

**Industry Leading Provider of Outsourced
Semiconductor Assembly, Test & Bumping Services**

March 2020

Safe Harbor Notice

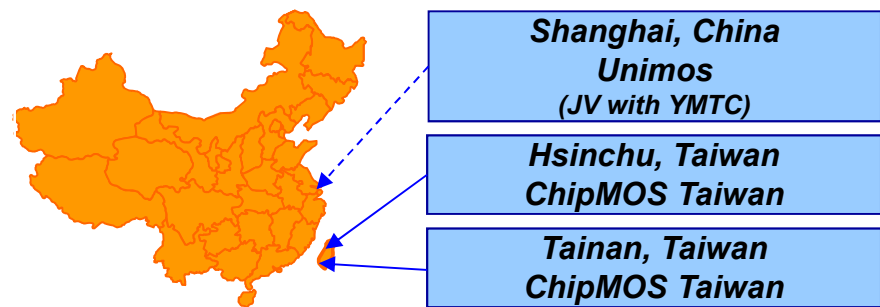
- ❖ This presentation contains certain forward-looking statements. These forward-looking statements may be identified by words such as ‘believes,’ ‘expects,’ ‘anticipates,’ ‘projects,’ ‘intends,’ ‘should,’ ‘seeks,’ ‘estimates,’ ‘future’ or similar expressions or by discussion of, among other things, strategy, goals, plans or intentions. These statements include financial projections and estimates and their underlying assumptions, statements regarding plans, objectives and expectations with respect to future operations, products and services, and statements regarding future performance. Actual results may differ materially in the future from those reflected in forward-looking statements contained in this document, due to various factors. Actual results may differ materially in the future from those reflected in forward-looking statements contained in this document, due to various factors. Further information regarding these risks, uncertainties and other factors are included in the Company’s most recent Annual Report on Form 20-F filed with the U.S. Securities and Exchange commission (the “SEC”) and in the Company’s other filings with the SEC.

Group Snapshot

Overview

- ❑ **Founded :** 1997
- ❑ **Headquarters :** Hsinchu, Taiwan
- ❑ **Ticker Symbol :** TWSE : 8150.TW
NASDAQ : IMOS (ADS)
- ❑ **Market Cap.¹:** 832.8MUSD
- ❑ **Employee¹:** 5,688

Footprint in Taiwan & China



	Hsinchu	Tainan	Shanghai	
Memory	Test	Assembly	Test	Assembly
Mixed-Signal	Test	Assembly		
Display Driver	Gold bump	COG/COF		

Business Focus Taiwan and Global customers China domestic market and YMTC's NAND project

(1) As of December 31, 2019.
 (2) The exchange rate was NT\$29.91 against to US\$1.00

ChipMOS Footprints

Headquarter

Hsinchu Science Park, Hsinchu City



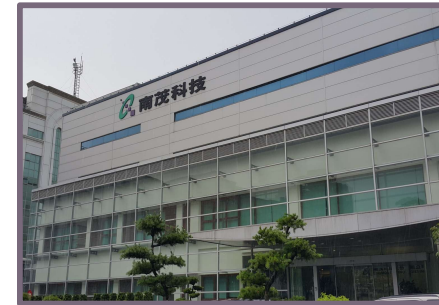
Huko, Hsinchu County



Chupei II, Hsinchu County



Chupei I, Hsinchu County



Southern Science Park, Tainan City

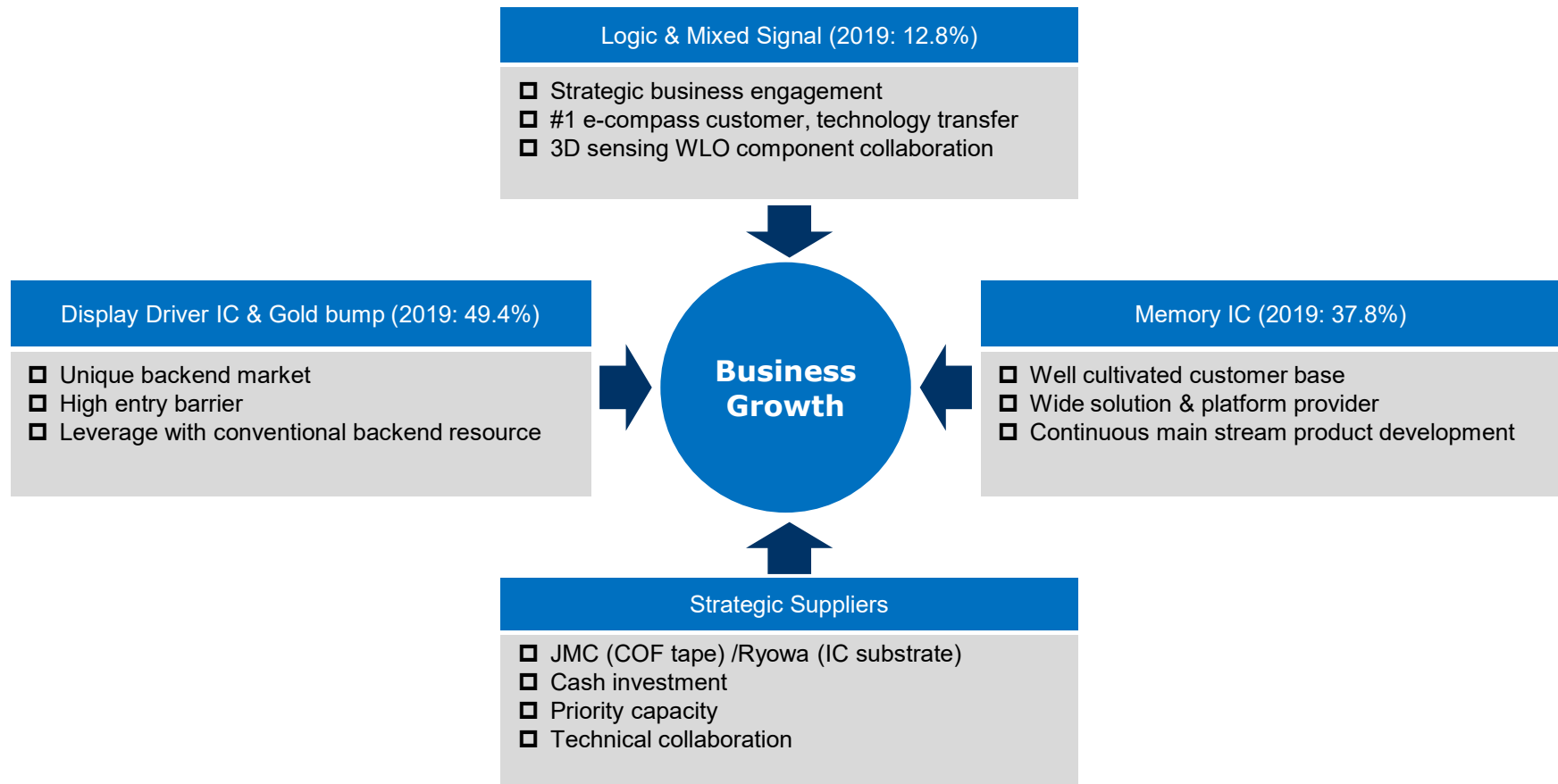


San Jose
ChipMOS U.S.A., Inc.

