June 29, 2026 03:19 PM GMT

TSMC | Asia Pacific

Domination in leading-edge foundry continues; OW

WHAT'S CHANGED

TSMC (2330.TW)	From	To
Price Target	NT$2,588.00	**NT$2,888.00**

The Samsung foundry and Intel foundry competition should be a minor issue, given TSMC's capacity scale, EUV supply priority, and process node leadership. Raise price target to NT$2,888 given better revenue and pricing outlook. Stay OW.

On July 16, we expect TSMC to further raise revenue and capex guidance for 2026: Given the strong AI capex and chip demand (CPU, GPU, ASIC, and optical networking), we expect TSMC to lift 2026e revenue guidance to close to 40% Y/Y growth and raise capex to US$56bn, the high end of its initial US$52-56bn range. See Exhibit 1 for the earnings preview table. We expect upside surprise.

Key questions for the coming 2Q26 earnings call:

1. How will TSMC address competition from Samsung foundry (strong memory profits) and Intel foundry (US policy support)? In that case, could TSMC hike wafer prices in 2027 and further improve gross margin?
2. Memory cost impact on demand: is TSMC seeing that in foundry orders?
3. How could TSMC use advanced packaging capacity if customers go for other sources of foundry/OSAT support? Will consumer/networking demand start to consume meaningful amounts of advanced packaging by 2027?

Our latest industry checks suggest very strong 2nm demand; TSMC remains the only game in town: TSMC recently changed the floorplan of its 3nm fabs (Fab 18 P10/11/12) to 2nm (F22 P7/8/9), implying that 2nm demand is 60kwpm greater than its plan a year ago. Clearly, AI CPU, GPU, ASIC, and networking are the major drivers. Separately, we don't rule out the possibility that Intel may start to outsource some 2nm server CPU from 2028, given very strong agentic AI demand. Intel also needs to reserve some EUV/capacity for its foundry service.

What do we think about the competition? Capacity and technology matter: We think US customers (e.g., Tesla, Google, Apple) are seeking second sources, mainly because of TSMC's 3nm capacity shortage. However, TSMC is catching up on capacity expansion quickly. Key customers need to stick with TSMC for the most important and volume products to "stay in the game." In terms of scale, TSMC's 2nm + 3nm capacity could be 400k in total by the end of 2028, almost 10x Intel's 14A + 18A at 40k-50k, and Samsung's SF2 at similar size. From the 2027 EUV allocation for logic foundry, TSMC's 40+ units is also much larger than Intel's (IDM + Foundry) 9-11 units, and Samsung foundry's 5-7 units. In that case, TSMC should still possess good pricing power and hike its leading-edge prices 5%-10% in 2027.

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TSMC (2330.TW, 2330 TT)

Greater China Technology Semiconductors | Taiwan

Stock Rating	**Overweight**
Industry View	**Attractive**
Price target	NT$2,888.00
Up/downside to price target (%)	22
Shr price, close (Jun 29, 2026)	NT$2,370.00
Mkt cap, curr (mn)	NT$61,449,313
Avg daily trading value (mn)	NT$62,280

Fiscal Year Ending	12/25	12/26e	12/27e	12/28e
EPS (NT$)**	66.25	107.56	143.01	177.30
Prior EPS (NT$)**	-	103.34	128.97	158.42
EPS (NT$)§	64.56	98.70	126.33	157.36
ModelWare net inc (NT $ bn)	1,718	2,778	3,708	4,597
P/E	23.4	22.1	16.6	13.4
Div yld (%)	1.4	1.1	1.5	1.8

Unless otherwise noted, all metrics are based on Morgan Stanley ModelWare framework
** = Based on consensus methodology
§ = Consensus data is provided by Refinitiv Estimates
e = Morgan Stanley Research estimates

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2Q26 earnings and 3Q26 guidance preview

TSMC will be hosting its 2Q26 earnings call on July 16. We expect 2Q26 revenue to be in line with the guidance from strong AI and peripheral demand. We now expect 2Q26 revenue to be up 11-12% Q/Q vs. the company's revenue guidance of up 10% Q/Q USD at the midpoint. Our gross margin estimate of 67.4% is at the higher end of the guidance range of 65.5-67.5%.

Looking ahead to 3Q26, we forecast revenue to be up in the low to mid-teens Q/Q given strong demand in both 3nm and 2nm products, including but not limited to Rubin, TPU, CPU, networking, etc. The margin should further improve Q/Q in our view with better utilization rate, but potentially offset by higher costs/depreciation.

Key questions to ask during the earnings call:

- How will TSMC address competition from Samsung foundry (strong memory profits) and Intel foundry (US policy support)? In that case, could TSMC hike wafer prices in 2027 and further improve gross margin?
- Memory cost impact on demand: is TSMC seeing that in foundry orders?
- How could TSMC utilize advanced packaging capacity if customers choose other sources of foundry/OSAT support? Will consumer/networking demand start to consume meaningful amounts of advanced packaging by 2027?
- How big does TSMC see the CPU TAM after the agentic AI boom? Does TSMC see more CPU outsourcing from IDM customers and potentially server CPU?
- Given the supply constraint from equipment suppliers as well, could TSMC further increase capex and capacity by getting sufficient EUV or other semi equipment?

Exhibit 1: 2Q26 earnings and 3Q26 guidance preview

	2Q26				3Q26		
(NT$ bn)	Guidance	Preliminary	MS Est.	Consensus	Guidance	MS Est.	Consensus
Revenue	US$39.0 - 40.2bn		1,266,623	1,263		1,435,872	1,364
Q/Q	*+10% at mid-point in USD*			*11.4%*			*8.0%*
Y/Y				*35.3%*			*37.8%*
GM (%)	65.5% - 67.5%		67.4%	66.9%		67.5%	65.6%
OpM (%)	56.0% - 58.0%		59.8%	58.3%		60.3%	57.1%
EPS (NT$)			**25.08**	**23.89**		**29.21**	**26.14**

Source: Company Data, FactSet, Morgan Stanley Research estimates

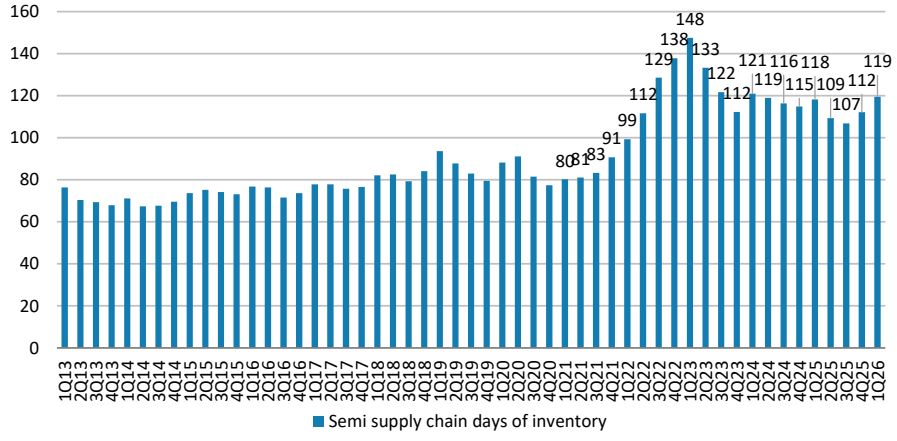
Fundamental themes

Non-AI demand – China's smartphone chip inventory correction begins, but the impact on TSMC should be limited

In 1Q26, we saw inventory days in the semi industry piling up given strong AI and peripheral demand. Some of the consumer/non-AI customers also avoided cutting orders given tight capacity throughout the whole supply chain and potential price hikes from foundries in 2H26/2027. However, we think it's time for those non-AI (especially smartphone/PC) customers to reflect the increasing BOM costs by either cutting orders or passing through incremental costs. Even so, we believe the impact on TSMC should be relatively small as TSMC's consumer customers focus mostly on the higher end, where it could be easier to pass through the costs. Besides, high-end PCs and smartphones usually consume leading-edge capacity at TSMC, which can be easily covered by other AI demand once some wafer capacity is released.

Apple is evidence of hiking prices to end customers – see Apple, Inc.: As Expected, Apple Is Raising Product Pricing (25 Jun 2026) by Erik Woodring) – but also keeping the same wafer demand at TSMC according to our checks. But for Chinese smartphones, we are seeing shipments tracking at down 20% Y/Y, vs. our previous assumption of down 15% Y/Y, see our MediaTek report. We expect leading-edge wafer capacity (5nm and below) could be quickly backfilled by AI demand.

