

AllRing Tech

Presented by Allring



Chiende Lee
Tel:+886-7-6071828



lee@allring-tech.com.tw

About Us

Establish

May 24. 1996

Chairman

Larry Lu

Capital

833 Million

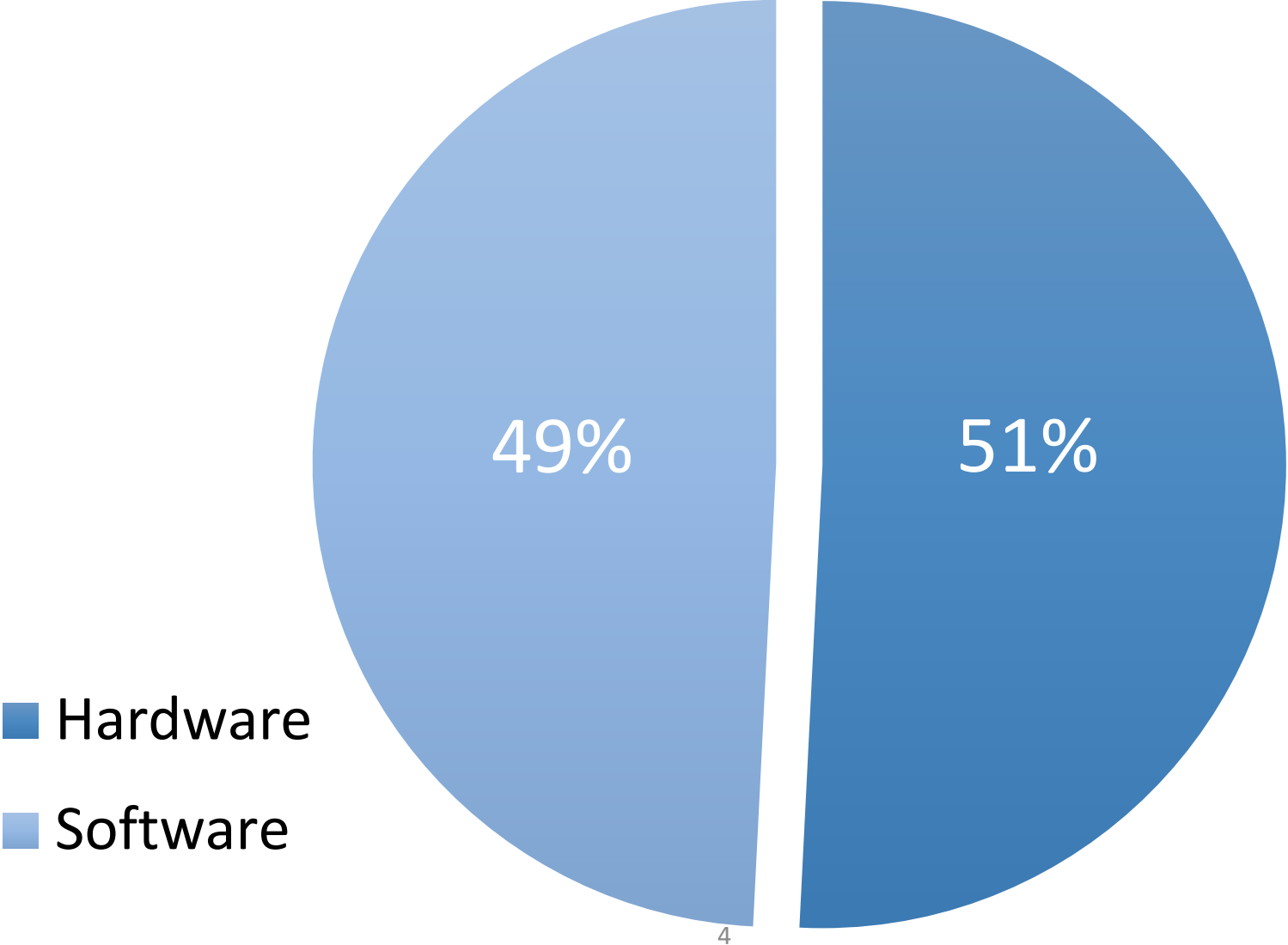
Business

Automation equipment supplier for
Semiconductor test & package, Passive Component
manufacturing industries