Shanghai  紫光宏茂
UNIMOS
(JV with YMTC)

Positioned in Specialized OSAT Markets

- ❑ Providing turnkey solutions for niche OSAT markets
- ❑ Owning specialized teams and resources to support customer in the fields
- ❑ Growing with operation performance and strategic alliance including customers and suppliers

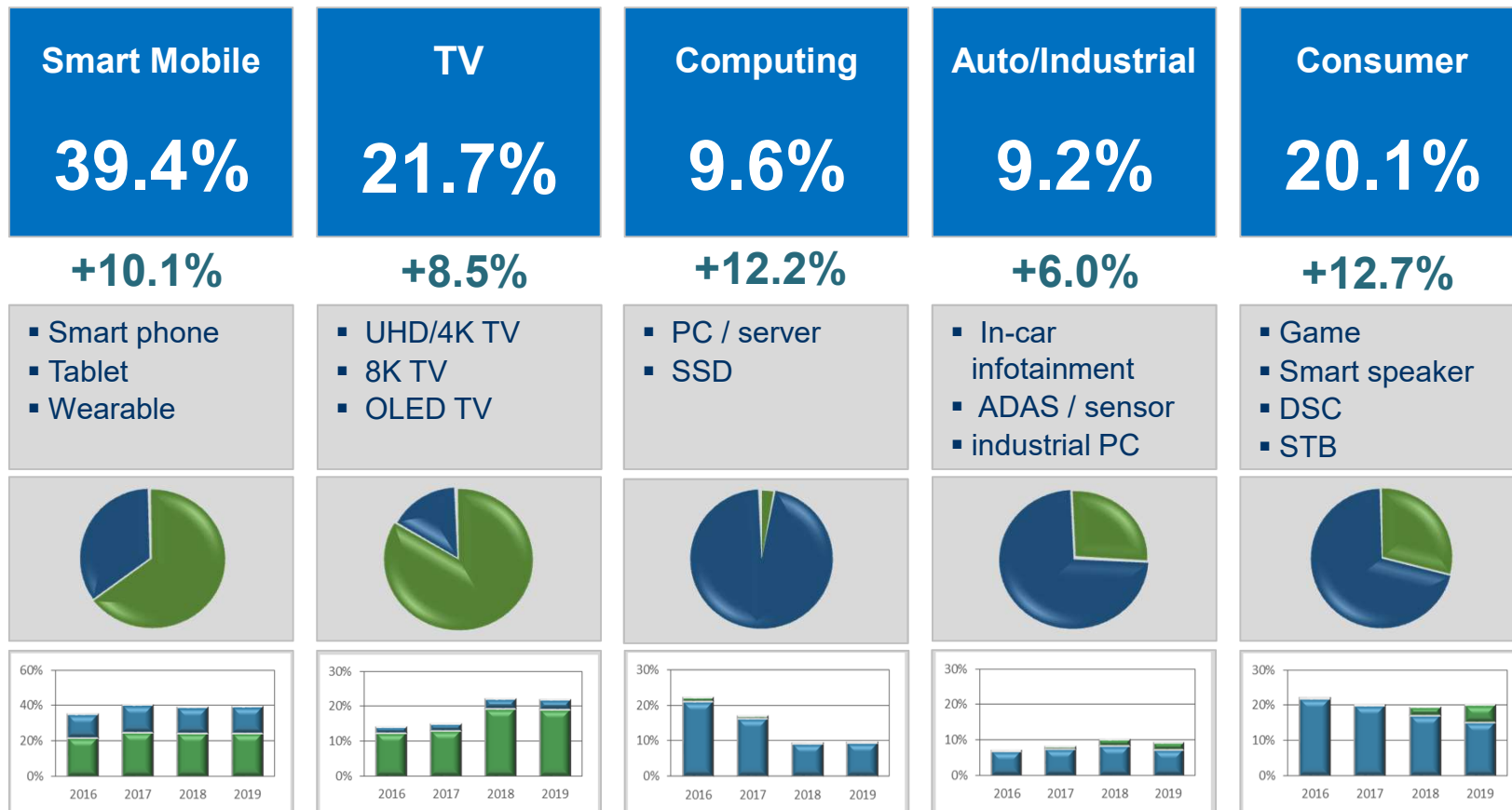


Business Operation Solutions for Customers



Diversified Product Application

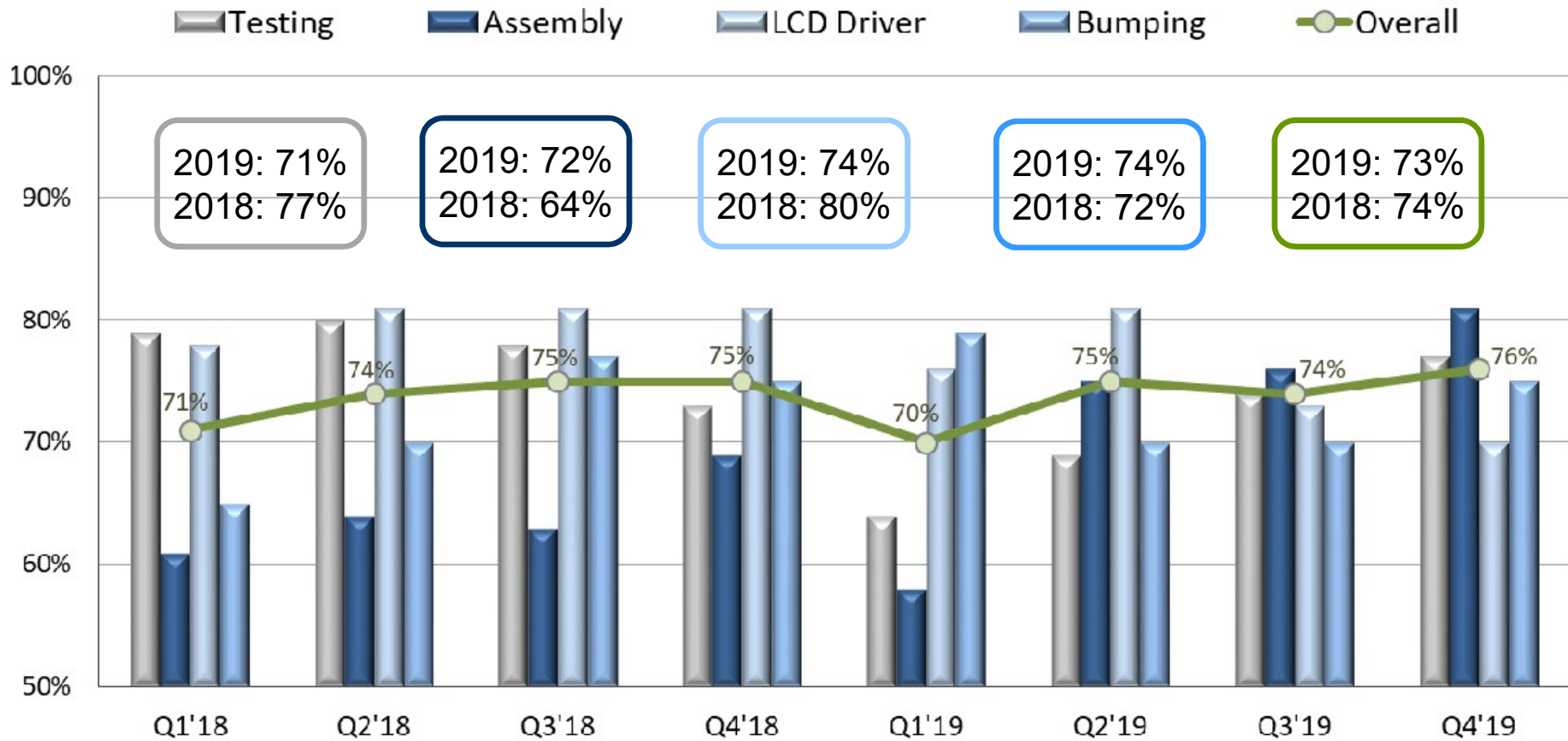
Content Performance of 2019



 DDIC & Gold bump

 Memory & Mixed-signal

Utilization



Financial Highlight – Quarterly Revenue & Gross Margin

Revenue

- Q4'19: NT\$5,571.5M (QoQ +3.2%, YoY +12.1%), 2019: NT\$20,337.9M (YoY +10.1%)