Exhibit 2: Semi supply chain days of inventory piled up in 1Q26



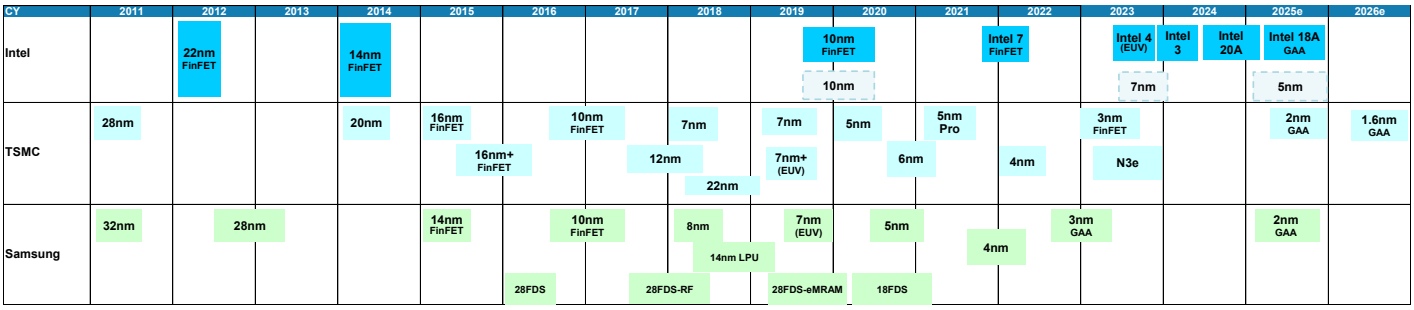
Source: FactSet, Morgan Stanley Research

TSMC still leads in technology roadmap as well as logic density

TSMC maintains a technology leadership position through consistent execution of its process roadmap and industry-leading logic density. Its successful transition to 3nm and expected leadership at 2nm have outpaced Intel foundry and Samsung foundry in manufacturing execution and yield. This technology advantage enables superior performance, power efficiency, and area scaling, making TSMC the preferred foundry for leading AI and high-performance computing chip designers. Our industry checks and the

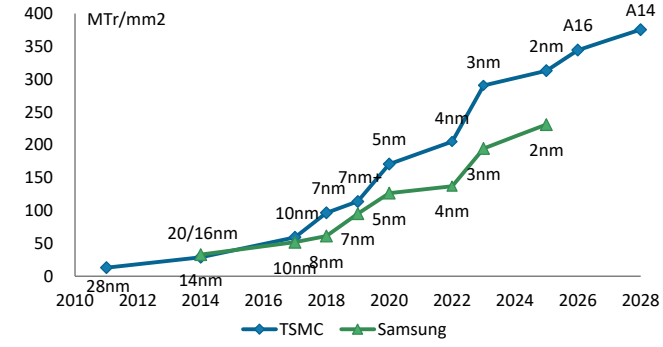
logic density comparison suggest that Intel's 18A is catching up to TSMC's N3E in performance, while Samsung's SF2 (2nm) is catching up to TSMC's N3P.

Exhibit 3: Logic roadmap comparison between TSMC, Intel, and Samsung foundry



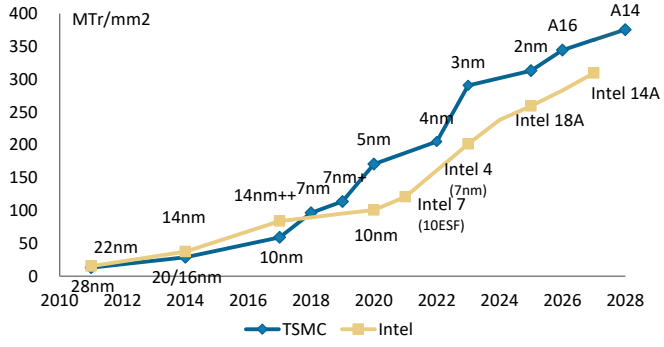
Source: Company data, Morgan Stanley Research

Exhibit 4: Logic density comparison between TSMC and Samsung foundry



Source: Company data, Morgan Stanley Research

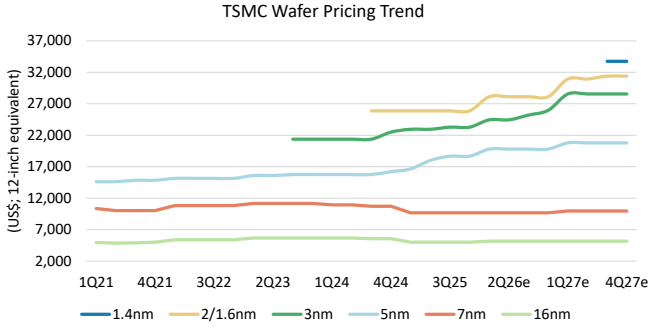
Exhibit 5: Logic density comparison between TSMC and Intel foundry



Source: Company data, Morgan Stanley Research

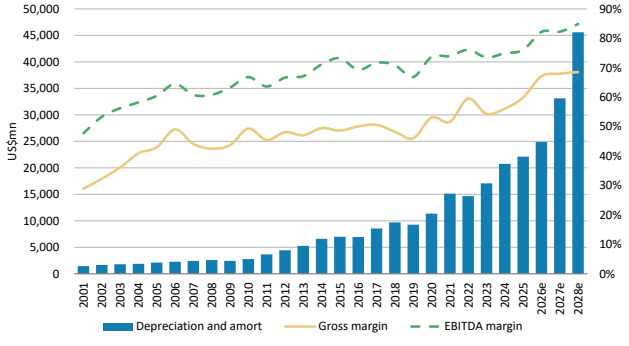
Our industry checks suggest that ASML's priority is based on the historical demand and partnership, suggesting that TSMC is still the largest customer of EUV shipments. In that case, TSMC should still possess good pricing power and hike its leading-edge prices 5%-10% in 2027, to reflect its value to customers as well as margin improvement.

Exhibit 6: TSMC – wafer pricing trend



Source: Company data, Morgan Stanley Research (e) estimates

Exhibit 7: TSMC's GM and depreciation trends – 60% should be the floor



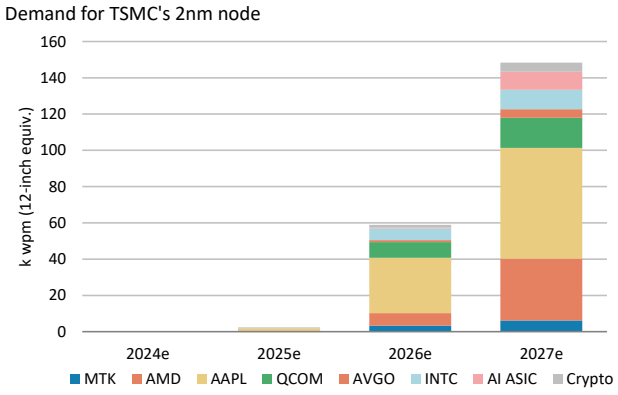
Source: Company data, Morgan Stanley Research (e) estimates

TSMC's 2026-2028 Foundry Floorplan – similar to our bottom-up demand analysis

During its symposium, TSMC also revealed strong capacity growth in 2nm and 3nm while 5nm is declining

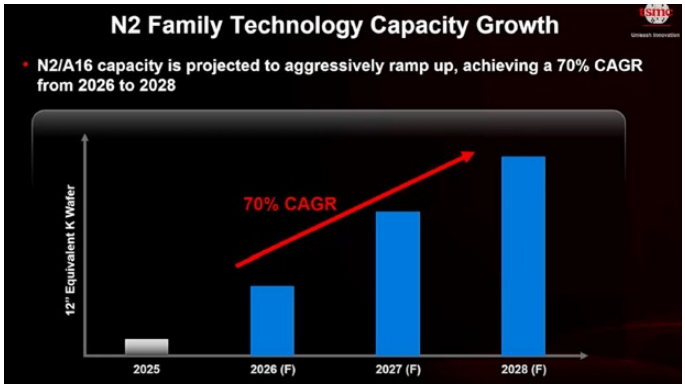
Similar to our demand forecast, TSMC has also suggested very strong capacity needs for both 2nm and 3nm starting from 2026e, suggesting a capacity CAGR of 70% from 2026e to 2028e for N2. TSMC also implied that 5nm capacity will decline from 2027, also in line with our demand forecast for 5nm to decline after Blackwell migrates to Rubin on 3nm. Separately, advanced packaging capacity expansion should still be the key focus area for TSMC in 2027, including but not limited to CoWoS and SoIC, for which we now expect capacity to reach 200kwpm and 70kwpm, respectively, by 2027.

