



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	200 (Feb, 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**

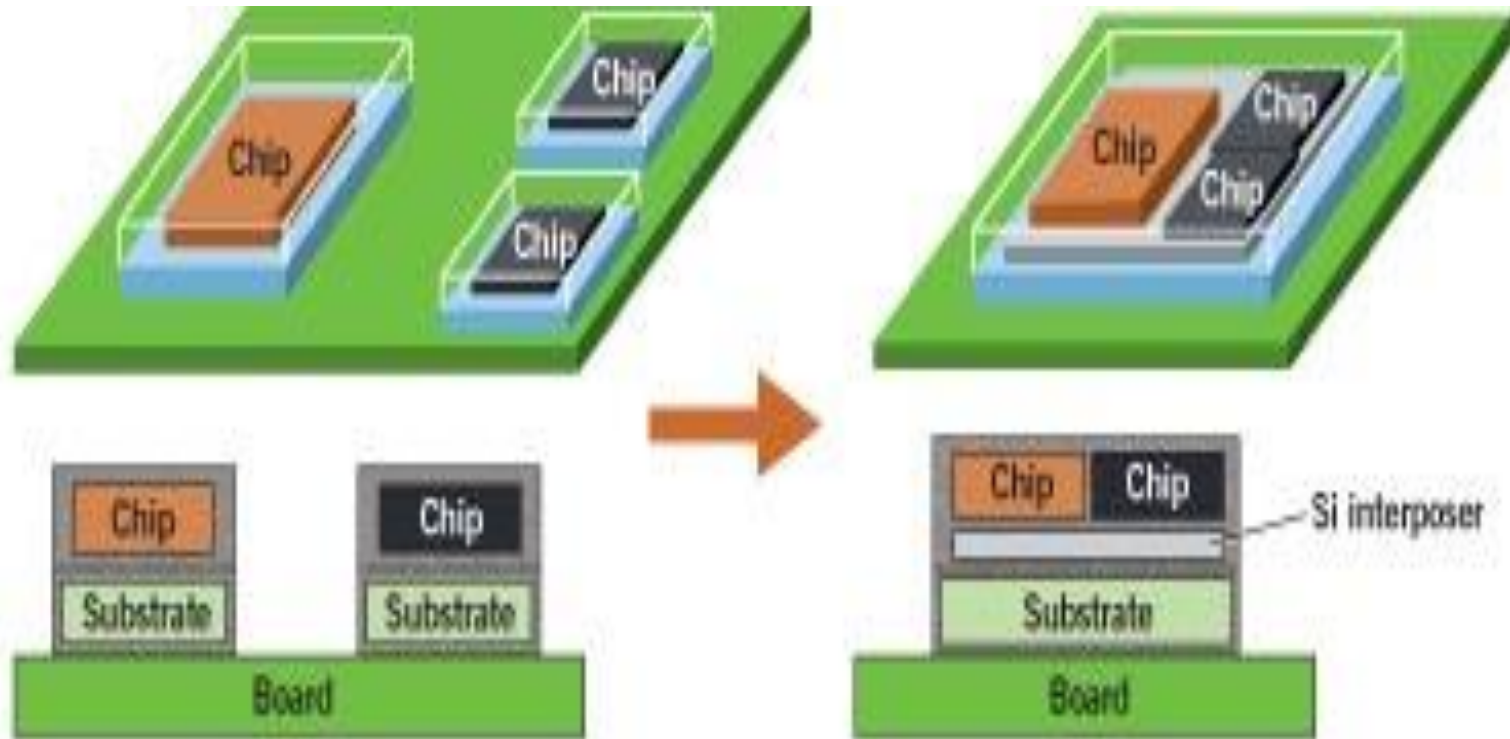


**Advance
Package**

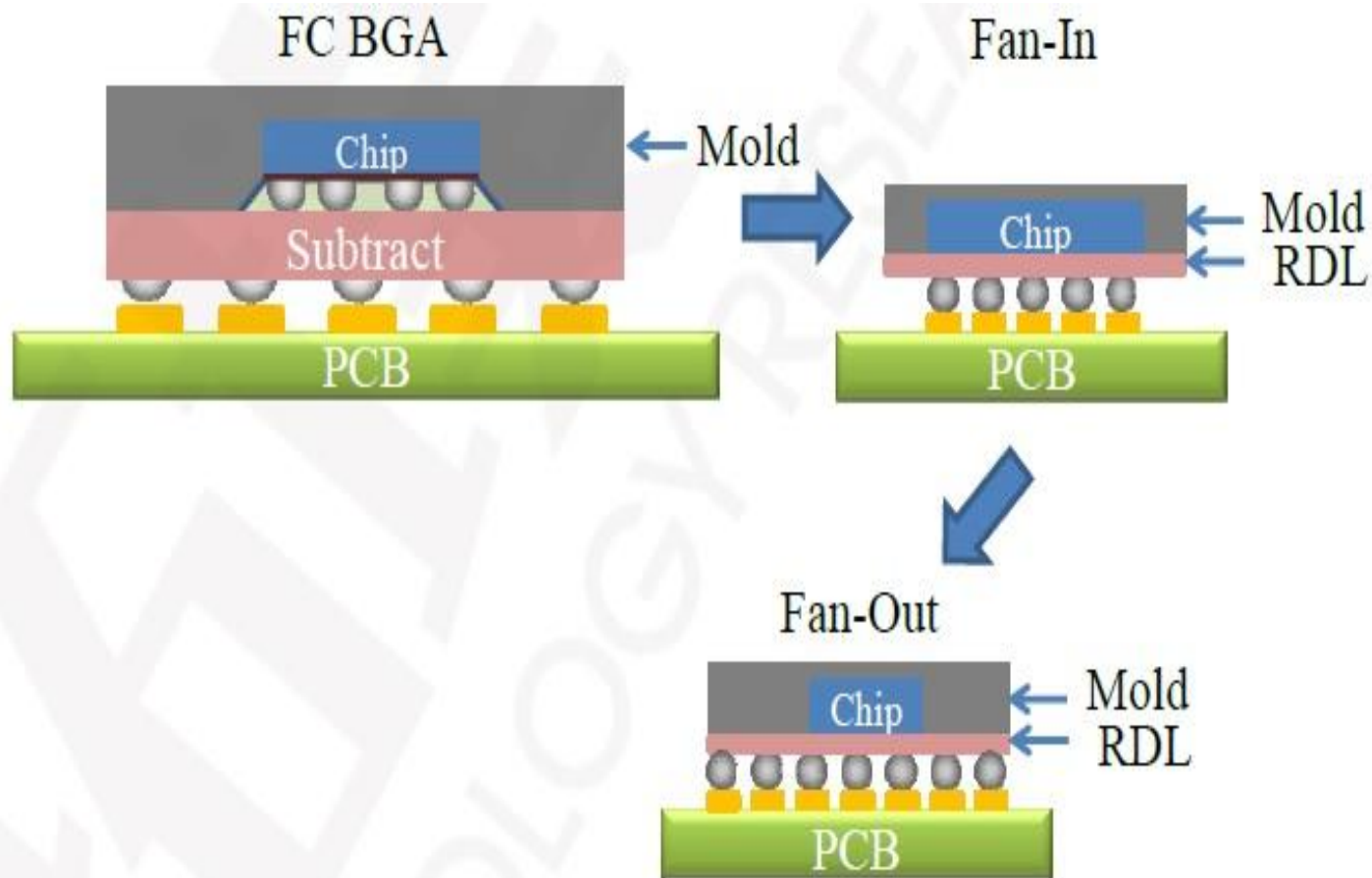
Advance Package

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)