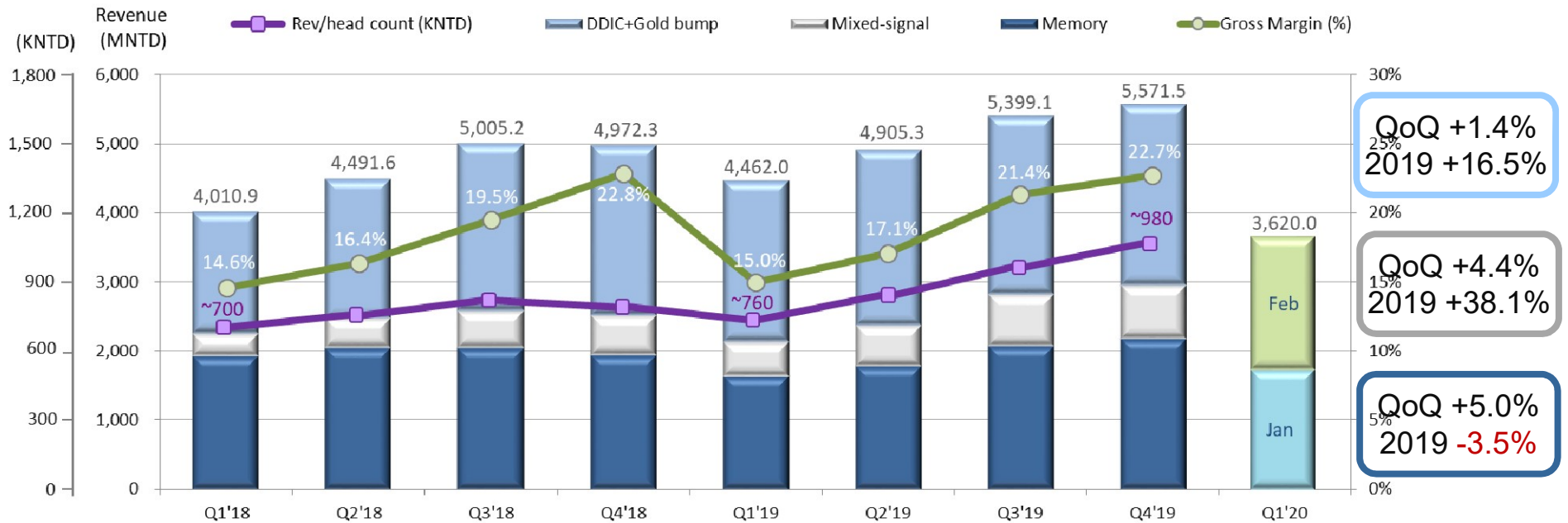
2020

- ✓ Jan: NT\$1,732.3M (MoM -5.0%, YoY +11.8%)

- ✓ Feb: NT\$1,887.7M (MoM +9.0%, YoY +42.1%)

- Gross Margin: Q4'19: 22.7% (QoQ +1.3ppts), 2019: 19.3% (YoY +0.7ppts)

- Rev. per head count: increased 29.2% from Q1'19 to Q4'19



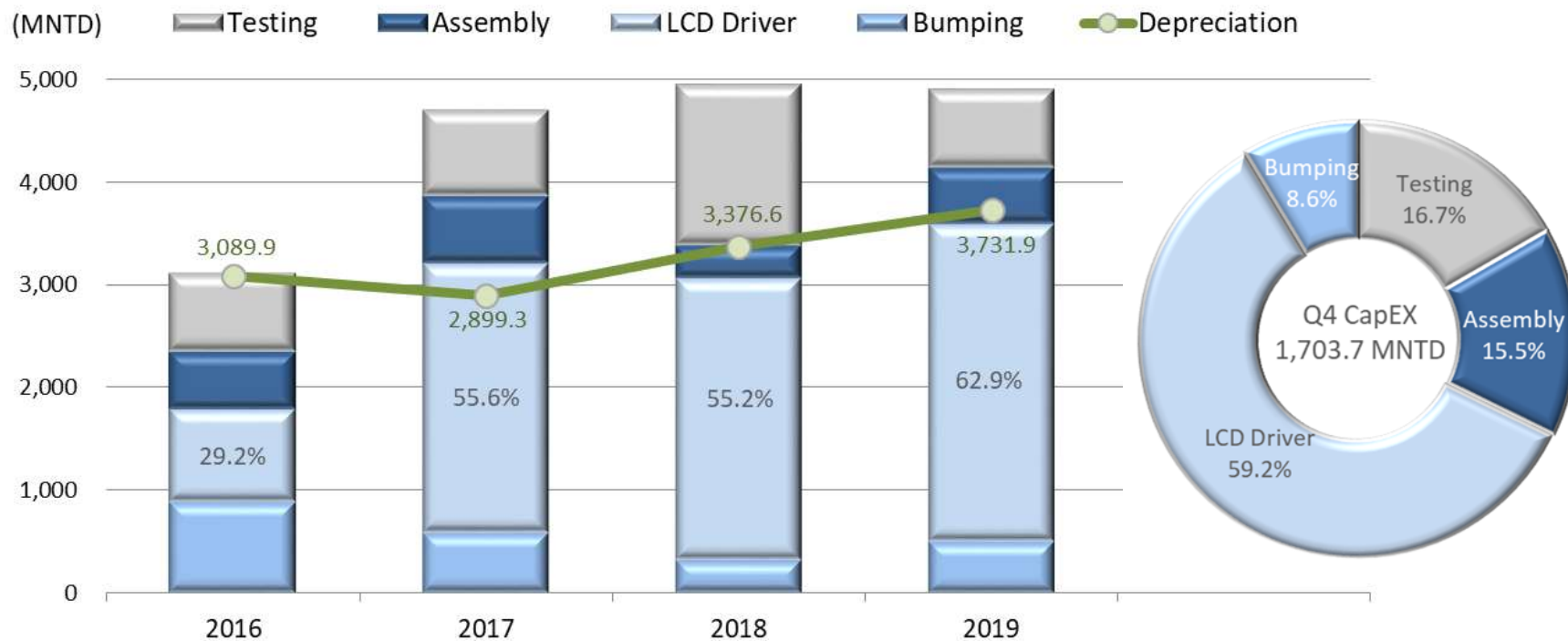
Financial Highlight – Capital Expenditures & Depreciation

