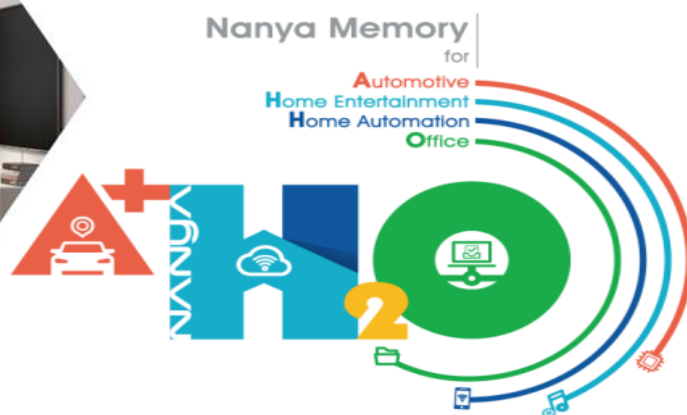


Nanya Technology

Q4' 2018 Investor Conference

Presentation to Investors and Analysts, 15 Jan. 2019

Dr. Pei-Ing Lee , President & Spokesman



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Agenda

01.	Q4'18 Revenue & Results
02.	2018 Revenue & Results
03.	CAPEX & Bit Shipment
04.	Market Outlook
05.	Business Review & Outlook

01

Q4'18 REVENUE & RESULTS

Q4'18 Financial Results Summary

Amount in Million NT\$, except for EPS & BVPS	Q4'18 Unaudited		Q3'18 Audited		QoQ	Q4'17 Audited		YoY
Net Sales	16,958	100%	24,375	100%	-30.4%	16,769	100%	1.1%
Gross Profit (Loss) <i>Gross Margin(%)</i>	8,972	52.9%	14,366	58.9%	-37.5%	8,318	49.6%	7.9%
Operating Income (Loss) <i>Operating Margin(%)</i>	7,092	41.8%	12,434	51.0%	-43.0%	6,526	38.9%	8.7%
EBITDA* <i>EBITDA Margin (%)</i>	10,217	60.2%	15,487	63.5%	-34.0%	9,407	56.1%	8.6%
Non-operating Income (Expense)	894	5.3%	438	1.8%	103.9%	15,457	92.2%	
Income Tax Benefit (Expense)	-33	-0.2%	0	0%		-17	-0.1%	
Net Income (Loss) <i>Net Margin (%)</i>	7,953	46.9%	12,872	52.8%	-38.2%	21,971	131.0%	-63.8%
Earnings Per Share (NT\$)	2.57**		4.15			7.42		
Book Value Per Share (NT\$)	54.01***		51.52			44.54		
Shares Outstanding(million shares)	3,053		3,102			2,986		

