

PC/ LED/ IC 自動化設備  
解決方案

# AllRing Tech 萬潤科技簡介

Presented by Allring

# About Us

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## **Establish**

May 24. 1996

## **Chairman**

Larry Lu

## **Capital**

833 Million

## **Business**

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



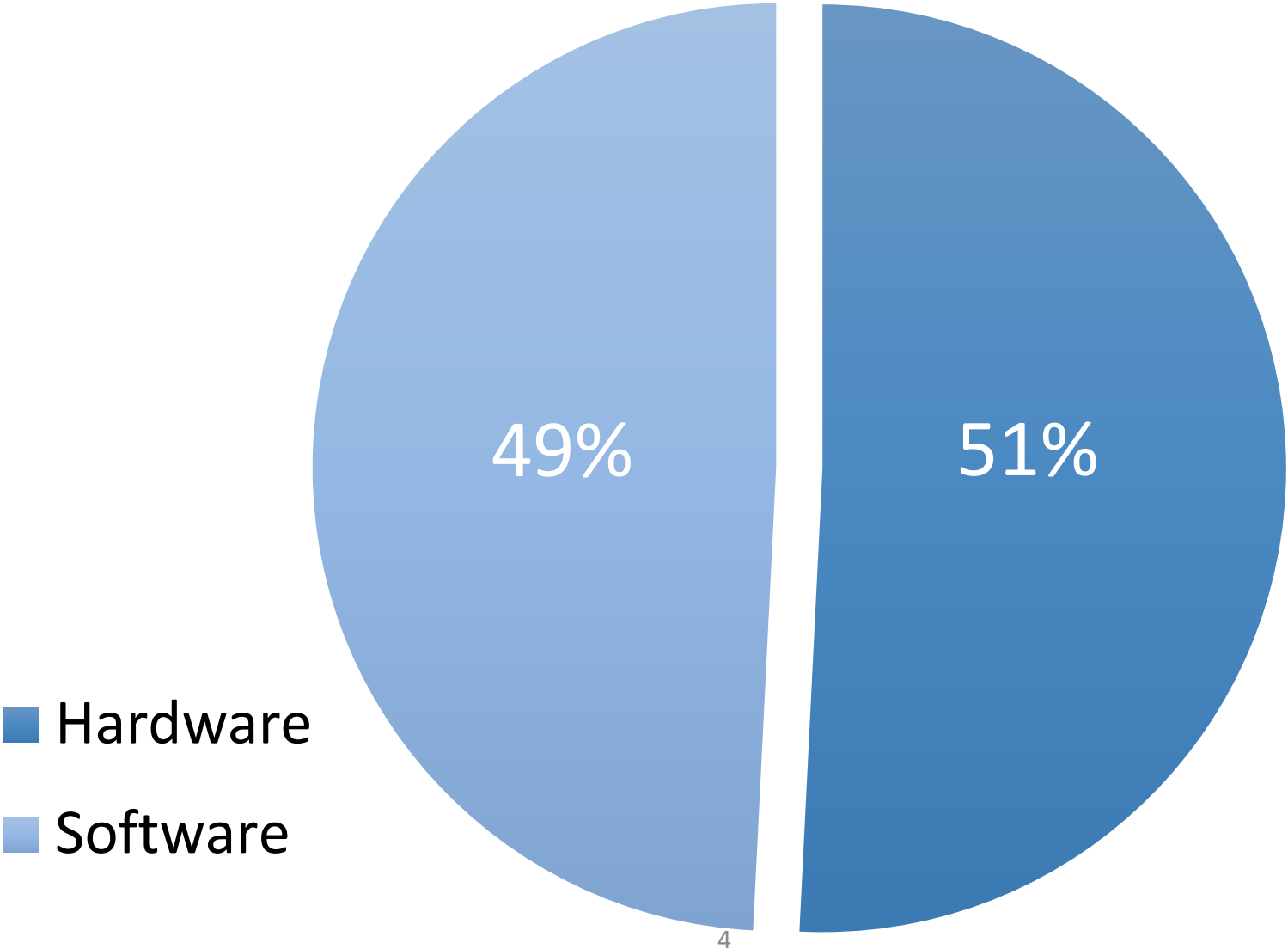
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60%