CapEX

■ Q4'19: NT\$1,703.7M; 2019: NT\$4,896.7M

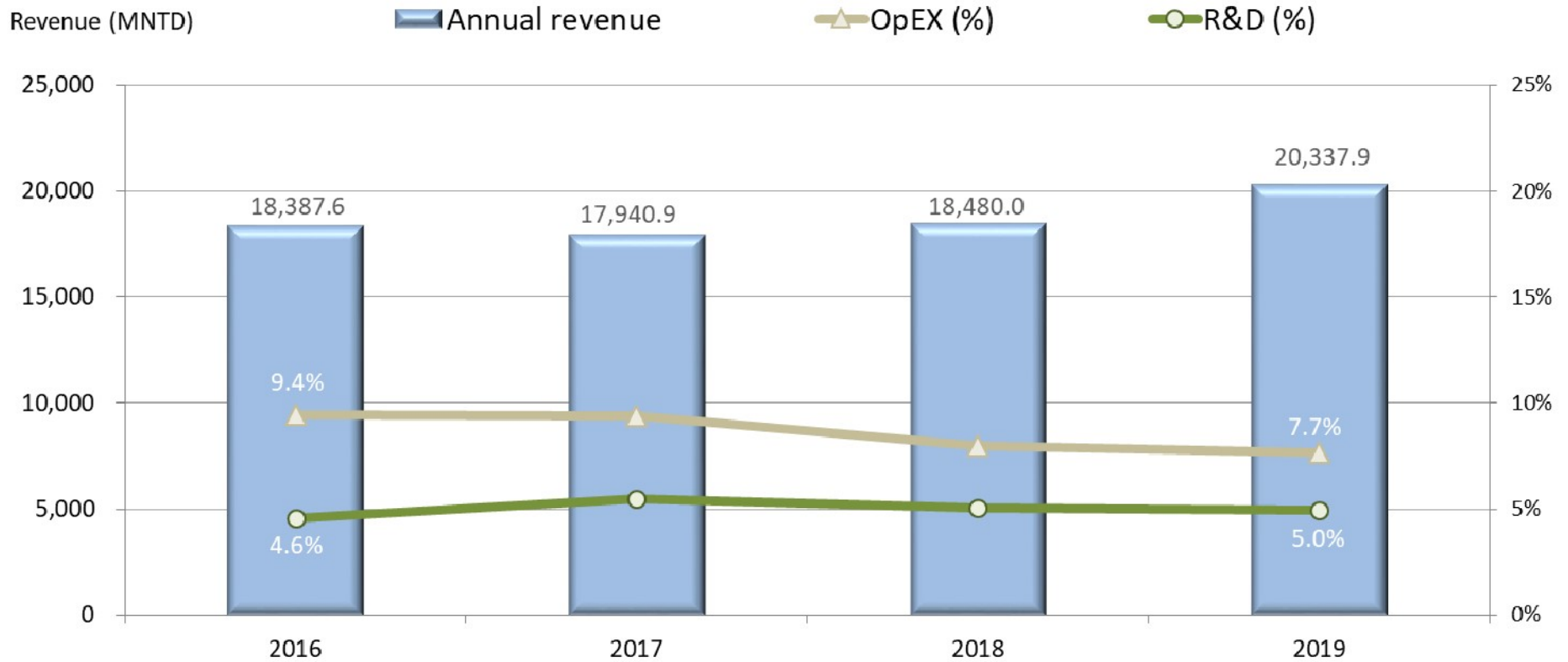
Depreciation

■ Q4'19: NT\$958.1M; 2019: NT\$3,731.9M



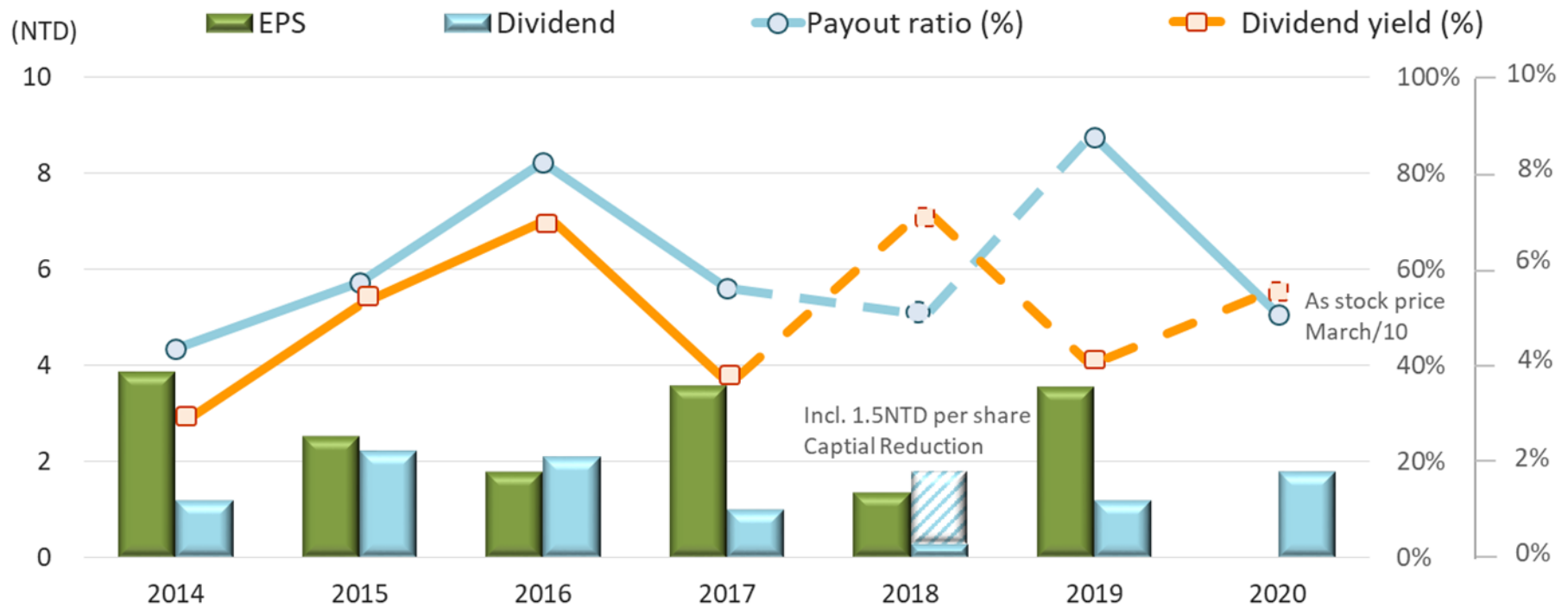
Financial Highlight – OpEX & R&D

- OpEX: Reduce from 9.4% (2016) to 7.7% (2019)
- R&D: 4.6~5%



EPS & Dividend

- Payout ratio (2014~2019): > 40%, average: ~63%
 - 2020 pending dividend: 1.8NTD, payout ratio 50.6%
- Dividend yield (2014~2019): > 3%, average: ~5.2%
 - 2020: 5.5% (as March/10)

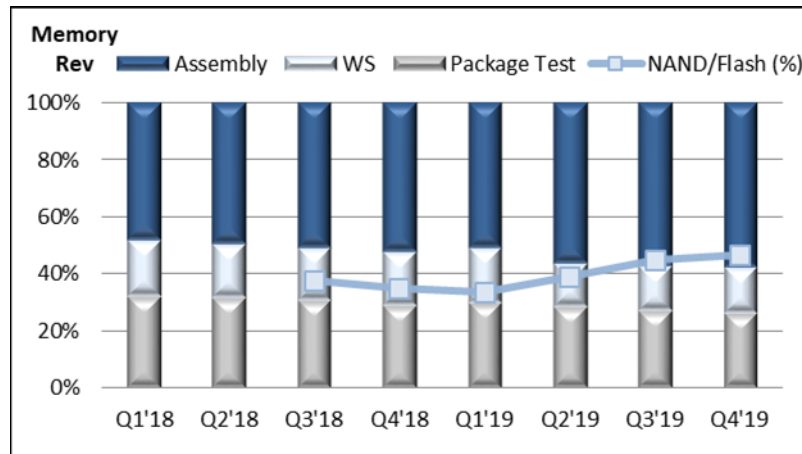
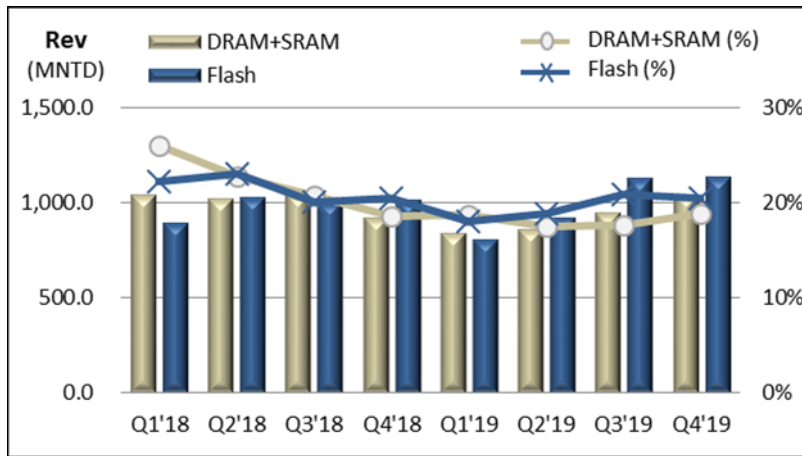