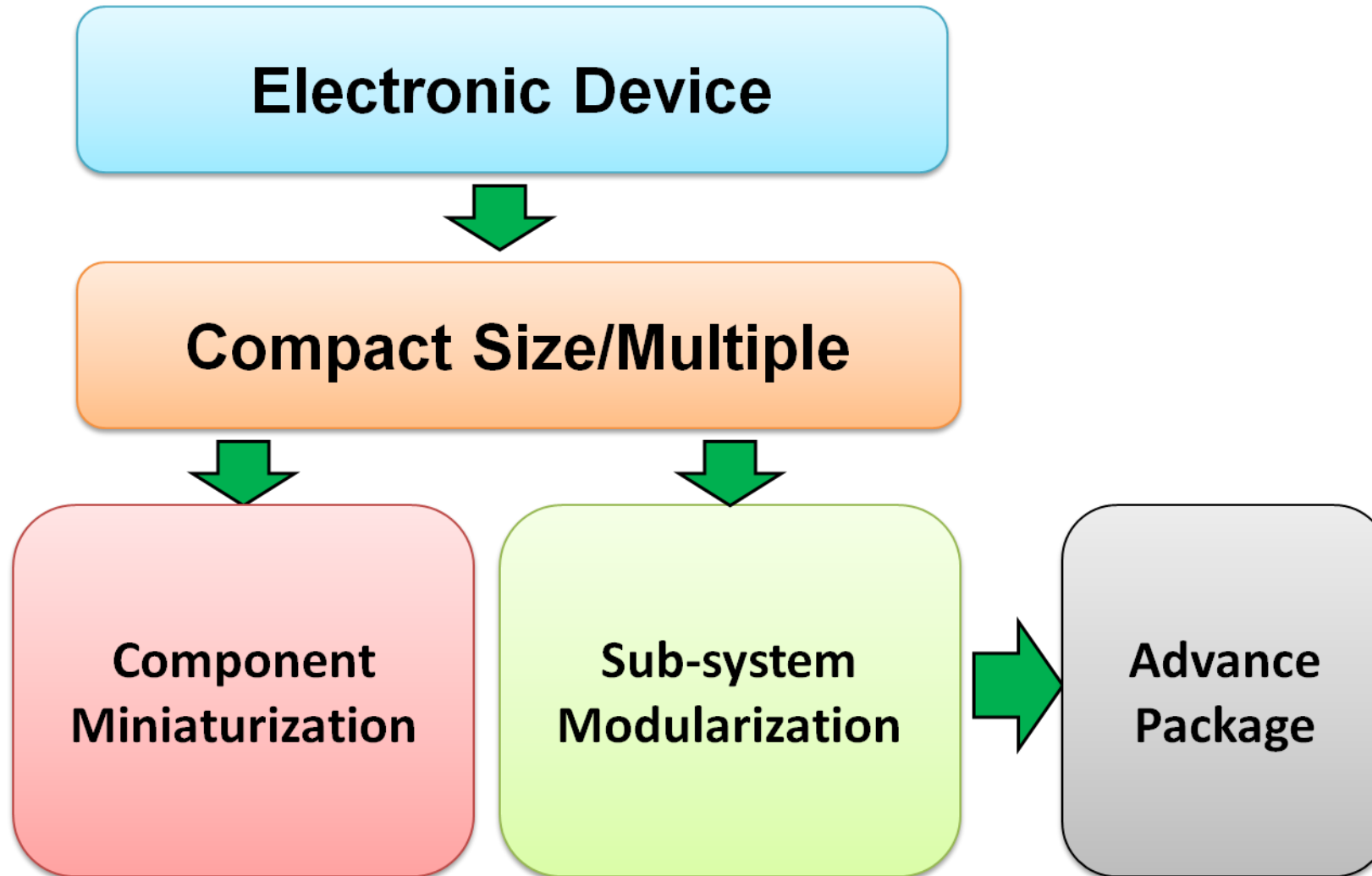
Human Resource Distribution

60%
R&D

Human Resource Distribution



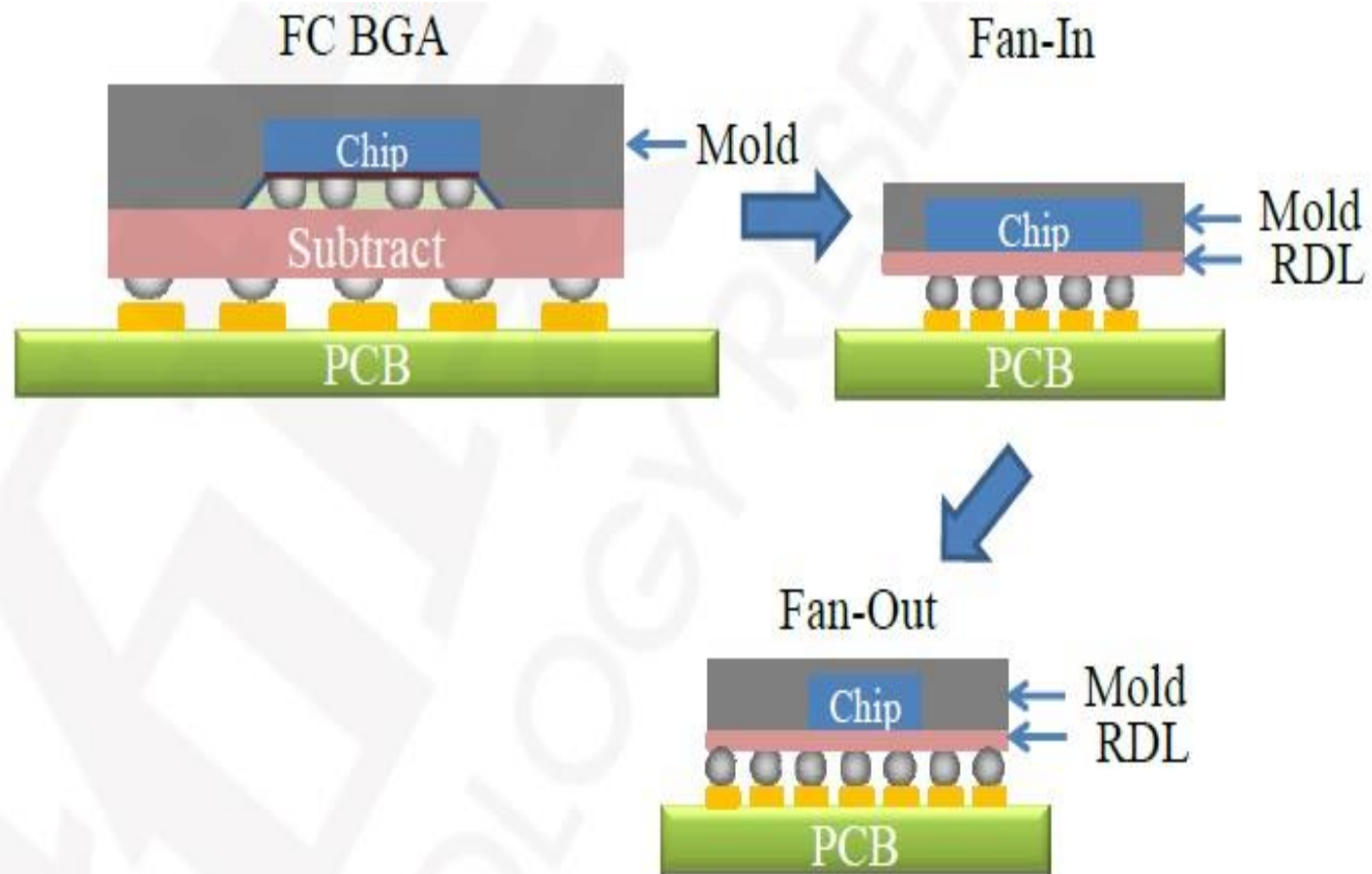
Industry Overview



Advance Package

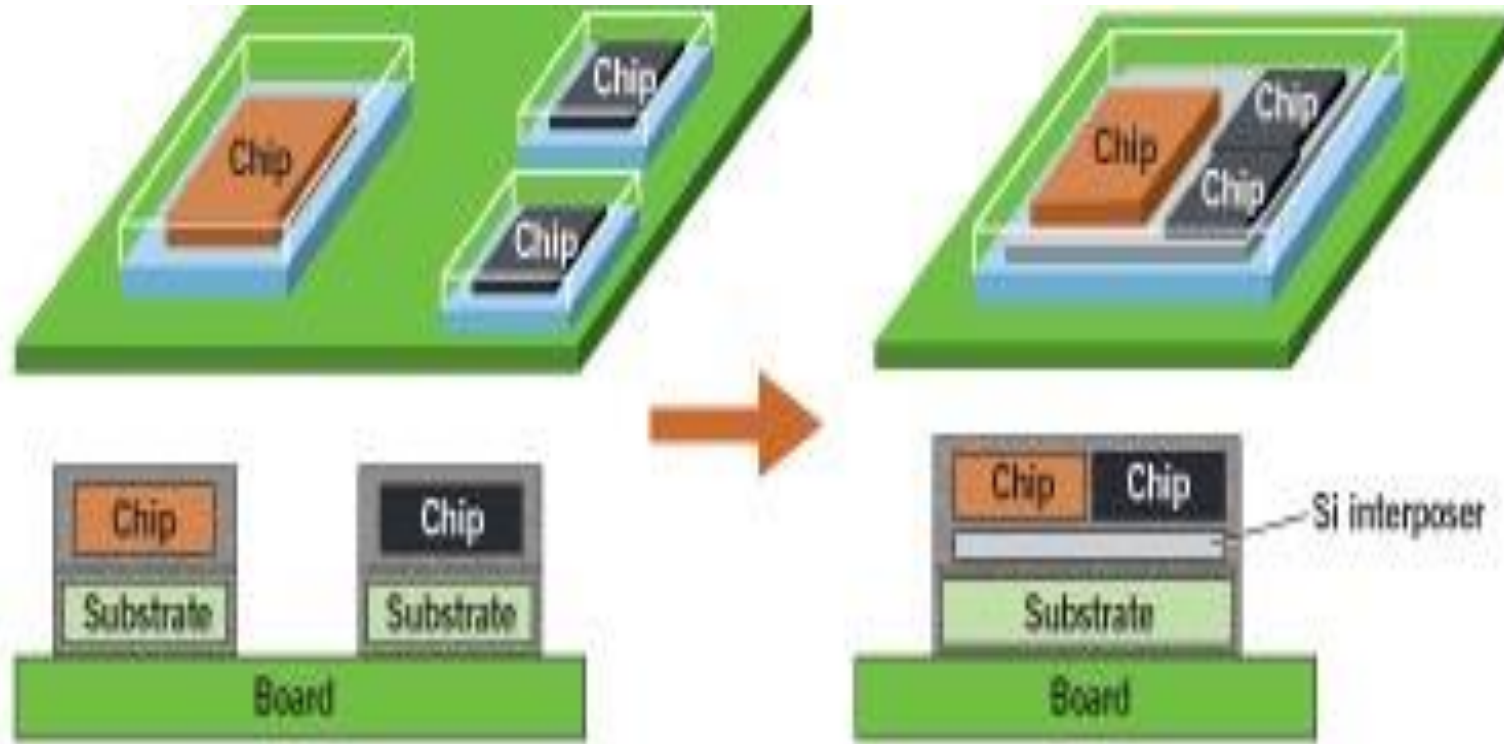
Packaging Type		Manufacturer		Application
SIP (system in package)		OSAT	ASE	Smart phone IoT Mobile
			USI	
		Module house	Hon Hai	
			Luxshare	
		Component	AAC	
			AMS	
3D Package	InFO,CoWoS	Foundry	TSMC	Smart Phone IoT Mobile
	SoIC		TSMC	
Flip chip	2D/2.5D	OSAT	ASE	Smart Phone IoT Mobile
			Spil	
			Amkor	
			Chipbond	
			Powertech	