Note: * EBITDA = Operating income + Depreciation & Amortization Expenses

*** BVPS is calculated based on 3,053M outstanding shares after deduction of treasury stocks

** EPS is based on weighted average outstanding shares of 3,090M

Quarterly Revenue Results

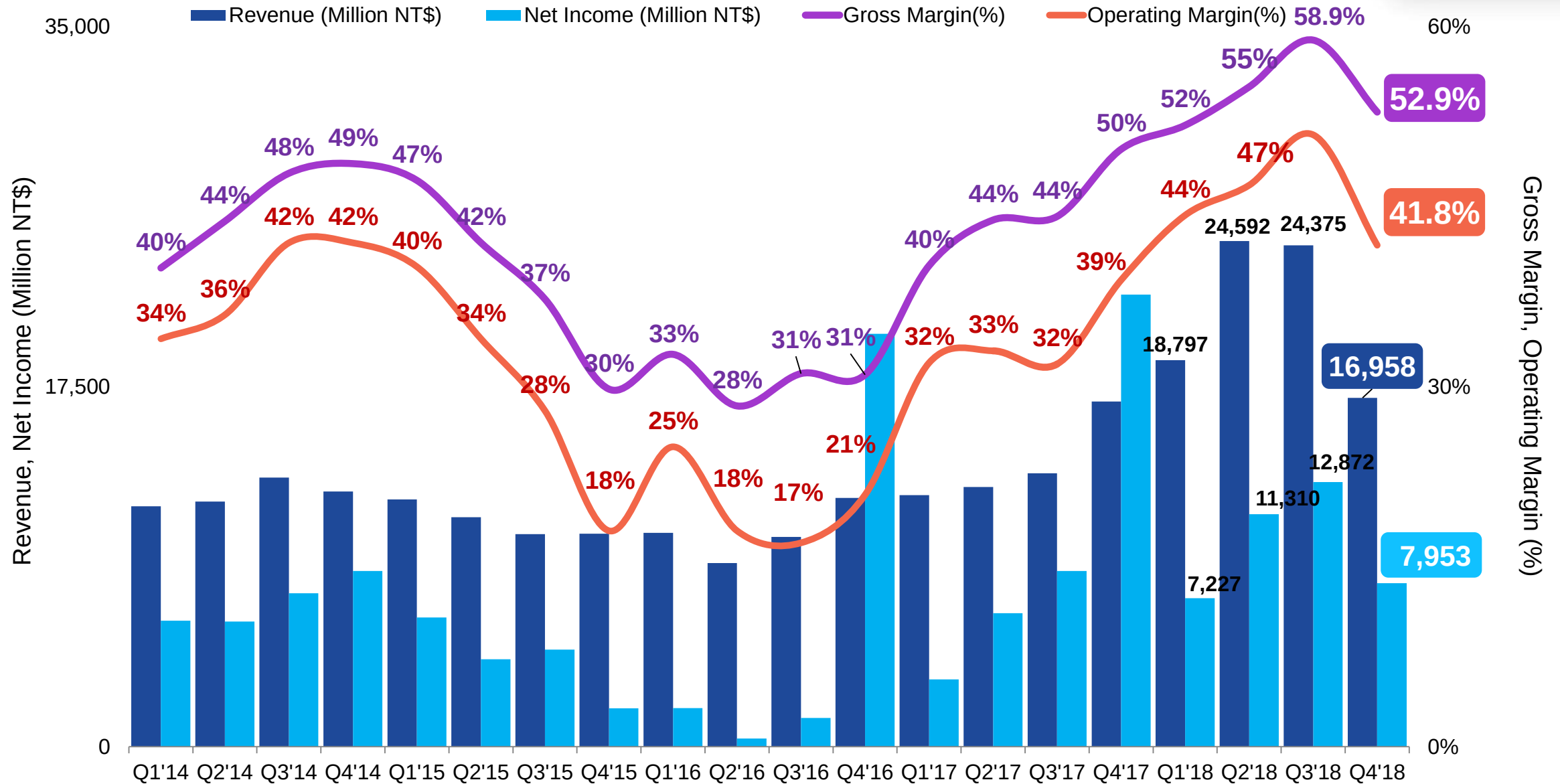
	QoQ Q4 '18 vs. Q3'18	YoY Q4'18 vs. Q4'17
Revenue	-30.4%	+1.1%
Shipment	decreased low twenties %	Flat
ASP	decreased low teens %	decreased low single digits
Exchange Rate	+0.58%	+2.5%

- Q4'18 Revenue decreased by 30.4% QoQ
- Q4'18 Bit shipment decreased by low twenties % QoQ
- Q4'18 ASP decreased by low teens % QoQ

Q4'18 vs. Q3'18 Results Comparison

Amount in Million NT\$	Q4'18 Unaudited	Q3'18 Audited	QoQ (PPT* Delta)	Remarks
Net Sales	16,958	24,375		■ Bit shipment decreased by low twenties % range QoQ ■ ASP decreased by low teens% QoQ
Gross Profit (Loss) Gross Margin(%)	8,972 52.9%	14,366 58.9%	-6.0%	■ Q4'18 Gross profit decreased NT\$ 5,394M, mainly due to shipment and ASP decline
Operating Income (Loss) Operating Margin(%)	7,092 41.8%	12,434 51.0%	-9.2%	■ Q4'18 OP Income decreased NT\$ 5,342M ■ Gross profit decreased NT\$ 5,394M ■ SG&A decreased NT\$ 34M, R&D expense decreased NT\$ 18M
Net Income (Loss) Net Margin (%)	7,953 46.9%	12,872 52.8%	-5.9%	■ Net Income decreased NT\$ 4,919M ■ OP Income decreased NT\$ 5,342M ■ FX** gain increased NT\$ 370M (Q4'18: NT\$ 483M; Q3'18: NT\$ 113M) ■ Other Income increased NT\$ 98M mainly from Interest Income