Note: 2019 Payout ratio = 2019 Dividend / 2018 EPS

Operation Performance

Memory IC

Q4'19: 39.2%



Key Message

□ DRAM+SRAM: 18.8%

- Customer destocking, demand keep stable

□ Flash: 20.4%

■ NOR Flash

- ✓ Customer destocking, maintain similar momentum of Q4'19

■ NAND Flash

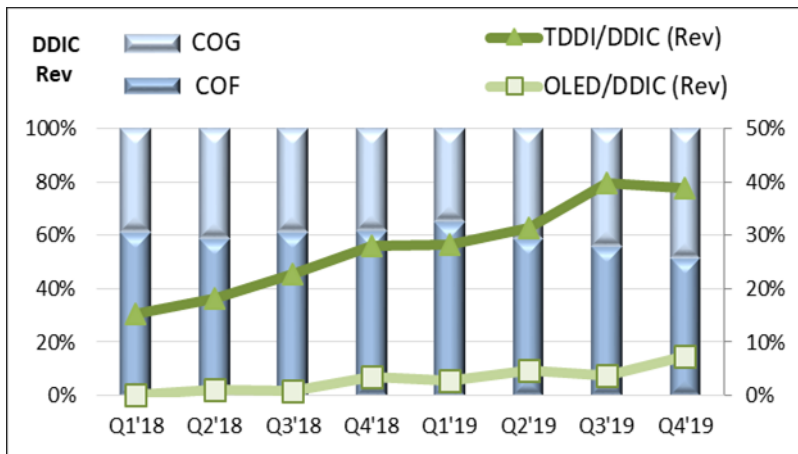
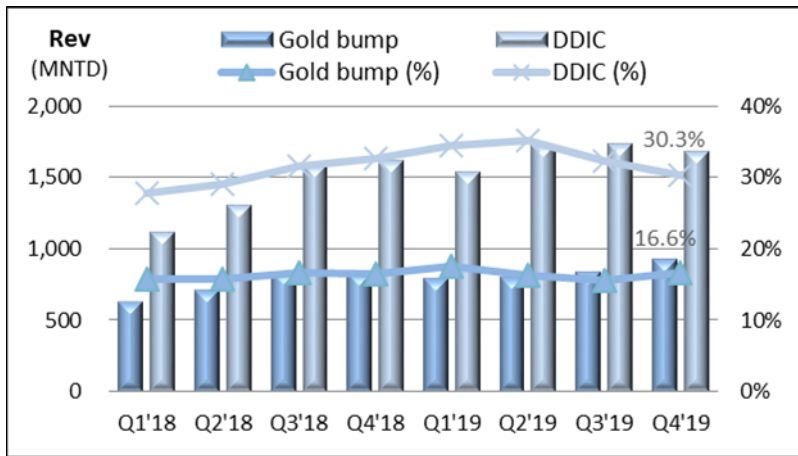
Leverage Module/Brand customers' business to maintain healthy stable assembly UT level.

- ✓ Customer maintain similar momentum of Q4'19

- ✓ NAND Flash represented about 47% of Q4 Flash revenue

Operation Performance (Cont'd)