Exhibit 8: TSMC – our estimate of 2nm customer demand breakdown



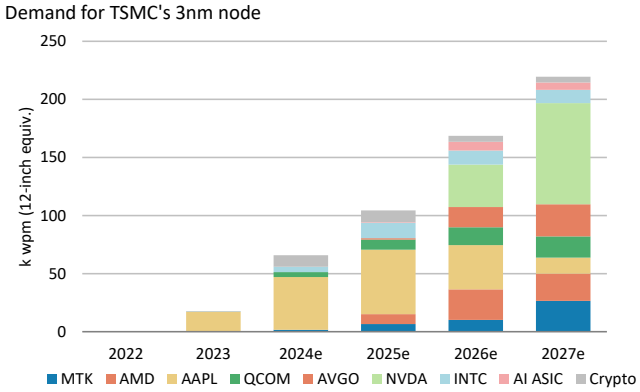
Source: Morgan Stanley Research estimates

Exhibit 9: TSMC suggests that N2 capacity can achieve a 70% CAGR from 2026-2028e



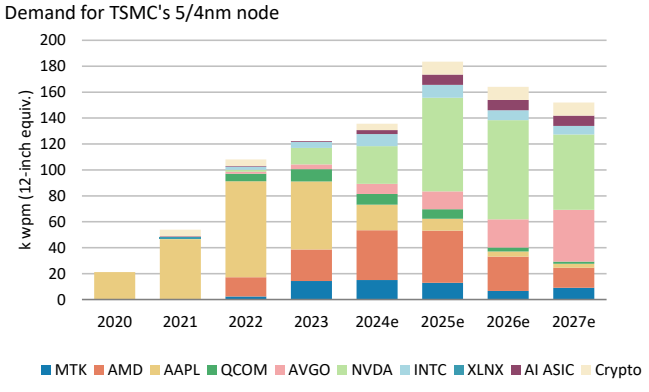
Source: TSMC

Exhibit 10: TSMC – our estimate of 3nm customer demand breakdown



Source: Morgan Stanley Research estimates

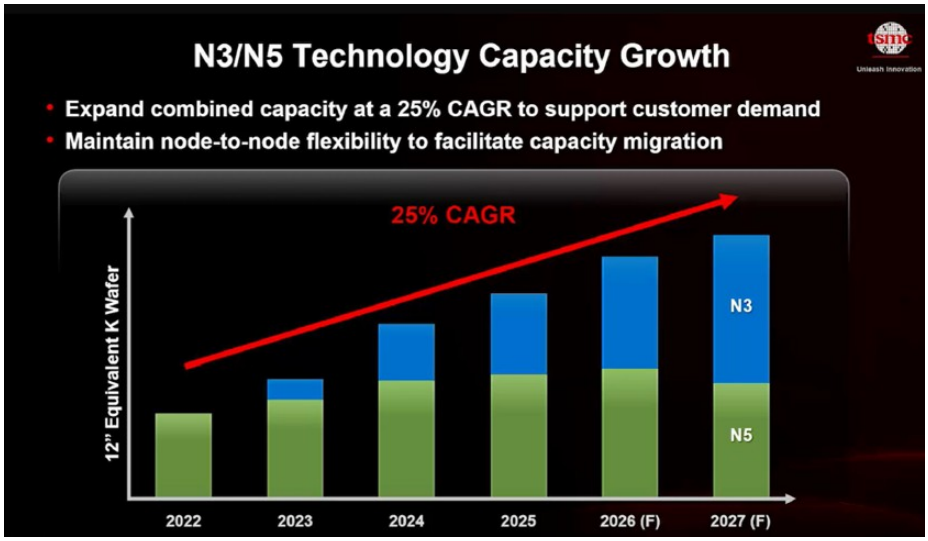
Exhibit 11: TSMC – 4nm and 5nm customer demand breakdown



Source: Morgan Stanley Research estimates

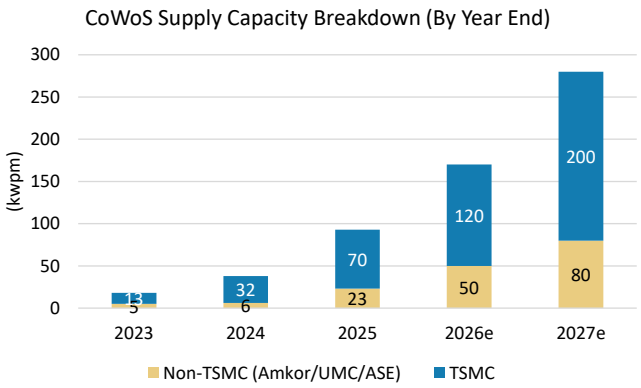
Exhibit 12:

TSMC indicates that N5 capacity will drop in 2027 while N3 capacity should keep increasing, similar to our demand forecast



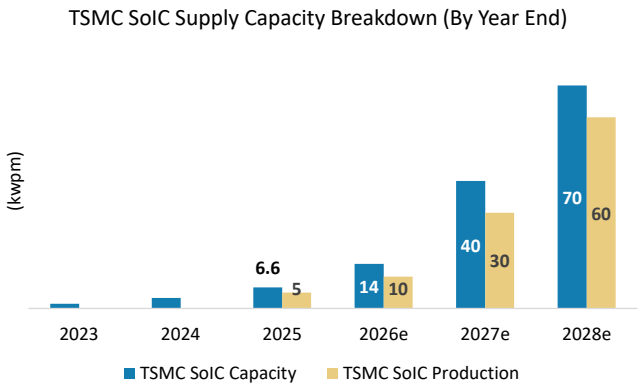
Source: TSMC

Exhibit 13: Our estimate of CoWoS supply capacity breakdown (by year-end)



Source: Morgan Stanley Research estimates

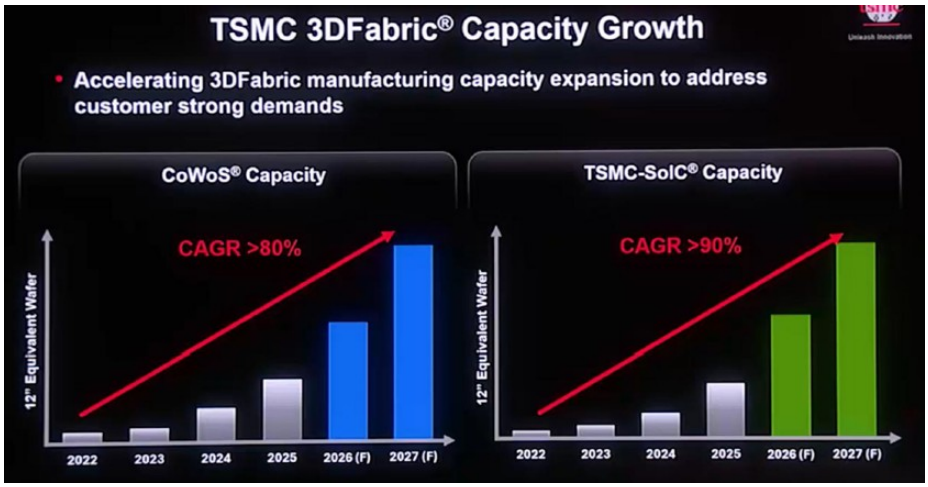
Exhibit 14: MSe TSMC SoIC supply capacity reakdown (by year-end)



Source: Morgan Stanley Research estimates

Exhibit 15:

TSMC is also addressing strong advanced packaging capacity build



Source: Morgan Stanley Research estimates

TSMC's capex is tracking at US$75bn in 2027

Over the past quarter, we observed strong demand for TSMC leading-edge capacity, and TSMC continues to pull in capacity builds or convert N5 to N3. In Greater China Semiconductors: The Foundry Floorplan: Raise TSMC's 2027e and 2028e Capex (9 Mar 2026), we noted that TSMC is pulling in the whole process of building capacity in both Taiwan and Arizona, including laying the foundations, preparing clean rooms, moving in tools, and ramping up production. Our industry checks also suggest that TSMC is changing the floorplan for some of the leading-edge nodes. For example, it is changing the initial 3nm capacity floorplan in Tainan to 2nm, as well as changing the fab number from Fab18 P10-12 to Fab22 P7-9. Therefore, our latest expectations for TSMC's 2027 and 2028 capex are US$75bn each.

We note again the news that TSMC has decided to migrate the process for the Japanese Kumamoto fab P2 from the initial 6nm/7nm to the more advanced 3nm given the upcoming strong demand for 3nm process. Our checks suggest that it is also accelerating the capacity conversion from 5nm to 3nm in Taiwan, echoing our view that 3nm capacity is in severe shortage. We thus expect TSMC to expand 3nm front-end capacity >180kwpm by 2026 and grow to >200kwpm by 2028.

Since the geometry below 3nm should also enjoy strong demand, our checks suggest 2nm/1.6nm capacity buildup to nearly 100kwpm by end-2026, 150-170kwpm in 2027, and >200kwpm in 2028. While 1.4nm should start to pull in tools in 2027 and ramp the majority in 2028, 1.0nm should have small capacity in Tainan in 2029.