Quarterly Financial Highlights

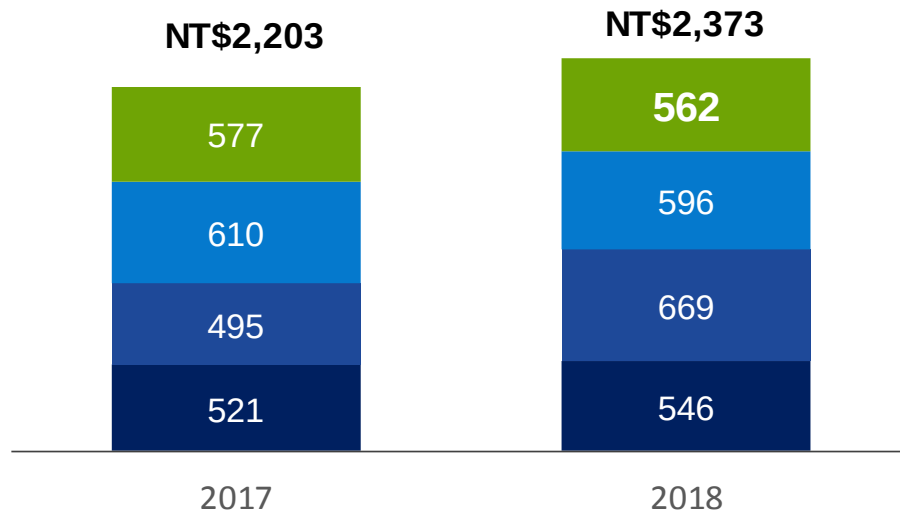


Operating Expenses

SG&A Expenses

(Million NT\$)

* Unaudited number



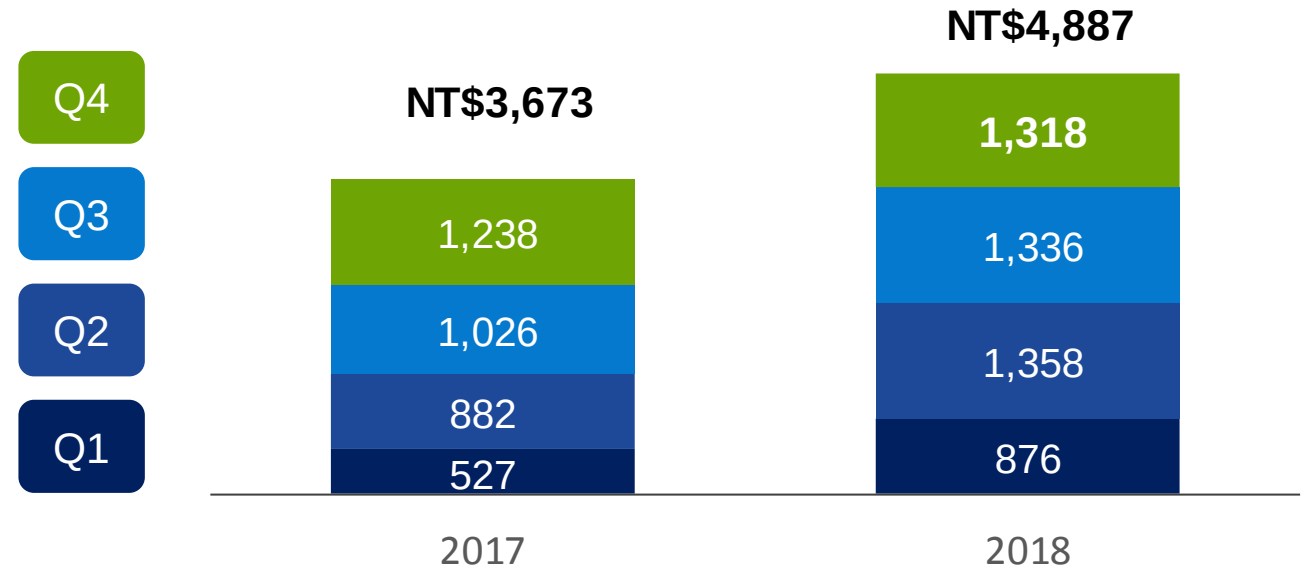
Note:

- Q4'18 SG&A expenses similar to those in Q3'18

R&D Expenses

(Million NT\$)

* Unaudited number



Note:

- Q4'18 R&D expenses similar to those in Q3'18
- Y2018 R&D expenses increased by NT\$1,214M; mainly for 20nm products deployment and next generation technology development