DDIC & Gold bump
Q4'19: 46.9%

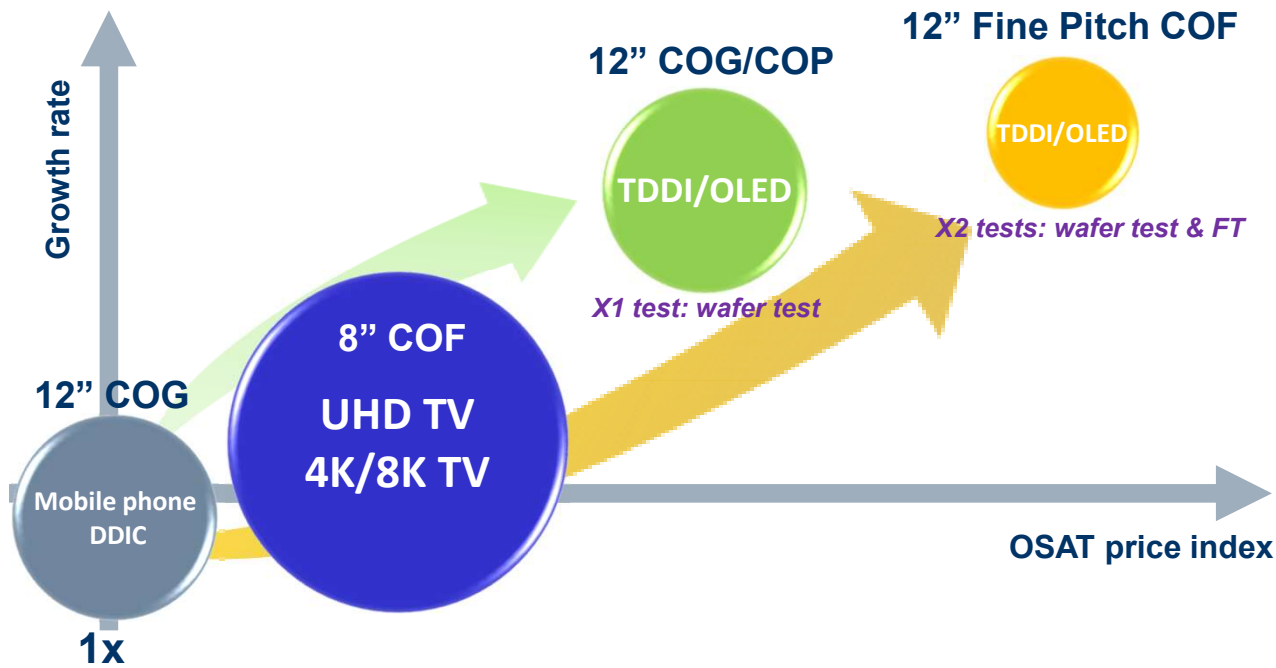


Key Message

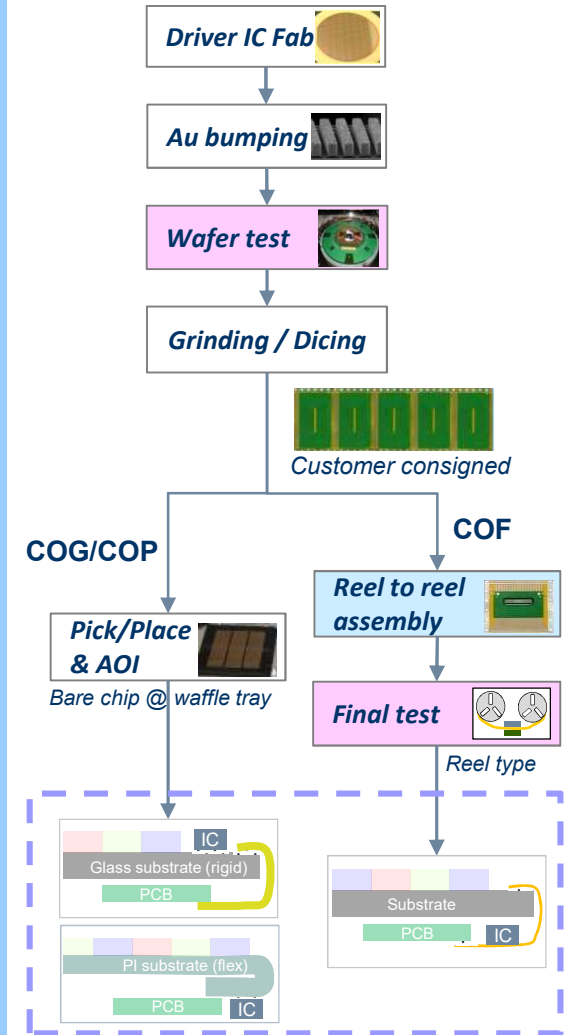
- ❑ Large Panel Display (TV)
 - Similar momentum of Q4'19 demand
- ❑ Small Panel Display (Smart phone):
 - Strong demand led by
 - TDDI continuously penetrates to HD grade panel, and continue growing in 2020
 - ✓ Represented around 40% of Q4 DDIC revenue
 - OLED panel driver IC intensifying is emerging in FHD+ grade panel, and significant growth in 2020
 - ✓ Represented about 7.3% of Q4 DDIC revenue

Leverage DDIC Growth by COF & TDDI Penetration

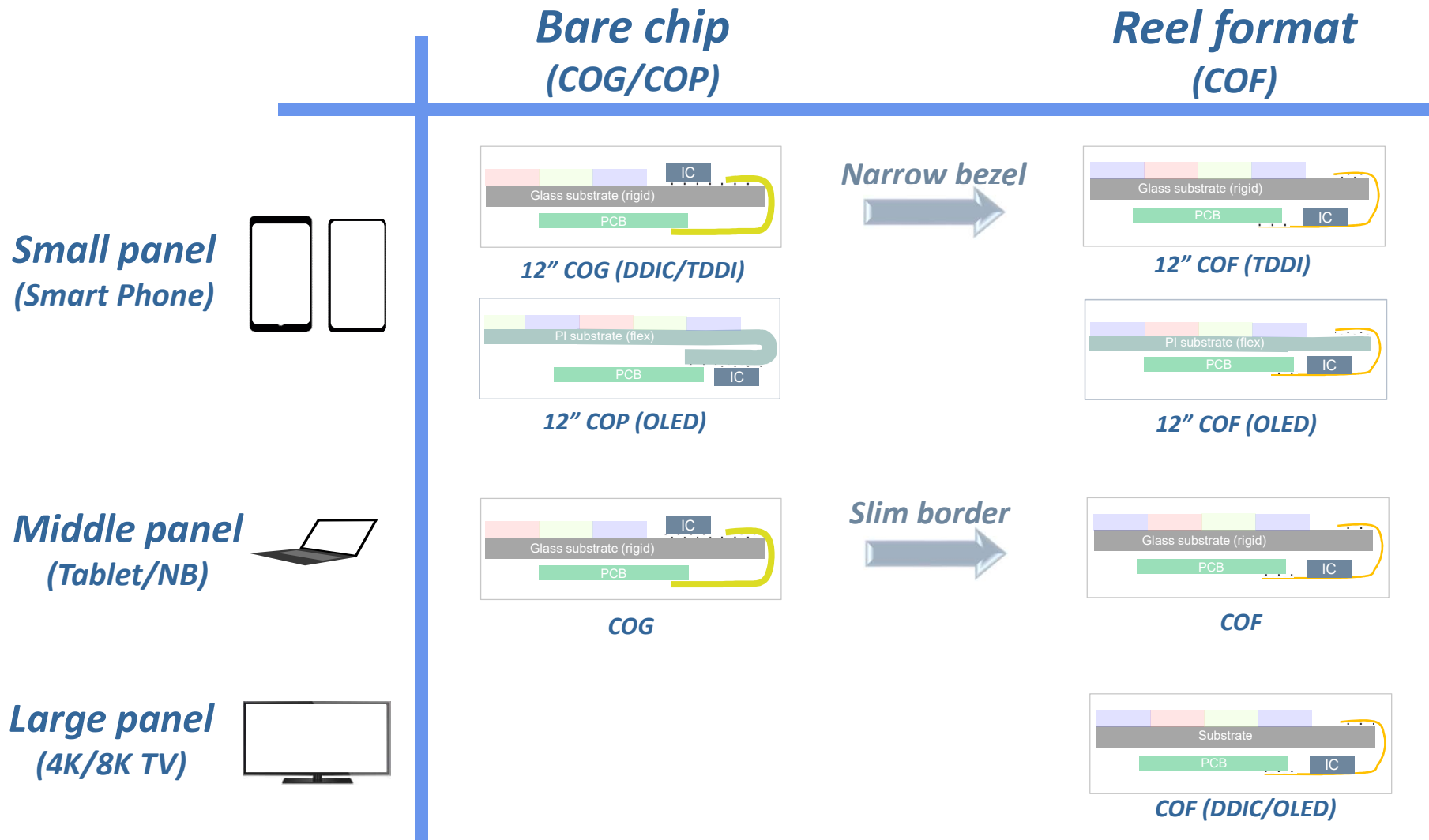
- ❑ TV: 8K emerging **FHD»4K»8K**
- ❑ TDDI: ~3x wafer testing time compared to DDIC
 - Test items increasing for integrating additional functions
FHD » FHD+HD
- ❑ OLED: higher-end test platform using
 - COP is same as COG format and process flow in OSAT
Over flow business » +China OLED supply chain