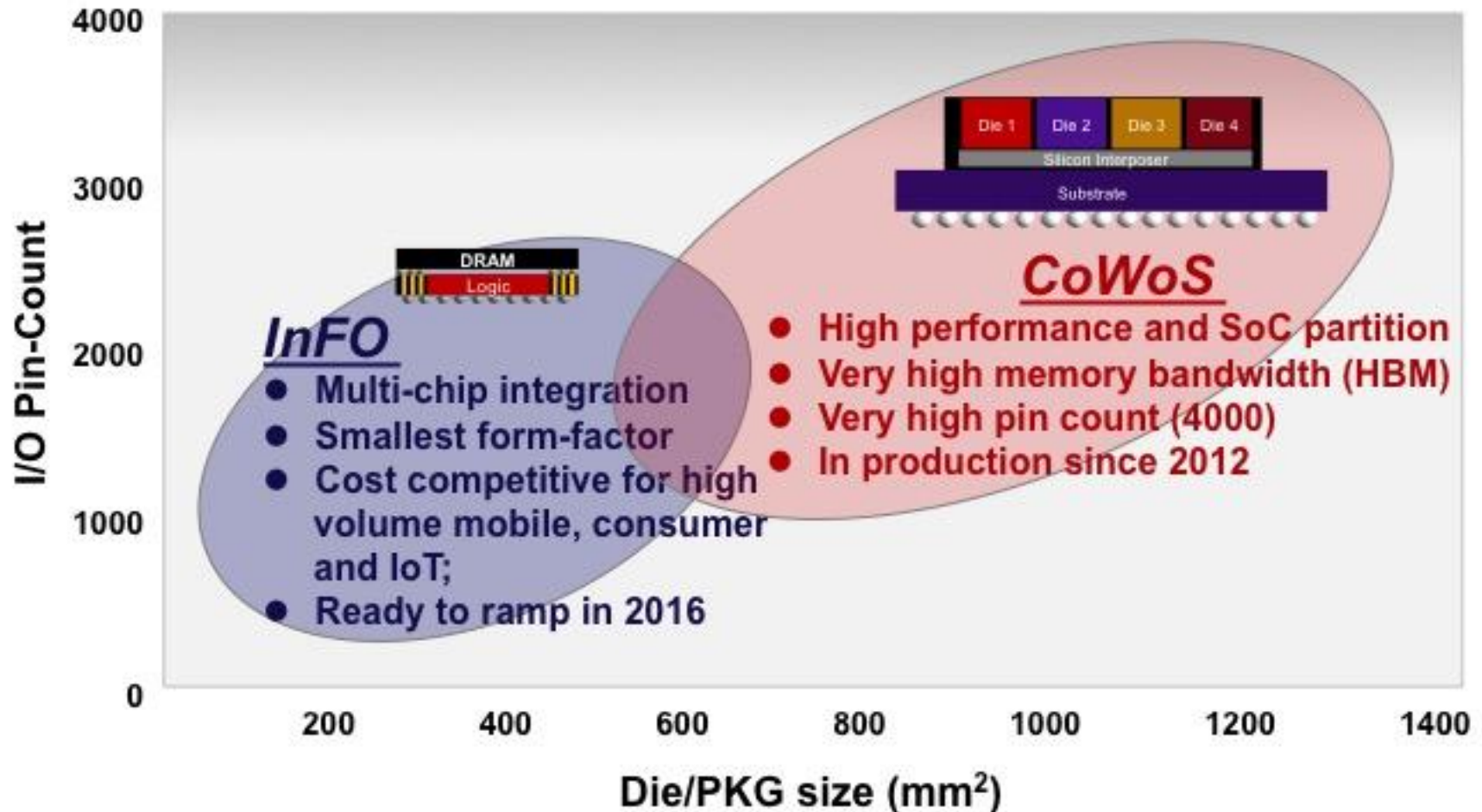


Flip-chip & wafer-level packaging

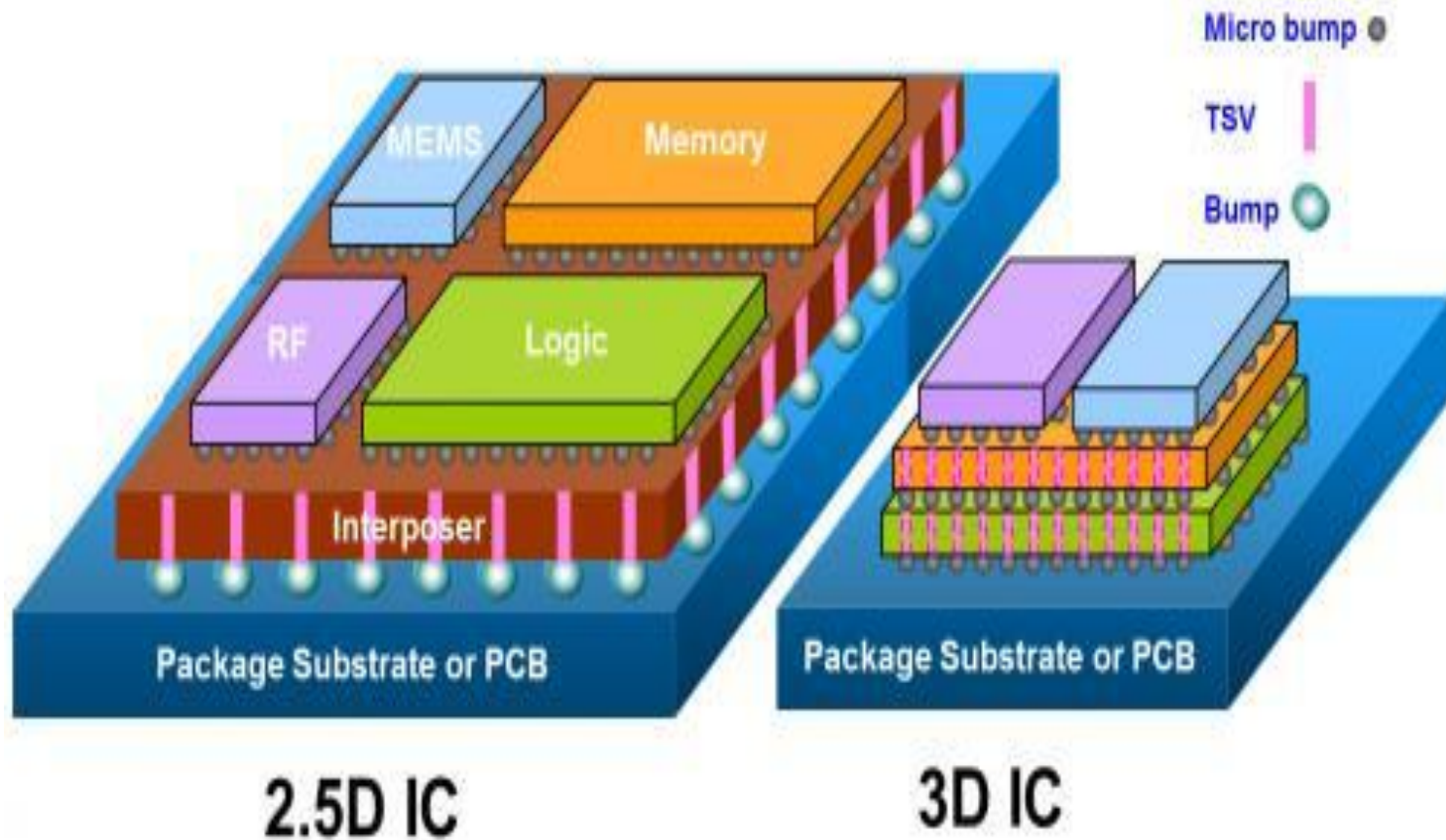


Source: TRI

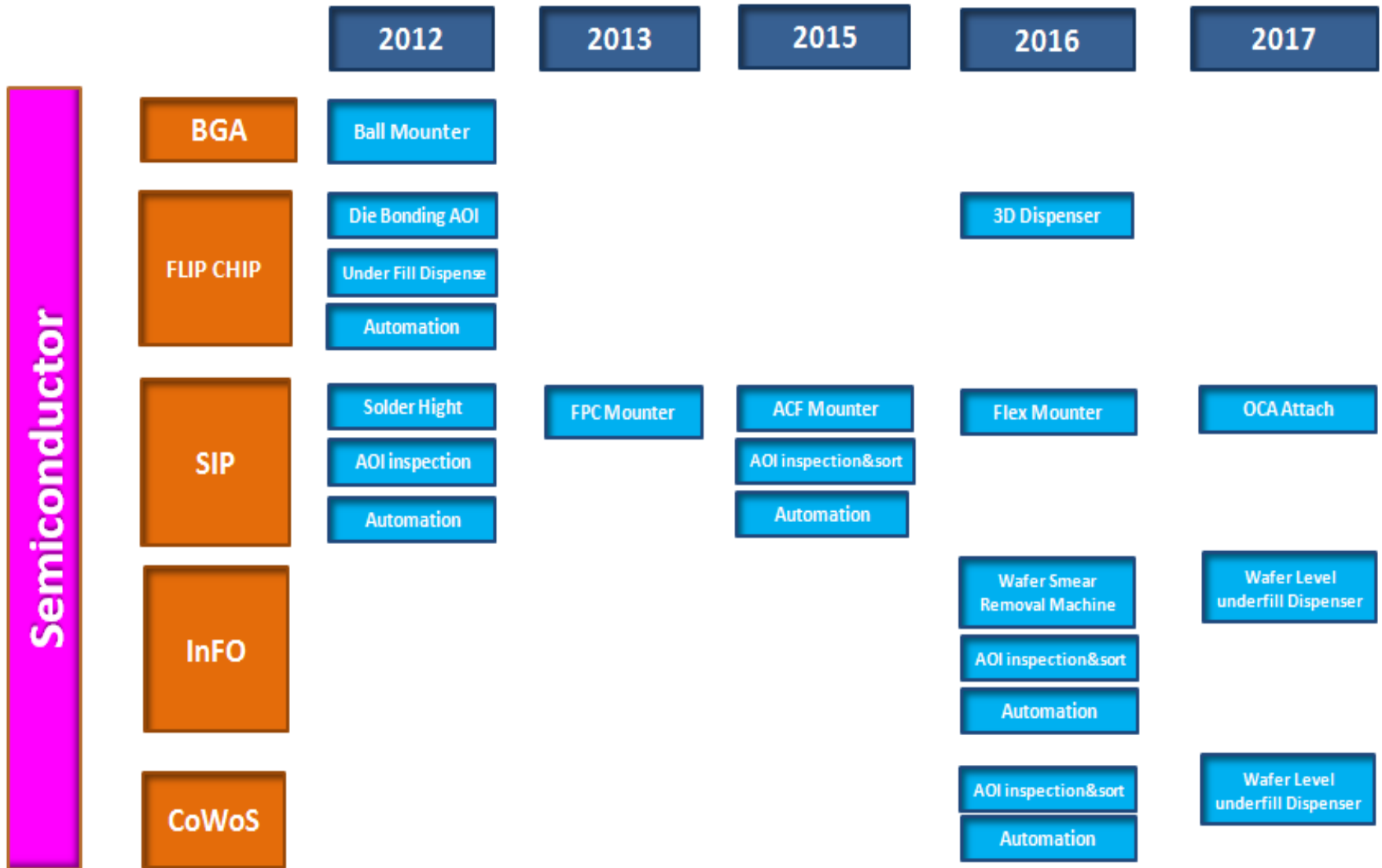
TSMC's InFO & CoWoS



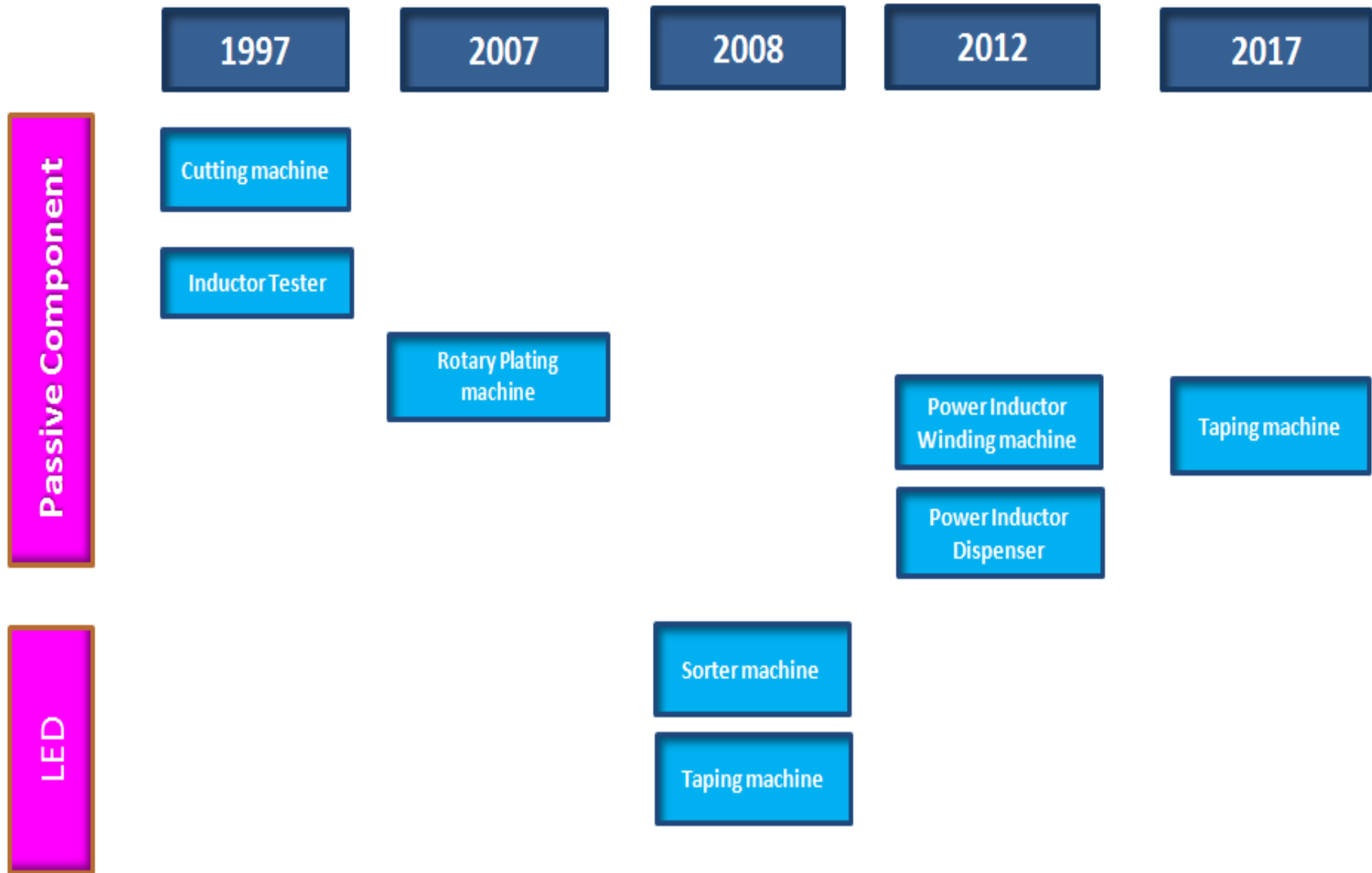
