

Allring

All Ring Tech Co., Ltd. Stock Code:6187.TT



**Auto Equipments
Solution Provider**

Disclaimer

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All prospects reflect Allring-tech expectations toward the future, and may be subject to change and Allring-tech reserves the right to alter, update and change relevant information from time to time without prior notice.

Company Profile

Established	May 24, 1996
Capital	NTD 842 Million (USD 27 Million)
Business	Automation equipment supplier for Semiconductor test & package, Passive Component manufacturing and LED back-end industries
Employee	201 (Aug, 2018)
Chairman	Larry Lu
Address	No.1 Luke 10th Rd. ,Lujhu,Kaohsiung,Taiwan
Website	www.allring-tech.com.tw

Industry Overview

Electronic Device



Compact Size/Multiple



**Component
Miniaturization**

**Sub-system
Modularization**

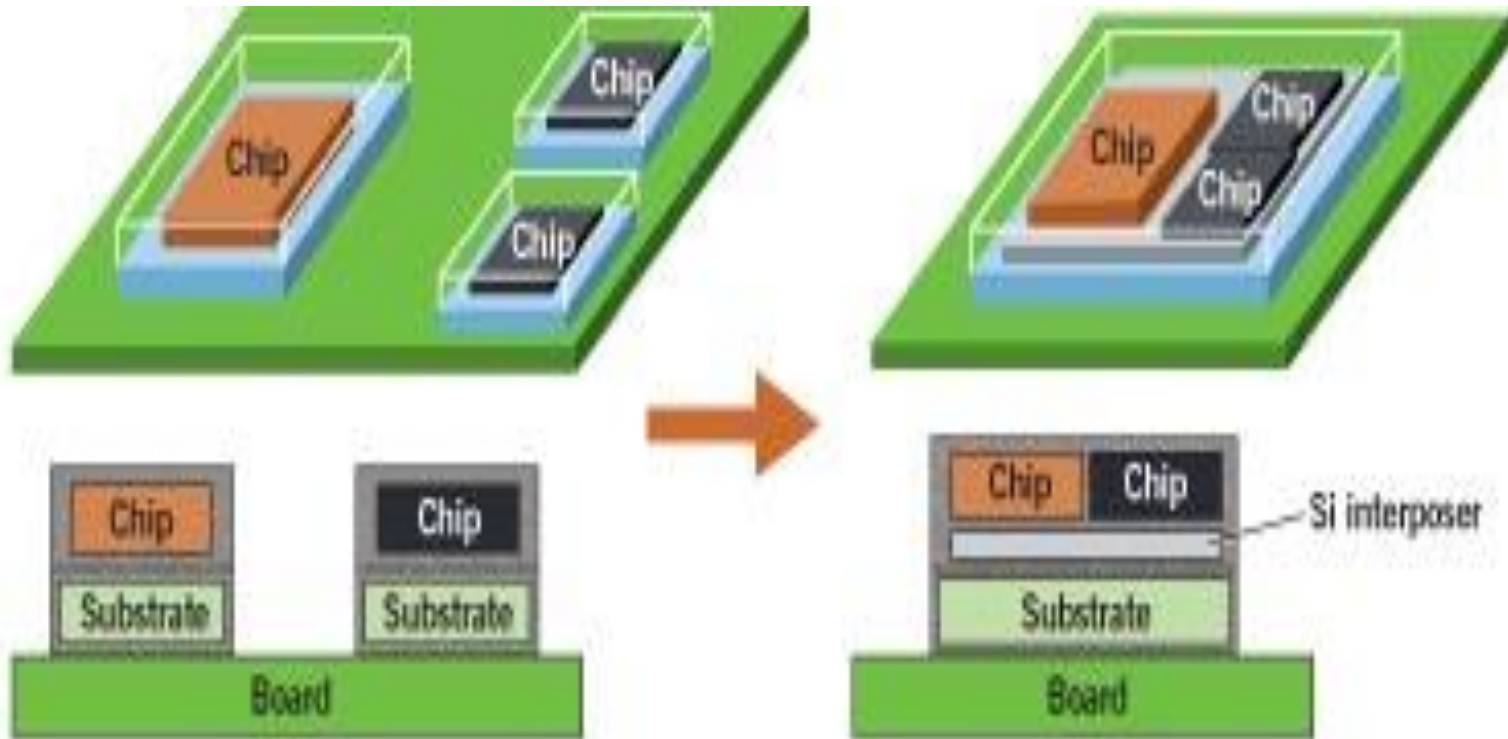


**Advance
Package**

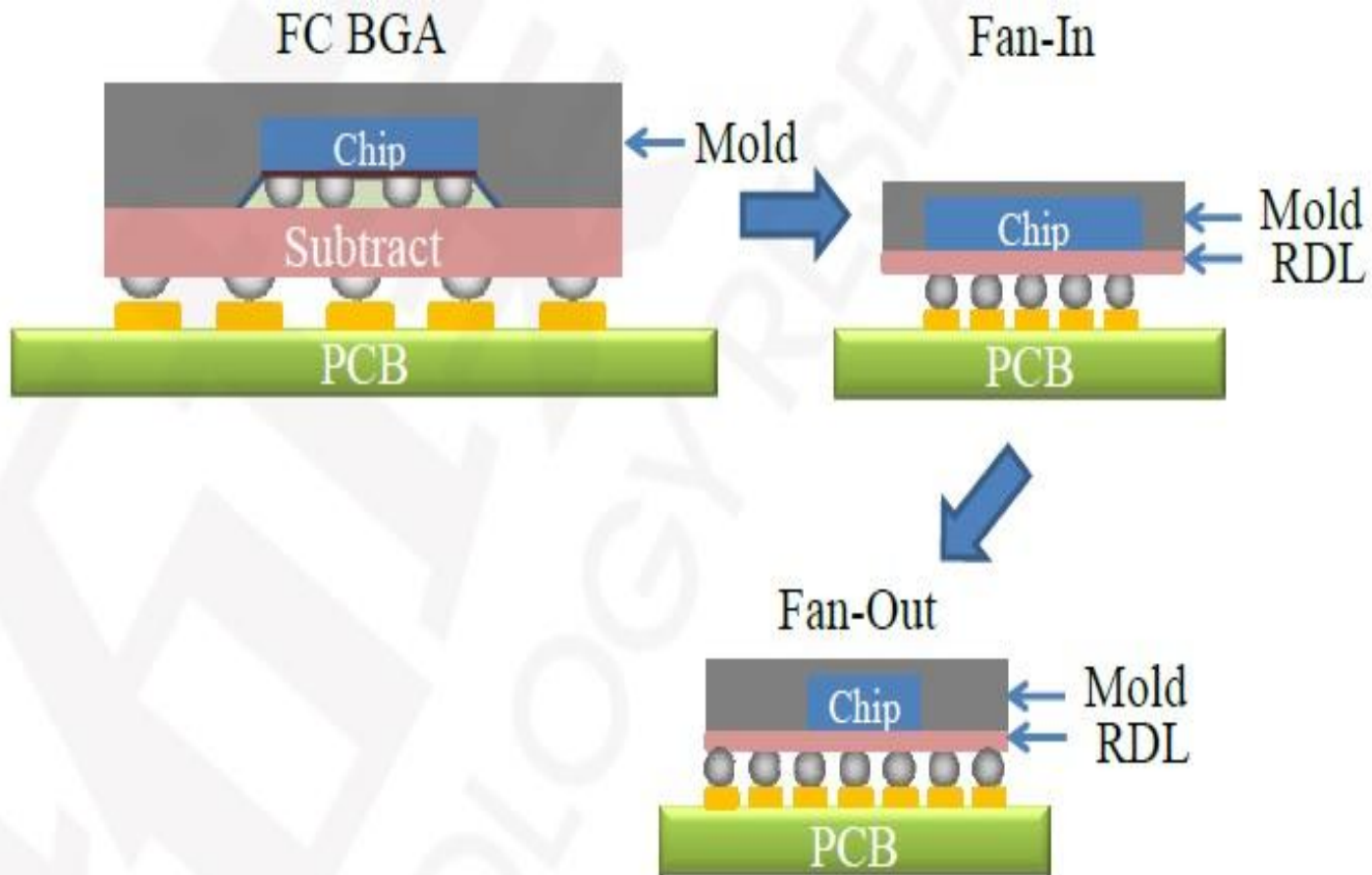
Advance Package

Packaging Type		Figure	Manufacturer		Application
SIP (system in package)		Page 6	OSAT	ASE	Smart phone IoT Mobile
				USI	
			Module house	Hon Hai	
				Pegatron	
Component	AAC				
	Largan				
WLP (wafer level package)	InFO	Page 7,8	Foundry	TSMC	Smart Phone AI 5G
	CoWoS			TSMC	
Flip chip	2.5/3D	Page 9	OSAT	ASE	Smart Phone IoT Mobile
				Spil	
				Amkor	
				JCET	
				Powertech	

System in Package (SiP)