DDIC OSAT Flow

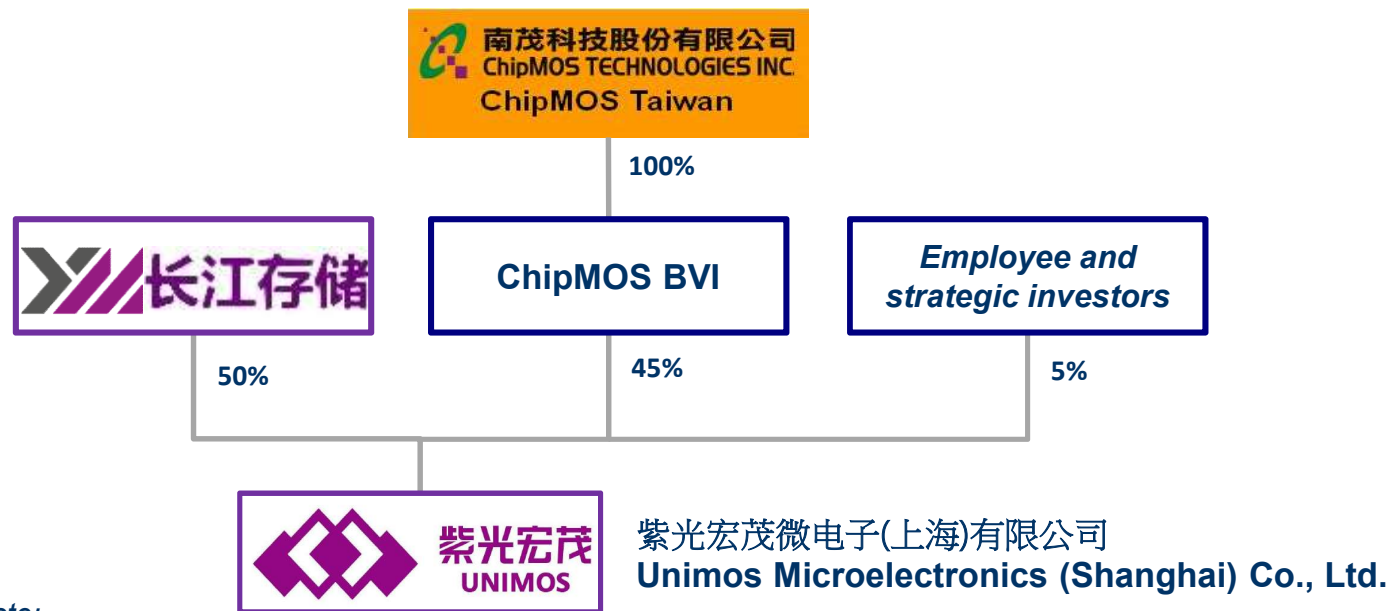


Display Driver IC vs Panel Comparison



Corporate Holding Structure

- ❑ Except for being the investors of Unimos, there are no other legal relationship between ChipMOS and Tsinghua Unigroup/YMTC.
- ❑ The technology transfer between ChipMOS and Unimos had been completed. ChipMOS no longer provides any technology to Unimos.
- ❑ Unimos becomes a long-term investment of ChipMOS and recognized profit/loss pro rata. ChipMOS is not responsible for the business performance of Unimos.



Note:

1. ChipMOS Shanghai already changed company name to Unimos since Jul/4'18.
2. Unigroup transferred the equity of Unimos to YMTC (Yangtze Memory Technologies Co. Ltd.) since Dec. 2019

ChipMOS ESG Performance

■ Environmental 環境面

國家企業環保獎金級獎
暨 榮譽環保企業獎座

Gold grade of National Enterprise
Environmental Protection Award
& Honorary Environmental
Protection Enterprise Award

- ✓ **Renewable energy**
(Solar energy generation)
7,126戶家庭每月用電量
8年再生能源(太陽能)累計發電數
- ✓ **Water resource recycle**
(Process recycling water)
3,218座國際標準泳池
12年製程回收水成果
- ✓ **CO2 reduction**
45座大安森林公園
8年來節能減碳成效

■ Social 社會面

人才發展品質管理系統
銀牌(TTQS)

Silver grade of Talent Quality-
Management System (TTQS)

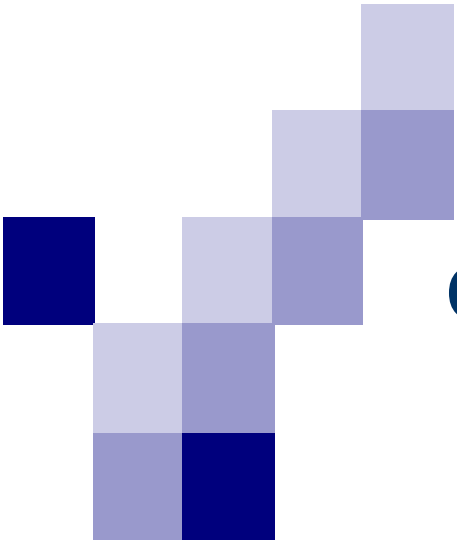
- ✓ **Excellent Gender Equality
in Employment**
推動職場工作平權優等
108年榮獲竹科/南科園區管理局肯定
- ✓ **Grant university student**
14,620,000元
7年產學合作青年培育總投入
- ✓ **Family group insurance**
21,427,416元
2019年家庭式團保支付總額

■ Governance 治理面

台灣TOP50
永續企業獎

Top 50 Taiwan Corporate Sustainability
Awards of 2019 Taiwan Corporate
Sustainability Awards (TCSA)

- ✓ **Corporate Governance**
21~35% 第5屆公司治理評鑑結果
- ✓ **SDGs**
3年 連續3年榮獲TCSA台灣永續獎
Awarded TCSA Corporate Sustainability
for 3 consecutive years
- ✓ **108年度績優營業人**
獲財政部北區國稅局肯定

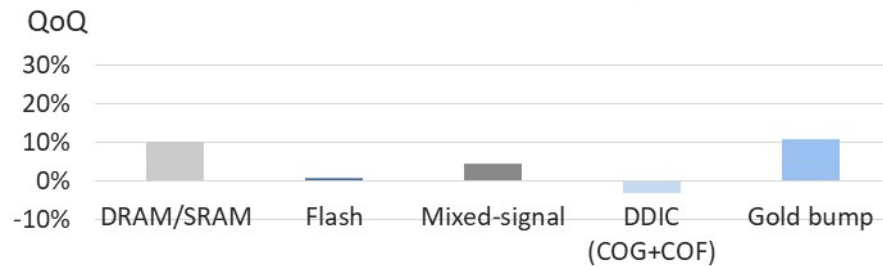
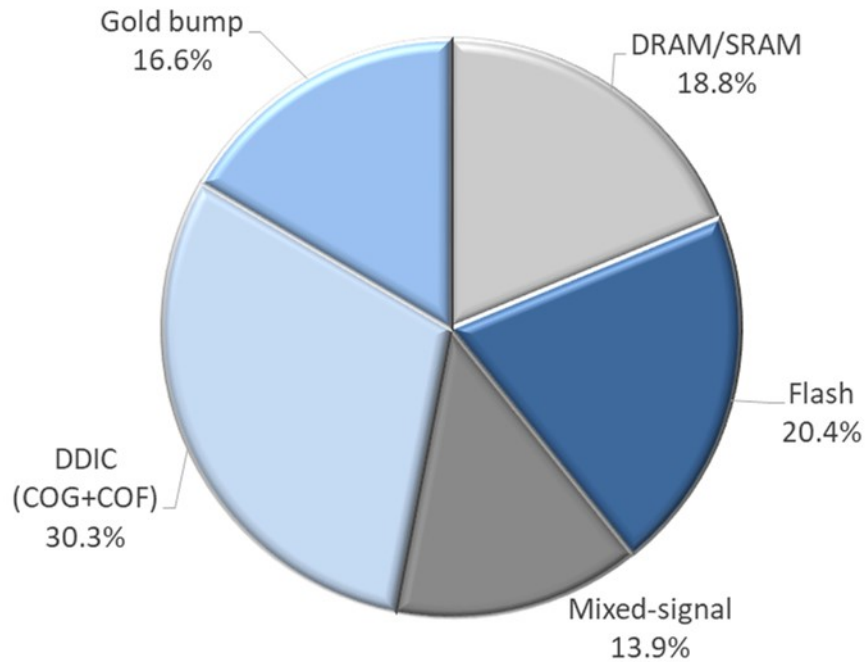