2.5D & 3D IC Packaging



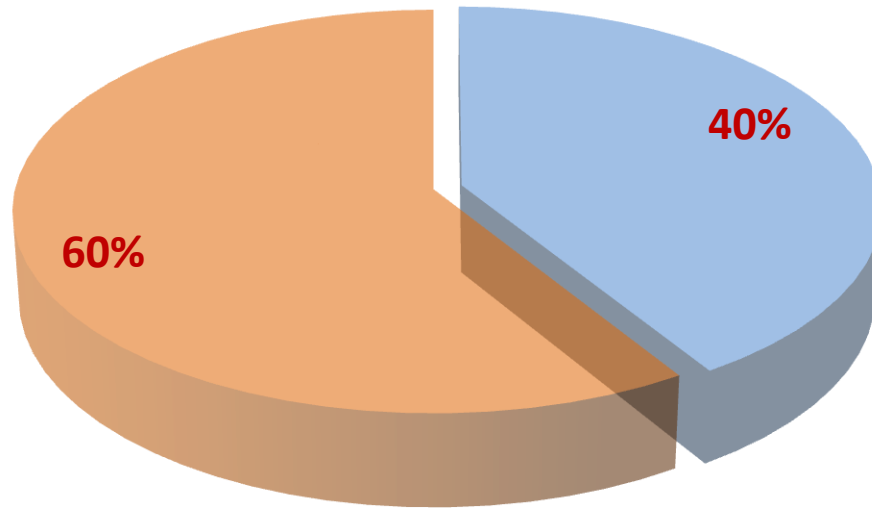
Product Portfolio—Semiconductor



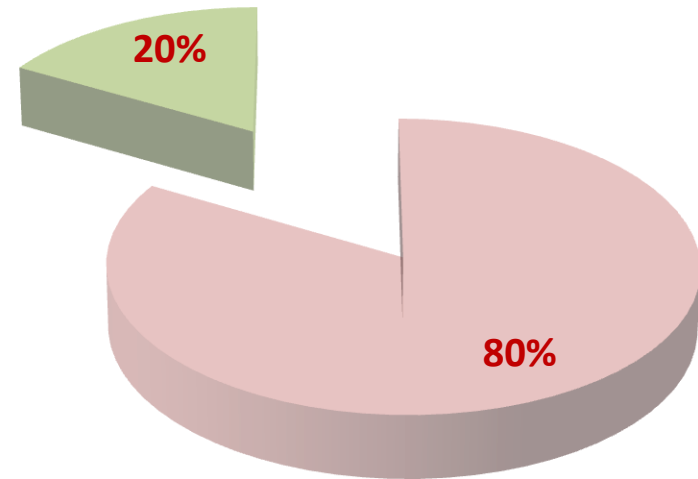
Product Portfolio—Passive Component/LED



Human Resources- R&D Background



