## NNNYN

## Nanya Technology Q4 2020 Investor Conference

DRAN

Cloud

Dr. Pei-Ing Lee, President & Spokesman 08 January 2021

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## Q4'20 REVENUE & RESULTS

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### **Q4'20 Financial Results Summary**

Amount in Million NT\$, except for EPS & BVPS	Q4'20 (Unaudited)		Q3'2	Q3'20		Q4'19		YoY
Net Sales	14,773	100%	15,324	100%	-3.6%	13,116	100%	12.6%
Gross Profit (Loss) Gross Margin(%)	3,251	22.0%	3,962	25.9%	-17.9%	3,377	25.7%	-3.7%
Operating Income (Loss) Operating Margin(%)	1,304	8.8%	2,069	13.5%	-37.0%	1,440	11.0%	-9.4%
EBITDA* EBITDA Margin (%)	4,937	33.4%	5,728	37.4%	-13.8%	5,169	39.4%	-4.5%
Non-operating Income (Expense)	-184	-1.2%	25	0.2%		111	0.8%	
Income Tax Benefit (Expense)	-209	-1.4%	-481	<b>-3</b> .1%		-265	-2.0%	
Net Income (Loss) Net Margin (%)	911	6.2%	1,613	10.5%	-43.6%	1,286	9.8%	-29.2%
Earnings Per Share (NT\$)	0.30**		0.53			0.42		
Book Value Per Share (NT\$)	50.02***		49.91			49.78		

Remark: \* EBITDA = Operating income + Depreciation & Amortization Expenses

\*\*\* BVPS is calculated based on 3,075M outstanding shares

\*\* EPS is based on weighted average outstanding shares of 3,074M

### NVNVV

### **Quarterly Revenue Results**

	QoQ Q4'20 vs. Q3'20	YoY Q4'20 vs. Q4'19
Revenue	-3.6%	+12.6%
Shipment	Increased low single digits%	Increased high teens%
ASP	Decreased mid single digits%	Decreased low single digits%
Exchange Rate	-2.3%	-6.4%

- Q4'20 Revenue decreased by 3.6% QoQ
- Q4'20 Bit shipment increased by low single digits% QoQ
- Q4'20 ASP decreased by mid single digits% QoQ

