

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

February 2021

Safe Harbor Notice

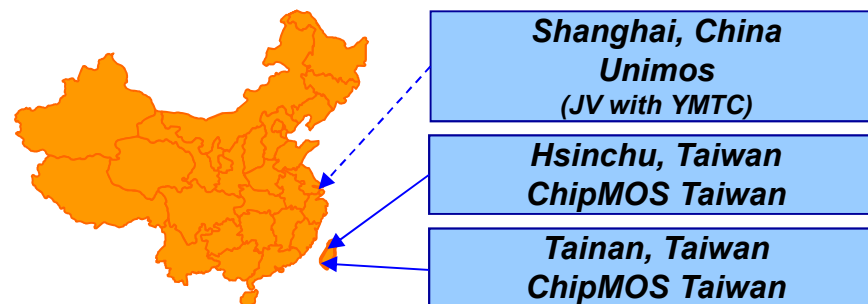
- ❖ This presentation contains certain forward-looking statements. These forward-looking statements may be identified by words such as ‘believes,’ ‘expects,’ ‘anticipates,’ ‘projects,’ ‘intends,’ ‘should,’ ‘seeks,’ ‘estimates,’ ‘future’ or similar expressions or by discussion of, among other things, 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, including the potential impact of COVID-19. 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:** 24,980.7MNTD
(889.6MUSD²)
- ❑ **Employee¹:** 5,465

Footprint in Taiwan & China



Hsinchu Tainan



Shanghai

	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, 2020.
 (2) The exchange rate was NT\$28.08 against to US\$1.00

ChipMOS Footprints

Headquarter

Hsinchu Science Park, Hsinchu City



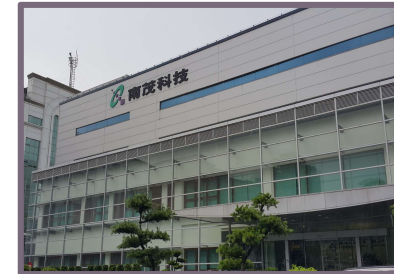
Huko, Hsinchu County



Chupei II, Hsinchu County



Chupei I, Hsinchu County



Southern Science Park, Tainan City



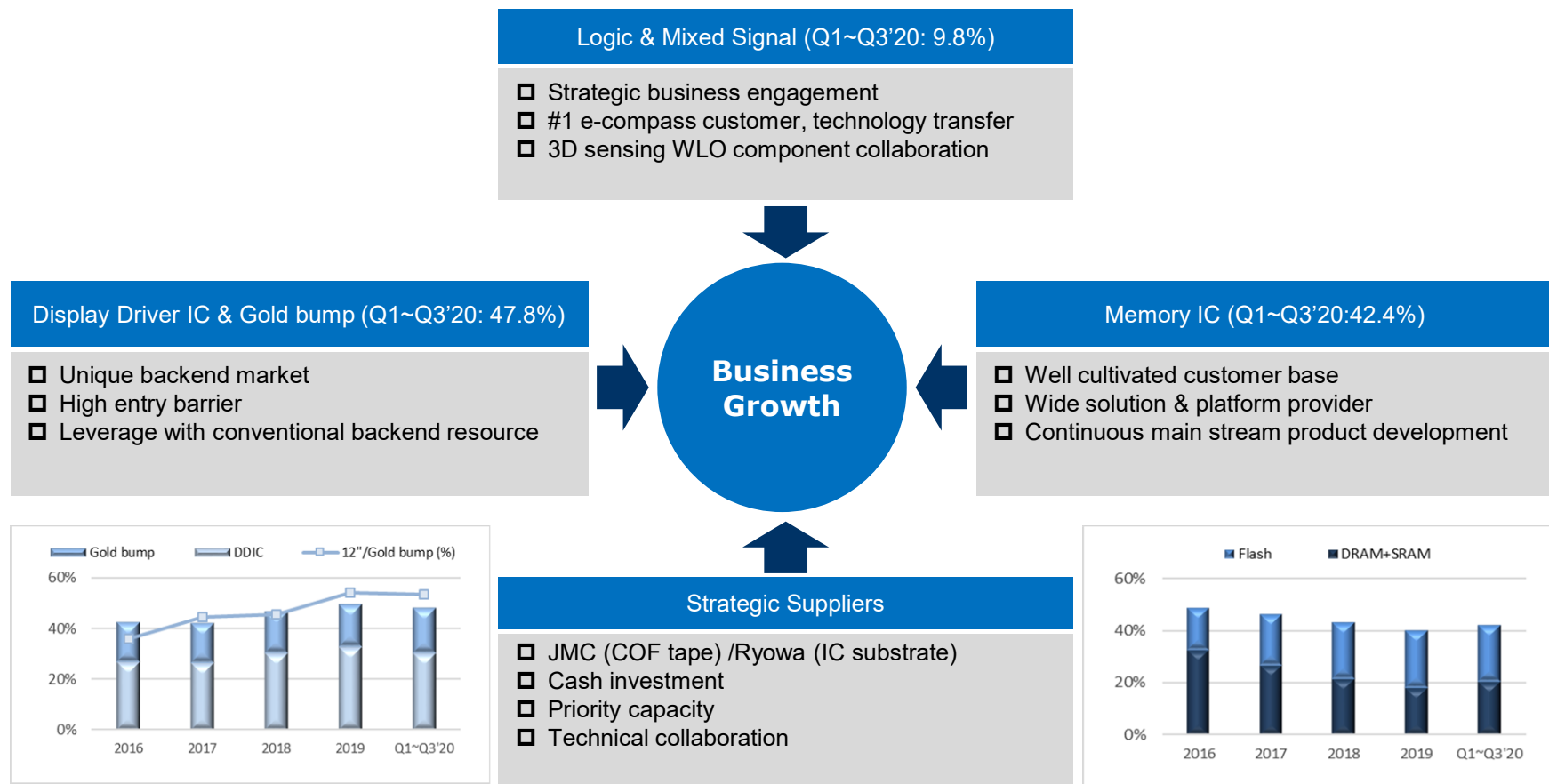
San Jose
ChipMOS U.S.A., Inc.



Shanghai
紫光宏茂 Unimos
ChipMOS Semiconductors (Shanghai) LTD.

