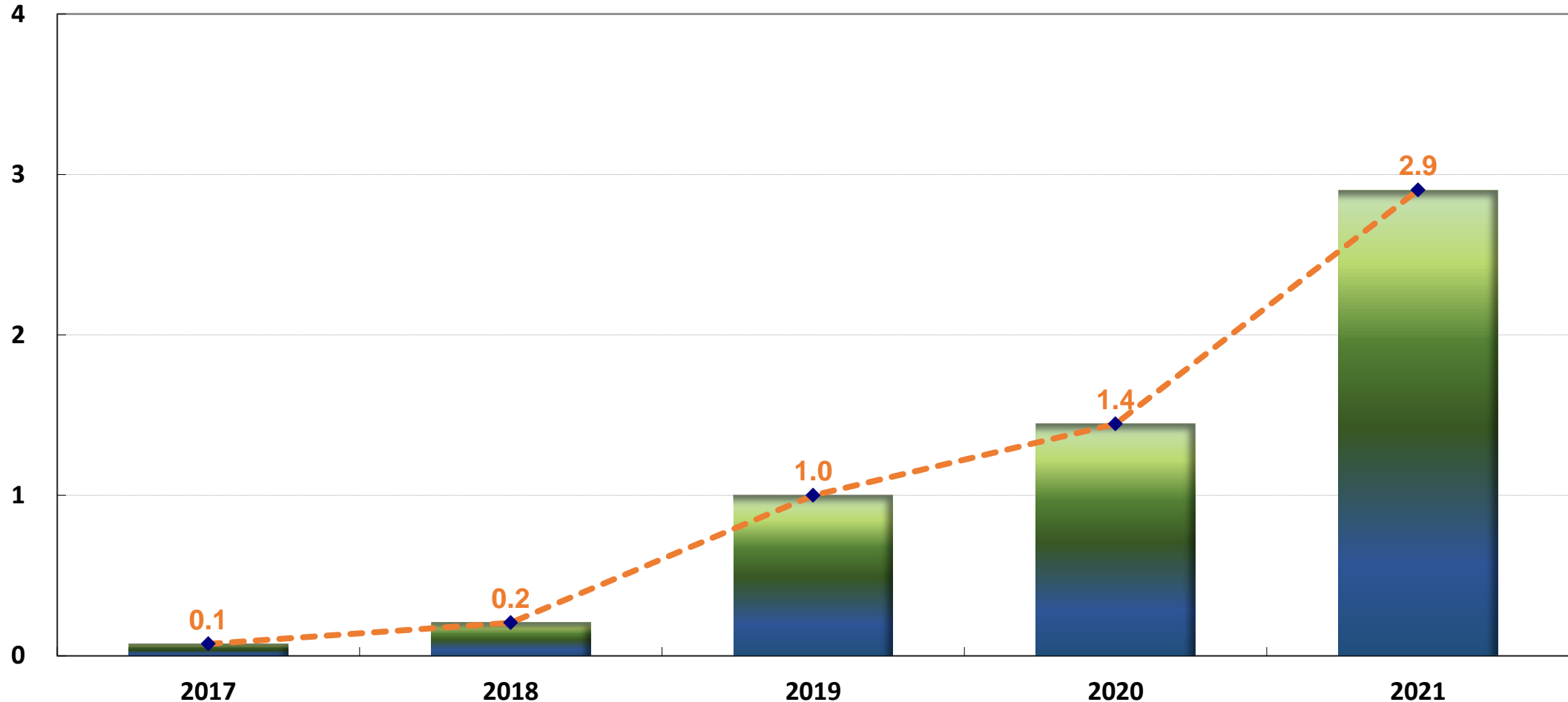
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MVI Automobile Products Shipping Trend

茂矽車用產品出貨數量



Ratio with Baseline Y2019



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IGBT and FRED Products Overview