Exhibit 16: TSMC fab roadmap

Node	Location	Fab	Capacity				
			2025	2026	2027	2028	2029
N3	Tainan	F18 - P4/P5/P6/P8/P9	110k	160-170k			
	Arizona	F21 - P2		20k			
	Japan	F23 - P2				15k	
Total			110k	180-190k	190k	200-205k	
N2/A16	HsinChu	F20 - P1/P2	20k	30k			
	Tainan	F22 - P7/P8/P9			40-50k	60k	
	KaoHsiung	F22 - P1/P2/P3/P4/P5/P6	25k	60k	80-90k	100k	
	Arizona	F21 - P3/P4/P5/P6				20k	
Total			45k	90-100k	150-170k	210k	
A14	HsinChu	F20 - P3/P4			10-20k	30-40k	40k
A14/A13/A12	Taichung	F25 - P1/P2/P3/P4			10-20k	30-40k	80k
Total					20-40k	60-80k	120k
A10	Tainan	F26 - P1/P2/P3/P4					5k
N40/28/22/12	Japan	F23 - P1	25k				
N28/16	Germany	F24			5k	40k	

Source: Morgan Stanley Research estimates

Exhibit 17: TSMC Fab details

Front-end Plant	Location	Focused Technology
F18 - P4/P5/P6/P8/P9	Tainan	N3
F20 - P1/P2/P3/P4	HsinChu	N2/A14
F21 - P2	Arizona	N3
F22 - P1/P2/P3/P5/P6	KaoHsiung	N2
F22 - P7/P8/P9	Tainan	N2
F22 - P4	KaoHsiung	A16
F23 - P2	Kumamoto	N3
F25 - P1/P2/P3/P4	Taichung	A14
F26 - P1/P2/P3/P4	Tainan	A10

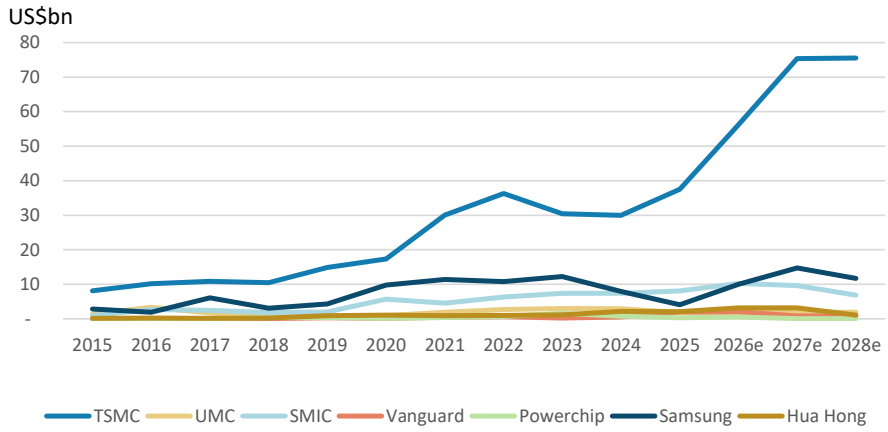
Source: Morgan Stanley Research estimates

Exhibit 18: TSMC shares its Arizona Fab P2 tool move-in in 2H26, in line with our 20kwpm capacity addition for 3nm



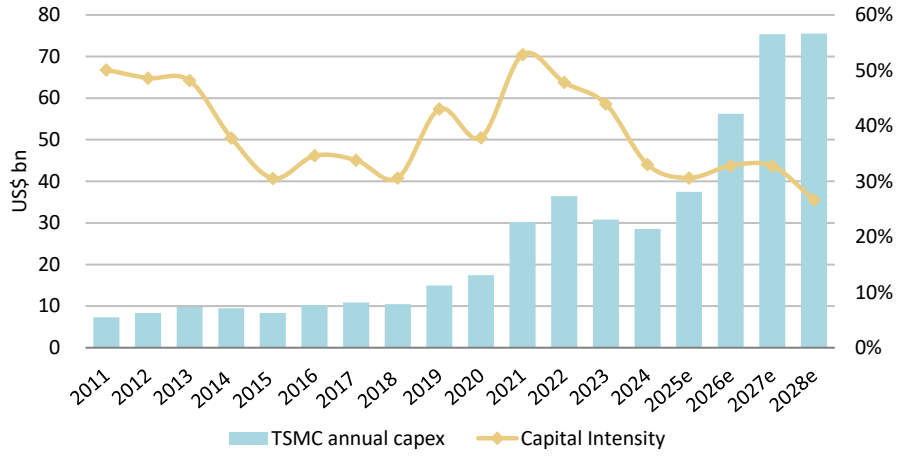
Source: TSMC

Exhibit 19: TSMC leads the capex for the whole industry



Source: Company Data, Morgan Stanley Research estimates

Exhibit 20: TSMC's capex intensity should drop significantly as a result of robust revenue growth



Source: Company Data, Morgan Stanley Research estimates

Earnings estimate revisions

We raise our earnings forecasts 4% for 2026, 11% for 2027, and 12% for 2028: We raise our 2026 revenue forecast 3% – we expect 3Q26 performance to be better than we initially thought, thanks to strong AI demand, including but not limited to sustainable Blackwell shipments.For 2027 and 2028, we factor in the pull-in of capacity build for the leading edge and potential wafer price hikes in 2027. With utilization further improving, our margin assumptions also expand 0.7-1.1ppt.

Exhibit 21: TSMC: Earnings revision

(NT$ mn)	New 2026e	Old 2026e	Diff.%	New 2027e	Old 2027e	Diff.%	New 2028e	Old 2028e	Diff.%
Net sales	5,360,940	5,213,620	3%	7,132,285	6,566,633	9%	8,787,896	8,060,022	9%
Gross profit	3,598,737	3,476,058	4%	4,851,218	4,401,351	10%	6,023,802	5,430,454	11%
Operating profit	3,196,368	3,076,809	4%	4,283,717	3,850,597	11%	5,356,165	4,772,653	12%
Pretax income	3,302,788	3,185,165	4%	4,387,166	3,956,627	11%	5,455,614	4,874,683	12%
Net income	2,789,152	2,679,677	4%	3,708,187	3,344,231	11%	4,597,307	4,107,817	12%
Diluted EPS	**107.56**	**103.34**	**4%**	**143.01**	**128.97**	**11%**	**177.30**	**158.42**	**12%**
Margins									
Gross margin	67.1%	66.7%		68.0%	67.0%		68.5%	67.4%	
Operating margin	59.6%	59.0%		60.1%	58.6%		60.9%	59.2%	
Pretax margin	61.6%	61.1%		61.5%	60.3%		62.1%	60.5%	
Net margin	52.0%	51.4%		52.0%	50.9%		52.3%	51.0%	

Source: Morgan Stanley Research estimates

Raise Price Target to NT$2,888

Our price target raise to NT$2,888 is mostly driven by our earnings estimate revisions. It implies 20x P/E based on our new 2027e EPS. TSMC stock is trading at 16x our 2027 EPS estimate, near its NTM average P/E of 16.5x since 2018. At this level we find the stock attractive.

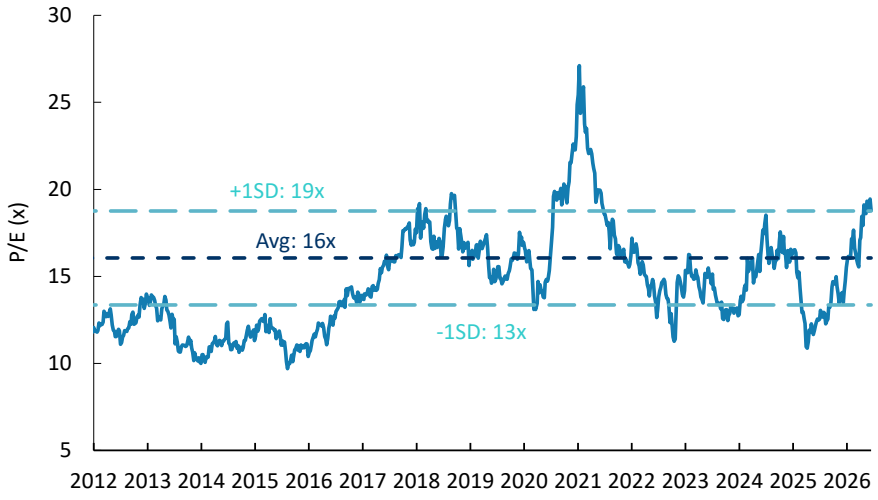
We continue to derive our 12-month price target (base case scenario) using the residual income valuation methodology. All of our key assumptions remain unchanged, including a cost of equity of 9.2% (beta of 1.2, risk premium of 6.0%, risk-free rate of 2.0%), intermediate growth rate of 10.5%, and terminal growth rate of 4%.

