

2019 Fourth Quarter Earnings Conference

January 16, 2020

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Agenda

Welcome Jeff Su

4Q19 Financial Results and 1Q20 Outlook Wendell Huang

Key Messages

Wendell Huang

C.C. Wei

Q&A

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Safe Harbor Notice

- TSMC's statements of its current expectations are forwardlooking statements subject to significant risks and uncertainties and actual results may differ materially from those contained in the forward-looking statements.
- Information as to those factors that could cause actual results to vary can be found in TSMC's Annual Report on Form 20-F filed with the United States Securities and Exchange Commission (the "SEC") on April 17, 2019 and such other documents as TSMC may file with, or submit to, the SEC from time to time.
- Except as required by law, we undertake no obligation to update any forward-looking statement, whether as a result of new information, future events, or otherwise.



Statements of Comprehensive Income

Selected Items from Statements of Comprehensive Income

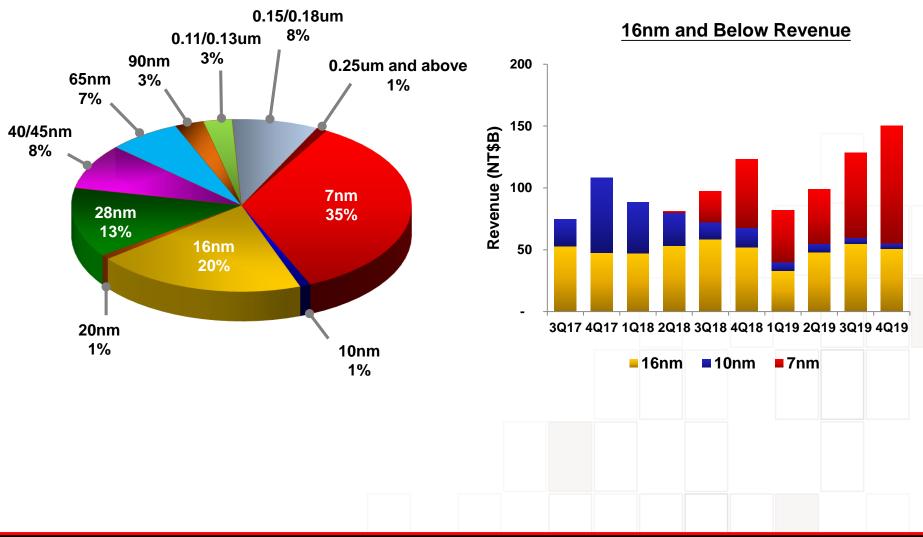
(In NT\$ billions unless otherwise noted)	4Q19	4Q19 Guidance	3Q19 	4Q18	4Q19 over 3Q19	4Q19 over 4Q18
Net Revenue (US\$ billions)	10.39	10.2-10.3	9.40	9.40	+10.6%	+10.6%
Net Revenue	317.24		293.05	289.77	+8.3%	+9.5%
Gross Margin	50.2%	48.0% - 50.0%	47.6%	47.7%	+2.6 ppts	+2.5 ppts
Operating Expenses	(34.94)		(31.38)	(30.85)	+11.4%	+13.3%
Operating Margin	39.2%	37.0% - 39.0%	36.8%	37.0%	+2.4 ppts	+2.2 ppts
Non-Operating Items	4.54		4.45	3.96	+2.0%	+14.7%
Net Income to Shareholders of the Parent Company	116.04		101.07	99.98	+14.8%	+16.1%
Net Profit Margin	36.6%		34.5%	34.5%	+2.1 ppts	+2.1 ppts
EPS (NT Dollar)	4.47		3.90	3.86	+14.8%	+16.1%
ROE	28.9%		25.7%	24.6%	+3.2 ppts	+4.3 ppts
Shipment (Kpcs, 12"-equiv. Wafer)	2,823		2,733	2,686	+3.3%	+5.1%
Average Exchange RateUSD/NTD	30.52	30.60	31.19	30.83	-2.1%	-1.0%

^{*} Diluted weighted average outstanding shares were 25,930mn units in 4Q19.

^{**} ROE figures are annualized based on average equity attributable to shareholders of the parent company.