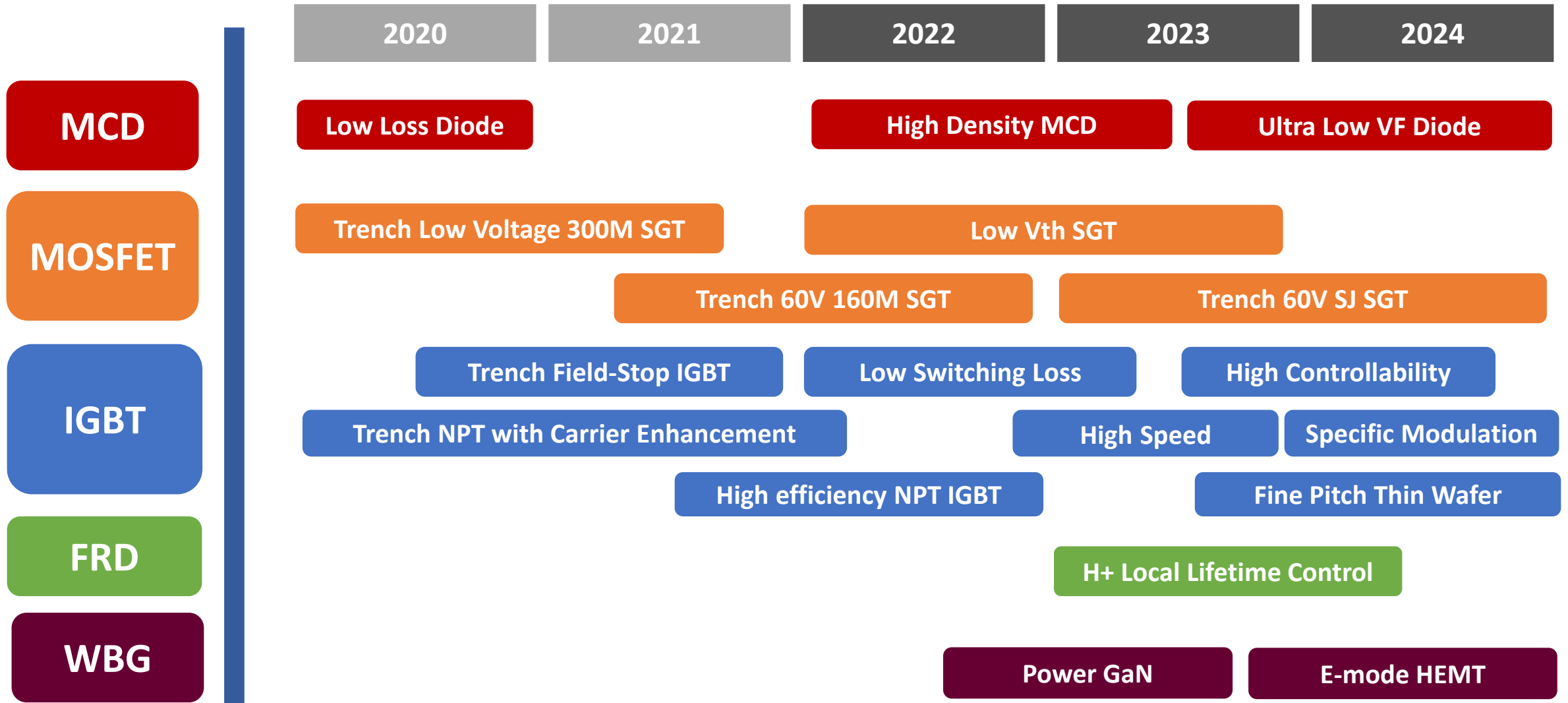


產品一覽表

Technology	Voltage Rating (V)	Current Rating (A)	Availability
Trench NPT	650	10	Production
Trench NPT	650	12	Production
Trench NPT	650	15	Production
Trench NPT	650	20	Production
Trench NPT	650	25	Production
Trench NPT	650	35	Production
Trench NPT	650	70	Production
Trench NPT	1200	10	Production
Trench NPT	1200	20	Production
Trench NPT	1200	25	Production
Trench NPT	1200	30	Production
Trench NPT	1200	50	Production
Trench NPT	1200	90	Released
Trench FS	1200	15	Under qualification
Trench FS	1200	25	Under qualification
Trench FS	1200	45	Under qualification