R&D

# R&D

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# 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	

# TSMC's 3D Fabric

TSMC 3DFabric™



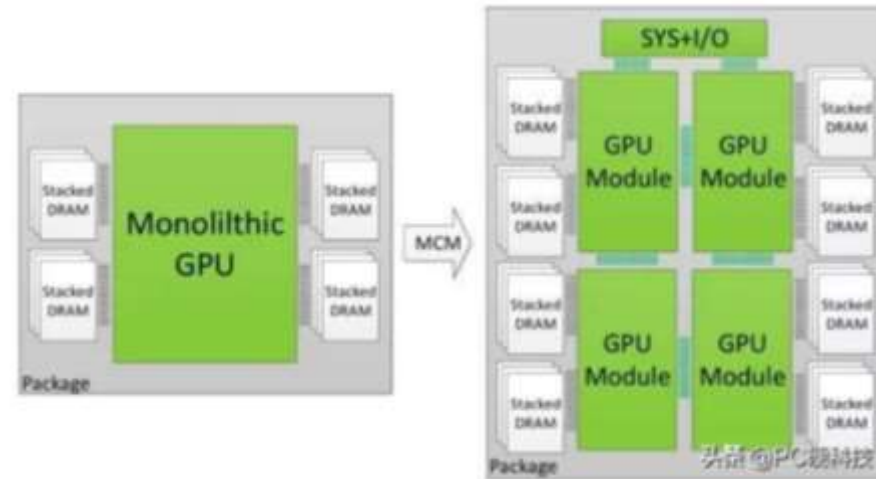
SoIC: System on Integrated Chips



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

# 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

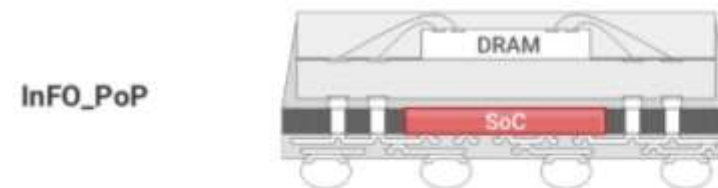


Source: TSMC

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Source: TSMC

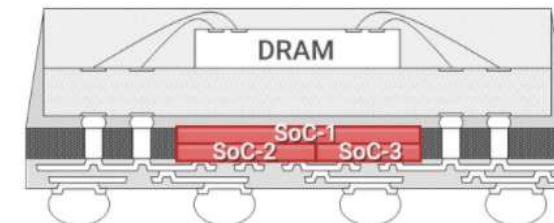
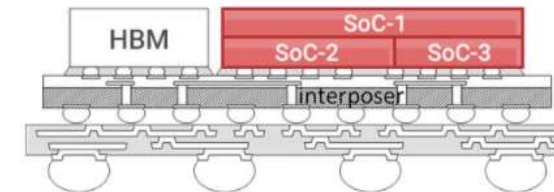




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    - ( Multi-chip module ; MCM )
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    - INFO
  - **3D with ( SoIC & WoW )**
    - COWOS
    - INFO