Exhibit 22: TSMC: Residual income model

	2026e	2027e	2028e	2029e	2030e	2031e	2032e	2033e	2034e	2035e	2036e	2037e
Total Equity	**7,708,211**	**10,664,359**	**14,302,169**	**17,553,385**	**21,145,978**	**25,115,794**	**29,502,440**	**34,349,684**	**39,705,889**	**45,624,495**	**52,164,555**	**59,391,321**
Net Profit	**2,789,152**	**3,708,187**	**4,597,307**	**5,080,025**	**5,613,427**	**6,202,837**	**6,854,135**	**7,573,819**	**8,369,070**	**9,247,822**	**10,218,844**	**11,291,822**
ROAE	**42.4%**	**40.4%**	**36.8%**	**31.9%**	**29.0%**	**26.8%**	**25.1%**	**23.7%**	**22.6%**	**21.7%**	**20.9%**	**20.2%**
Residual Income	1,810,763	2,402,384	2,946,324	3,245,752	3,477,402	3,725,129	3,992,994	4,284,639	4,603,591	4,953,442	5,337,961	5,761,181
Spread	**33.2%**	**31.2%**	**27.6%**	**22.7%**	**19.8%**	**17.6%**	**15.9%**	**14.5%**	**13.4%**	**12.5%**	**11.7%**	**11.0%**
Ending Equity Capital	7,708,211											
PV of Forecast Period	23,410,607											
PV of Continuing Value	43,761,530											
Equity Value	**74,880,348**											
No. of Shares	25,930											
Projected Price (NT$)	**2,888**											

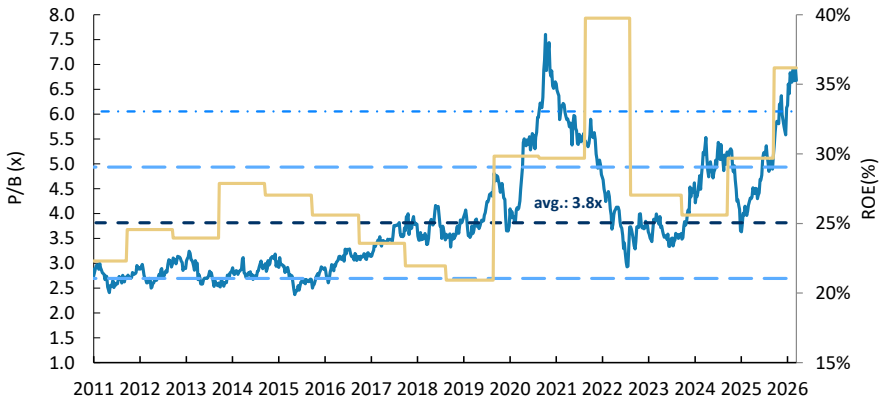
Source: Company data, Morgan Stanley Research (e) estimates

Exhibit 23: TSMC's one-year forward P/E: valuation does not appear stretched as a key AI semi enabler



Source: Company data, FactSet, Morgan Stanley Research

Exhibit 24: TSMC – P/B vs. ROE



Source: Company data, Refinitiv, Morgan Stanley Research

Exhibit 25: TSMC: Quarterly financials

(NT$ mn)	1Q25	2Q25	3Q25	4Q25	1Q26	2Q26e	3Q26e	4Q26e	2023	2024	2025	2026e	2027e	2028e
Total Revenues	**839,254**	**933,792**	**989,918**	**1,046,090**	**1,134,103**	**1,266,623**	**1,435,872**	**1,524,342**	**2,161,736**	**2,894,308**	**3,809,054**	**5,360,940**	**7,132,285**	**8,787,896**
Sequential Change	*-3.4%*	*11.3%*	*6.0%*	*5.7%*	*8.4%*	*11.7%*	*13.4%*	*6.2%*						
Change vs Year Ago	*41.6%*	*38.6%*	*30.3%*	*20.5%*	*35.1%*	*35.6%*	*45.0%*	*45.7%*	*-4.5%*	*33.9%*	*31.6%*	*40.7%*	*33.0%*	*23.2%*
Cost of Sales	**(345,859)**	**(386,423)**	**(401,375)**	**(394,103)**	**(394,103)**	**(412,358)**	**(466,301)**	**(489,442)**	**(986,625)**	**(1,269,954)**	**(1,527,760)**	**(1,762,204)**	**(2,281,067)**	**(2,764,094)**
Percent of Revenues	*41.2%*	*41.4%*	*40.5%*	*37.7%*	*34.8%*	*32.6%*	*32.5%*	*32.1%*	*45.6%*	*43.9%*	*40.1%*	*32.9%*	*32.0%*	*31.5%*
Gross Profit	**493,395**	**547,369**	**588,543**	**651,987**	**751,295**	**854,265**	**969,571**	**1,034,900**	**1,175,111**	**1,624,354**	**2,281,295**	**3,598,737**	**4,851,218**	**6,023,802**
Gross Margin	58.8%	58.6%	59.5%	62.3%	66.2%	67.4%	67.5%	67.9%	54.4%	56.1%	59.9%	67.1%	68.0%	68.5%
Total Opex	**(86,314)**	**(83,946)**	**(87,858)**	**(87,084)**	**(92,329)**	**(96,667)**	**(104,250)**	**(109,122)**	**(253,645)**	**(302,301)**	**(345,202)**	**(402,369)**	**(567,502)**	**(667,637)**
Percent of Revenues	*10.3%*	*9.0%*	*8.9%*	*8.3%*	*8.1%*	*7.6%*	*7.3%*	*7.2%*	*11.7%*	*10.4%*	*9.1%*	*7.5%*	*8.0%*	*7.6%*
R&D	(56,547)	(61,280)	(63,742)	(64,858)	(67,757)	(69,857)	(73,857)	(76,857)	(182,370)	(204,182)	(246,427)	(288,327)	(356,300)	(404,000)
Percent of Revenues	*6.7%*	*6.6%*	*6.4%*	*6.2%*	*6.0%*	*5.5%*	*5.1%*	*5.0%*	*8.4%*	*7.1%*	*6.5%*	*5.4%*	*5.0%*	*4.6%*
SG&A	(29,767)	(22,666)	(24,116)	(22,227)	(24,573)	(26,811)	(30,393)	(32,266)	(71,275)	(98,119)	(98,775)	(114,042)	(211,202)	(263,637)
Sequential Change	*1.1%*	*-23.9%*	*6.4%*	*-7.8%*	*10.6%*	*9.1%*	*13.4%*	*6.2%*						
Change vs Year Ago	*53.6%*	*-3.6%*	*-6.5%*	*-24.5%*	*-17.4%*	*18.3%*	*26.0%*	*45.2%*						
Operating Income	**407,081**	**463,424**	**500,685**	**564,902**	**658,966**	**757,598**	**865,321**	**925,777**	**921,466**	**1,322,053**	**1,936,092**	**3,196,368**	**4,283,717**	**5,356,165**
Percent of Revenues	*48.5%*	*49.6%*	*50.6%*	*54.0%*	*58.1%*	*59.8%*	*60.3%*	*60.7%*	*42.6%*	*45.7%*	*50.8%*	*59.6%*	*60.1%*	*60.9%*
Non-operating Income(Loss)	**23,815**	**29,612**	**24,684**	**27,461**	**28,834**	**25,862**	**25,862**	**25,862**	**57,706**	**83,786**	**105,571**	**106,420**	**103,449**	**99,449**
Profit Before Taxes	**430,895**	**493,035**	**525,369**	**592,363**	**687,800**	**783,460**	**891,184**	**951,640**	**979,171**	**1,405,839**	**2,041,663**	**3,302,788**	**4,387,166**	**5,455,614**
Percent of Revenues	*51.3%*	*52.8%*	*53.1%*	*56.6%*	*60.6%*	*61.9%*	*62.1%*	*62.4%*	*45.3%*	*48.6%*	*53.6%*	*61.6%*	*61.5%*	*62.1%*
Taxes	(70,163)	(95,542)	(73,614)	(86,948)	(114,998)	(133,188)	(133,678)	(142,746)	(141,404)	(233,407)	(326,266)	(524,610)	(678,978)	(858,307)
Tax Rate	*16.3%*	*19.4%*	*14.0%*	*14.7%*	*16.7%*	*17.0%*	*15.0%*	*15.0%*	*14.4%*	*16.6%*	*16.0%*	*15.9%*	*15.5%*	*15.7%*
Net Income, Cont Ops	360,733	397,493	451,755	505,415	572,801	650,272	757,506	808,894	837,768	1,172,432	1,715,397	2,778,178	3,708,187	4,597,307
Minority Interest	831	780	546	329	(322)	0	0	0	730	836	2,486	(322)	0	0
Reported Income (TW GAAP)	**361,564**	**398,273**	**452,301**	**505,744**	**572,480**	**650,272**	**757,506**	**808,894**	**838,498**	**1,173,268**	**1,717,883**	**2,789,152**	**3,708,187**	**4,597,307**
Percent of Revenues	*43.1%*	*42.7%*	*45.7%*	*48.3%*	*50.5%*	*51.3%*	*52.8%*	*53.1%*	*38.8%*	*40.5%*	*45.1%*	*52.0%*	*52.0%*	*52.3%*
Change vs Year Ago	*60.3%*	*60.7%*	*39.1%*	*35.0%*	*58.3%*	*63.3%*	*67.5%*	*59.9%*	*-17.5%*	*39.9%*	*46.4%*	*62.4%*	*33.0%*	*24.0%*
Reported EPS (NT$, TW GAAP)	**13.94**	**15.36**	**17.44**	**19.50**	**22.08**	**25.08**	**29.21**	**31.20**	**32.34**	**45.25**	**66.25**	**107.56**	**143.01**	**177.30**
Basic shares (mn units)	25,927	25,928	25,929	25,928	25,930	25,930	25,930	25,930	25,929	25,928	25,928	25,930	25,930	25,930

Source: Company data, Morgan Stanley Research (e) estimates

Risk Reward – TSMC (2330.TW)

Expect 2026 revenue and capex guidance to be raised

PRICE TARGET NT$2,888.00

Base case, residual income model. Key assumptions: a cost of equity of 9.2% (beta of 1.2, risk-free rate of 2.0% and risk premium of 6.0%), an intermediate growth rate of 10.5%, and a terminal growth rate of 4.0%.