Cash Flows

Unit: Million NT\$	Q4'18 Unaudited & Consolidated	Q3'18 Audited & Consolidated
Beginning Balance	57,259	61,537
Cash from Operating Activities	15,475	13,096
Capital expenditures	-12,745	-2,960
Investments and others	-2,612*	-14,414
Ending Balance	57,376	57,259
Free Cash Flow ⁽¹⁾	2,729	10,136

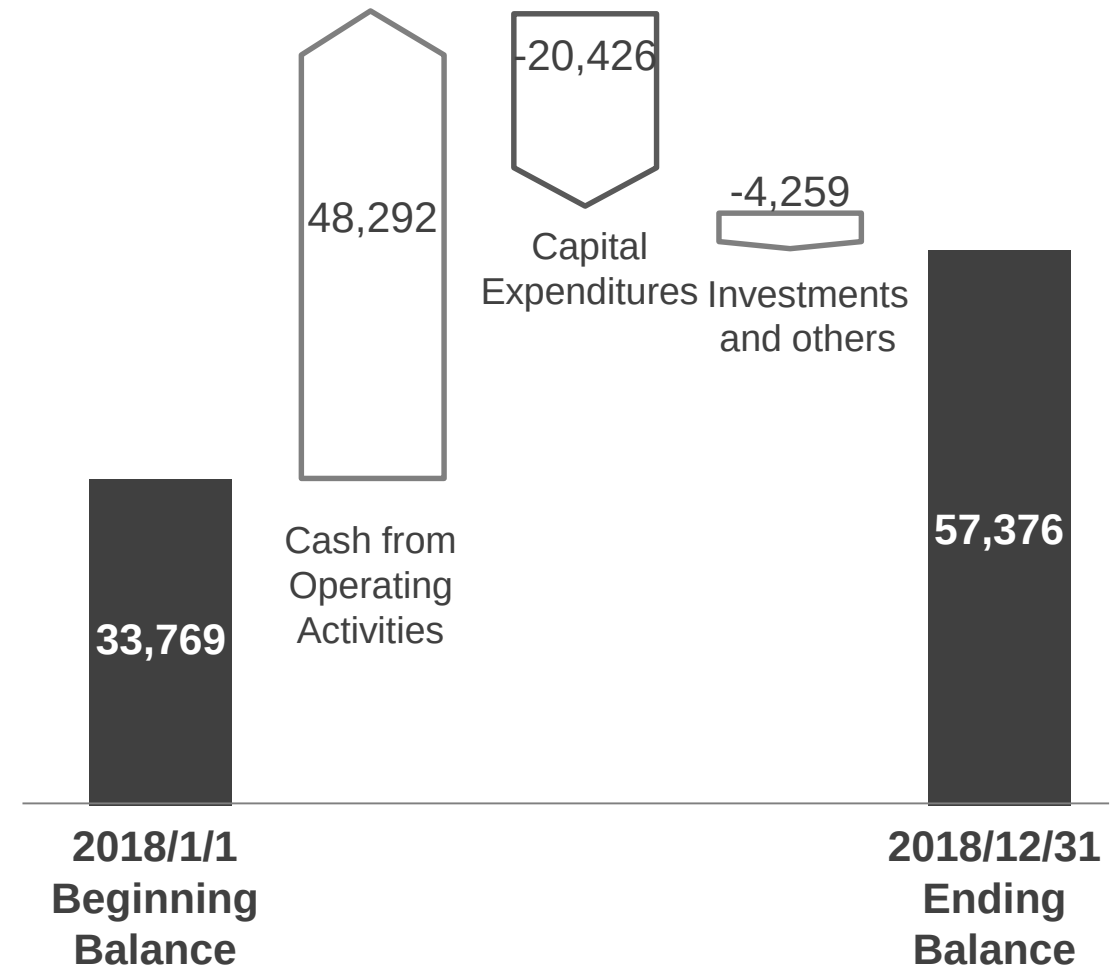
(1) Free Cash Flow = Cash from operating activities – Capital expenditures

* Mainly for share buyback of NT\$ 2,783M

Note: Nanya Technology completed cash injection of US\$ 1B into Nanya Technology International, to reduce FX heading costs.