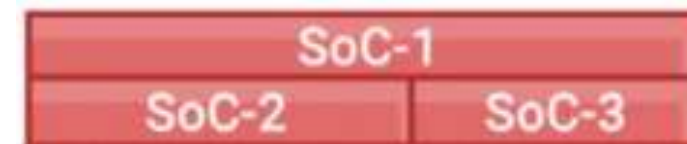
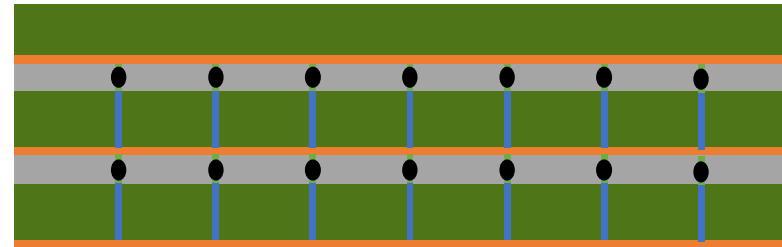
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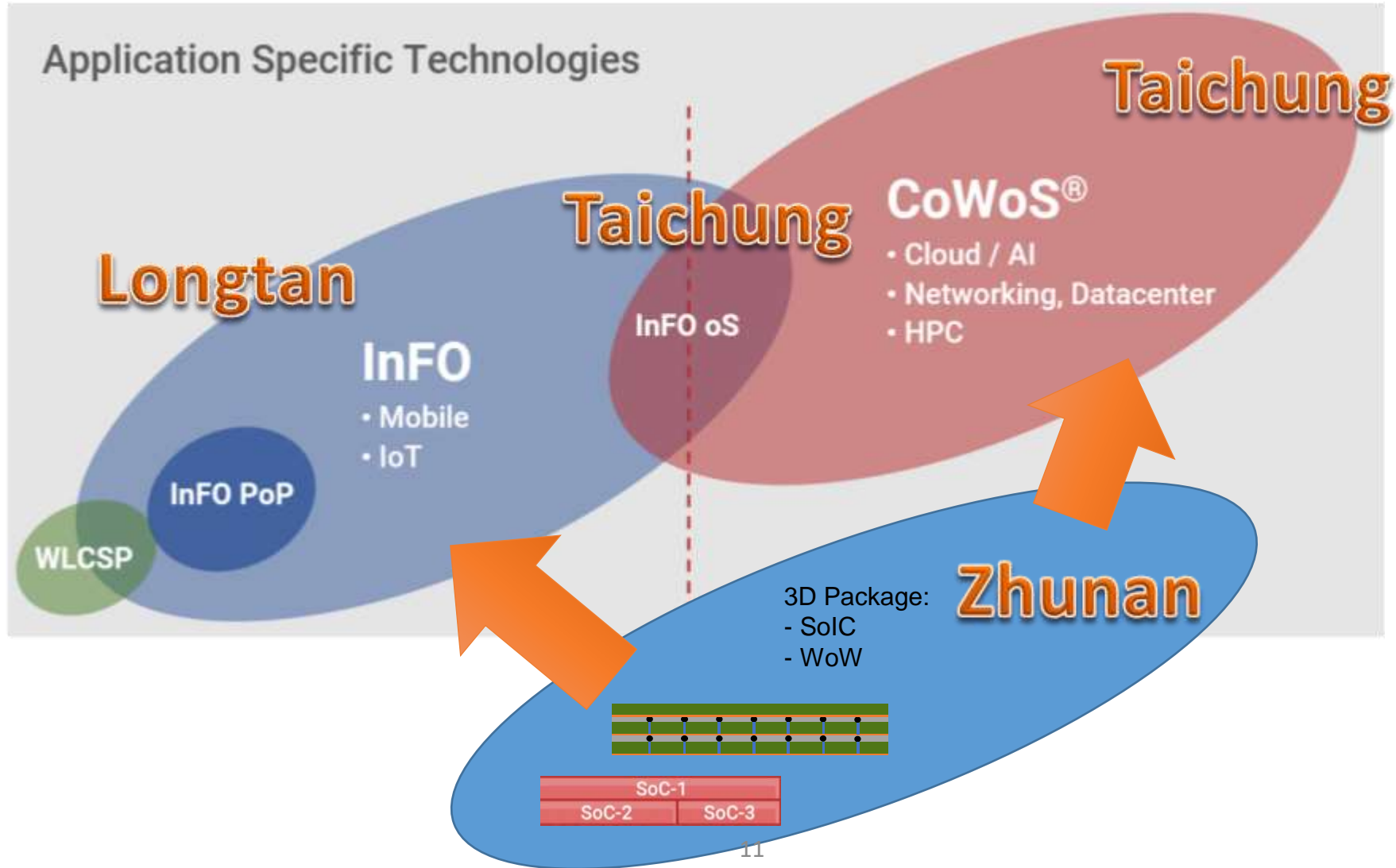
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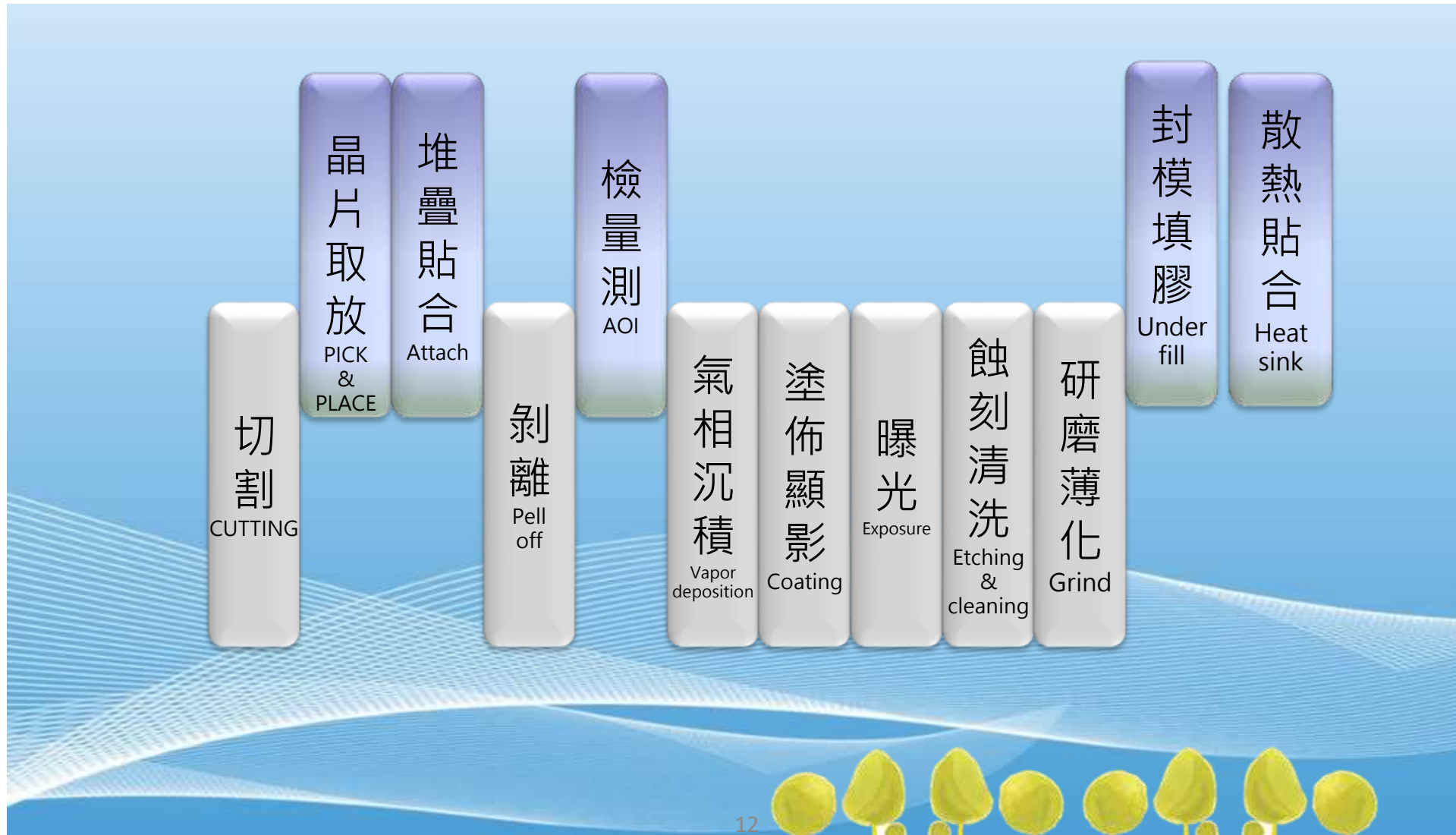