■ Hardware
■ Software



■ Motion Programming
■ Visual System

Dispensing Pump (Valve) Line-Ups

Dispensing
Control

0.1mg $\pm$ 5%

INK- Jet Printer

Piezoelectric Jetting Pump

Jetting
Pump

Linear Pump

1mg $\pm$ 5%

Air pulse dispenser
simplified/basic/advanced

Screw Pump

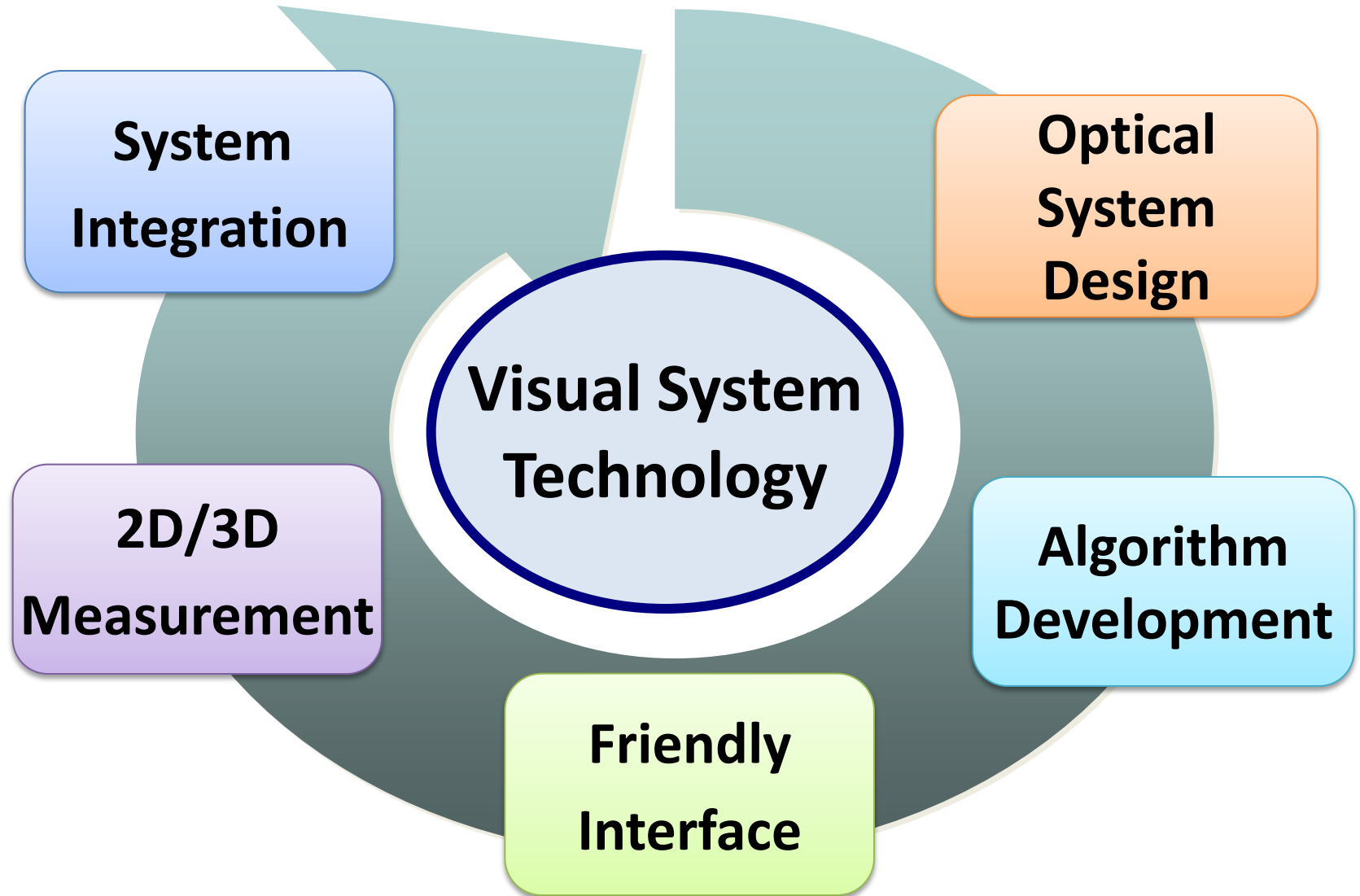
Spray Pump

10mg $\pm$ 5%

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

Viscosity