2018 Cash Flow

Unit: Million NT\$



2018 Free Cash Flow NT\$27,866 Million

Final Results of NTC 2018 Shares Buy-back Program

Phase	Period	Purpose	Max # of shares back-back	Final # of shares being bought	W. average price of buy-back (NT\$/share)	Total amount of buy-back (NT\$)	Completion %	% of total outstanding shares
1	11/13/2018 ~ 11/28/2018	Employees' stock options	20,000,000	20,000,000	57.35	1,146,932,497	100%	0.64%
2	11/29/2018 ~ 1/11/2019	Safeguard shareholders' interests	100,000,000	50,136,000	53.17	2,665,620,924	50.1%	1.62%
Total			120,000,000	70,136,000	54.36	3,812,553,421	58.5%	2.26%

Having considered the safeguard of shareholders' interests and market conditions, the Company did not fully complete the common stock repurchase before the expiry date.

02

2018 REVENUE & RESULTS

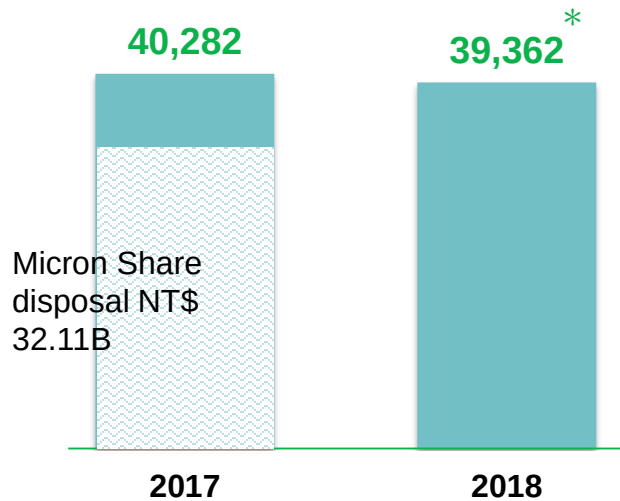
2018 vs. 2017 Results Comparison

Amount in Million NT\$	2018 Unaudited	2017 Audited	QoQ (PPT* Delta)	Remarks
Net Sales	84,722	54,918		- ASP increased by mid teens % YoY - Bit shipment increased mid thirty YoY
Gross Income (Loss) Gross Margin(%)	46,616 55.0%	24,668 44.9%	+10.1%	Gross Income increased mainly due to ASP & shipment increase and cost improvement thanks to 20nm contribution
Operating Income (Loss) Operating Margin(%)	39,355 46.5%	18,791 34.2%	+12.3%	- Operating Income increased mainly due to ASP & shipment increase and higher GM - Note: 1) R&D expenses increased by NT\$ 1,214M; mainly for 20nm products deployment and next generation technology development 2) SG&A expenses increased by NT\$ 170M
Net Income (Loss) Net Margin (%)	39,362 46.5%	40,282 73.3%	-26.8%	- Net Income decreased by NT\$ 920M mainly due to: - Operating Income increased NT\$ 20,564M - Y2017 other non-operating gain NT\$ 24,647M - FX positive NT\$ 2,134M (2018: NT\$ 1,186M 2017: NT\$ -948M) - Other income increase approx. NT\$ 1,000M mainly from Interest Income

2018 Financial Highlights

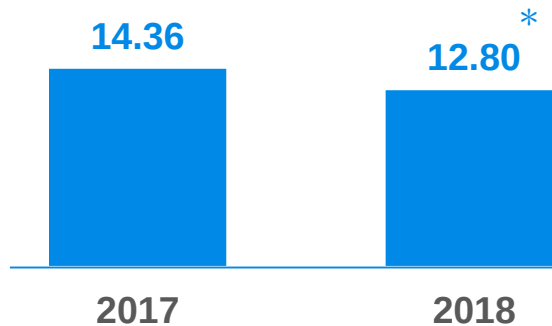
Net Income

(Million NT\$)



Earnings Per Share

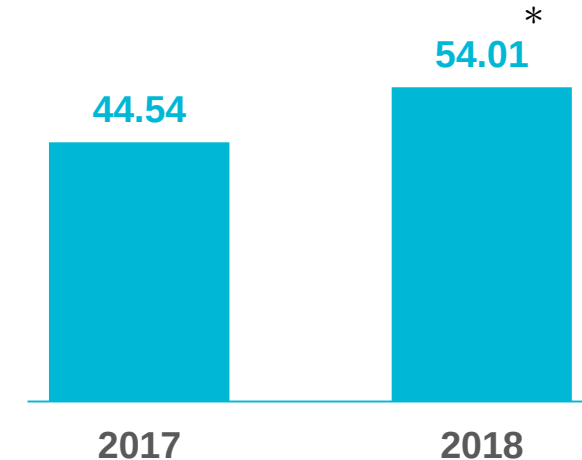
(NT\$)