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

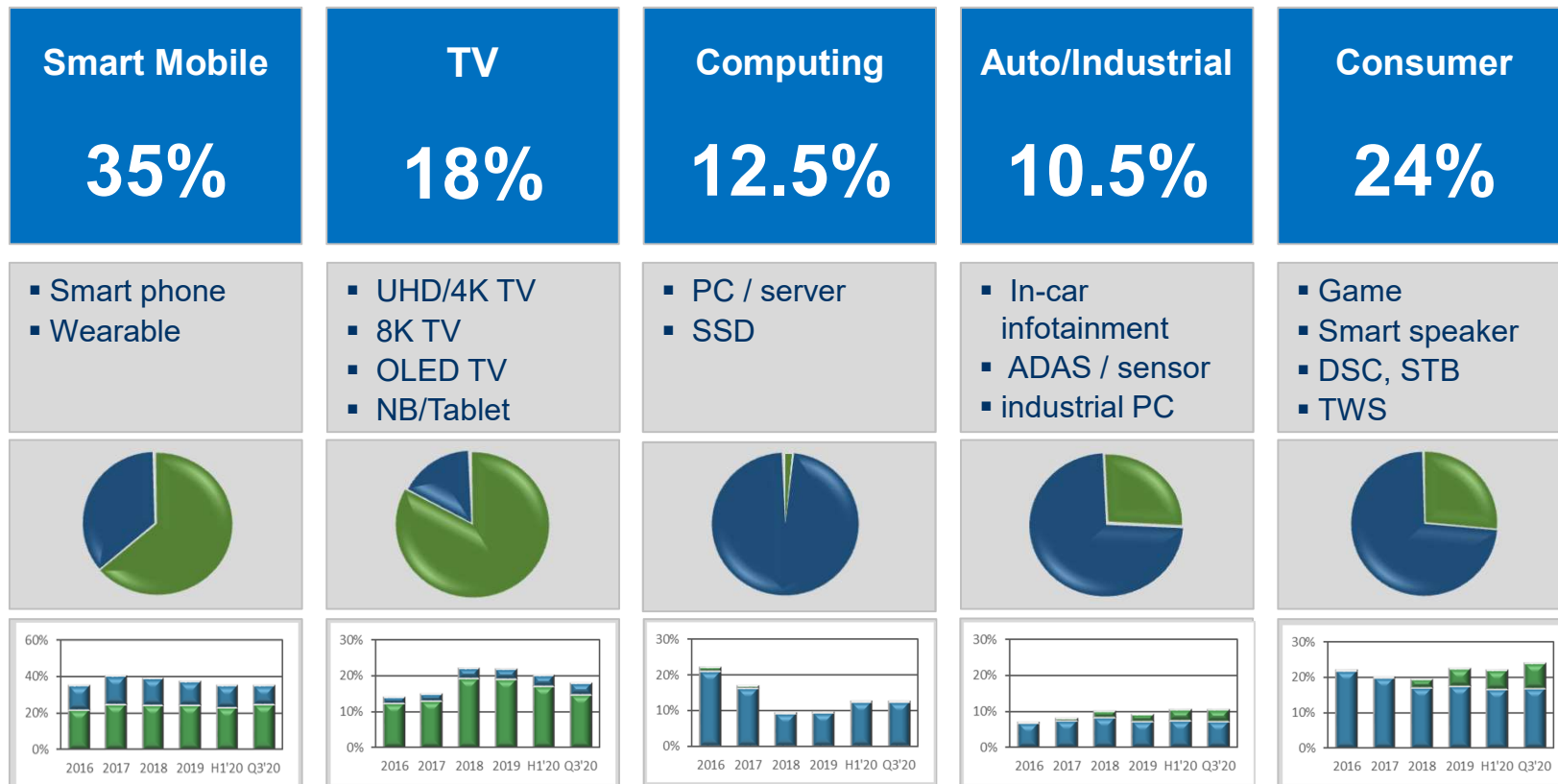


Business Operation Solutions for Customers



Diversified Product Application

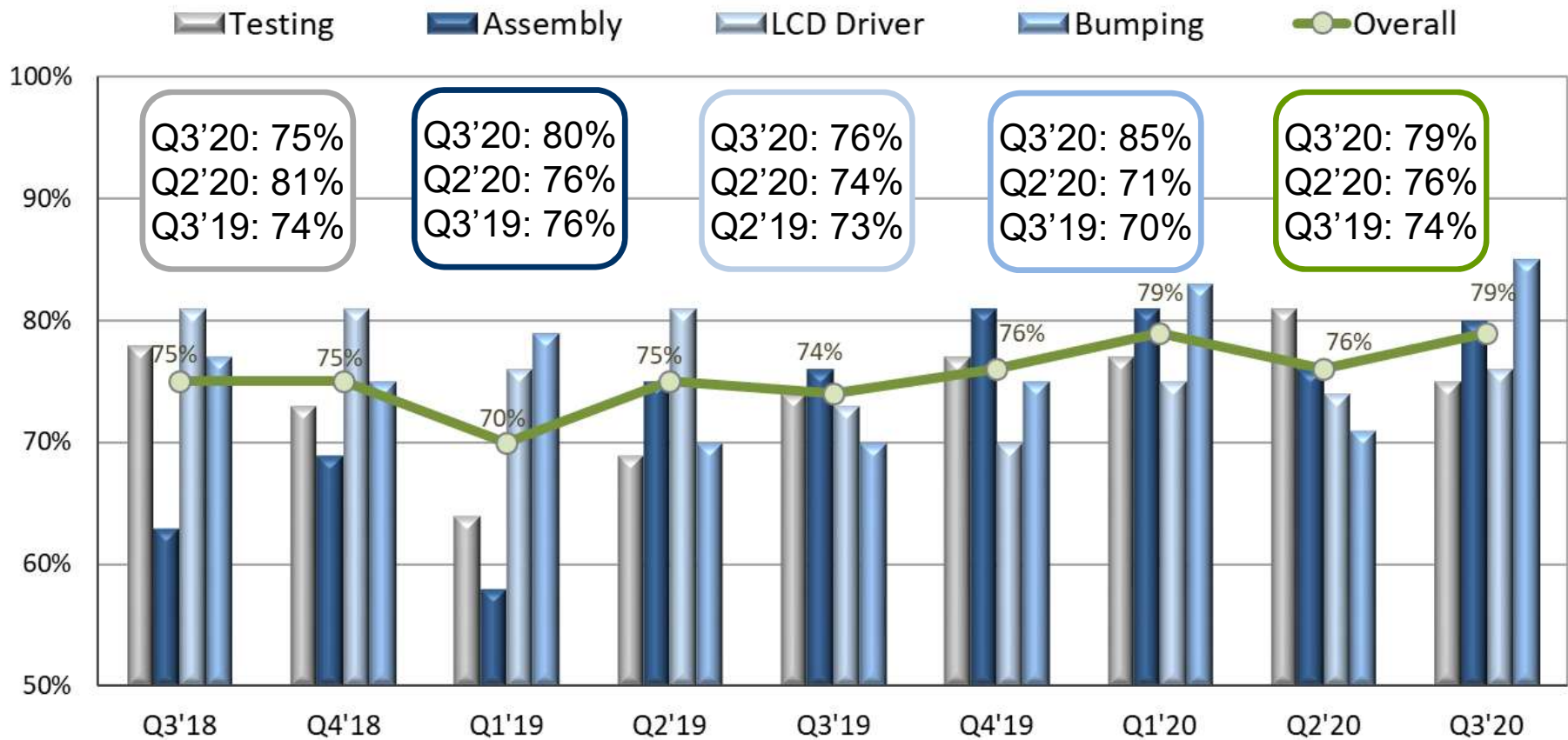
Content Performance of Q3'20



 DDIC & Gold bump

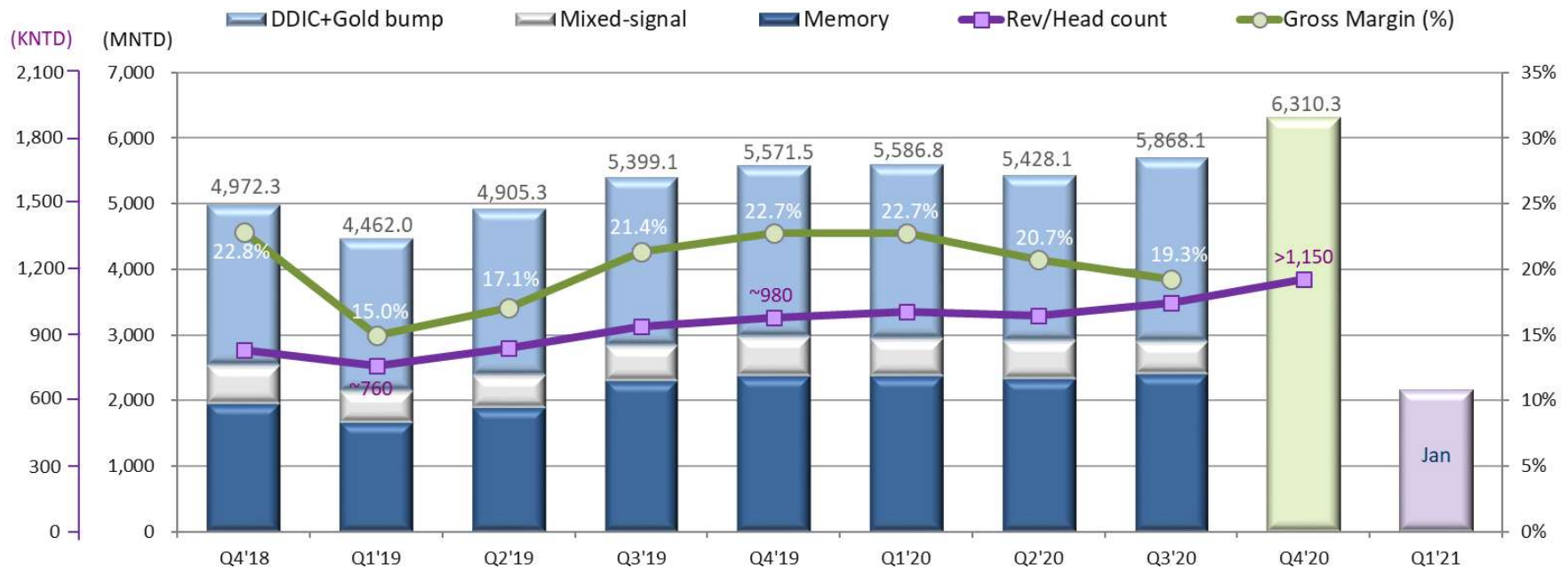
 Memory & Mixed-signal

Utilization



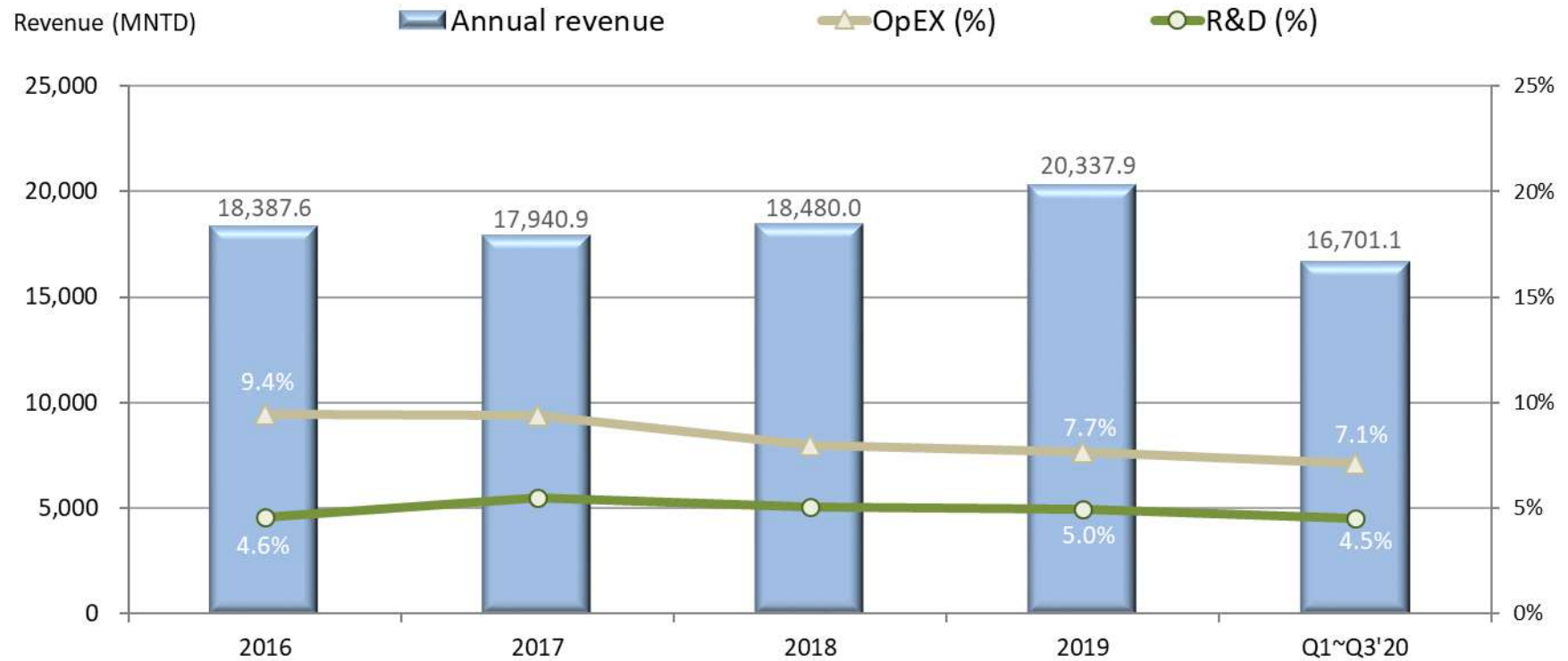
Quarterly Revenue & Gross Margin

- ▣ 2020 Revenue : 23,011.4MNTD (YoY +13.1%) a new record high after 2007