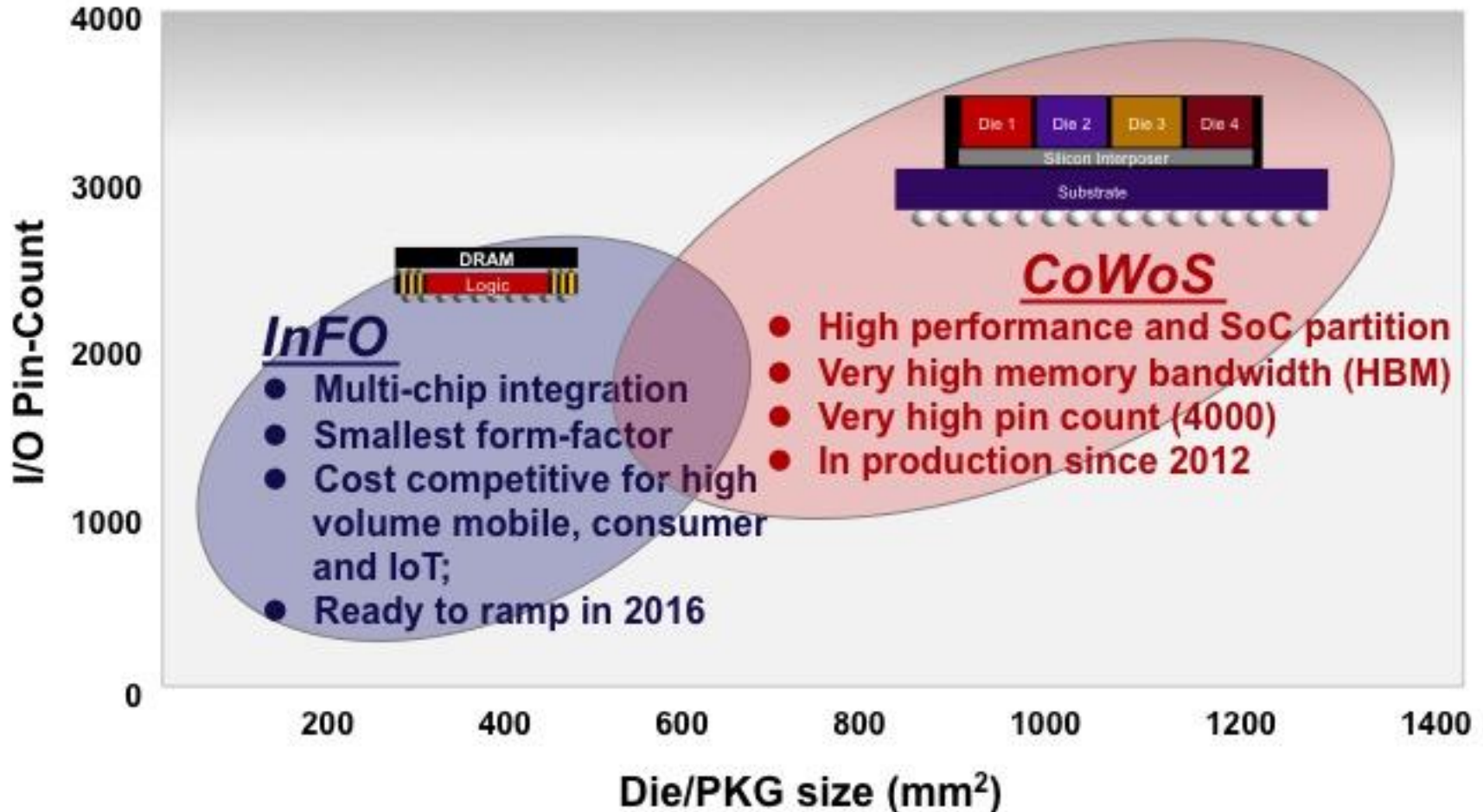


Flip-chip & wafer-level packaging



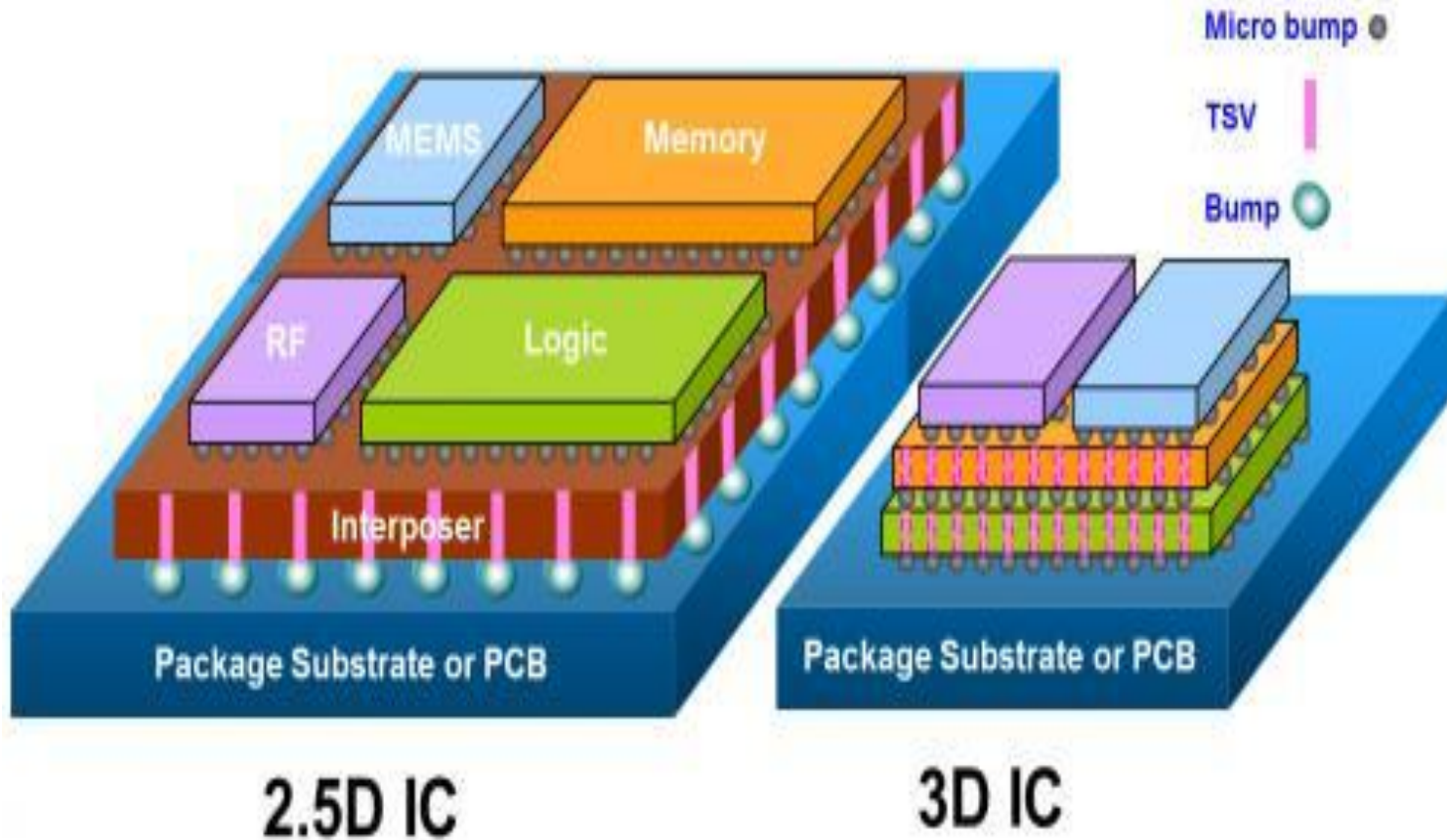
Source: TRI

TSMC's InFO & CoWoS

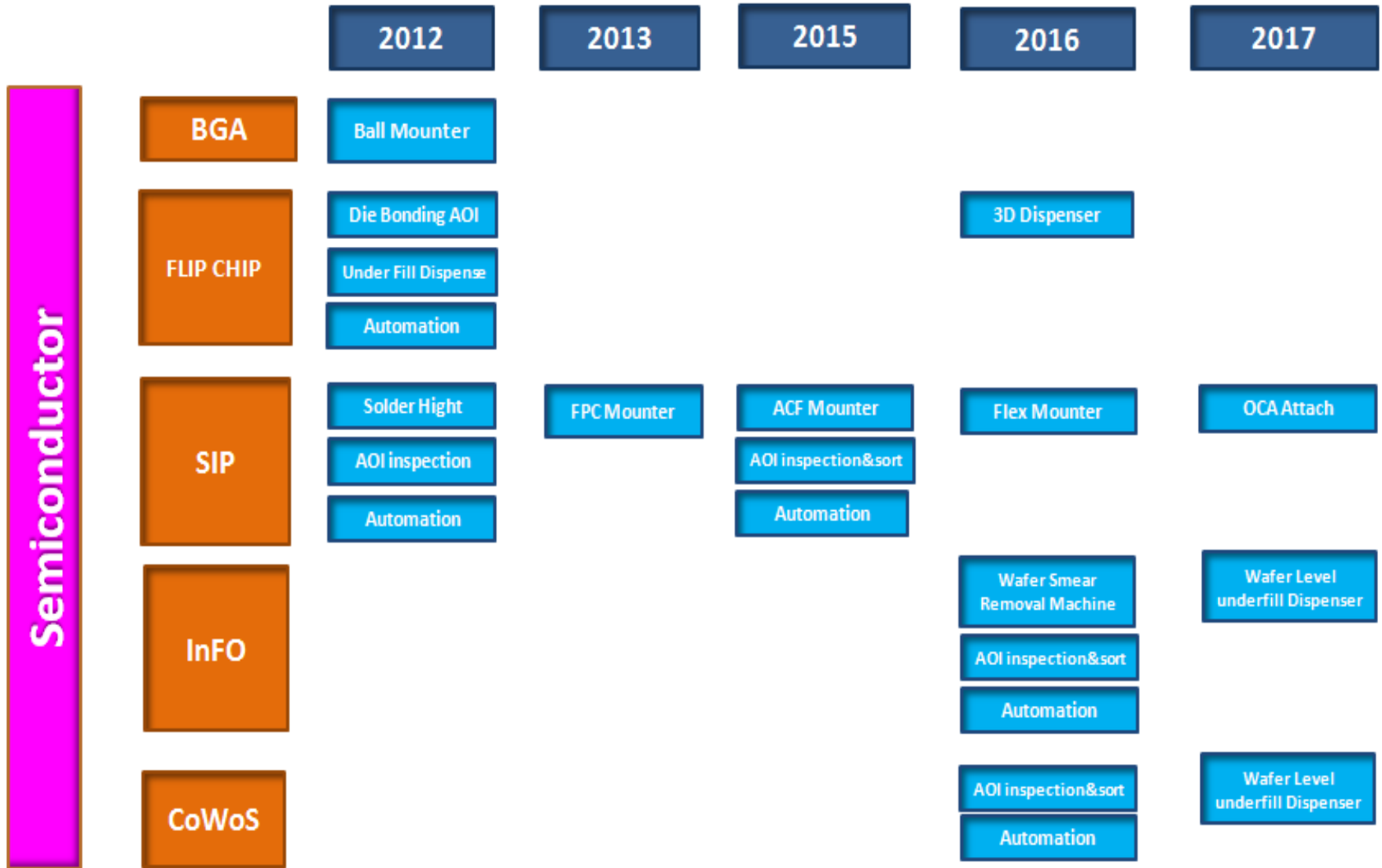


Source: TSMC

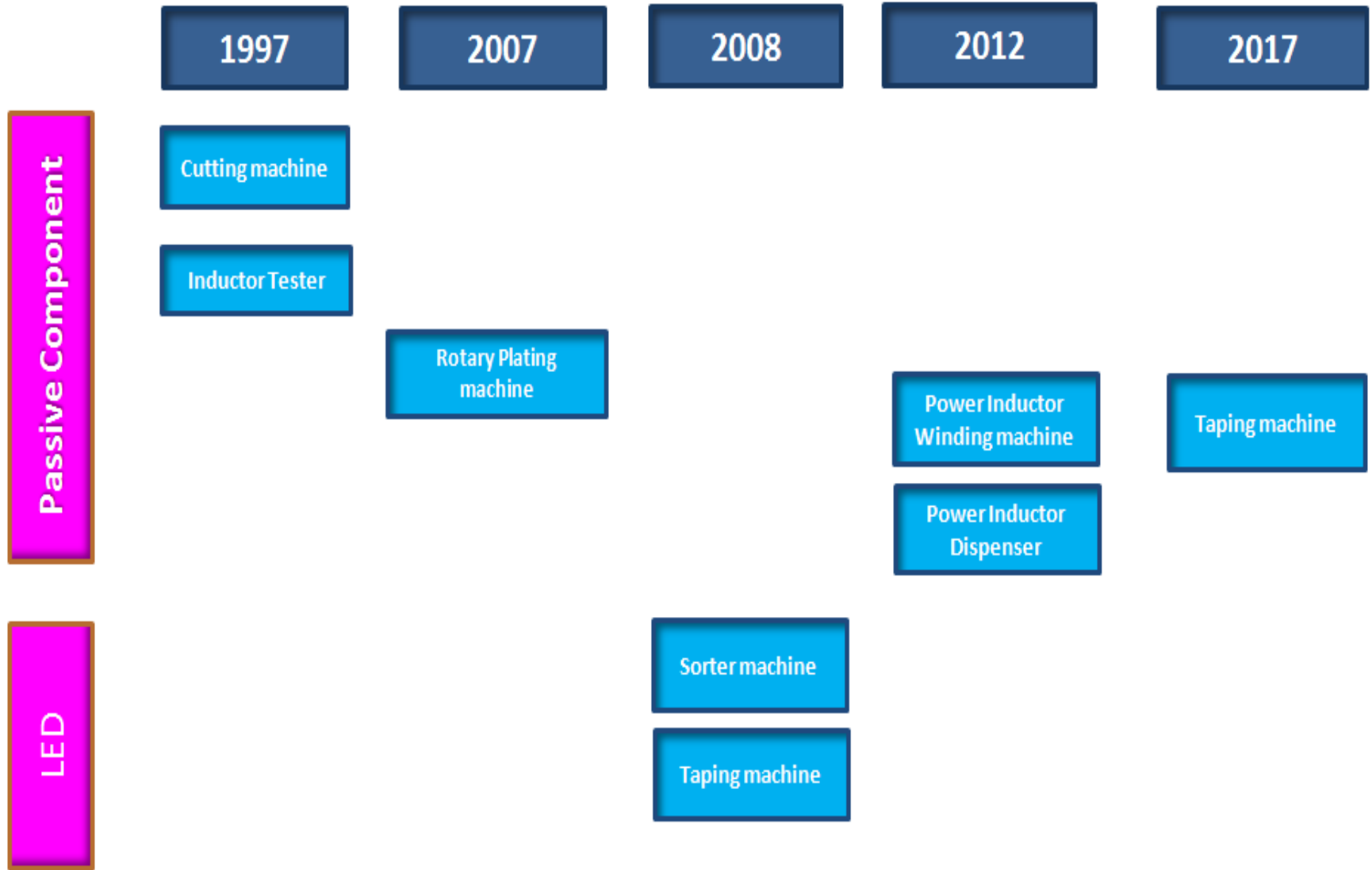
2.5D & 3D IC Packaging



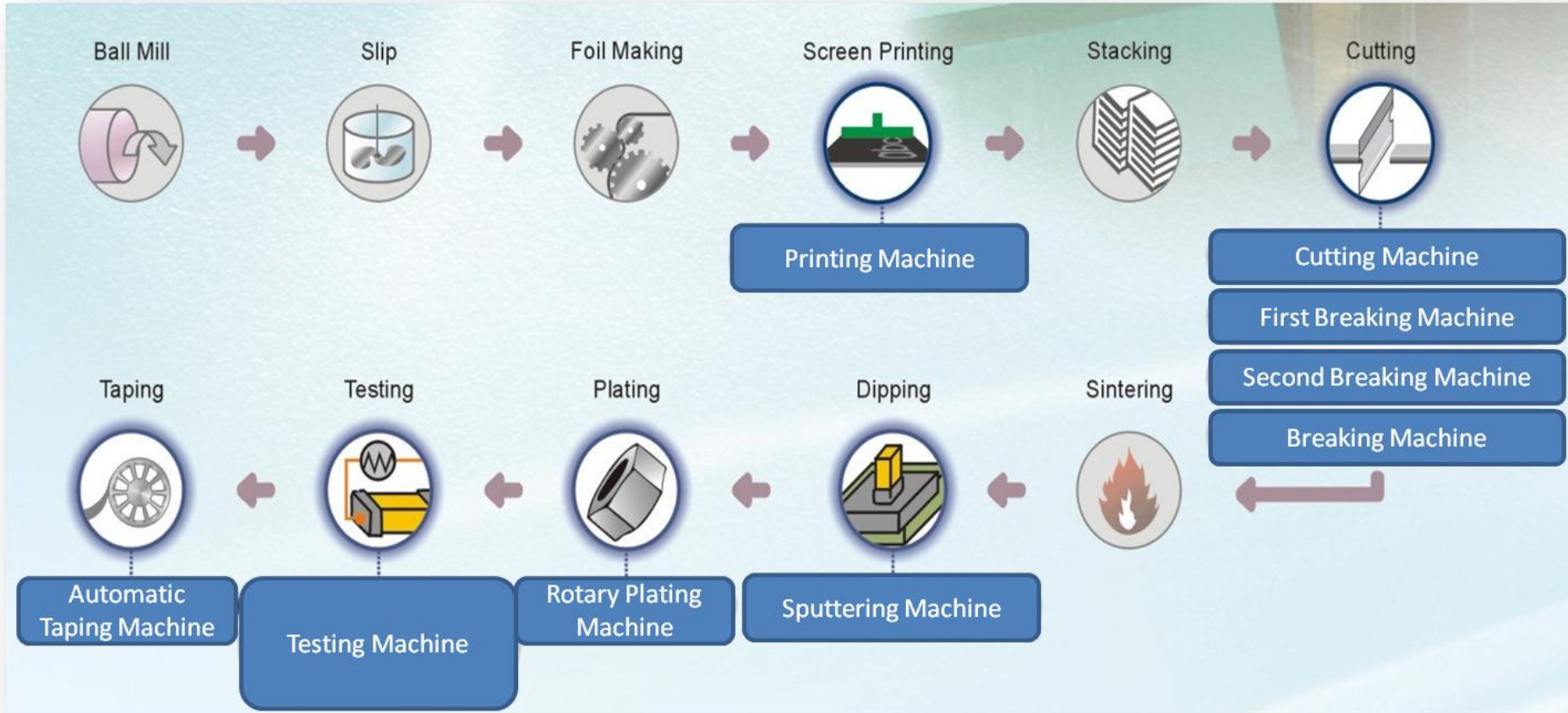