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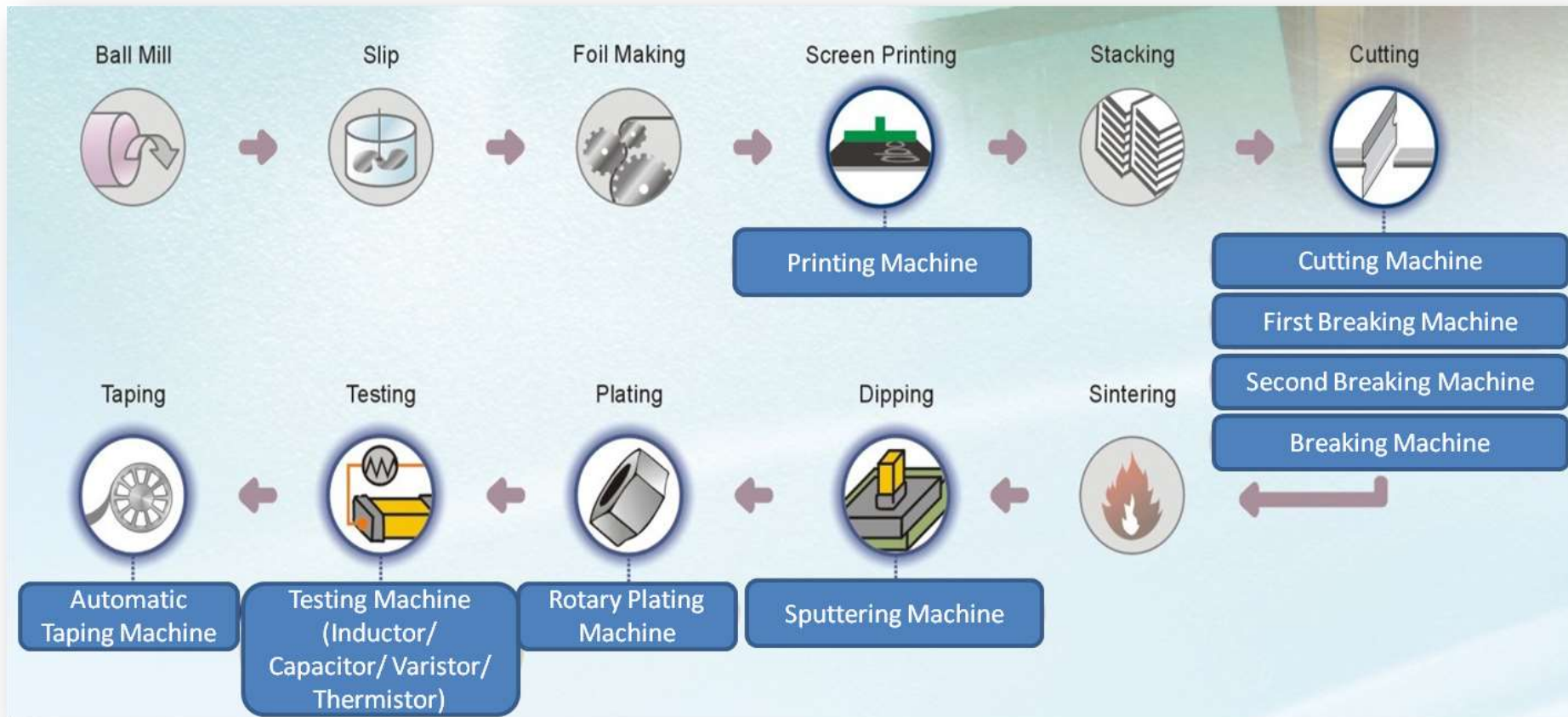
# TSMC 3D Fabric