 - Q4'20: 6,310.3MNTD (QoQ +11.0%, YoY +13.3%) a new quarterly record high
 - Dec'20: 2,190.6MNTD (MoM +6.8%, YoY +20.1%) a new monthly record high
 - Jan'21: 2,163.3MNTD (MoM -1.2%, YoY +24.9%) a new January record high
- ▣ Gross Margin: Q3'20 19.3% (QoQ -1.4ppts, YoY -2.1ppts); Q1~Q3'20 20.9% (YoY +2.9ppts)
- ▣ Quarterly revenue per head count: increased 17.9% from Q4'19 to Q4'20



Reduce OpEx & Maintain R&D

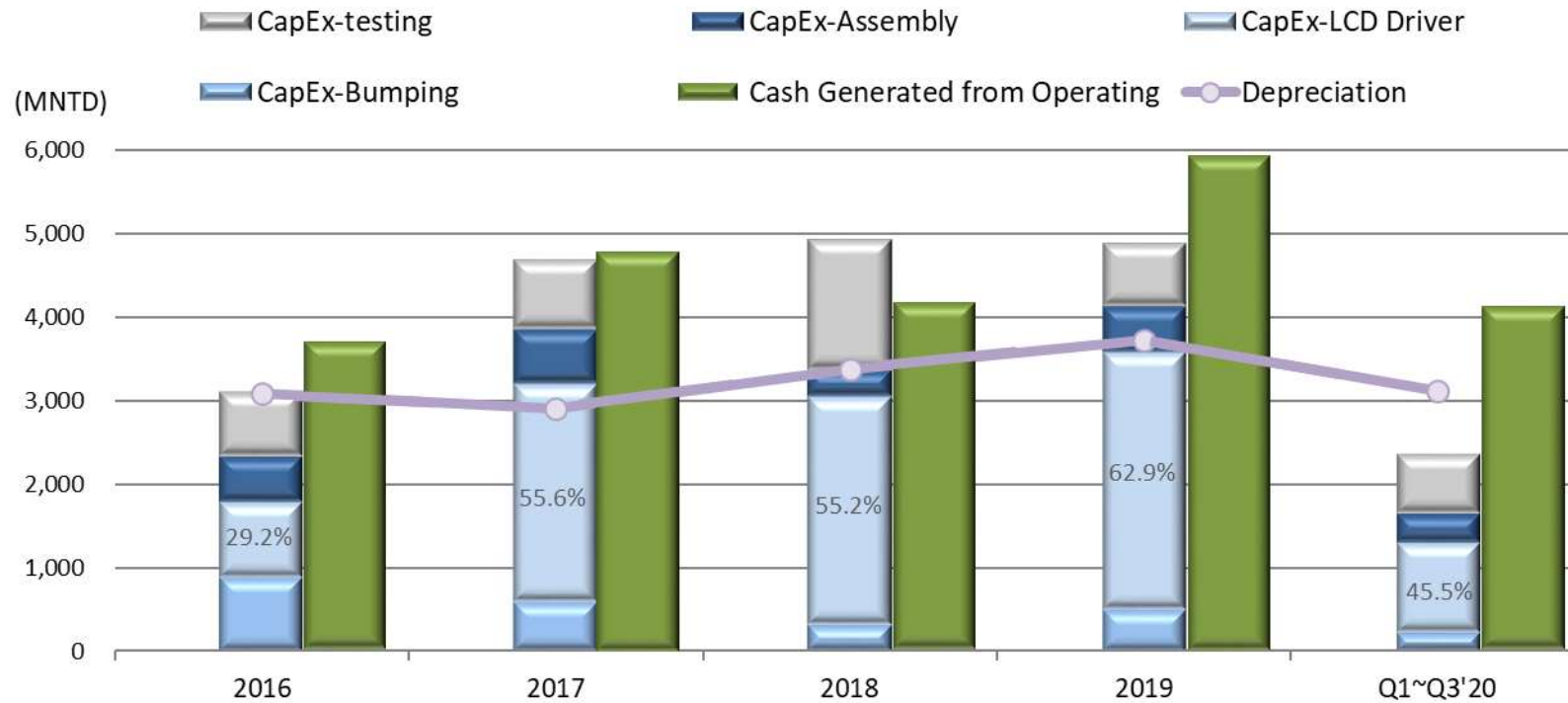
- OpEx: Reduce from 9.4% (2016) to 7.1% (Q1~Q3'20)
 - Q3'20: 6.9%
- R&D: Maintain 4.5~5%