Book Value Per Share

(NT\$)

* Unaudited number

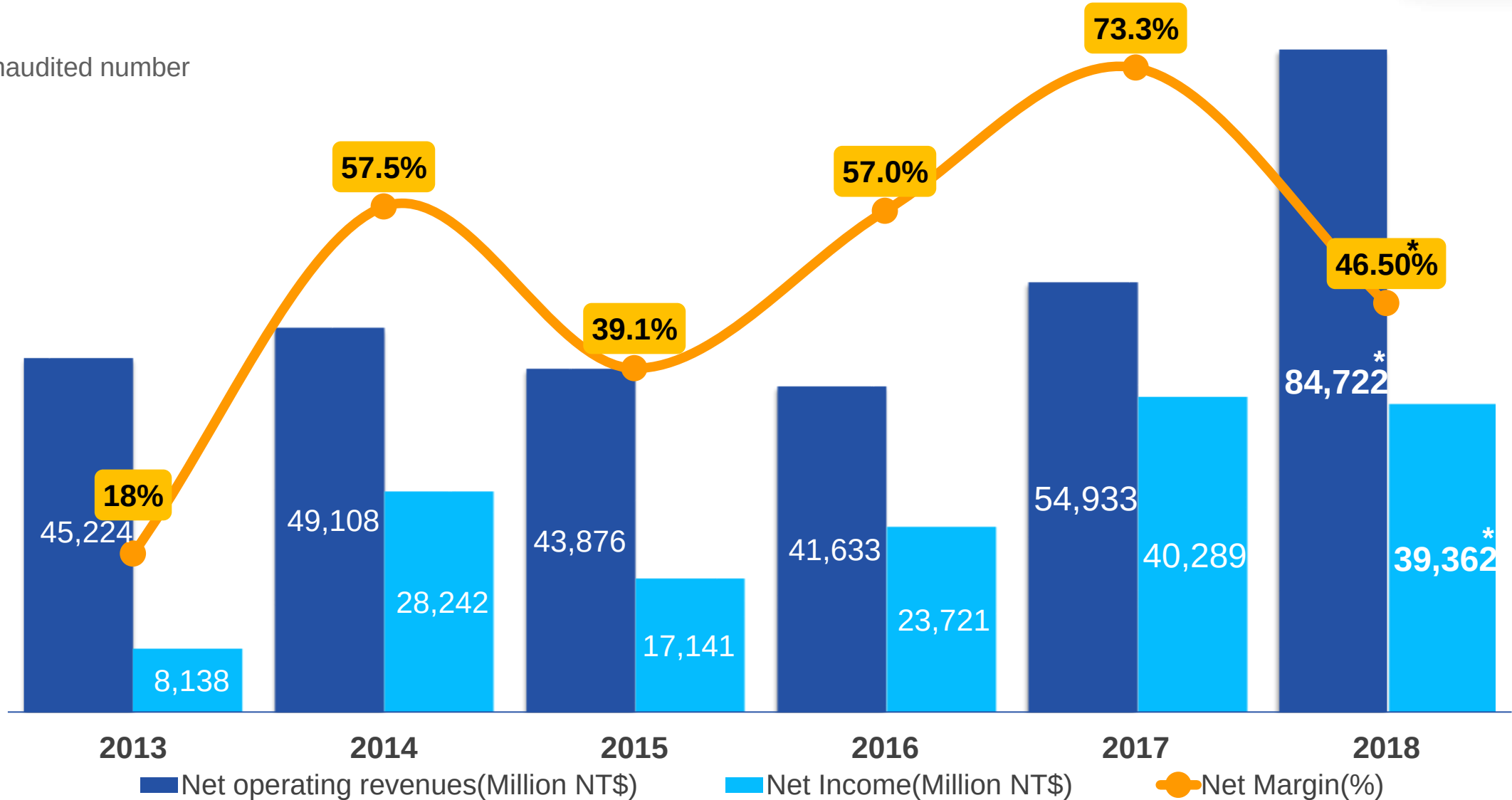


Y2018 Performance

- Revenue NT\$ 84.722B
- Net income NT\$39.36B
 - Y2018 Operating Income NT\$39.36B increased by 109.4% yoy (Y2017 Operating Income NT\$ 18.79B)
- Gross Margin 55%, Operating Margin 46.5%, Net Margin 46.5%
- EPS NT\$ 12.80, BVPS NT\$ 54.01