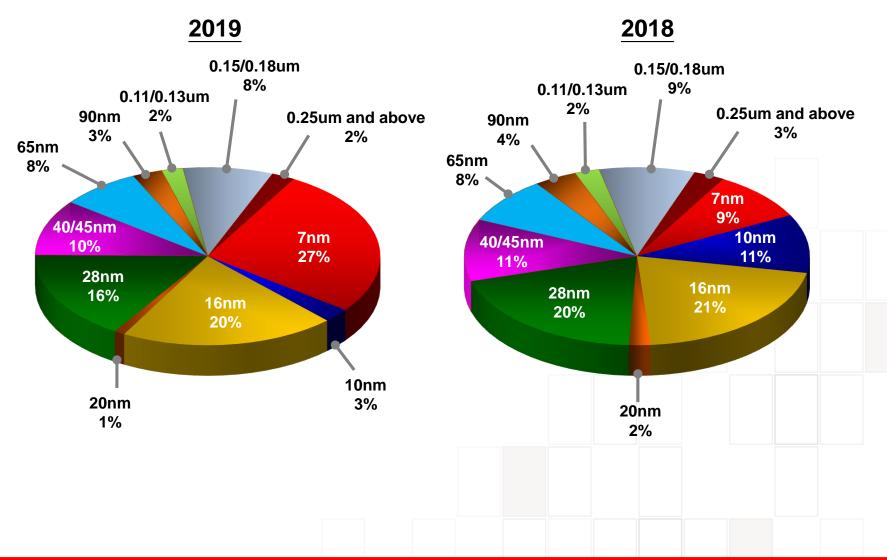


4Q19 Revenue by Technology



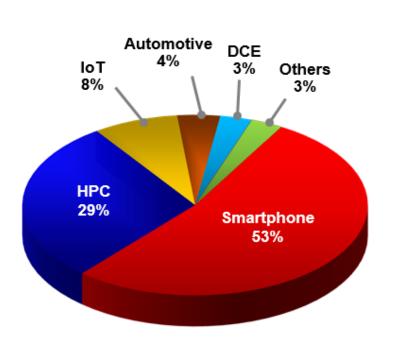


Revenue by Technology

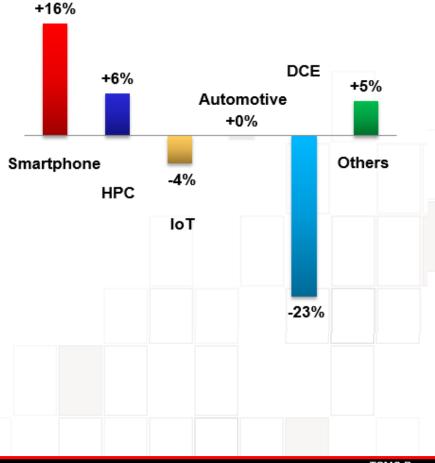




4Q19 Revenue by Platform

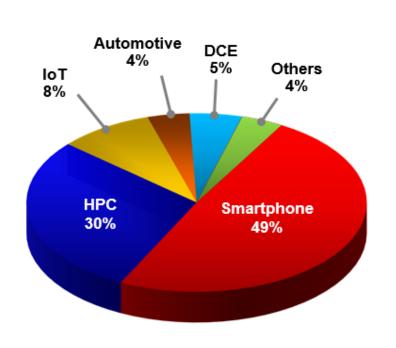


Growth rate by Platform (QoQ)

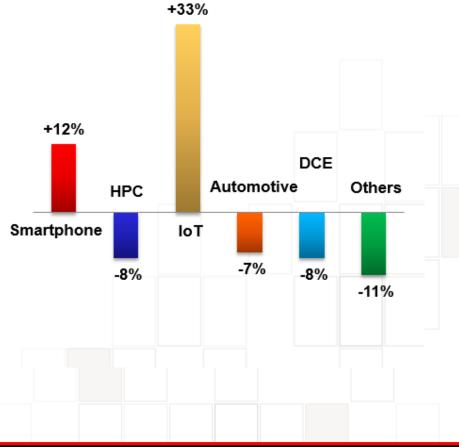




2019 Revenue by Platform



Growth rate by Platform (YoY)