CapEx & Depreciation

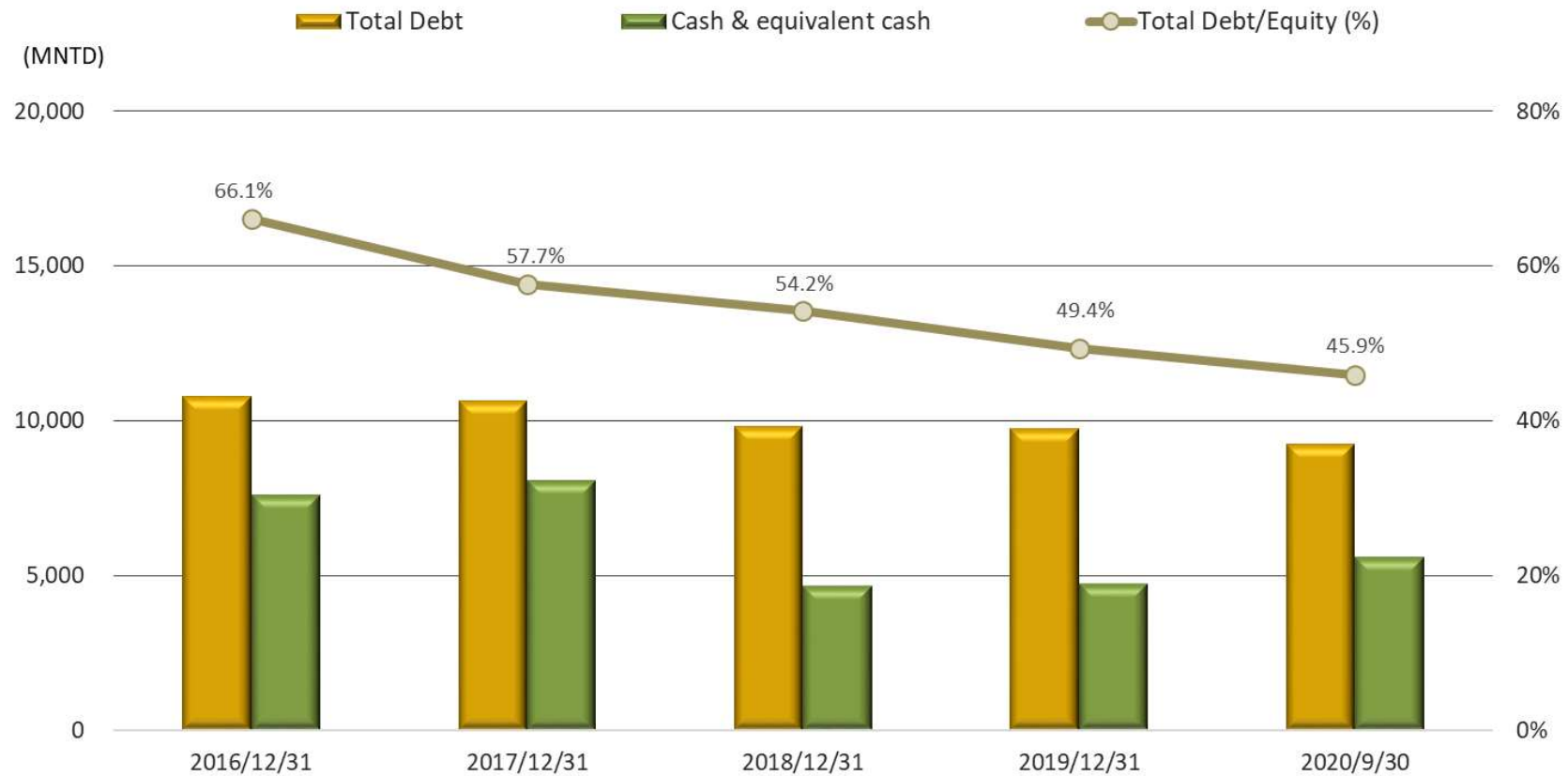
□ Q1~Q3'20

- CapEx: 2,373.5MNTD, Q3'20: 423.9MNTD (LCDD 43.4%, Assembly 30.0%)
- Depreciation: 3,115.7MNTD , Q3'20: 1,063.1MNTD
- Cash Generated from Operating: 4,052.3MNTD