Consensus Price Target Distribution

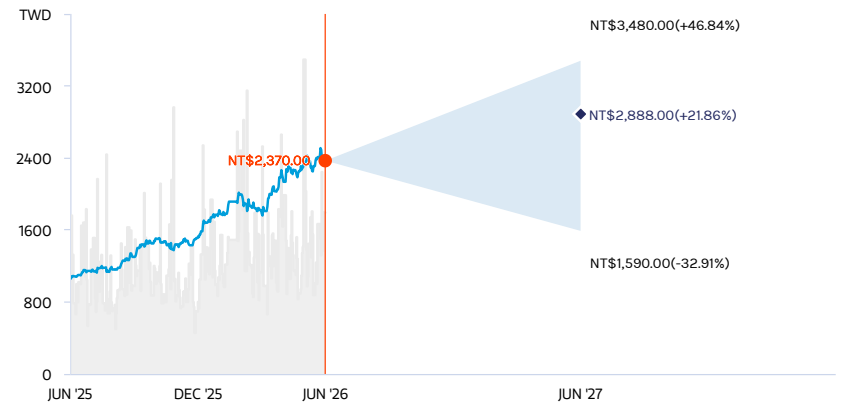
NT$480.00 — NT$2,524.76 — NT$3,500.00

MS PT

◆ Mean ◆ Morgan Stanley Estimates

Source: Refinitiv, Morgan Stanley Research

RISK REWARD CHART



Key: — Historical Stock Performance ● Current Stock Price ◆ Price Target

Source: Refinitiv, Morgan Stanley Research

OVERWEIGHT THESIS

- Reflecting robust AI capex guidance from Meta and Microsoft, TSMC remains our Top Pick.
- Our estimates reflect TSMC's strong profitability and another year of close to 40% Y/Y revenue growth seen for 2026.
- Part of that can be contributed by China's AI GPU market through Nvidia.
- Reflecting increased bargaining power, long-term margin expansion, and sustainable AI semi demand, we expect the stock to re-rate to our implied 2027e target P/E of 20x.

Consensus Rating Distribution

97%	Overweight
3%	Equal-weight
0%	Underweight

● MS Rating

Source: Refinitiv, Morgan Stanley Research

Risk Reward Themes

New Data Era:	*Positive*
Pricing Power:	*Positive*
Secular Growth:	*Positive*

View descriptions of Risk Rewards Themes here

BULL CASE NT$3,480.00

24x 2027e EPS

TSMC dominates foundry services: 1) Breakthrough in EUV tech and materials accelerates node migration to 3nm and beyond. 2) Intel outsources its server CPU production to TSMC sooner than expected. 3) Intel or Samsung exits leading-edge foundry business. 4) New tech megatrends such as 6G or AI drive global semi revenue growth and increase demand for leading edge nodes. 5) Cost per transistor decreases further along with node migration.

BASE CASE NT$2,888.00

20x 2027e EPS

Leading position in leading-edge logic foundry services with some gross margin expansion: 1) Global semi revenue CAGR is sustained in the high single digits in 2025-28. 2) TSMC continues to lead in market share in 16nm, 7nm, 5nm, 3nm, and 2nm. 3) It continues to observe robust AI-related demand. 4) Cost per transistor does not decrease meaningfully in 3nm and 2nm, while capex per k is more demanding than for 7nm and 5nm.

BEAR CASE NT$1,590.00

11x 2027e EPS

TSMC's dominance in foundry business erodes: 1) Global ex-memory semi revenue growth is weaker than expected in 2025-28. 2) Declining trailing-edge market share causes revenue shortfall. 3) Intel's contribution is weaker than expected. Intel and/or Samsung successfully develop leading-edge process technology. 4) Intel's foundry business execution proves successful and weighs on TSMC with order competition. 5) Demand for 2nm is less than expected given high transistor cost for foundry customers.

Risk Reward – TSMC (2330.TW)

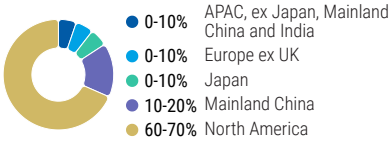
KEY EARNINGS INPUTS

Drivers	Dec 2025	Dec 2026e	Dec 2027e	Dec 2028e
Revenue from 5nm Geometry (NT$, mn)	1,179,907	1,282,106	1,118,627	1,111,915
Revenue from 10/7nm Geometry (NT$, mn)	459,258	514,285	525,849	523,809
Revenue from 16/20nm Geometry (NT$, mn)	220,027	289,383	318,988	336,404

INVESTMENT DRIVERS

- Moore's Law migration (chip scaling) and alternative technologies
- Capex intensity - cost of building leading-edge foundry capacity
- Bargaining power with key equipment vendors
- Transistor cost for customers
- ROI for leading-edge foundry

GLOBAL REVENUE EXPOSURE



Source: Morgan Stanley Research Estimate
View explanation of regional hierarchies here

MS ALPHA MODELS

1/5 MOST — 3 Month Horizon

Source: Refinitiv, FactSet, Morgan Stanley Research; 1 is the highest favored Quintile and 5 is the least favored Quintile

RISKS TO PT/RATING

RISKS TO UPSIDE

- TSMC charges large customers more to keep its gross margin above 56% in the long term.
- AI semi demand grows more significantly than expected, while TSMC maintains high market share in leading-edge foundry business.
- Outsourcing from Intel CPU increases in 2025-27.

RISKS TO DOWNSIDE

- Inventory correction occurs in 2026.
- Demand for leading edge technologies weakens.
- Costs of overseas fabs grow significantly.

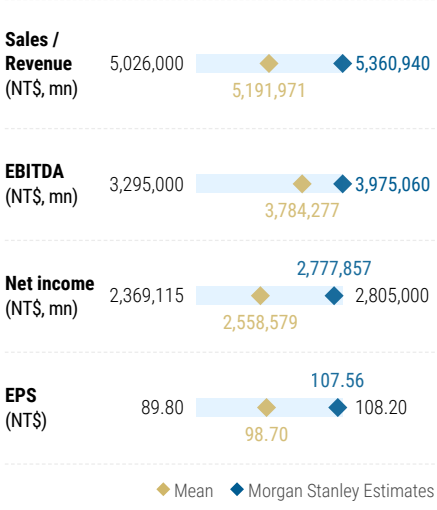
OWNERSHIP POSITIONING

Inst. Owners, % Active 75.9%

Source: Refinitiv, Morgan Stanley Research

MS ESTIMATES VS. CONSENSUS

FY Dec 2026e



Source: Refinitiv, Morgan Stanley Research

Financial summary

Income Statement, 2024-2028e, Year End Dec

(NT$ mn)	2024	2025	2026e	2027e	2028e
Revenue	**2,894,308**	**3,809,054**	**5,360,940**	**7,132,285**	**8,787,896**
YoY Growth	*33.9%*	*31.6%*	*40.7%*	*33.0%*	*23.2%*
Gross Profit b/f dep	2,247,086	2,924,670	4,317,109	5,826,339	7,366,380
Less: COGS	**(1,269,954)**	**(1,527,760)**	**(1,762,204)**	**(2,281,067)**	**(2,764,094)**
Variable costs	(647,221)	(884,384)	(1,043,831)	(1,305,946)	(1,421,517)
Depreciation & amort	(622,733)	(643,376)	(718,373)	(975,121)	(1,342,578)
Gross profit	**1,624,354**	**2,281,295**	**3,598,737**	**4,851,218**	**6,023,802**
% margin	*56.1%*	*59.9%*	*67.1%*	*68.0%*	*68.5%*
YoY Growth	*38.2%*	*40.4%*	*57.7%*	*34.8%*	*24.2%*
Operating Expenses:	**(302,301)**	**(345,202)**	**(402,369)**	**(567,502)**	**(667,637)**
R&D	(204,182)	(246,427)	(288,327)	(356,300)	(404,000)
Sales and Marketing	(13,144)	(16,918)	(20,871)	(35,661)	(43,939)
General and Admin	(84,975)	(81,857)	(93,171)	(175,540)	(219,697)
Operating Profit	**1,322,053**	**1,936,092**	**3,196,368**	**4,283,717**	**5,356,165**
% margin	*45.7%*	*50.8%*	*59.6%*	*60.1%*	*60.9%*
YoY Growth	*43.5%*	*46.4%*	*65.1%*	*34.0%*	*25.0%*
Non-Operating Income	**83,786**	**105,571**	**106,420**	**103,449**	**99,449**
Pretax Profit	**1,405,839**	**2,041,663**	**3,302,788**	**4,387,166**	**5,455,614**
% margin	*48.6%*	*53.6%*	*61.6%*	*61.5%*	*62.1%*
Tax	(233,407)	(326,266)	(524,610)	(678,978)	(858,307)
Reported net Income	**1,173,268**	**1,717,883**	**2,789,152**	**3,708,187**	**4,597,307**
Reported EPS (NT$)	**45.25**	**66.25**	**107.56**	**143.01**	**177.30**
EPS for consensus (NT$)	**45.25**	**66.25**	**107.56**	**143.01**	**177.30**