Annual Financial Highlights

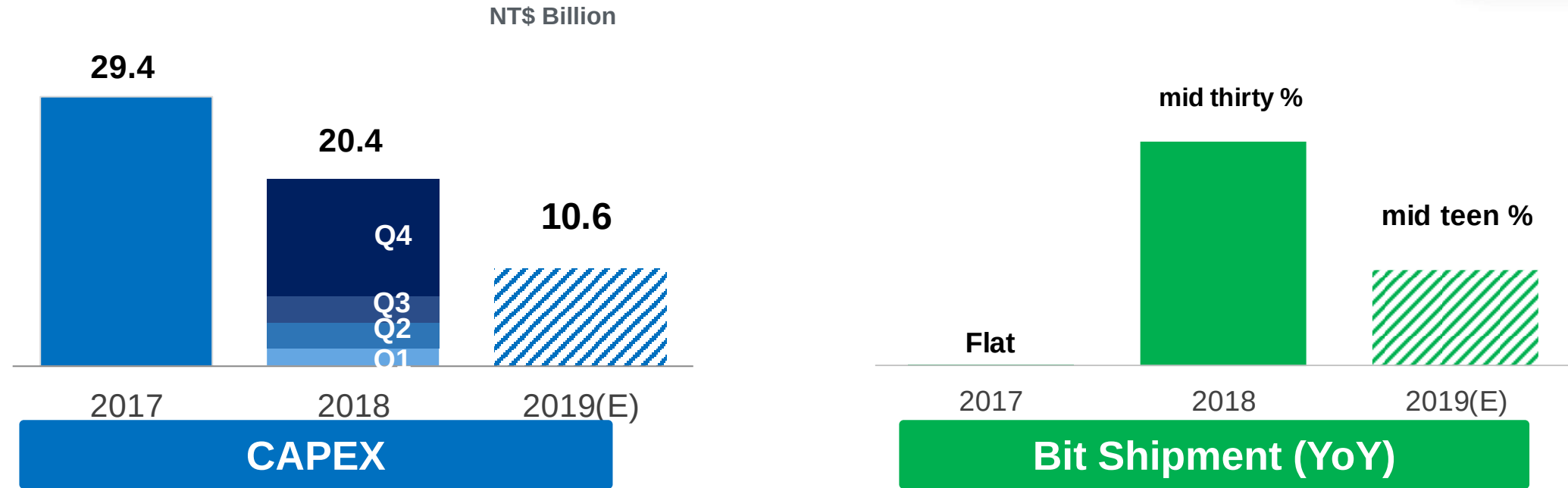
* Unaudited number



03

CAPEX & BIT SHIPMENT

CAPEX & Bit Shipment



Capital Expenditure (CAPEX)

- Q4'18 CAPEX NT\$ 12.7Billion (B)
- 2018 CAPEX NT\$ 20.4B (trim down 15%)
- 2019 CAPEX estimated NT\$ 10.6B, subject to BoD approval

Bit Shipment

- Q4'18 Bit shipment decreased by low twenty %
- 2018 Bit shipment increased by mid thirty %
- 2019 Bit shipment growth guided for mid teen %, Q1'19 bit shipment growth guided for flat to mid single digits %



04

MARKET OUTLOOK

DRAM Market outlook – 2019

Global Watch

- 1H 2019 DRAM market expected to be conservative, due to the global economic slowdown, US-China trade disputes, tariff increases resulted in supply chain adjustments and CPU shortages.

Supply

- Major suppliers delay capacity expansion since Q4'18 and conservative CAPEX plan in 2019