Healthy Debt and Cash Level

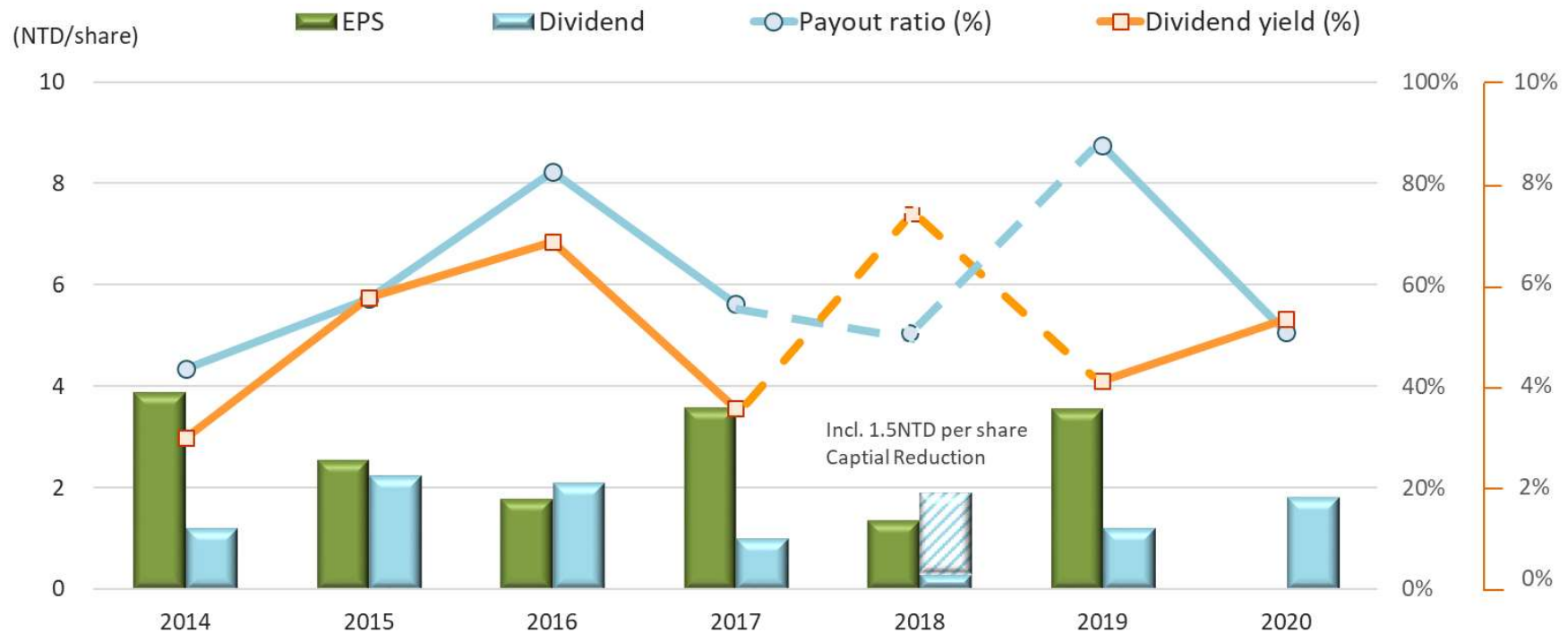
□ ~20BNTD of Cash & equivalent cash and Unused credit lines up to Sep/30'20



Note: Total debt to Equity = (ST loan + LT loan)/ Equity

Stable Payout and High Dividend Yield

- EPS: 2.31NTD (Q1~Q3'20)
- Payout ratio (2014~2020): > 40%, average: ~61%
 - 2020 dividend: 1.8NTD
- Dividend yield (2014~2020): > 3%, average: ~5.2%
- ~4.8BNTD of unappropriated retained earnings up to Sep/30'20



Note: 2019 Payout ratio = 2019 Dividend / 2018 EPS

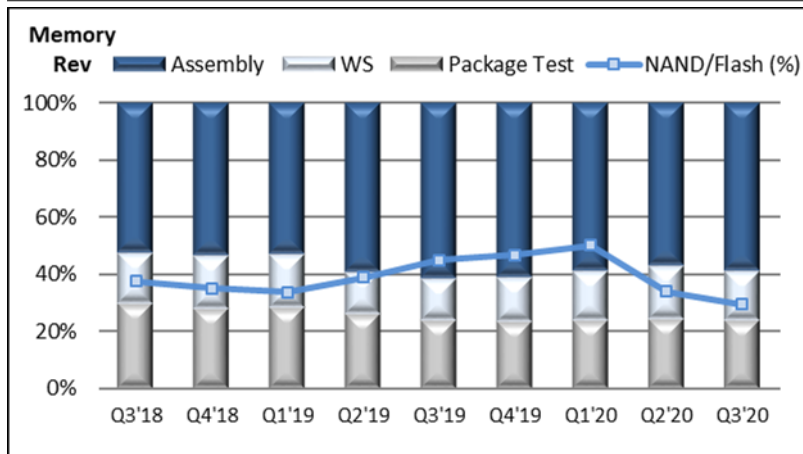
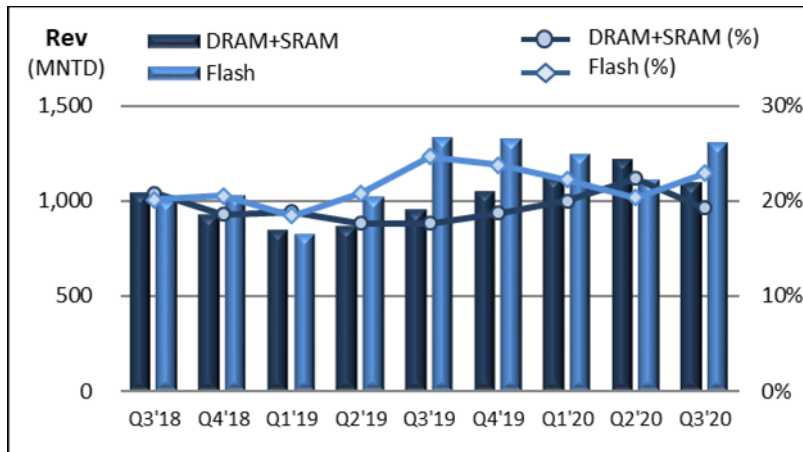
Operation Performance

Memory IC

Q3'20: 42.2%

Key Message

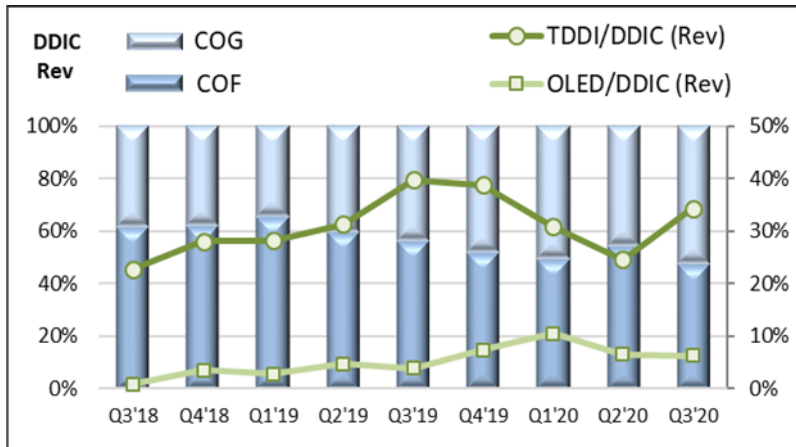
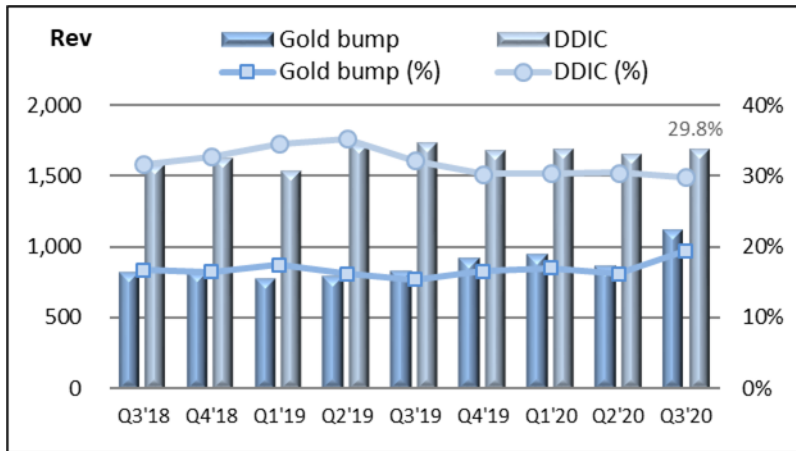
- ❑ QoQ +3.4%, YoY +5.1%
- ❑ Wire bonder capacity is tightened, and increasing new wire bonder & upgrade existed bonder in Q4
- ❑ DRAM+SRAM: 19.2%
 - Continued momentum from Q3'20
- ❑ Flash: 23.0%
 - Bolstered by gaming demand and new consumer launches
 - ✓ NAND Flash represented about 29.5% of Q3 Flash revenue



Operation Performance (Cont'd)