Product Portfolio—Semiconductor



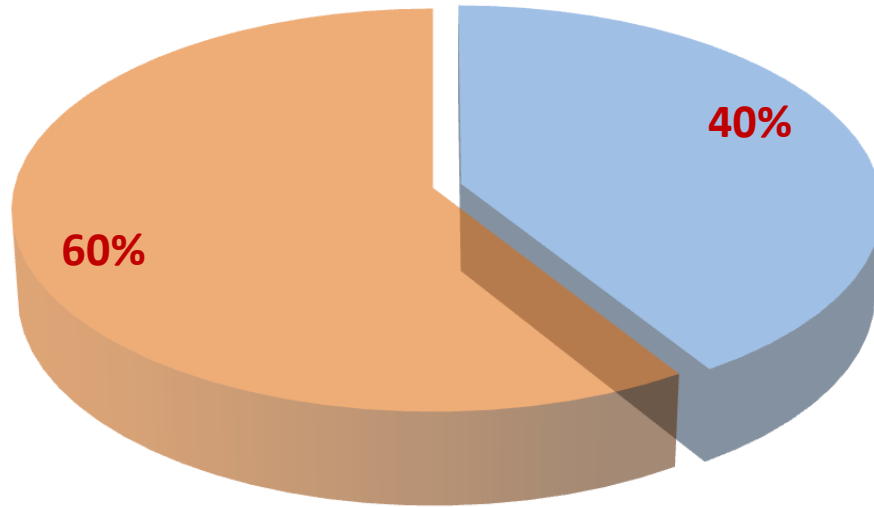
Product Portfolio—Passive Component/LED



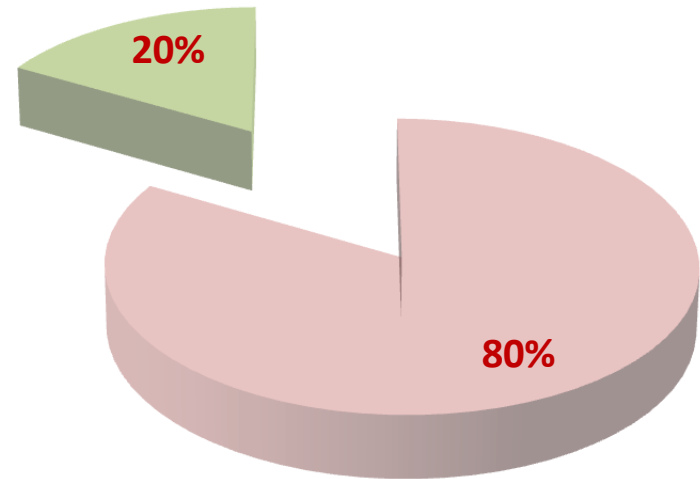
Passive Component Production Process



Human Resources- R&D Background



- Hardware
- Software



- Motion Programming