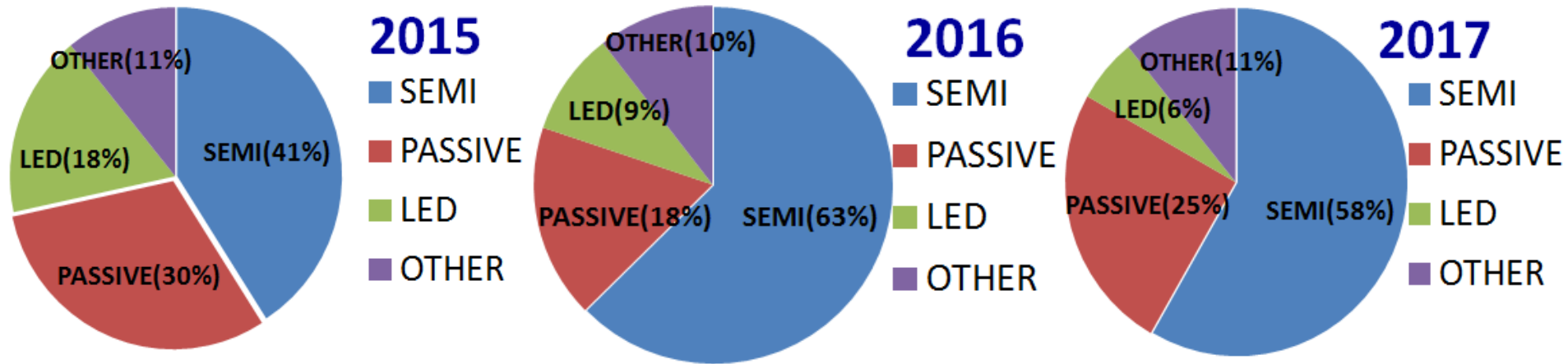
Visual System Technology



Customer Base

Semiconductor	Passive Component	LED
      	           	     

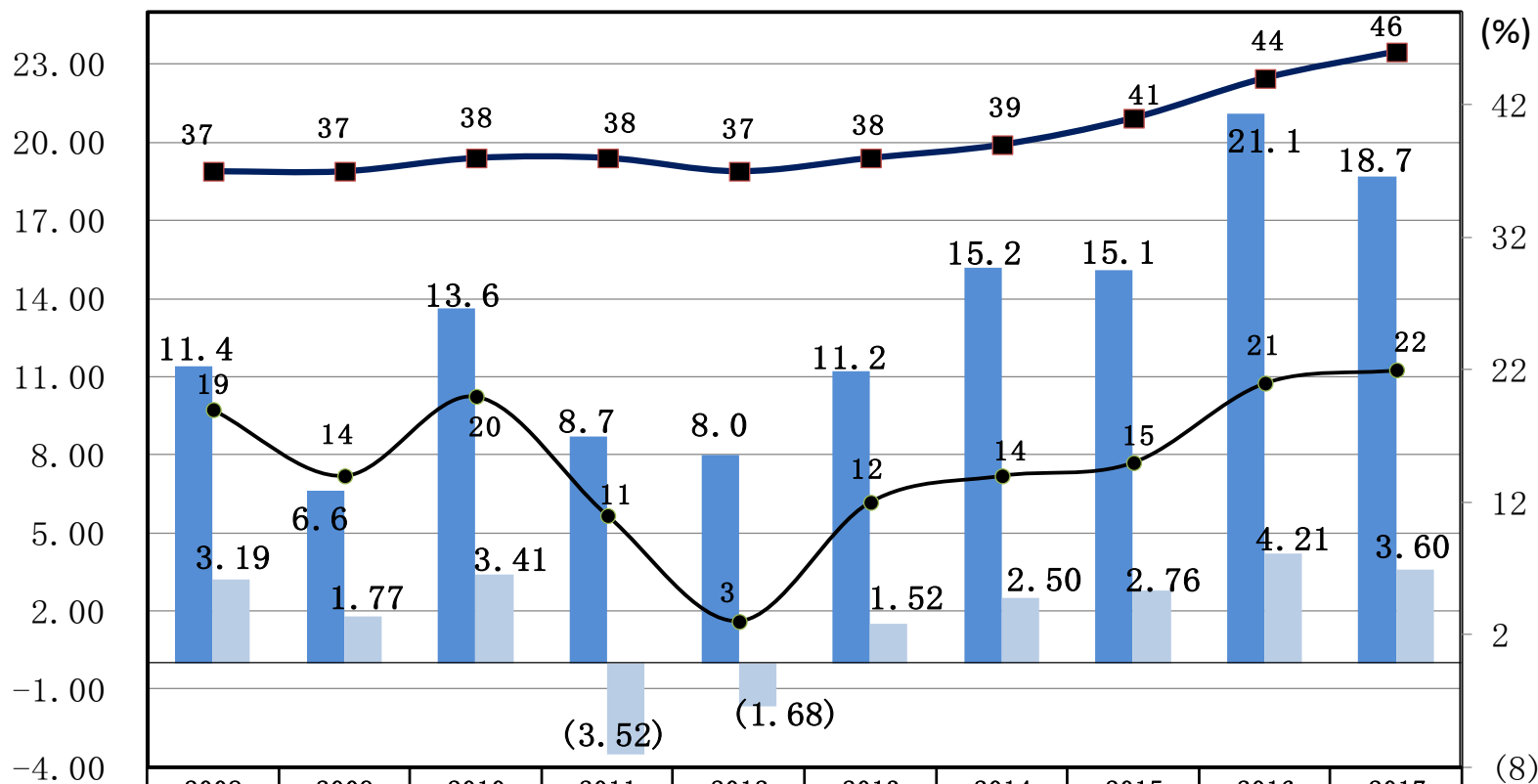
Revenue Breakdown



NT\$100M

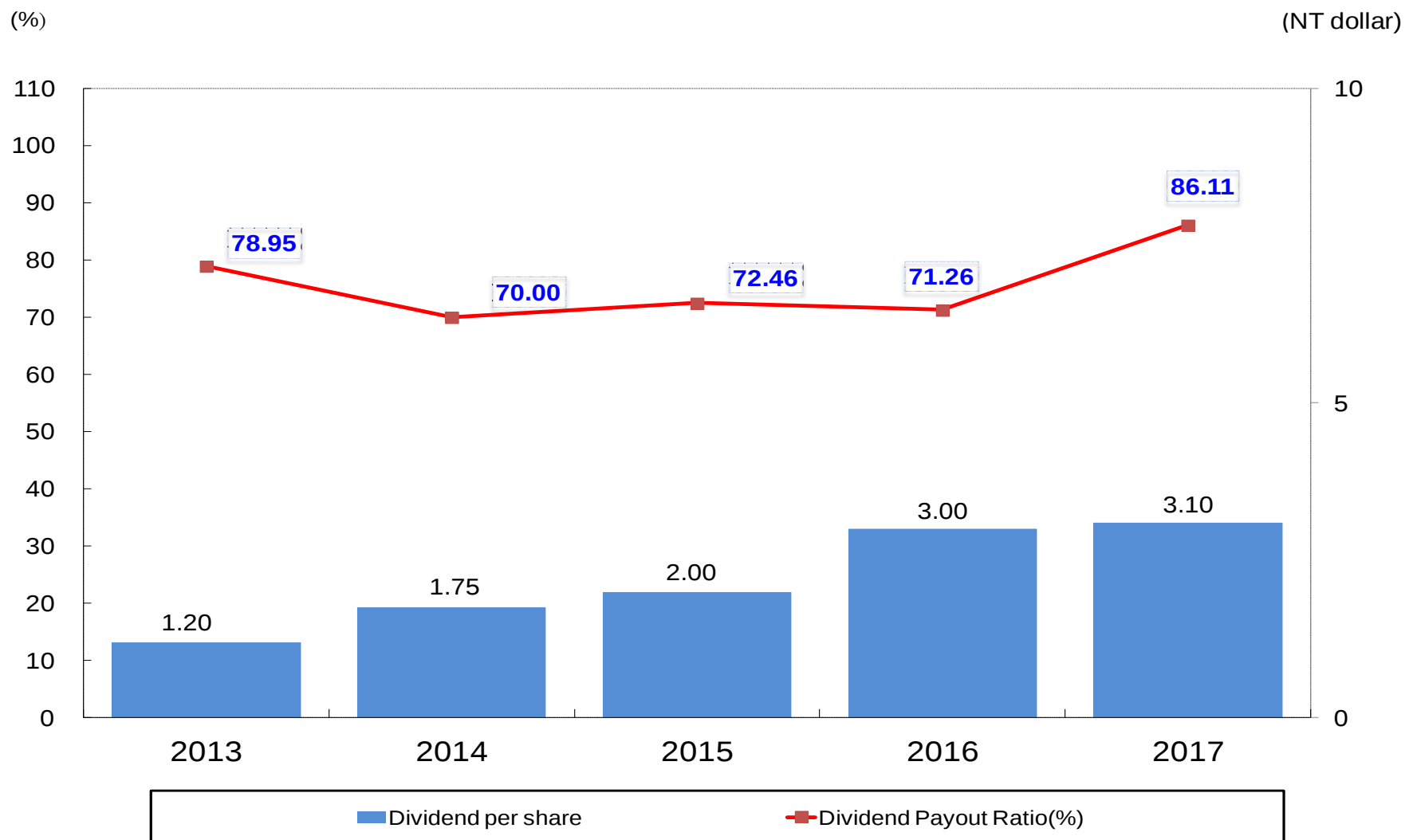
	2015			2016			2017		
SEMI	6.17	41%		13.23	63%		10.89	58%	
PASSIVE	4.62	30%		3.70	18%		4.64	25%	
LED	2.64	18%		1.97	9%		1.11	6%	
OTHER	1.64	11%		2.22	10%		2.03	11%	
TOTAL	15.07	100%		21.12	100%		18.67	100%	