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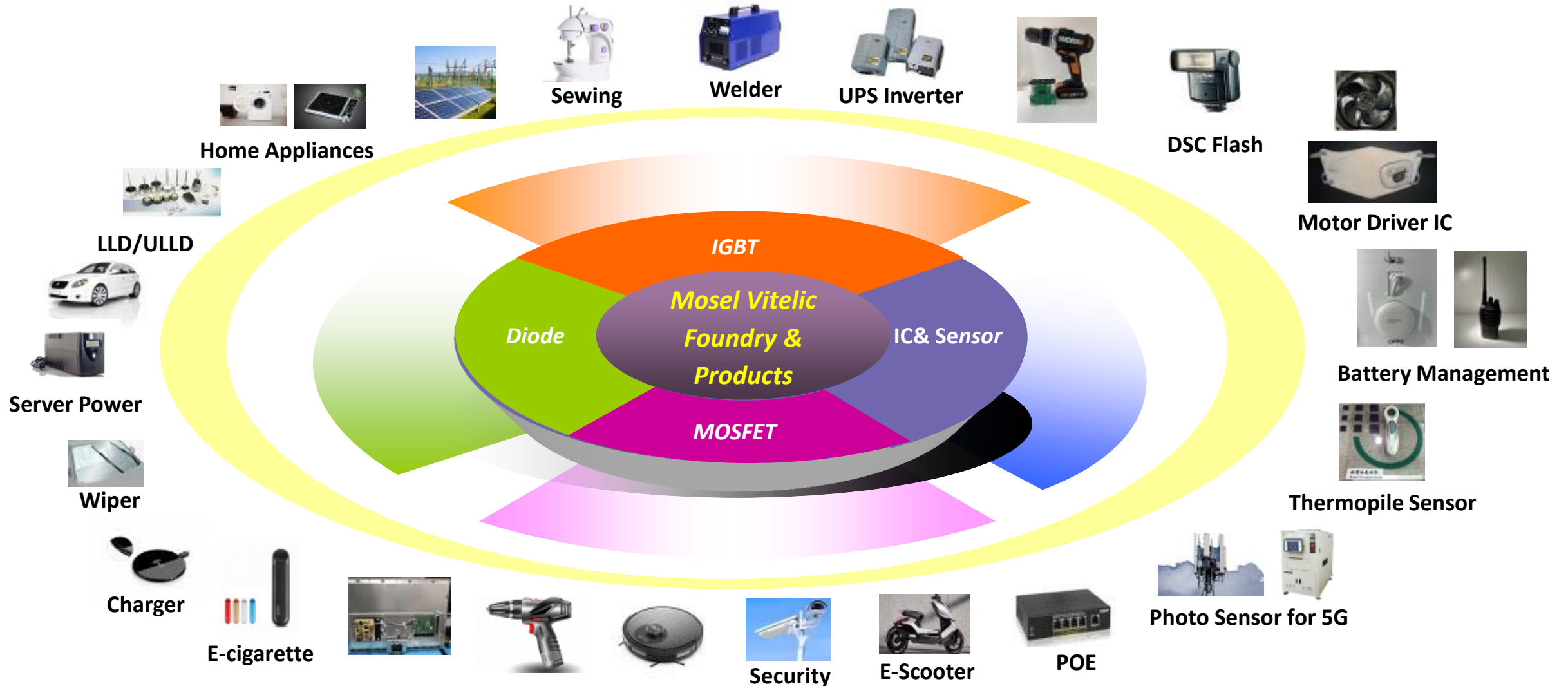
Mosel Power Device Technology Roadmap



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Products Application

產品應用



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攻佔車用、工業及高端 MOSFET應用市場

Continuous growth in AUTOMOTIVE , INDUSTRIAL and HIGH END MOSFET Markets

- 2021年車用產品出貨量突破20%，2022年持續成長，目標挑戰25%

In 2021, with continuous growth in automotive products, the proportion of shipment has exceeded 20%.
in 2022, target 25% annual shipment from automotive applications and products.

- 工業用600-1200V NPT IGBT產品出貨穩定；1200V FS IGBT完成產品性能初步驗證，元件效能與可靠度持續優化中

Continuous growth in 600-1200V NPT IGBT products shipment for industrial applications.
Strengthen the performance of 1200V FS IGBT, and the product is undergoing final qualification.

- 2021年白金二極體停產並進行產能置換，預計2022 Q4重新安排建置總產能56K/月，並持續關注GaN/SiC的製程技術開發

Stop Pt process and products in 2021Q4, re-layout and expansion the capacity to 56K/M.
Keep to study Power GaN and SiC Technology Platforms with customers .

Thank You !

Q and A !