Flip-chip & wafer-level packaging

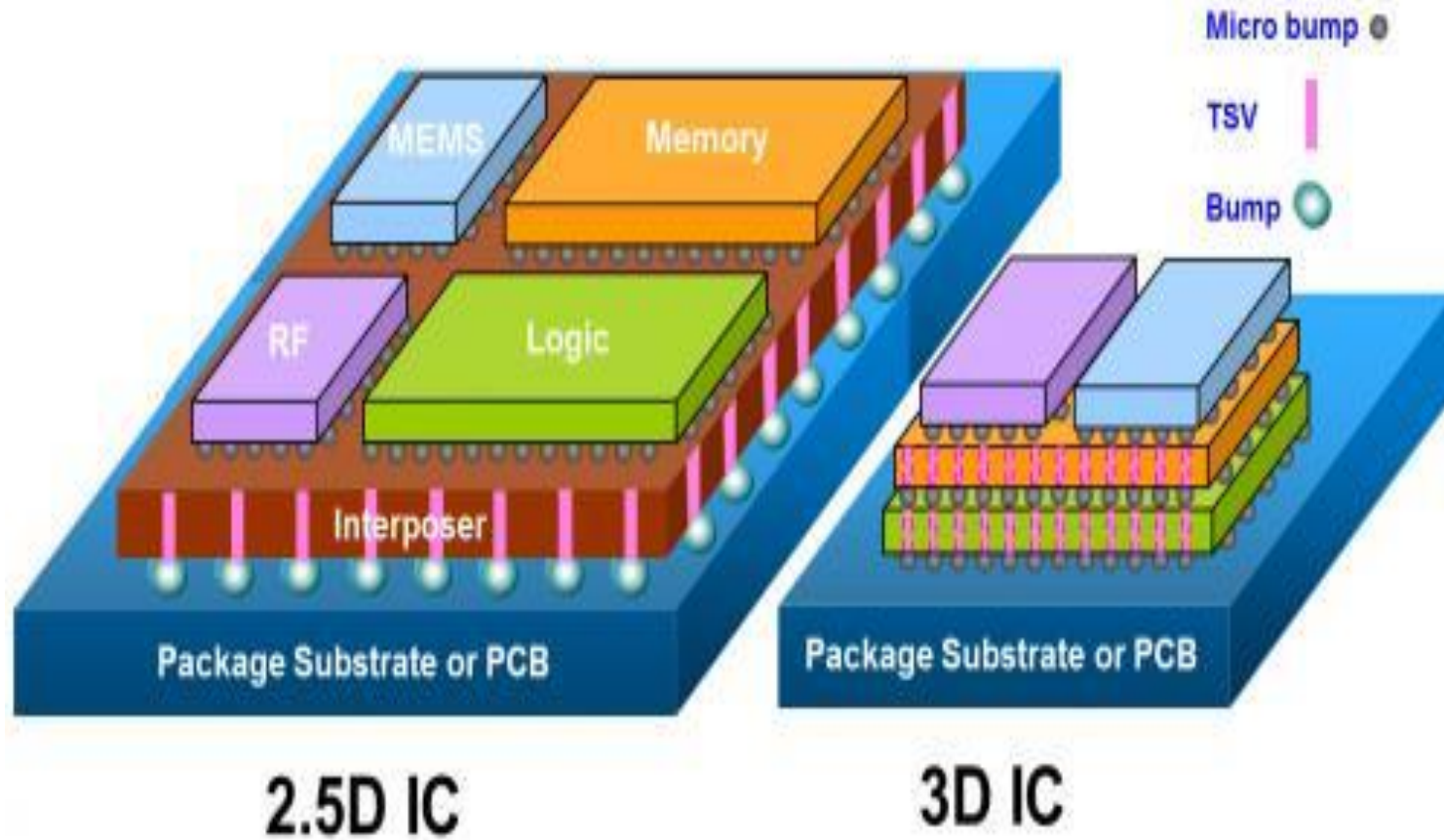


Source: TRI

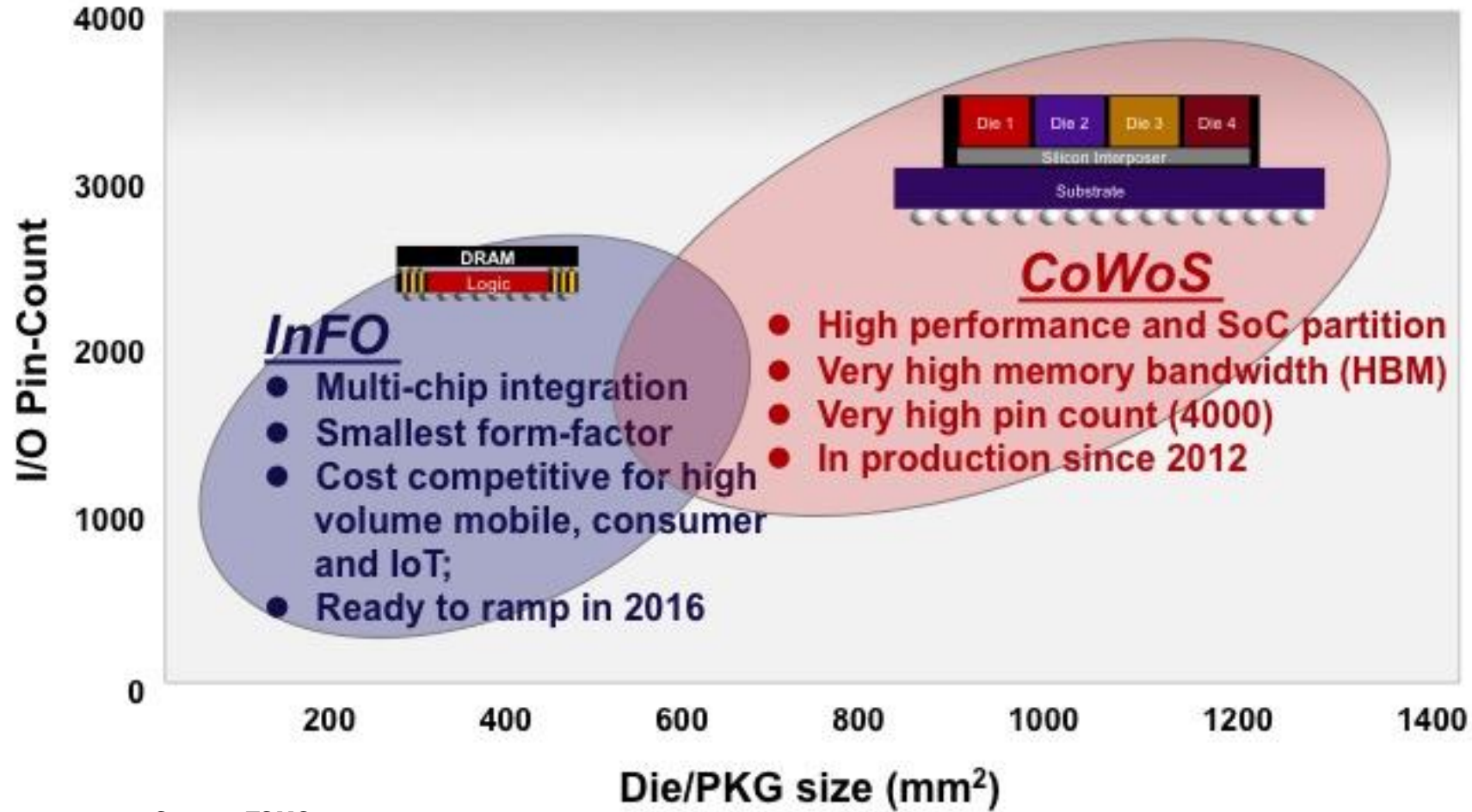
System in Package (SiP)