Financial Highlights

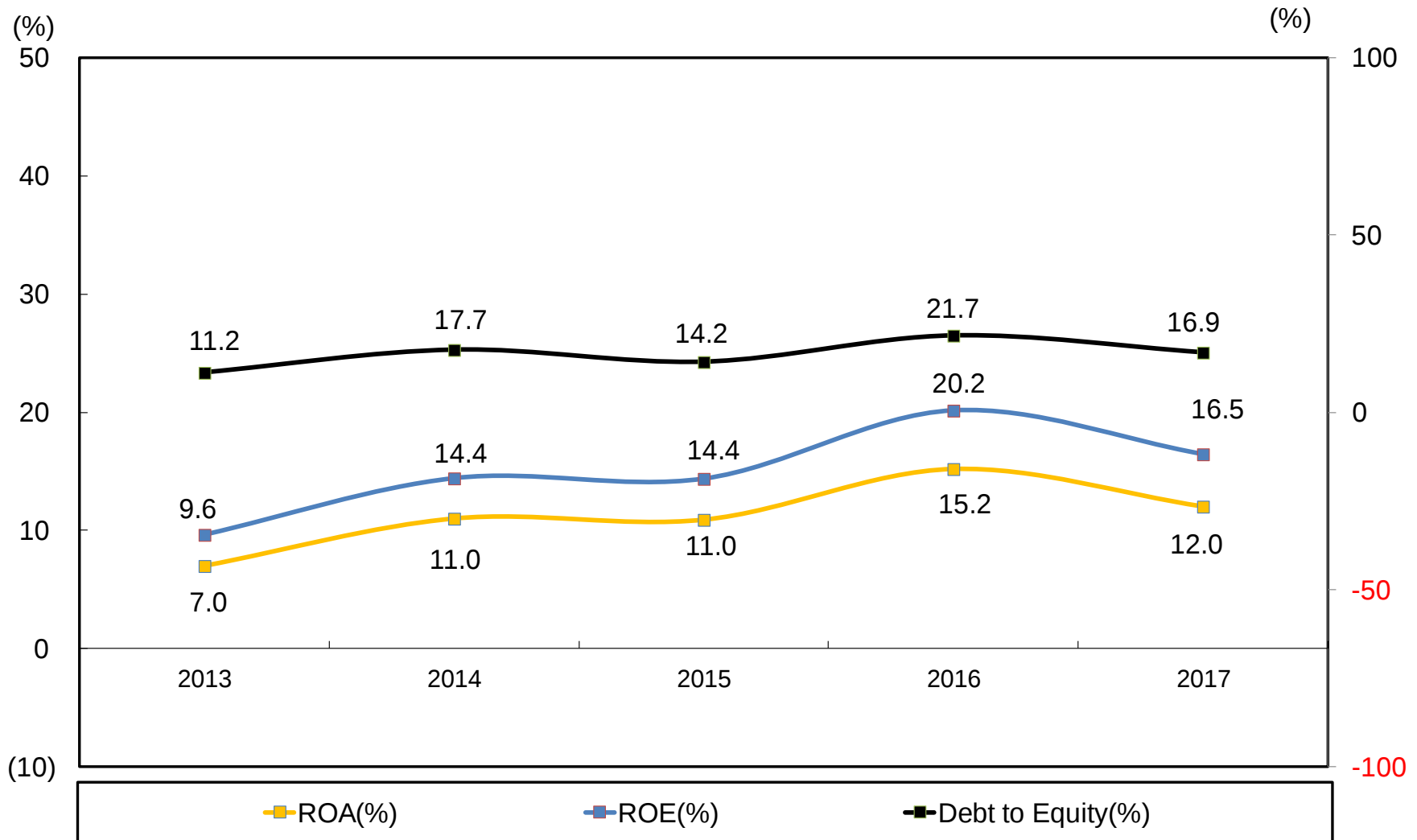


	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Sales (NT\$100mn)	11.4	6.6	13.6	8.7	8.0	11.2	15.2	15.1	21.1	18.7
EPS (NT\$)	3.19	1.77	3.41	(3.52)	(1.68)	1.52	2.50	2.76	4.21	3.60
GM (%)	37	37	38	38	37	38	39	41	44	46
OPM (%)	19	14	20	11	3	12	14	15	21	22

Financial Highlights



Financial Highlights



Q & A