Q4'19 & 2019 Financial Results

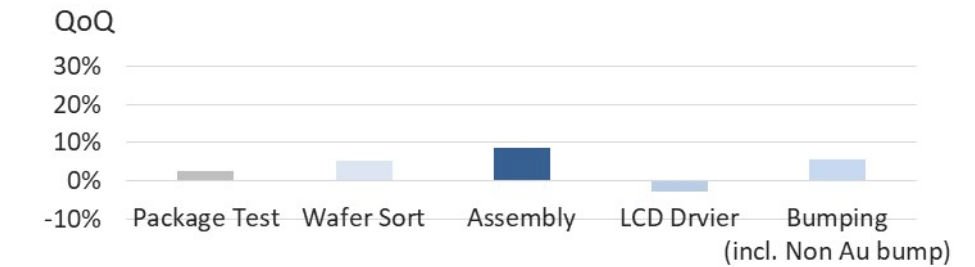
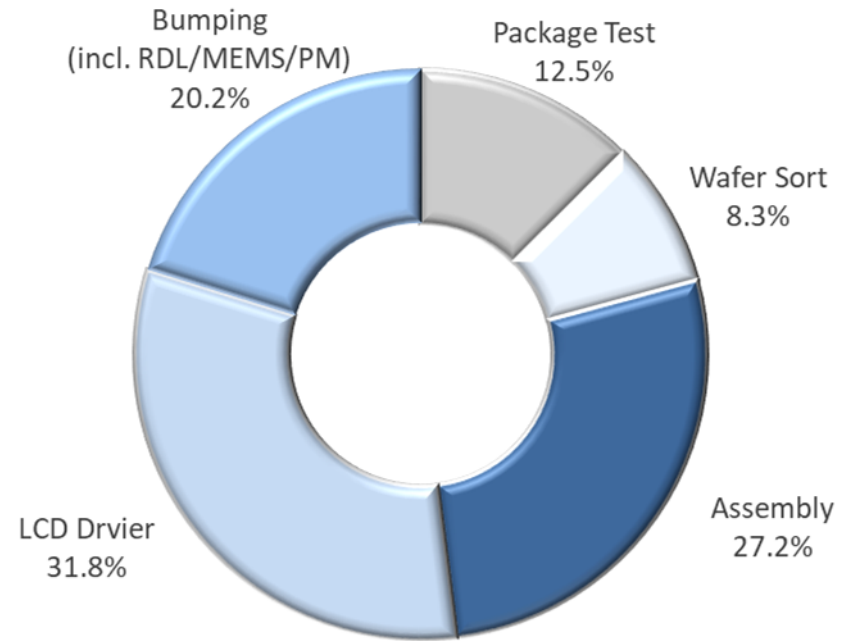


Financial Highlight – Q4'19 Breakdown (unaudited)

Revenue by Product Segment



Revenue by Manufacturing Site



Consolidated Operating Results Summary (unaudited)

(NT\$ Millions)	Q4'19	Q3'19	Q4'18
Revenue	5,571.5	5,399.1	4,972.3
Profit Attributable to the Company	530.0	585.9	516.6
EPS Attributable to the Company - Basic (NT\$)	0.73	0.81	0.71
Earnings per ADS equivalent - Basic (US\$) ⁽¹⁾	0.49	0.54	0.48
Depreciation & Amortization	958.1	953.2	861.2
CapEx	1,703.7	1,847.9	1,706.0
EBITDA ⁽²⁾	1,858.7	1,739.0	1,653.1
Return on Equity (%) ⁽³⁾	10.9%	12.4%	11.6%

Notes :

(1) The exchange rate was NT\$29.91 against to US\$1.00

(2) EBITDA = Operating Profit + Depreciation & Amortization

(3) Annualized return on equity to the Company for the quarter

Consolidated Statements of Comprehensive Income (unaudited)

Selected Items from Consolidated Statements of Comprehensive Income

(NT\$ Millions)	Q4'19	Q3'19	QoQ	Q4'18	YoY
Revenue	5,571.5	5,399.1	3.2%	4,972.3	12.1%
Gross Profit	1,266.9	1,152.8	9.9%	1,134.8	11.6%
Gross Margin	22.7%	21.4%	1.3ppts	22.8%	-0.1ppts
Operating Expenses	-392.0	-393.0	0.3%	-368.0	-6.5%
Operating Profit	900.6	785.8	14.6%	791.9	13.7%
Operating Profit Margin	16.2%	14.6%	1.6ppts	15.9%	0.3ppts
Non-operating Income (Expenses)	-224.7	-54.7	-310.8%	-100.8	-122.9%
Profit Attributable to the Company	530.0	585.9	-9.5%	516.6	2.6%
EPS Attributable to the Company - Basic (NT\$)	0.73	0.81	-9.9%	0.71	2.8%
Weighted Average Shares Outstanding (in thousands) - Basic	727,240	727,240	0.0%	726,925	0.04%
EPS Attributable to the Company - Diluted (NT\$)	0.73	0.80	-8.8%	0.71	2.8%
Weighted Average Shares Outstanding (in thousands) - Diluted	729,443	729,827	-0.1%	730,212	-0.1%

Consolidated Statements of Comprehensive Income (unaudited)

Selected Items from Consolidated Statements of Comprehensive Income

(NT\$ Millions)	2019	2018	YoY
Net Revenue	20,337.9	18,480.0	10.1%
Gross Profit	3,926.1	3,430.0	14.5%
Gross Margin	19.3%	18.6%	0.7ppts
Operating Expenses	-1,561.9	-1,477.8	-5.7%
Operating Profit	2,457.1	2,099.7	17.0%
Operating Profit Margin	12.1%	11.4%	0.7ppts
Non-operating Income (Expenses)	573.2	-317.3	280.6%
Profit Attributable to the Company	2,584.2	1,103.1	134.3%
EPS Attributable to the Company - Basic (NT\$)	3.55	1.37	159.1%
Earnings per ADS equivalent - Basic (US\$) ⁽¹⁾	2.38	0.92	158.7%
Weighted Average Shares Outstanding (in thousands) - Basic	727,111	802,725	-9.42%
EPS Attributable to the Company - Diluted (NT\$)	3.51	1.36	158.1%
Earnings per ADS equivalent - Diluted (US\$) ⁽¹⁾	2.34	0.91	157.1%
Weighted Average Shares Outstanding (in thousands) - Diluted	737,116	813,707	-9.4%

Note :

(1) The exchange rate was NT\$29.91 against to US\$1

Consolidated Statements of Financial Position & Key Indices (unaudited)

Selected Items from Consolidated Statements of Financial Position

(NT\$ Millions)	Q4'19		Q3'19		Q4'18	
	Amount	%	Amount	%	Amount	%
Current Assets	11,762.4	34.3%	12,382.4	36.1%	11,888.1	35.9%
Non-current Assets	22,543.5	65.7%	21,959.6	63.9%	21,245.6	64.1%
Total Assets	34,305.9	100.0%	34,342.0	100.0%	33,133.7	100.0%
Current Liabilities	4,901.7	14.3%	5,028.3	14.6%	5,190.2	15.7%
Non-current Liabilities	9,753.0	28.4%	10,162.8	29.6%	9,872.7	29.8%
Total Liabilities	14,654.7	42.7%	15,191.1	44.2%	15,062.9	45.5%
Total Equity	19,651.2	57.3%	19,150.9	55.8%	18,070.8	54.5%
Total Liabilities and Equity	34,305.9	100.0%	34,342.0	100.0%	33,133.7	100.0%
Key Indices						
A/R Turnover Days	80		83		87	
Inventory Turnover Days	38		38		43	

Consolidated Statements of Cash Flows (unaudited)

(NT\$ Millions)	2019	2018
Cash and Cash Equivalents at Beginning of Year	4,642.5	8,035.7
Net Cash Generated from(used in) Operating Activities	5,992.9	4,129.3
Net Cash Generated from(used in) Investing Activities	-4,248.3	-5,129.4
Net Cash Generated from(used in) Financing Activities	-1,677.3	-2,400.4
Effect of Exchange Rate Change on Cash	-5.7	7.3
Cash and Cash Equivalents at End of Year	4,704.1	4,642.5
Free Cash Flow	-133.3	-507.9

Company Website

■ <https://www.chipmos.com>