2.5D & 3D IC Packaging



TSMC's InFO & CoWoS



TSMC's 3D Fabric

TSMC 3DFabric™



SoIC: System on Integrated Chips



InFO: Integrated Fan-Out
CoWoS: Chip on Wafer on Substrate
RDL: Redistribution Layer
LSI: Local Si Interconnect

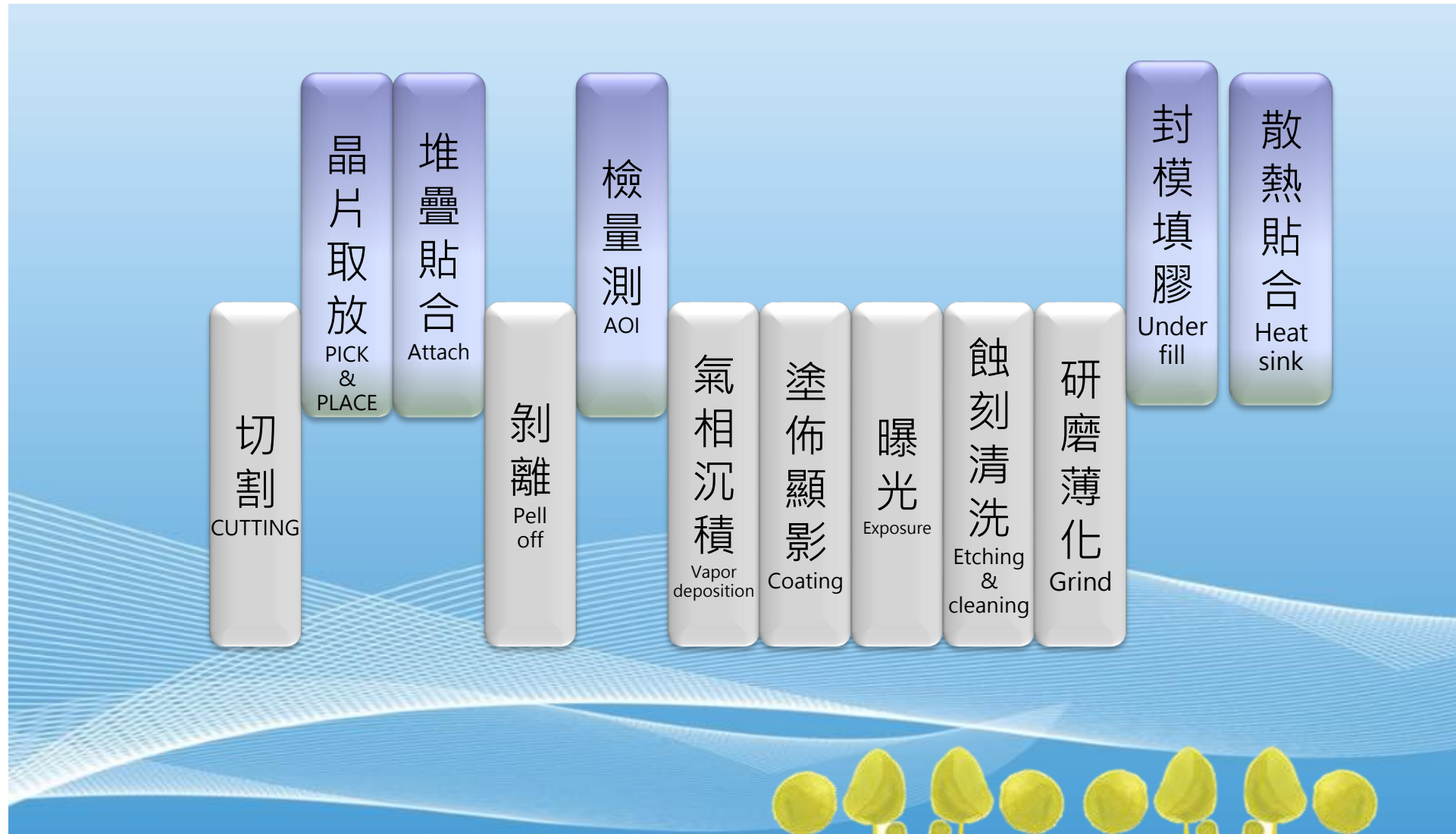