- Visual System

Dispensing Pump (Valve) Line-Ups

Dispensing
Control

0.1mg ±5%

INK- Jet Printer

Piezoelectric Jetting Pump

Jetting
Pump

Linear Pump

1mg ±5%

Air pulse dispenser
simplified/basic/advanced

Screw Pump

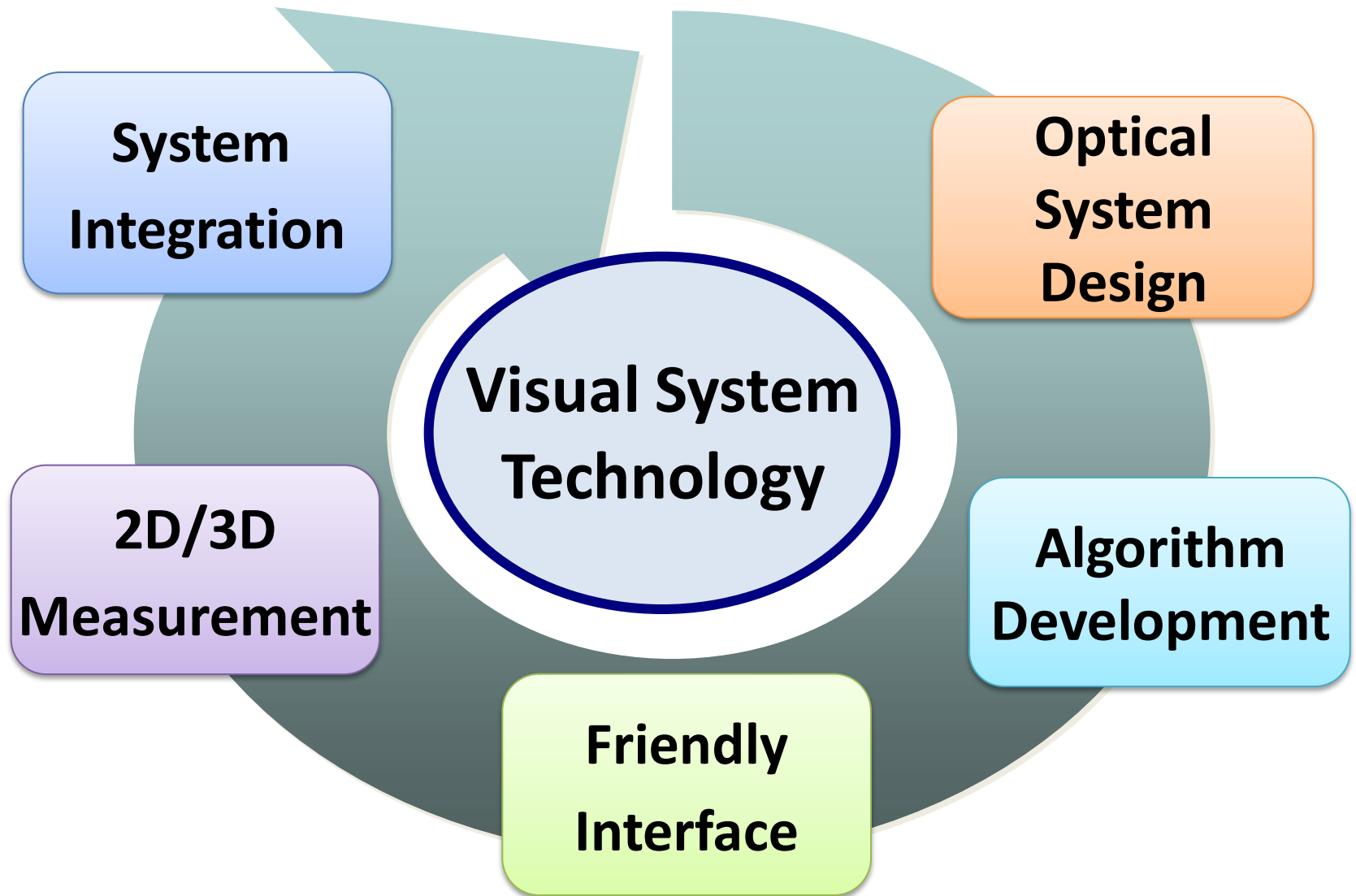
10mg ±5%

Spray Pump


