DDIC & Gold bump

Q3'20: **49.3%**

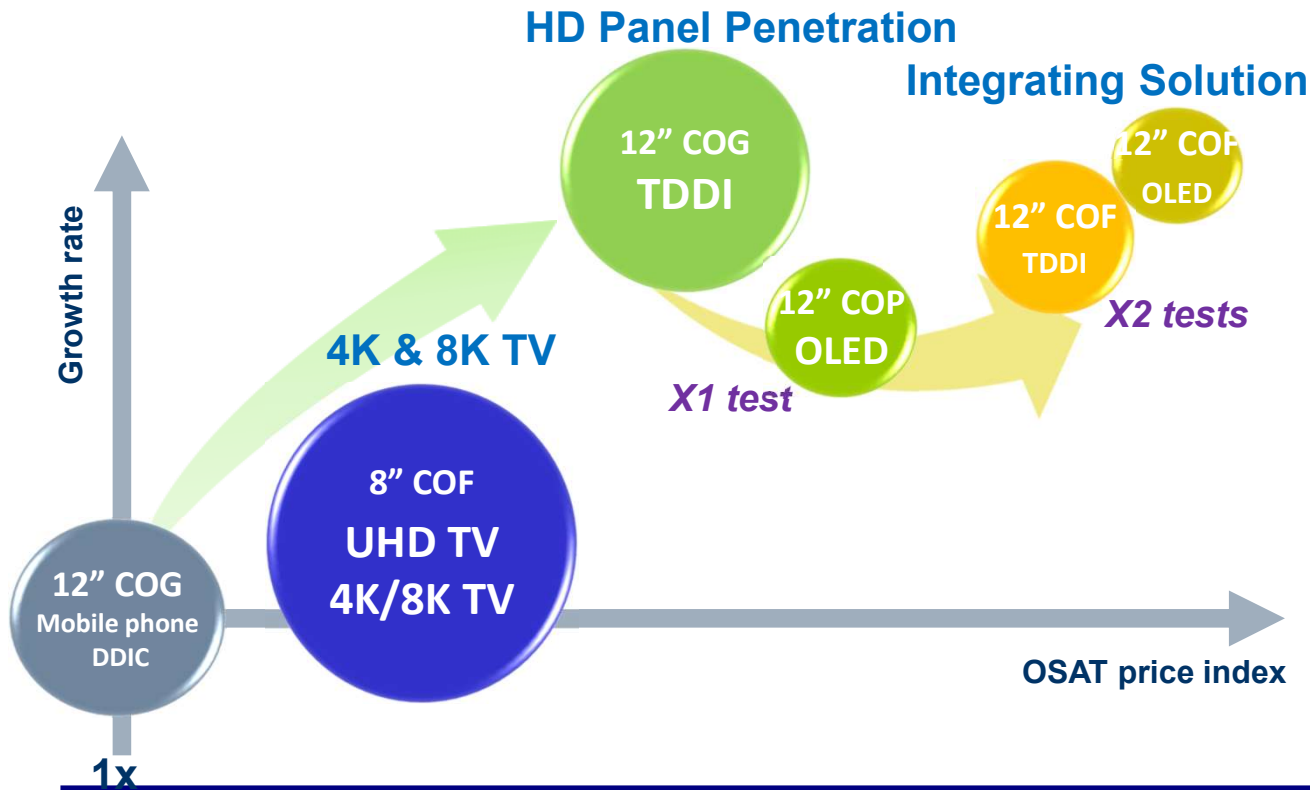


Key Message

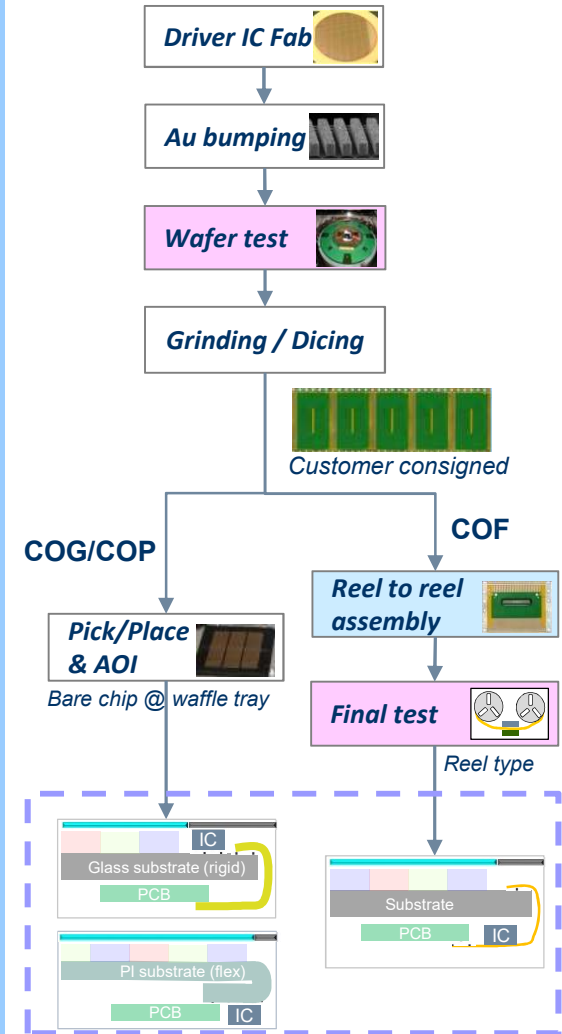
- ❑ QoQ +10.7%, YoY +9.1%
- ❑ Large/Middle Panel Display (TV, Tablet/NB):
Maintain similar momentum from Q3'20
- ❑ Small Panel Display (Smart phone):
Mid/Low end of 5G smartphone demand driver
 - Increased test price 5~10% since Oct 1st
 - Increasing new wafer tester in Q4 and Q1'21
 - TDDI: TDDI demand from increasing penetration ratio of HD grade panels
 - ✓ Represented around 34.3% of Q3 DDIC revenue
 - OLED: Represented about 6.3% of Q3 DDIC revenue