Balance Sheet, 2024-2028e, Year End Dec

(NT$ mn)	2024	2025	2026e	2027e	2028e
Cash & Equivalent	2,127,627	2,767,856	3,955,283	5,400,591	7,938,665
MarketableSecurity	294,393	300,738	347,964	347,964	347,964
A/R & N/R	272,088	281,791	432,146	563,084	672,923
Inventories	287,869	288,109	371,283	473,147	561,970
Other Current Ass.	106,376	178,635	207,452	207,452	207,452
Total current assets	**3,088,352**	**3,817,131**	**5,314,129**	**6,992,239**	**9,728,975**
Long-term Investment	149,040	172,370	166,567	166,567	166,567
Total fixed assets	3,234,980	3,691,841	4,696,400	6,005,818	6,934,253
Total other assets	219,565	251,682	274,192	274,192	274,192
Total Assets	**6,691,938**	**7,933,024**	**10,451,287**	**13,438,815**	**17,103,986**
A/P & N/P	74,227	84,330	114,372	145,751	173,112
Accrued Expenses	0	0	0	0	0
Other Payable	531,377	630,217	754,314	754,314	754,314
Curr. of L-T Debt	59,858	136,926	156,242	156,242	156,242
Other Curr. Liab.	599,064	606,547	703,842	703,842	703,842
Total Current Liab.	**1,264,525**	**1,458,019**	**1,728,769**	**1,760,148**	**1,787,509**
L-T Liabilities	926,605	856,228	860,026	860,026	860,026
Total Other L-T Liab	177,233	157,982	154,281	154,281	154,281
Total Liabilities	**2,368,362**	**2,472,229**	**2,743,077**	**2,774,455**	**2,801,817**
Common Stocks	259,327	259,325	259,324	259,324	259,324
Preferred Stocks	0	0	0	0	0
Capital Reserve	73,261	73,446	73,666	73,666	73,666
Retained earnings	3,955,957	5,086,825	7,333,792	10,289,941	13,927,751
Treasury Stock	0	0	0	0	0
Minority Equity	35,031	41,199	41,429	41,429	41,429
Total Equity	**4,323,576**	**5,460,795**	**7,708,211**	**10,664,359**	**14,302,169**
Total Liab. & Equity	**6,691,938**	**7,933,024**	**10,451,287**	**13,438,815**	**17,103,986**

Key Ratios, 2024-2028e

	2024	2025	2026e	2027e	2028e
Return (%)					
ROAA	19%	23%	30%	31%	30%
ROAE	30%	35%	43%	41%	37%
OP. ATO	0.7x	0.7x	0.8x	1.0x	0.9x
Gearing (x)					
Net Debt/ Equity	-0.33x	-0.38x	-0.43x	-0.44x	-0.51x
Current Ratio	2.4x	2.6x	3.1x	4.0x	5.4x
Quick Ratio	1.9x	2.1x	2.5x	3.4x	4.8x
Operating Cycle					
AR/NR Turnover (days)	29	26	24	25	25
Inventory Turnover (days)	76	68	67	67	67
AP Turnover (days)	19	19	20	21	21
Cash Conversion (days)	87	75	71	71	72

Cash Flow Statement, 2024-2028e, Year End Dec

(NT$ mn)	2024	2025	2026e	2027e	2028e
Net Income Current	1,173,268	1,717,883	2,789,152	3,708,187	4,597,307
Depreciation	662,797	688,096	778,692	1,026,443	1,413,240
Net Investment Losses (Gains)	8,205	8,083	5,115	0	0
Decrease (Increase) in Working Capital	20,896	(17,144)	(37,121)	(201,423)	(171,301)
Others	(38,988)	(121,942)	(121,402)	0	0
Cash Flow-Operating	**1,826,177**	**2,274,976**	**3,414,436**	**4,533,207**	**5,839,246**
(Purchase) of FA	(956,007)	(1,272,411)	(1,705,726)	(2,335,860)	(2,341,675)
Sale of Fix Asset	895	797	1,813	0	0
(Purchase)L-T Inv.	(3,739)	0	0	0	0
Others	94,008	127,220	(7,904)	0	0
Cash Flow-Inv.	**(864,843)**	**(1,144,393)**	**(1,711,817)**	**(2,335,860)**	**(2,341,675)**
Inc(Dec)-S-T Debt	0	0	0	0	0
Inc(Dec) L-T Debt	28,601	7,948	1,630	0	0
Dividend Paid	(363,055)	(466,779)	(570,513)	(752,039)	(959,498)
Dir.&Emp.Bonus	0	0	0	0	0
Others	(11,847)	18,486	8,122	0	0
Cash Flow-Financing	**(346,301)**	**(440,345)**	**(560,761)**	**(752,039)**	**(959,498)**
Change in Cash	**662,199**	**640,229**	**1,187,427**	**1,445,308**	**2,538,074**
Net cash/(debt), b/f	1,465,428	2,127,627	2,767,856	3,955,283	5,400,591
Net cash/(debt), c/f	**2,127,627**	**2,767,856**	**3,955,283**	**5,400,591**	**7,938,665**

e = Morgan Stanley Research Estimates
Source: Company Data, Morgan Stanley Research

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Morgan Stanley is acting as exclusive financial advisor to AP Grange Holdings, LLC ("AP Grange") in relation to a definitive agreement with Intel Corporation ("Intel"), for Intel to repurchase the 49% equity interest in the joint venture related to Intel's Fab 34 in Ireland not held by Intel, as announced on April 1, 2026. The transaction is subject to customary closing conditions. AP Grange has agreed to pay fees to Morgan Stanley for its financial advisory services. Please refer to the notes at the end of this report.

Morgan Stanley is acting as financial advisor to Grail, Inc. ("Grail") in connection with the proposed strategic collaboration with Samsung C&T and Samsung Electronics, to bring Grail's Galleri multi-cancer early detection test to key Asian markets, as announced on October 16, 2025. The proposed transaction is subject to final execution of definitive collaboration agreements between the parties, as well as customary closing conditions and regulatory approvals. Please refer to the notes at the end of this report.

Risk Reward Reference links

1. View explanation of Options Probabilities methodology - Options_Probabilities_Exhibit_Link.pdf

2. View descriptions of Risk Rewards Themes - RR_Themes_Exhibit_Link.pdf

3. View explanation of regional hierarchies - GEG_Exhibit_Link.pdf

4. View explanation of Theme/Exposure methodology - ESG_Sustainable_Solutions_External_Link.pdf

5. View explanation of HERS methodology - ESG_HERS_External_Link.pdf

Disclosure Section

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(as of May 31, 2026)
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	Coverage Universe		Investment Banking Clients (IBC)			Other Material Investment Services Clients (MISC)	
Stock Rating Category	Count	% of Total	Count	% of Total IBC	% of Rating Category	Count	% of Total Other MISC
Overweight/Buy	1542	42%	465	51%	30%	707	43%
Equal-weight/Hold	1571	43%	369	40%	23%	723	44%
Not-Rated/Hold	3	0%	0	0%	0%	1	0%
Underweight/Sell	551	15%	86	9%	16%	201	12%
Total	3,667		920			1632	

Data include common stock and ADRs currently assigned ratings. Investment Banking Clients are companies from whom Morgan Stanley received investment banking compensation in the last 12 months. Due to rounding off of decimals, the percentages provided in the "% of total" column may not add up to exactly 100 percent.