Demand

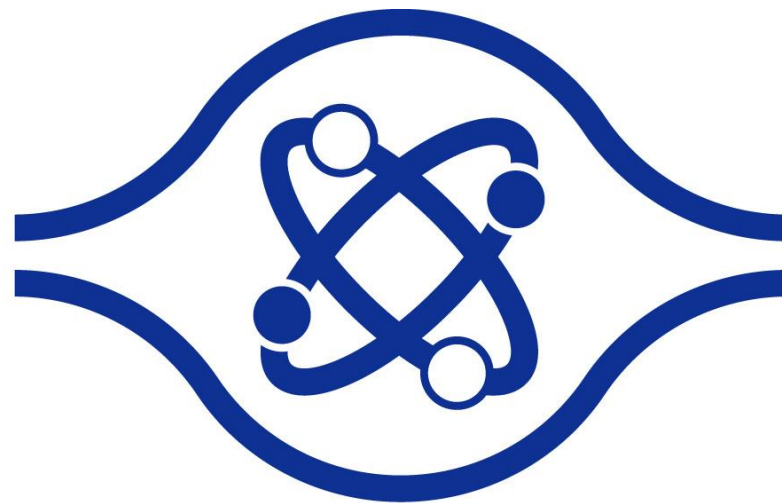
- **Mobile Market** : Smartphone with multi-lens, AI lead to memory specification upgrade. As 5G mobile phone commercialize, will stimulate DRAM demand. 2019 Android flagship model equipped with 10~12GB. DRAM content growth expected
- **Server Market** : Inventory adjustment in server markets in Q1'19. AI & networking will sustain server market long-term growth
- **PC Market** : PC shipments impact by CPU shortage prolonged, expected to be eased by mid-2019
- **Consumer Market** : US-China trade factors continue to interfere consumer market in short-term. Set-top boxes, smart speakers, SSDs, and IP CAMs growth will increase DRAM demand in the long run

05

BUSINESS REVIEW & OUTLOOK

Nanya Business Review & Outlook

- 2018 Achieved record-high on revenue, gross margin and operating income
- Share buyback NT\$3.8 billion of common stock, reduced total shares by 70 million or approximately 2.26% of shares outstanding
- DRAM demand impacted by conservative global economic outlook, tariffs trade war and CPU shortages in 1H19
- Conservative Y2019 CAPEX plan, YoY bit output below industry average



NANYA

Thanks & Questions

Q4'18 Consolidated Income Statement

Amount: Million NT\$	Q4'18 Unaudited		Q3'18 Audited		QoQ	Q4'17 Audited		YoY
Net Sales	16,958	100.0%	24,375	100.0%	-30.4%	16,769	100.0%	1.1%
Cost of Goods Sold	7,986	47.1%	10,008	41.1%		8,451	50.4%	
Gross Margin	8,972	52.9%	14,366	58.9%	-37.5%	8,318	49.6%	7.9%
SG&A Expenses	562	3.3%	596	2.4%		554	3.3%	
R&D Expenses	1,318	7.8%	1,336	5.5%		1,238	7.4%	
Operating Income	7,092	41.8%	12,434	51.0%	-43.0%	6,526	38.9%	8.7%
Non-operating Income (Exp.)	894	5.3%	438	1.8%		15,457	92.2%	
Income before Tax	7,986	47.1%	12,872	52.8%	-38.0%	21,984	131.1%	-63.7%
Income Tax Benefit (Expense)	-33	-0.2%	0	0.0%		-17	-0.1%	
Net Income	7,953	46.9%	12,872	52.8%		21,967	131.0%	
Net income attributable to noncontrolling interests	0	0.0%	0	0.0%		-4	0.0%	
Net Income attributable to NTC	7,953	46.9%	12,872	52.8%	-38.2%	21,971	131.0%	-63.8%
EPS(NT\$)	2.57		4.15			7.42		
Book Value Per Share	54.01		51.52			44.54		

2018 Income Statement

Amount: Million NT\$	Y2018		Y2017		YoY
	Unaudited & Consolidated		Audited & Consolidated		
Net Sales	84,722	100.0%	54,918	100.0%	54.3%
Cost of Goods Sold	38,106	45.0%	30,250	55.1%	
Gross Margin	46,616	55.0%	24,668	44.9%	89.0%
SG&A Expenses	2,373	2.8%	2,203	4.0%	
R&D Expenses	4,887	5.8%	3,673	6.7%	
Operating Income	39,355	46.5%	18,791	34.2%	109.4%
Non-operating Income (Exp.)	2,230	2.6%	23,039	42.0%	
Income before Tax	41,586	49.1%	41,831	76.2%	-0.6%
Income Tax Benefit (Expense)	-2,224	-2.6%	-1,536	-2.8%	
Net Income	39,361	46.5%	40,295	73.4%	
Net Income attributable to noncontrolling interests	-1	0.0%	13	0.0%	
Net Income attributable to NTC	39,362	46.5%	40,282	73.3%	-2.3%
EPS(NT\$)	12.80		14.36		