Leverage DDIC Growth by Higher ASP Product Penetration

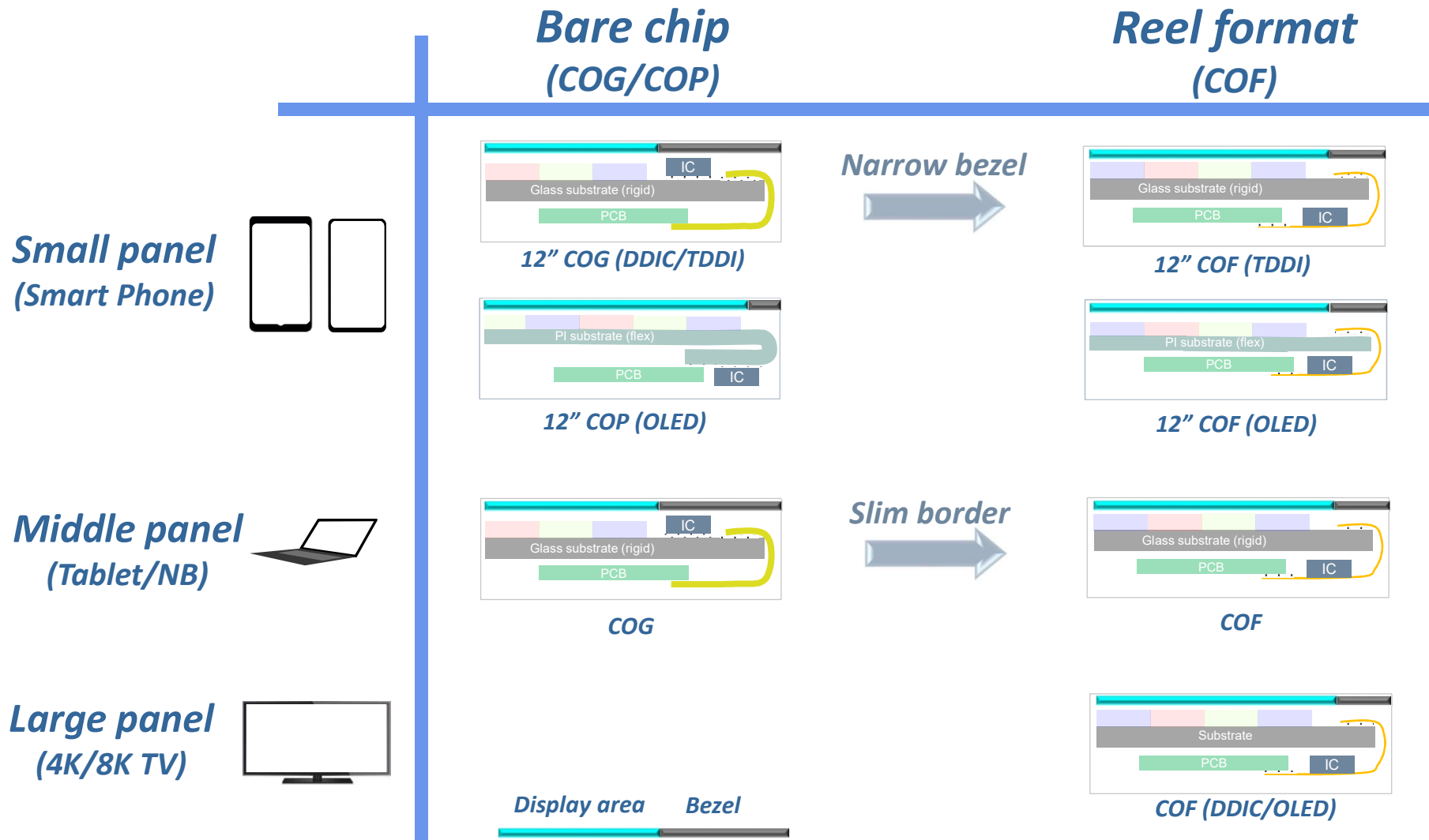
- ❑ TV: 8K emerging; more DDIC quantity consumption
- ❑ TDDI: ~3x wafer testing time compared to discrete DDIC
- ❑ OLED: Longer testing time and high end test platform using
- ❑ COF: Integrating more functions solution



DDIC OSAT Flow

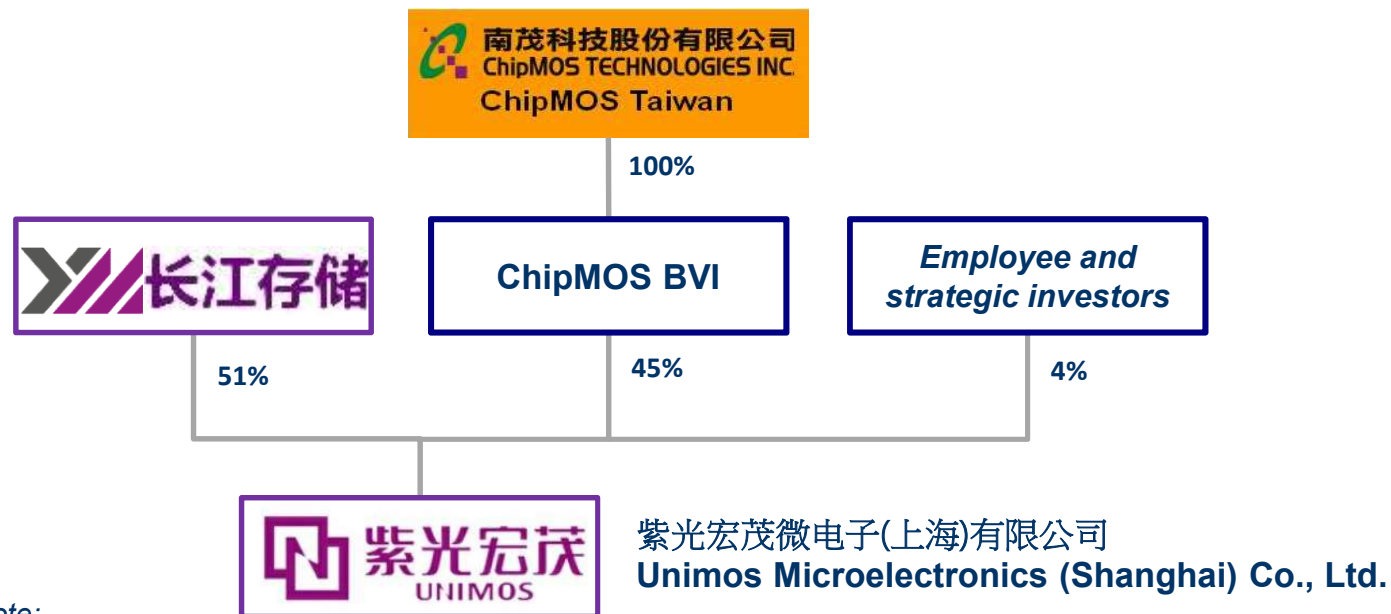


Display Driver IC vs Panel Comparison



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)

- ✓ **Board of Directors
Independent Director 56%
Female Director 2 seats**
獨立董事過半；女性董事2席

- ✓ **Sustainable Value Creation**
3年 連續3年榮獲TCSA台灣永續獎

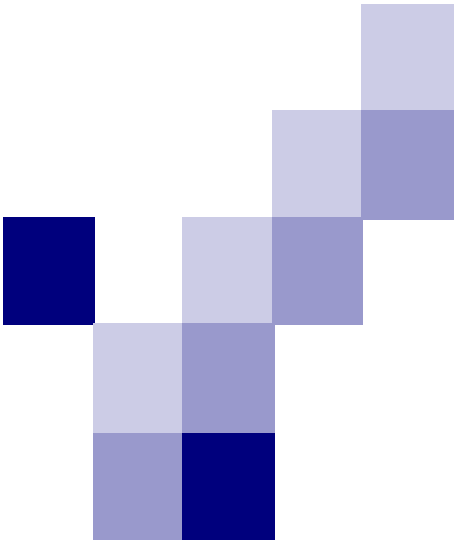
Awarded TCSA Corporate Sustainability
for 3 consecutive years

- ✓ **108年度績優營業人**
獲財政部北區國稅局肯定

Please visit ChipMOS CSR web site to get more information, <https://www.chipmos.com/Chinese/csr/overview.aspx>