Source: TSMC

Advance Package

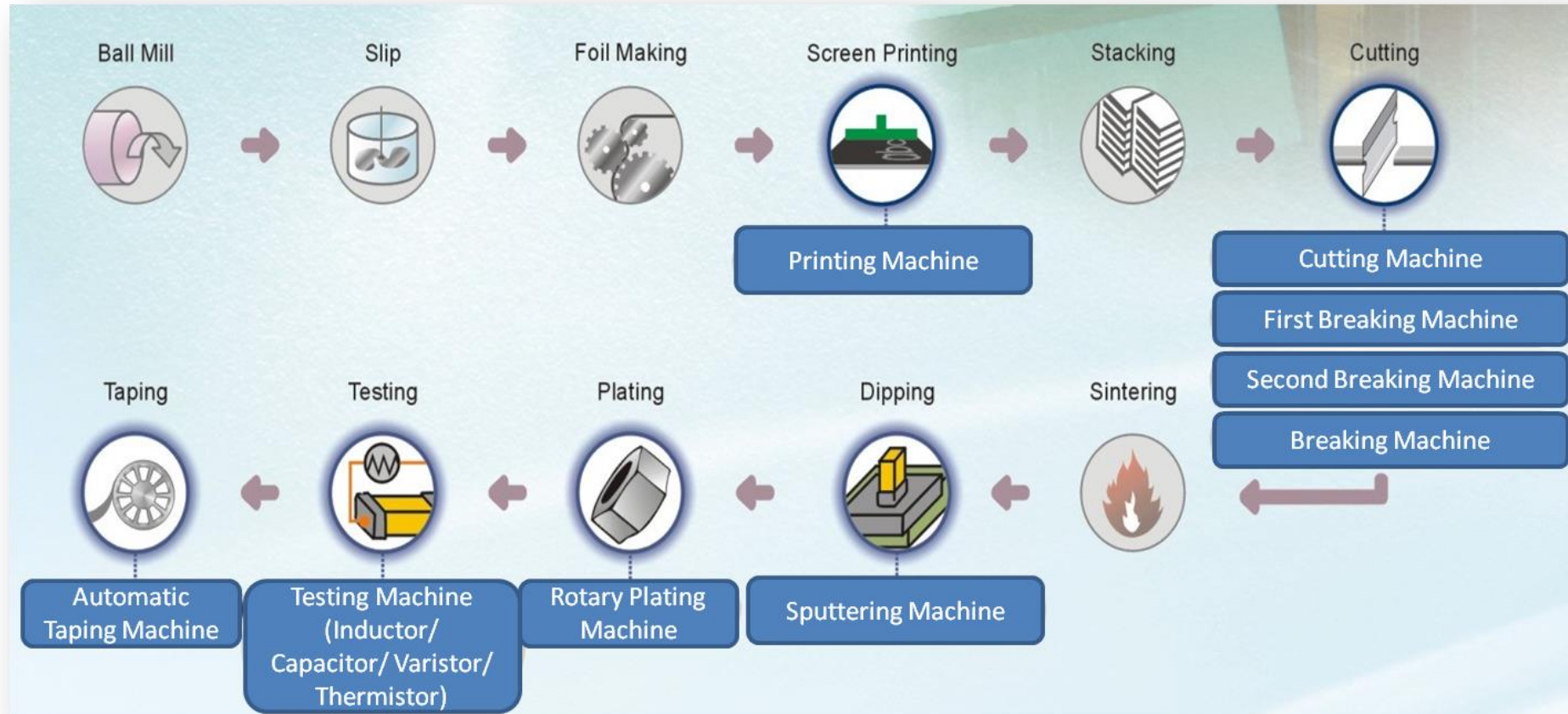
- Advanced packaging process
 - High Performance 2D with SoC & SoIC
 - Flip Chip – MCM(SiP)
 - (Multi-chip module ; MCM)
 - 2.5D with SoC
 - COWOS
 - INFO
 - 3D with (SoIC & WoW)
 - COWOS
 - INFO