# Allring in 3D Fabric Process



# Passive Component Production Process



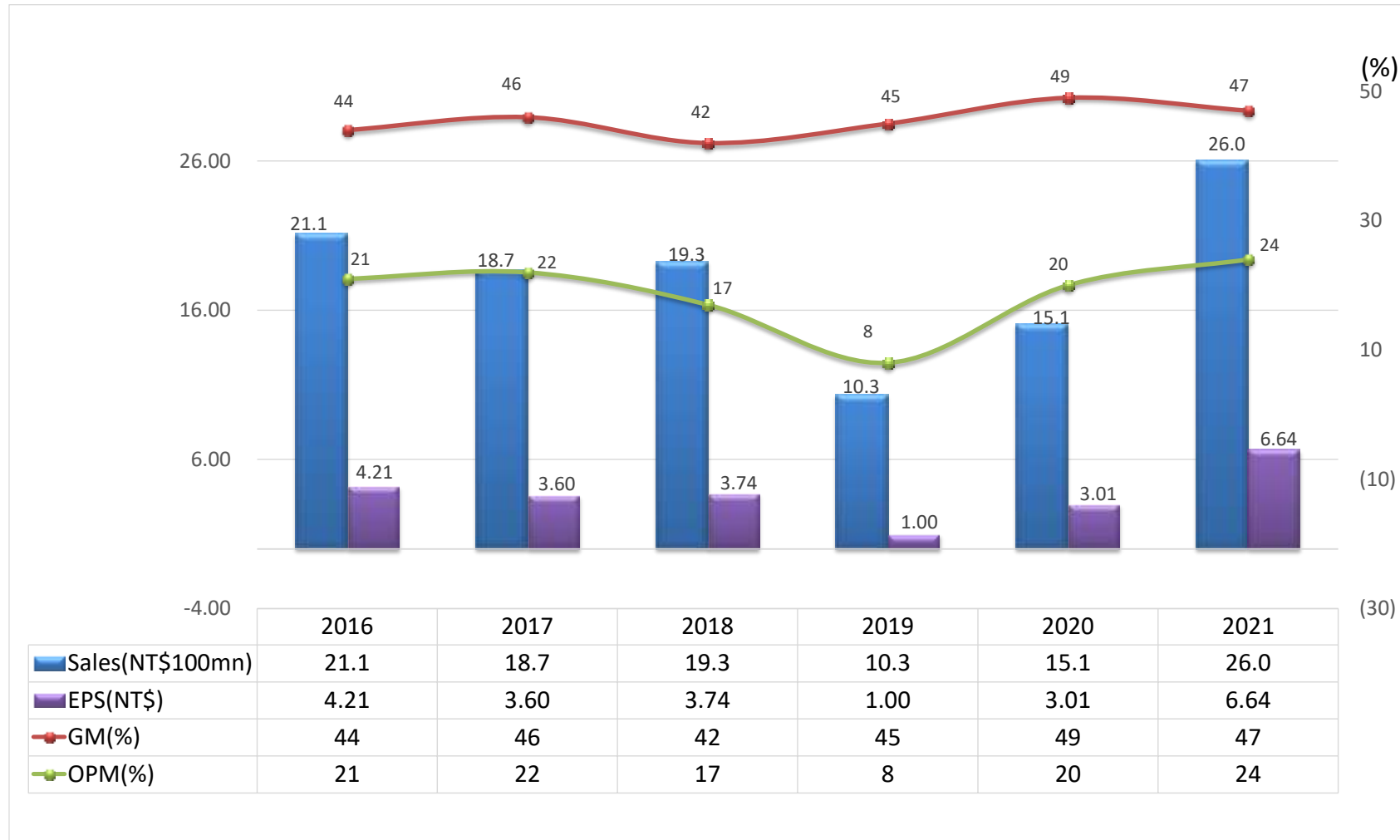
# Revenue Breakdown



NT\$100M

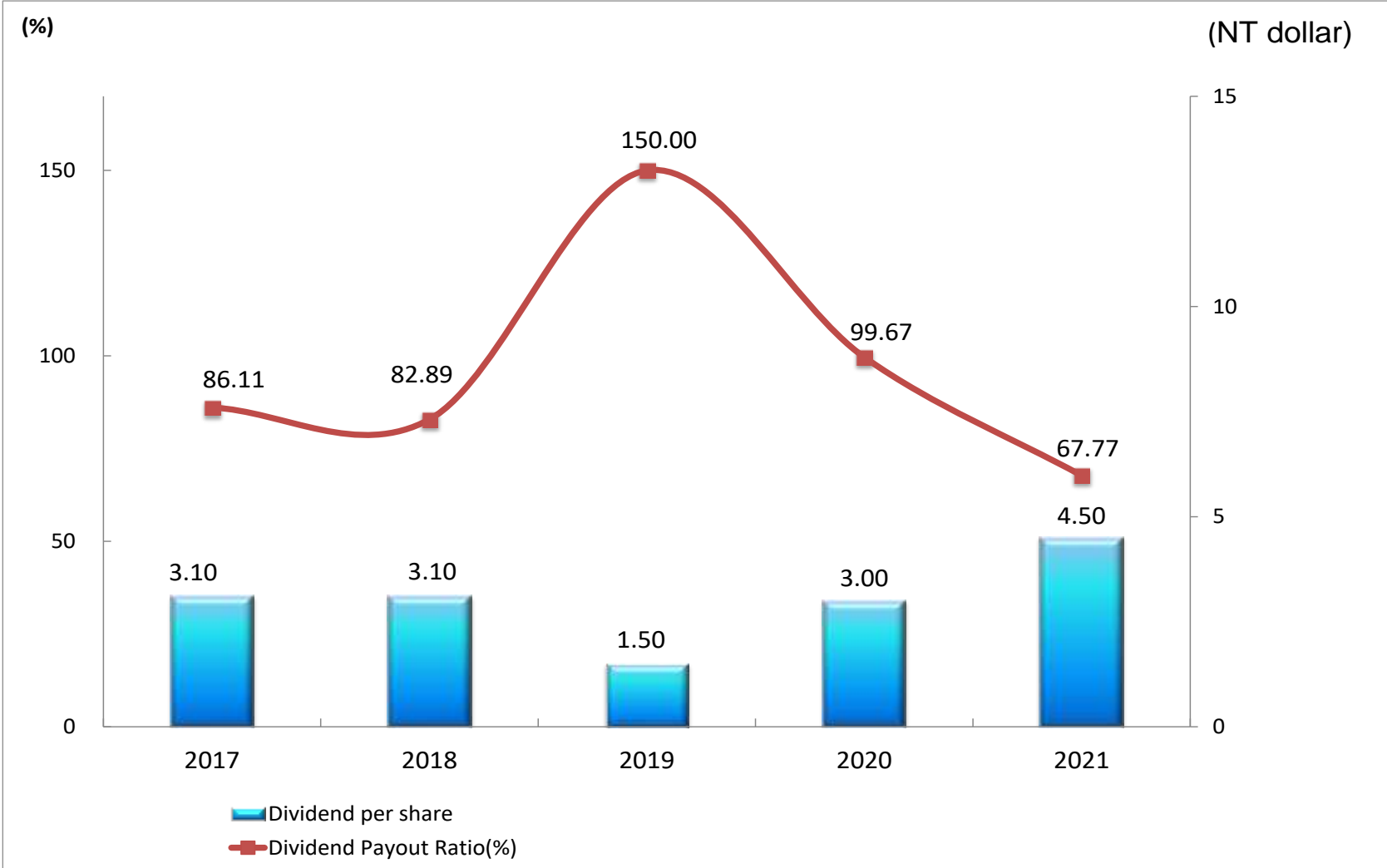
	2019		2020		2021	
SEMI	7.48	72%	9.28	62%	9.60	37%
PASSIVE	1.70	16%	4.14	27%	14.24	55%
OTHER	1.14	12%	1.64	11%	2.20	8%
<b>TOTAL</b>	<b>10.32</b>	<b>100%</b>	<b>15.06</b>	<b>100%</b>	<b>26.04</b>	<b>100%</b>

# Financial Highlights





# Financial Highlights







**Thank you!**