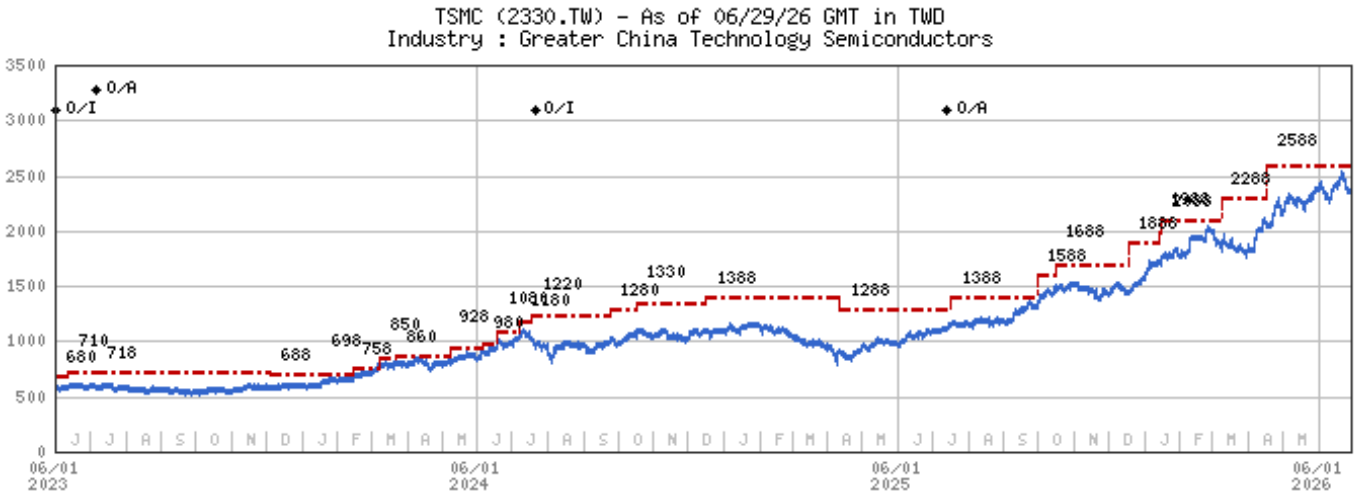
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Stock Price, Price Target and Rating History (See Rating Definitions)



Stock Rating History: 6/1/21 : O/I; 6/18/21 : E/I; 10/12/21 : E/C; 2/7/22 : O/C; 10/4/22 : O/A; 2/22/23 : O/I; 7/7/23 : O/A; 7/21/24 : O/I; 7/14/25 : O/A

Price Target History: 5/20/21 : 655; 6/18/21 : 580; 1/3/22 : 618; 1/13/22 : 648; 2/7/22 : 780; 9/23/22 : 720; 12/14/22 : 700; 4/20/23 : 680; 6/12/23 : 710; 7/7/23 : 718; 12/4/23 : 688; 1/18/24 : 698; 2/14/24 : 758; 3/8/24 : 850; 3/22/24 : 860; 5/8/24 : 928; 6/6/24 : 980; 6/18/24 : 1080; 7/8/24 : 1180; 7/18/24 : 1220; 9/24/24 : 1280; 10/17/24 : 1330; 12/16/24 : 1388; 4/11/25 : 1288; 7/17/25 : 1388; 9/30/25 : 1588; 10/16/25 : 1688; 12/18/25 : 1888; 1/14/26 : 1988; 1/16/26 : 2088; 3/9/26 : 2288; 4/17/26 : 2588

Source: Morgan Stanley Research Date Format : MM/DD/YY Price Target No Price Target Assigned (NA)
Stock Price (Not Covered by Current Analyst) Stock Price (Covered by Current Analyst)
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COMPANY (TICKER)	RATING (AS OF)	PRICE* (06/29/2026)
Charlie Chan		
ACM Research Inc (ACMR.O)	O (03/07/2023)	US$104.50
Advanced Micro-Fabrication Equipment Inc (688012.SS)	O (11/06/2023)	Rmb456.69
Advanced Wireless Semiconductor Co (8086.TWO)	U (07/14/2025)	NT$142.00
Alchip Technologies Ltd (3661.TW)	O (05/14/2021)	NT$3,985.00
ASE Technology Holding Co. Ltd. (3711.TW)	O (09/15/2024)	NT$627.00
Cambricon Technology Corporation (688256.SS)	O (04/27/2026)	Rmb1,482.00
Global Unichip Corp (3443.TW)	O (06/24/2026)	NT$4,420.00
GlobalWafers Co Ltd (6488.TWO)	E (05/19/2026)	NT$915.00
Gudeng Precision (3680.TWO)	O (11/25/2025)	NT$489.00
Hua Hong Semiconductor Ltd (1347.HK)	E (03/12/2026)	HK$204.20
Iluvatar CoreX Semiconductor Co., Ltd. (9903.HK)	O (04/27/2026)	HK$695.00
King Yuan Electronics Co Ltd (2449.TW)	O (03/03/2023)	NT$308.50
Maxscend Microelectronics Co Ltd (300782.SZ)	U (01/11/2021)	Rmb100.80
MediaTek (2454.TW)	O (11/28/2025)	NT$3,910.00
MetaX Integrated Circuits (688802.SS)	E (04/27/2026)	Rmb793.55
Nanya Technology Corp. (2408.TW)	O (05/28/2026)	NT$453.00
NAURA Technology Group Co Ltd (002371.SZ)	O (11/06/2023)	Rmb860.19
OmniVision Integrated Circuits Group Inc (603501.SS)	E (11/17/2025)	Rmb88.30
Phison Electronics Corp (8299.TWO)	E (02/25/2026)	NT$2,340.00
SG Micro Corp. (300661.SZ)	E (11/03/2025)	Rmb133.60
Silergy Corp. (6415.TW)	U (05/19/2026)	NT$598.00
SMIC (0981.HK)	O (10/21/2025)	HK$84.80
TSMC (2330.TW)	O (02/07/2022)	NT$2,370.00
UMC (2303.TW)	O (05/19/2026)	NT$164.00
Vanguard International Semiconductor (5347.TWO)	E (01/14/2026)	NT$208.50
WIN Semiconductors Corp (3105.TWO)	U (07/14/2025)	NT$412.00

Daisy Dai, CFA		
ASMPT Ltd (0522.HK)	O (07/24/2025)	HK$217.00
China Resources Microelectronics Limited (688396.SS)	U (03/02/2026)	Rmb92.47
Elan Microelectronics Corp (2458.TW)	O (10/03/2025)	NT$180.00
Empyrean Technology Co Ltd (301269.SZ)	E (01/17/2025)	Rmb114.26
Hangzhou Silan Microelectronics Co. Ltd. (600460.SS)	U (08/25/2025)	Rmb52.59
Innoscience (2577.HK)	E (10/13/2025)	HK$63.90
JCET Group Co Ltd (600584.SS)	E (01/16/2026)	Rmb103.25
Shanghai Fudan Microelectronics (1385.HK)	O (03/07/2025)	HK$30.20
SICC Co Ltd (688234.SS)	O (03/20/2026)	Rmb175.28
StarPower Semiconductor Ltd (603290.SS)	E (05/14/2026)	Rmb139.04
Unigroup Guoxin Microelectronics Co Ltd (002049.SZ)	U (01/10/2023)	Rmb85.35
Universal Scientific Ind. (Shanghai) (601231.SS)	O (11/05/2025)	Rmb30.81
Yangjie Technology (300373.SZ)	O (06/10/2022)	Rmb149.95
Daniel Yen, CFA		
AP Memory Technology Corp (6531.TW)	O (07/11/2025)	NT$980.00
ASMedia Technology Inc (5269.TW)	U (10/03/2025)	NT$1,475.00
Aspeed Technology (5274.TWO)	O (06/09/2025)	NT$15,210.00
Egis Technology Inc (6462.TWO)	E (01/28/2026)	NT$113.50
Espressif Systems (688018.SS)	O (05/15/2023)	Rmb115.89
GigaDevice Semiconductor Beijing Inc (603986.SS)	O (05/15/2025)	Rmb840.00
Macronix International Co Ltd (2337.TW)	O (09/18/2025)	NT$158.50
Montage Technology Co Ltd (6809.HK)	O (03/18/2026)	HK$447.60
Montage Technology Co Ltd (688008.SS)	O (03/18/2026)	Rmb296.06
Novatek (3034.TW)	U (02/04/2026)	NT$523.00
Nuvoton Technology Corporation (4919.TW)	U (11/10/2025)	NT$170.50
Parade Technologies Ltd (4966.TWO)	O (05/27/2026)	NT$631.00
Powerchip Semiconductor Manufacturing Co (6770.TW)	O (10/27/2025)	NT$78.90
Realtek Semiconductor (2379.TW)	E (01/30/2026)	NT$783.00
Shenzhen Goodix Technology Co Ltd (603160.SS)	U (07/14/2025)	Rmb58.19
Winbond Electronics Corp (2344.TW)	O (05/28/2026)	NT$203.00
WPG Holdings (3702.TW)	O (03/16/2026)	NT$104.50
WT Microelectronics Co. Ltd. (3036.TW)	O (01/27/2026)	NT$209.00
Duan Liu		
Dosilicon Co Ltd (688110.SS)	U (09/06/2024)	Rmb193.30
Shenzhen Longsys Electronics Co Ltd (301308.SZ)	E (02/25/2026)	Rmb723.10
Tiffany Yeh		
AllRing Tech Co. (6187.TWO)	O (09/23/2025)	NT$980.00
FOCI Fiber Optic Communications Inc (3363.TWO)	O (01/15/2025)	NT$567.00
Himax Technologies Inc (HIMX.O)	E (02/04/2026)	US$14.39
Hon Precision (7769.TW)	O (04/17/2026)	NT$6,395.00
MPI Corporation (6223.TWO)	O (04/17/2026)	NT$6,060.00
Silicon Motion (SIMO.O)	O (05/06/2024)	US$305.28
WinWay Technology Co Ltd (6515.TW)	O (04/17/2026)	NT$8,015.00

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* Historical prices are not split adjusted.

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