Source: TSMC

Allring in 3D Fabric Process



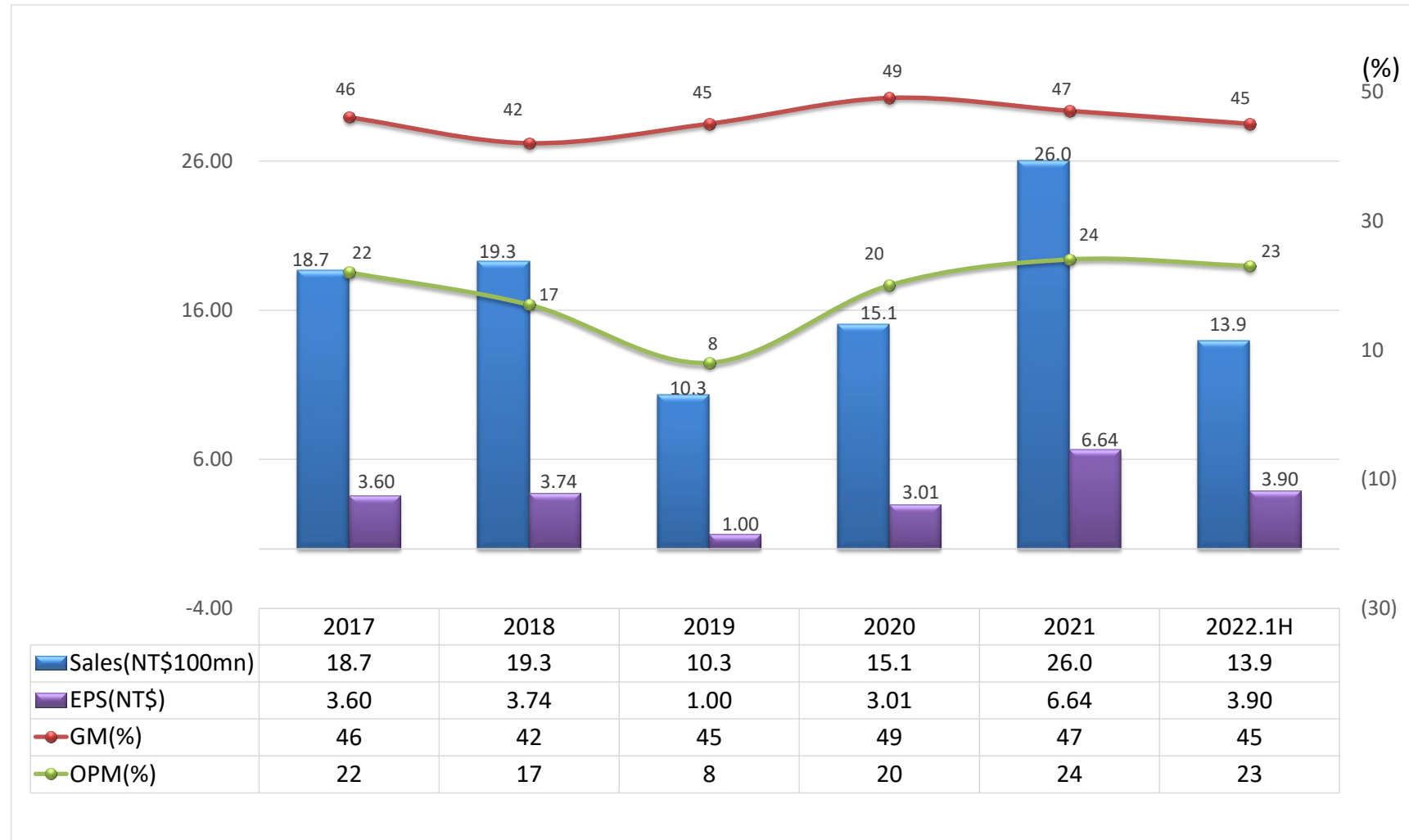
Passive Component Production Process



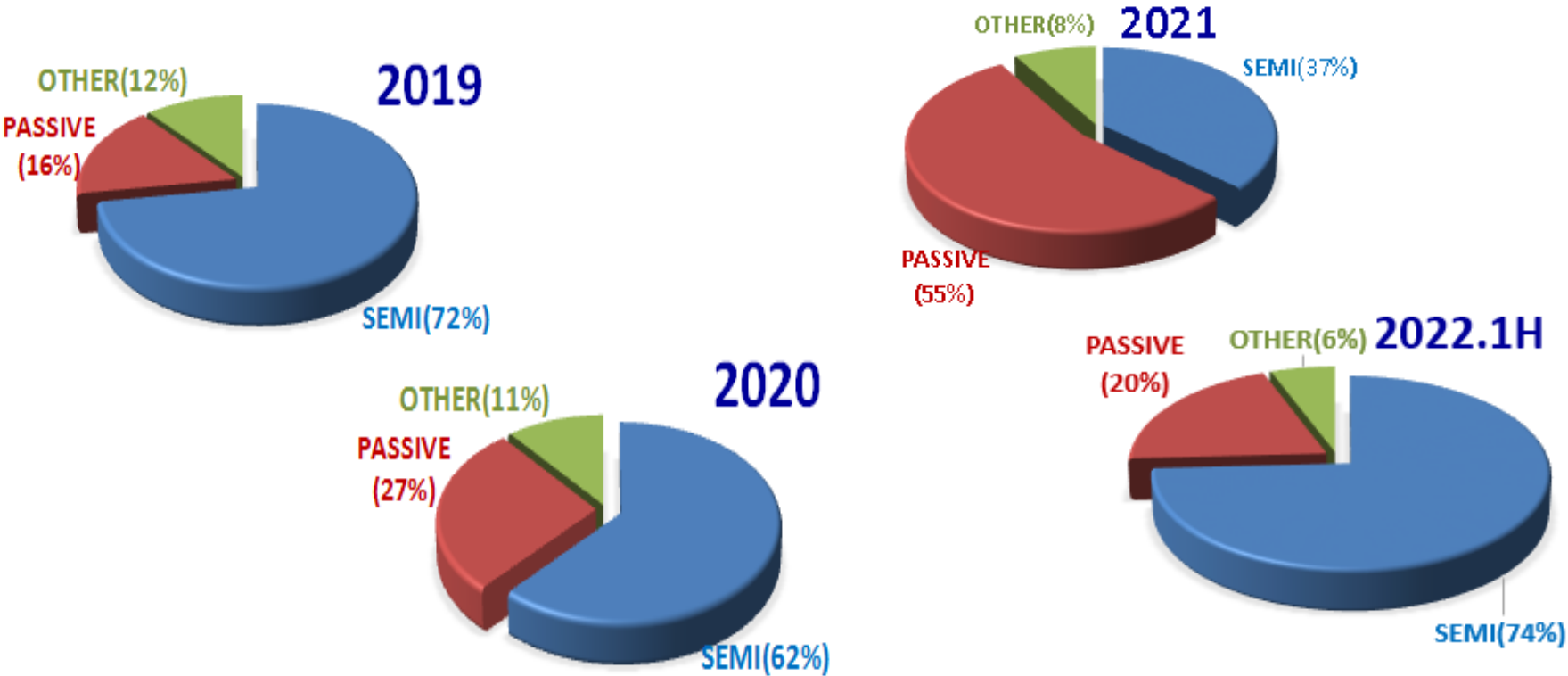
Financial Highlights

	For the six-months periods ended June 30,			
	2022		2021	
	Amount	%	Amount	%
Operating revenue	1,394,474		1,356,611	
Operating costs	(766,165)		(717,044)	
Net operating margin	628,309	45%	639,567	47%
Selling expenses	(38,125)		(46,465)	
General and administrative expenses	(75,267)		(68,085)	
Research and development expenses	(192,887)		(166,563)	
Expected credit losses	(8,052)		(491)	
Total operating expenses	(314,331)	22%	(281,604)	21%
Operating profit	313,978		357,963	