Sustainability Approach – UN SDGs Linkage



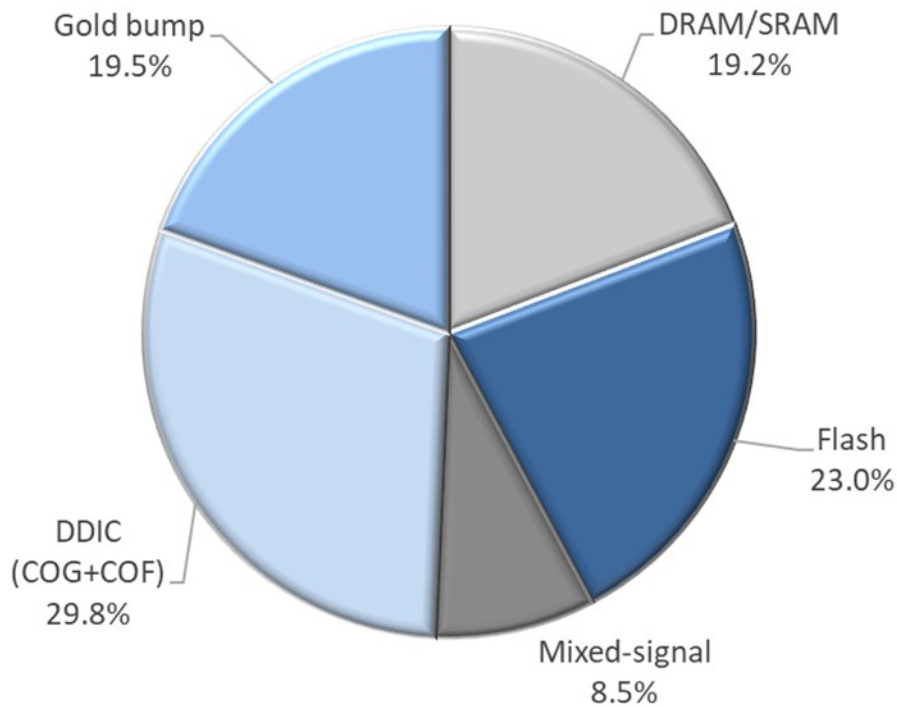


Q3'20 Financial Results

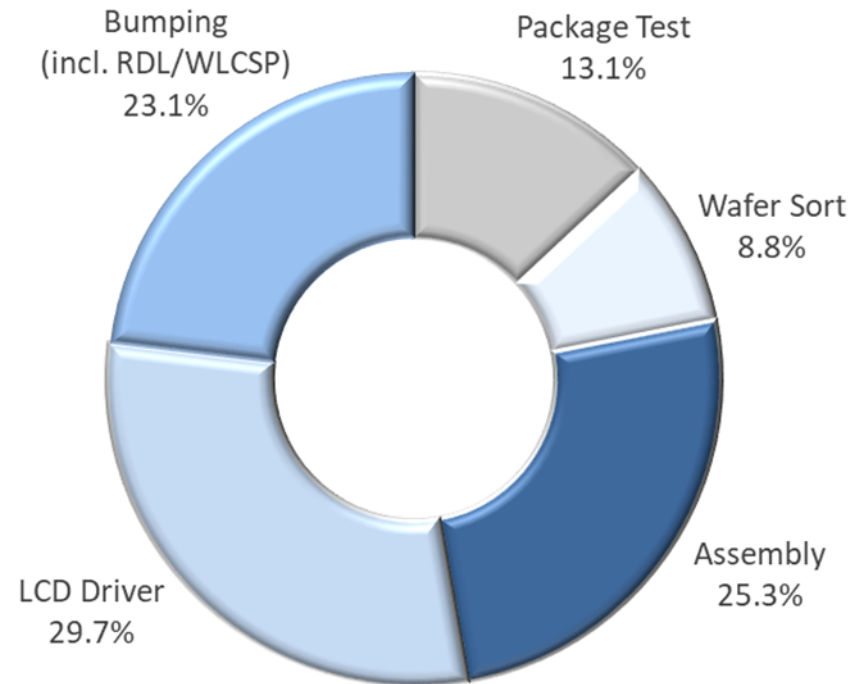


Q3'20 Revenue Breakdown

Product Segment



Manufacturing Site



Consolidated Operating Results Summary

(NT\$ Millions)	Q3'20	Q2'20	Q3'19
Revenue	5,686.1	5,428.1	5,399.1
Profit Attributable to the Company	423.4	544.9	585.9
EPS Attributable to the Company - Basic (NT\$)	0.58	0.75	0.81
Earnings per ADS equivalent - Basic (US\$) ⁽¹⁾	0.40	0.52	0.56
Depreciation & Amortization	1,063.1	1,047.7	953.2
CapEx	423.9	811.4	1,847.9
EBITDA ⁽²⁾	1,780.7	1,836.9	1,739.0
Return on Equity (%) ⁽³⁾	8.5%	10.9%	12.4%

Notes :

(1) The exchange rate was NT\$28.95 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

Selected Items from Consolidated Statements of Comprehensive Income

(NT\$ Millions)	Q3'20	Q2'20	QoQ	Q3'19	YoY
Revenue	5,686.1	5,428.1	4.8%	5,399.1	5.3%
Gross Profit	1,095.6	1,124.5	-2.6%	1,152.8	-5.0%
Gross Margin	19.3%	20.7%	-1.4ppts	21.4%	-2.1ppts
Operating Expenses	-394.4	-398.2	1.0%	-393.0	-0.4%
Operating Profit	717.6	789.2	-9.1%	785.8	-8.7%
Operating Profit Margin	12.6%	14.5%	-1.9ppts	14.6%	-2.0ppts
Non-operating Income (Expenses) ⁽¹⁾	-178.5	-132.8	-34.4%	-54.7	-226.3%
Profit Attributable to the Company	423.4	544.9	-22.3%	585.9	-27.7%
EPS Attributable to the Company - Basic (NT\$)	0.58	0.75	-22.7%	0.81	-28.4%
Weighted Average Shares Outstanding (in thousands) - Basic	727,240	727,240	0.0%	727,240	0.0%
EPS Attributable to the Company - Diluted (NT\$)	0.58	0.75	-22.7%	0.80	-27.5%
Weighted Average Shares Outstanding (in thousands) - Diluted	729,351	729,409	0.0%	729,827	-0.1%

Note (1):

QoQ: Difference mainly due to the increase of the share of loss of associates accounted for using equity method of NT\$51M and partially offset by a decrease of foreign exchange loss of NT\$9M.

YoY: Difference mainly due to the increase of the share of loss of associates accounted for using equity method of NT\$50M, the increase of the net foreign exchange loss of NT\$84M and partially offset by a slight increase NT\$8M in the gain on valuation of financial assets at fair value through profit or loss.

Consolidated Statements of Financial Position & Key Indices

Selected Items from Consolidated Statements of Financial Position

(NT\$ Millions)	Q3'20		Q2'20		Q3'19	
	Amount	%	Amount	%	Amount	%
Current Assets	12,317.7	36.1%	13,161.5	36.9%	12,382.4	36.1%
Non-current Assets	21,833.2	63.9%	22,484.4	63.1%	21,959.6	63.9%
Total Assets	34,150.9	100.0%	35,645.9	100.0%	34,342.0	100.0%
Current Liabilities	4,084.8	12.0%	6,037.2	16.9%	5,028.3	14.6%
Non-current Liabilities	9,991.0	29.2%	10,044.4	28.2%	10,162.8	29.6%
Total Liabilities	14,075.8	41.2%	16,081.6	45.1%	15,191.1	44.2%
Total Equity	20,075.1	58.8%	19,564.3	54.9%	19,150.9	55.8%
Total Liabilities and Equity	34,150.9	100.0%	35,645.9	100.0%	34,342.0	100.0%
Key Indices						
A/R Turnover Days	74		78		83	
Inventory Turnover Days	44		50		38	

Consolidated Statements of Cash Flows

(NT\$ Millions)	Q1-Q3'20	Q1-Q3'19
Cash and Cash Equivalents at Beginning of Period	4,704.1	4,642.5
Net Cash Generated from(used in) Operating Activities	4,052.3	3,845.2
Net Cash Generated from(used in) Investing Activities	-2,765.3	-2,566.1
Net Cash Generated from(used in) Financing Activities	-1,195.9	-1,289.3
Effect of Exchange Rate Change on Cash	-7.0	2.4
Cash and Cash Equivalents at End of Period	4,788.2	4,634.7
 Free Cash Flow ⁽¹⁾	 1,328.5	 -116.5

Note (1):

YoY: Difference mainly due to NT\$851M increase of the operating profit, NT\$820M decrease of CapEX and partially offset by a NT\$436M increase of cash dividend paid.

Company Website

- <https://www.chipmos.com>