1 10 100 1,000 10,000 100,000 1,000,000 CPS

Viscosity

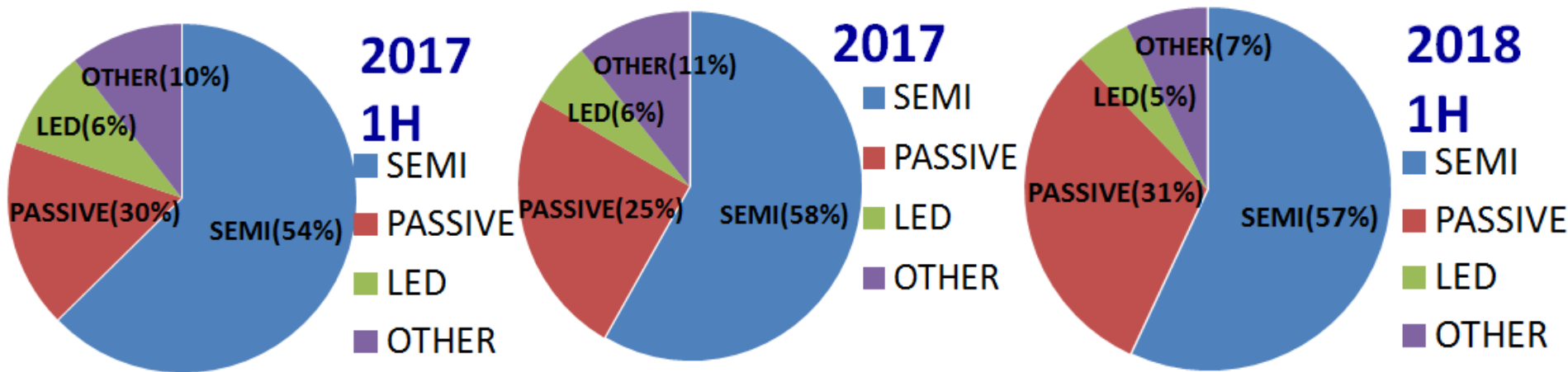
Visual System Technology



Customer Base

Semiconductor	Passive Component	LED
       	           	     

Revenue Breakdown



NT\$100M

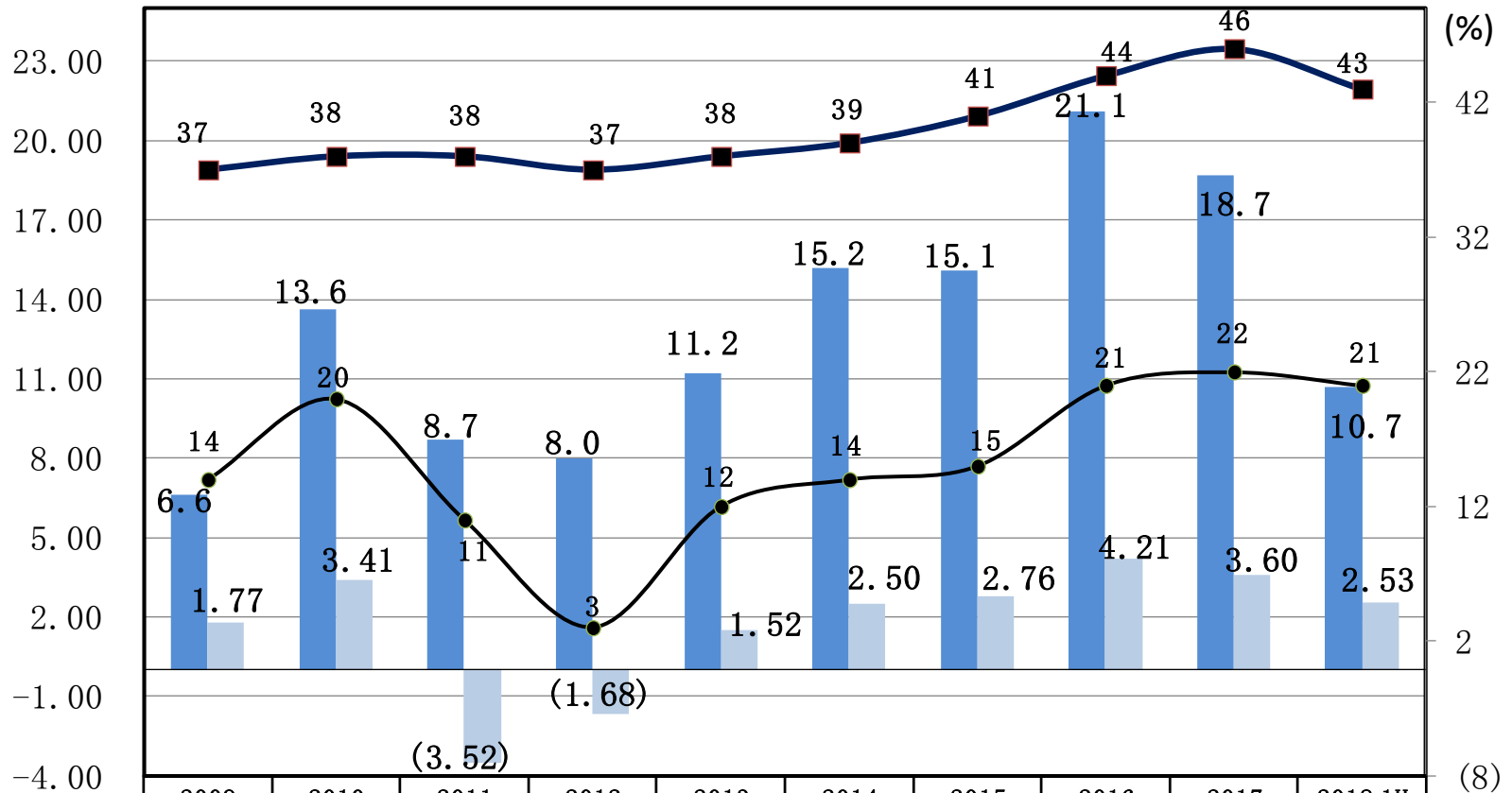
2017 1H