Total non-operating income and expenses	69,243		(4,032)	
Profit before income tax	383,221	28%	353,931	26%
Income tax expense	(65,538)		(61,419)	
Profit for the period	317,683	23%	292,512	21%
EPS	3.90		3.59	

Financial Highlights



Financial Highlights



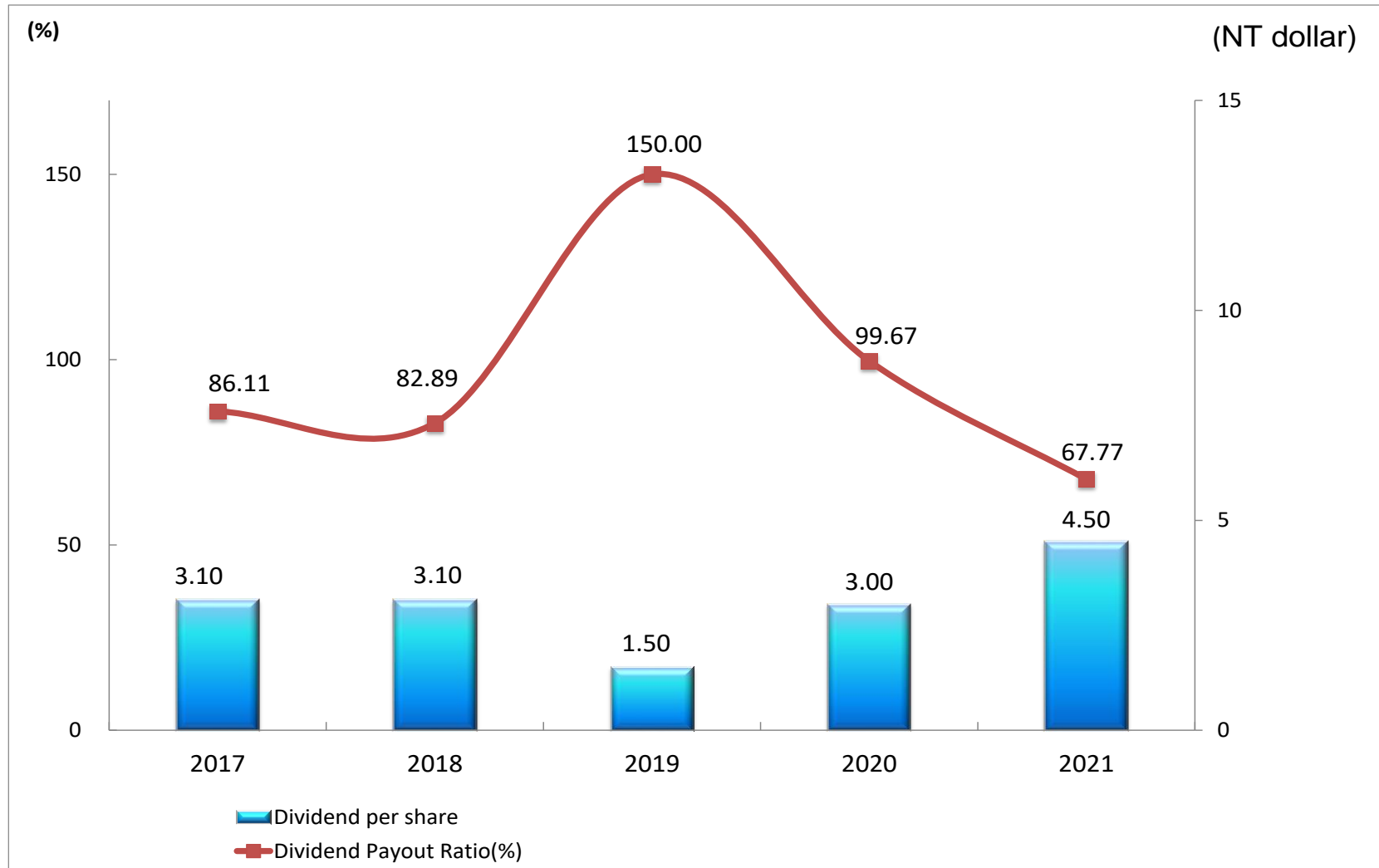
NT\$100M
2022.1H

	2019		2020		2021		2022.1H	
SEMI	7.48	72%	9.28	62%	9.60	37%	10.34	74%
PASSIVE	1.70	16%	4.14	27%	14.29	55%	2.79	20%
OTHER	1.14	12%	1.64	11%	2.15	8%	0.81	6%
TOTAL	10.32	100%	15.06	100%	26.04	100%	13.94	100%

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Q & A



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