Balance Sheets & Key Indices

Selected Items from Balance Sheets (In NT\$ billions)	4Q19		3Q19		4Q18	
	Amount	%	Amount	%	Amount	%
Cash & Marketable Securities	583.45	25.7%	584.92	27.4%	695.18	33.2%
Accounts Receivable	139.77	6.2%	145.42	6.8%	129.20	6.2%
Inventories	82.98	3.7%	96.69	4.5%	103.23	4.9%
Long-term Investments	30.17	1.3%	30.13	1.4%	29.31	1.4%
Net PP&E	1,352.38	59.7%	1,197.95	56.1%	1,072.05	51.3%
Total Assets	2,264.81	100.0%	2,134.23	100.0%	2,090.13	100.0%
Current Liabilities	590.74	26.1%	494.78	23.2%	340.54	16.3%
Long-term Interest-bearing Debts	25.10	1.1%	25.10	1.2%	56.90	2.7%
Total Liabilities	642.71	28.4%	546.74	25.6%	412.63	19.7%
Total Shareholders' Equity	1,622.10	71.6%	1,587.49	74.4%	1,677.50	80.3%
Key Indices						
A/R Turnover Days	41		41		41	
Inventory Turnover Days	55		65		67	
Current Ratio (x)	1.4		1.7		2.8	
Asset Productivity (x)	1.0		1.0		1.1	

^{*} Total outstanding shares were 25,930mn units at 12/31/19.

^{**} Asset productivity = Annualized net revenue / Average net PP&E



Cash Flows

(In NT\$ billions)	4Q19	3Q19	4Q18	
Beginning Balance	452.43	649.70	488.73	
Cash from operating activities	202.96	141.75	189.37	
Capital expenditures	(170.01)	(98.12)	(114.10)	
Cash dividends	(51.86)	(207.44)	0.00	
Short-term loans	35.68	7.33	14.30	
Investments and others	(13.80)	(40.79)	(0.49)	
Ending Balance	455.40	452.43	577.81	
Free Cash Flow*	32.95	43.63	75.27	

^{*} Free cash flow = Cash from operating activities - Capital expenditures



2019 Financial Highlights

(In NT\$ billions unless otherwise noted)	2019	2018	YoY
Net Revenue (US\$ billions)	34.63	34.20	+1.3%
Net Revenue	1,069.99	1,031.47	+3.7%
Gross Margin	46.0%	48.3%	-2.3 ppts
Operating Margin	34.8%	37.2%	-2.4 ppts
Income before Tax	389.85	397.51	-1.9%
EPS - Diluted (NT\$)	13.32	13.54	-1.7%
Operating Cash Flow	615.14	573.95	+7.2%
Capital Expenditures	460.42	315.58	+45.9%
Free Cash Flow (FCF)	154.72	258.37	-40.1%
Cash Dividends	259.30	207.44	+25.0%
Cash & Marketable Securities	583.45	695.18	-16.1%
ROE	20.9%	22.0%	-1.1 ppts



1Q20 Guidance

Based on our current business outlook, management expects:

Revenue to be between US\$ 10.2 billion and US\$ 10.3 billion

And, based on the exchange rate assumption of 1 US dollar to 29.9 NT dollars, management expects:

- Gross profit margin to be between 48.5% and 50.5%
- Operating profit margin to be between 37.5% and 39.5%



Recap of Recent Major Events

- TSMC Recognizes Outstanding Suppliers at 2019 Supply Chain Management Forum (2019/12/05)
- University of Tokyo and TSMC Announce Organization-Wide Advanced Semiconductor Technology Collaboration (2019/11/27)
- TSMC Board of Directors Approves NT\$2.5 Cash Dividend for Third Quarter 2019 and Sets March 19 as Ex-Dividend Date, March 25 as the record date and April 16, 2020 as the distribution date (2019/11/12)
- MediaTek's World-Leading 8K DTV SoC in Volume Production on TSMC 12FFC Technology (2019/11/08)
- TSMC and GLOBALFOUNDRIES Announce Resolution of Global Disputes Through Broad Global Patent Cross-License (2019/10/29)

 Please visit TSMC's website (http://www.tsmc.com) and Market Observation Post System (http://mops.twse.com.tw) for details and other announcements





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