2017

2018 1H

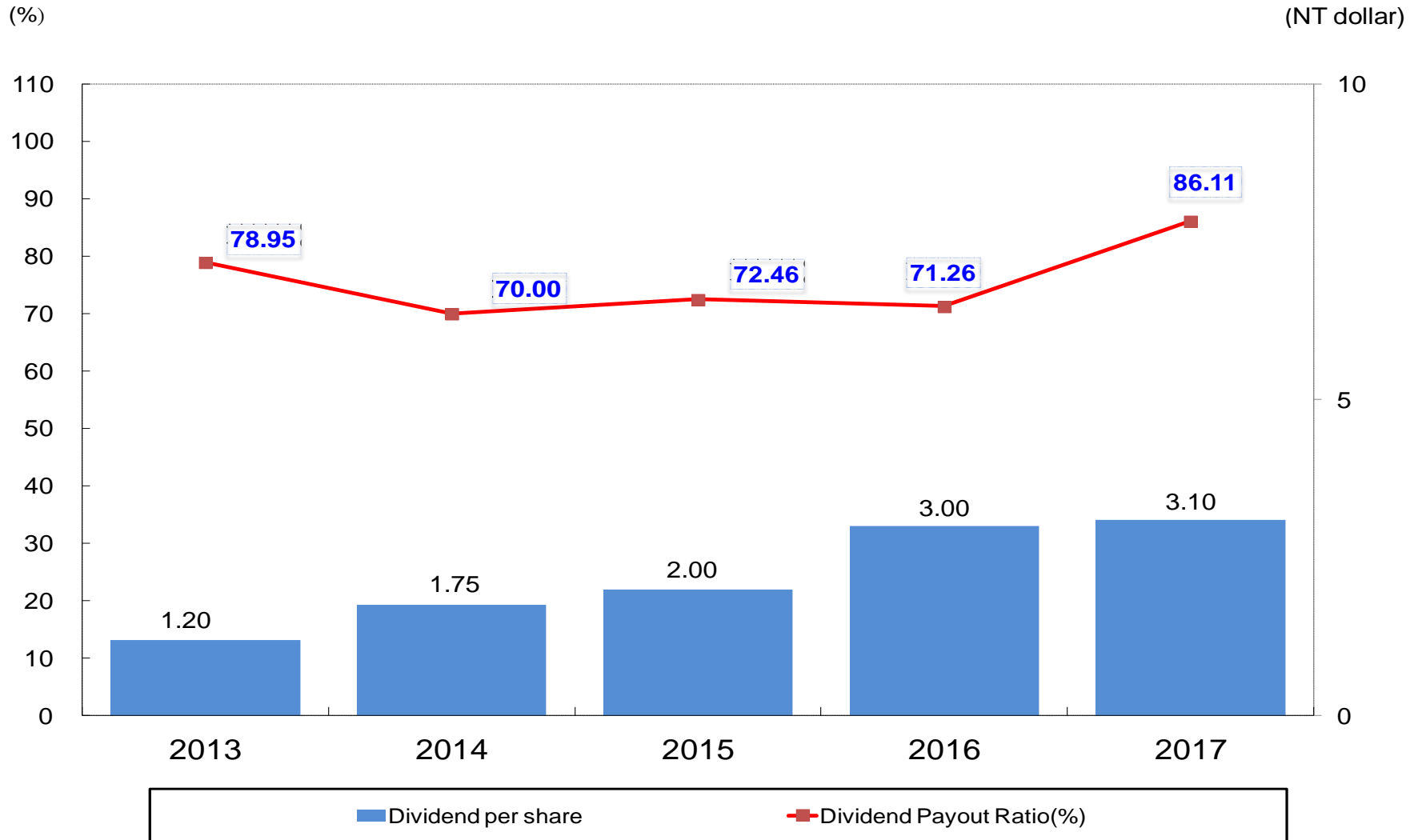
SEMI	4.96	54%		10.89	58%		6.10	57%
PASSIVE	2.73	30%		4.64	25%		3.30	31%
LED	0.55	6%		1.11	6%		0.53	5%
OTHER	0.97	10%		2.03	11%		0.78	7%
TOTAL	9.21	100%		18.67	100%		10.71	100%

Financial Highlights



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 H
Sales (NT\$100mn)	6.6	13.6	8.7	8.0	11.2	15.2	15.1	21.1	18.7	10.7
EPS (NT\$)	1.77	3.41	(3.52)	(1.68)	1.52	2.50	2.76	4.21	3.60	2.53
GM (%)	37	38	38	37	38	39	41	44	46	43
OPM (%)	14	20	11	3	12	14	15	21	22	21

Financial Highlights



Q & A

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