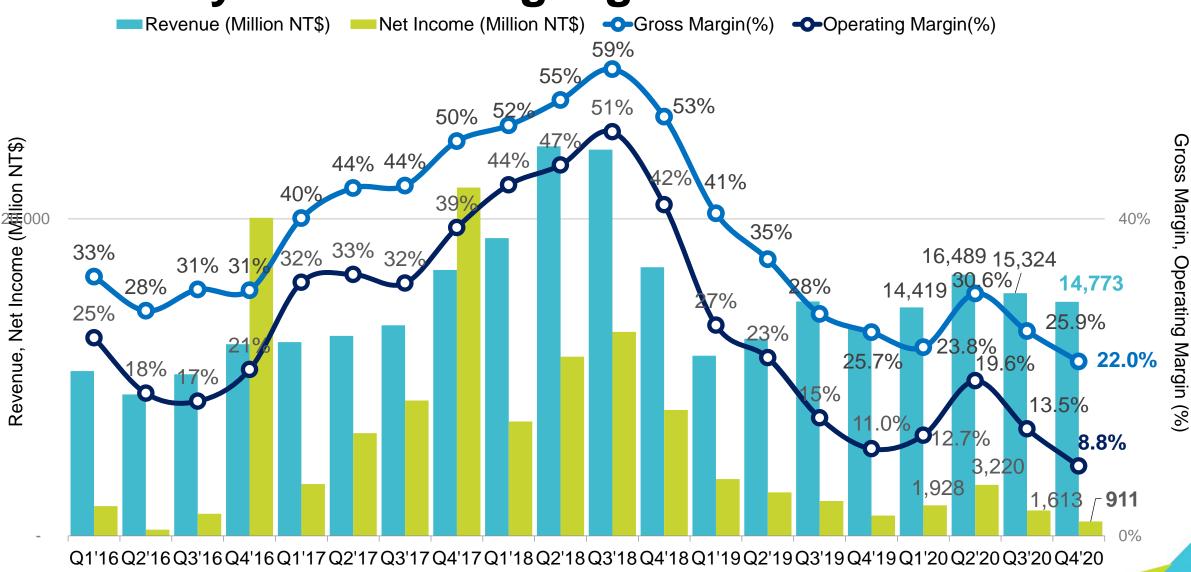


### Q4'20 vs. Q3'20 Results Comparison

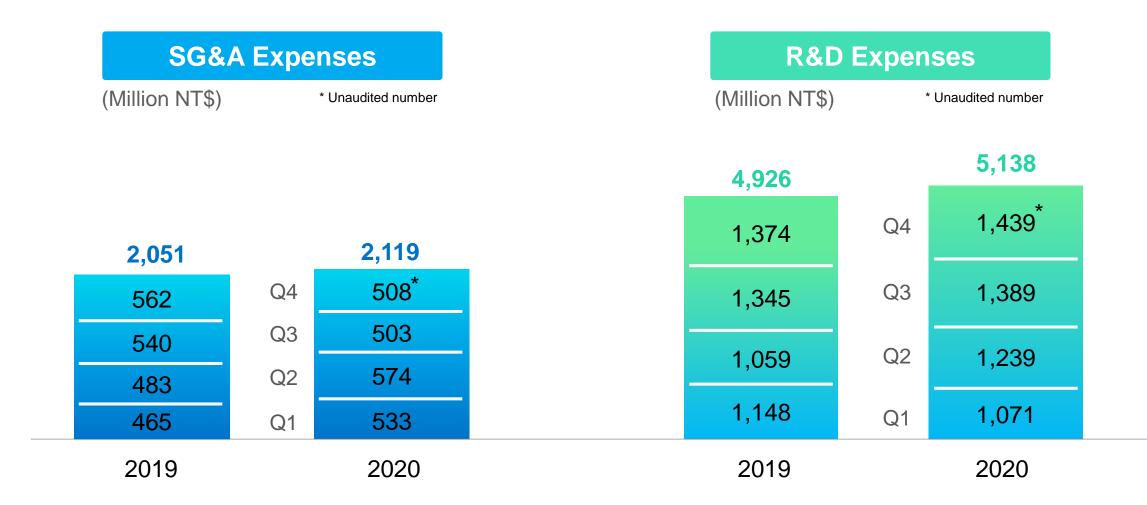
Amount in Million NT\$	Q4'20 (Unaudit		Q3'20		QoQ (PPT* Delta)		Remarks
Net Sales	14,773		15,324		-3.6%	•	Bit shipment increased low single digits% ASP decreased mid single digits% FX negative impact 2.3%
Gross Profit (Loss) Gross Margin(%)	3,251 <b>2</b> 2	2.0%	3,962	25.9%	-3.8%		Q4'20 Gross profit decreased NT\$ 710M, mainly due to ASP decrease and FX negative impact
Operating Expense	1,947 <b>1</b> .	3.2%	1,892	12.3%	0.8%		R&D expense slightly increased
<b>Operating Income (Loss)</b> Operating Margin(%)	1,304 8	8.8%	2,069	13.5%	-4.7%		Q4'20 OP Income decreased NT\$ 765M
<b>Net Income (Loss)</b> Net Margin (%)	911 6	5.2%	1,613	10.5%	-4.4%	•	<ul> <li>Net Income decreased NT\$ 703M</li> <li>OP Income decrease of NT\$ 765M</li> <li>FX loss: NT\$ 173M unfavorable (Q4: NT\$ -402M; Q3: NT\$ -229M)</li> <li>Income tax: NT\$ 272M favorable</li> </ul>



## **Quarterly Financial Highlights**



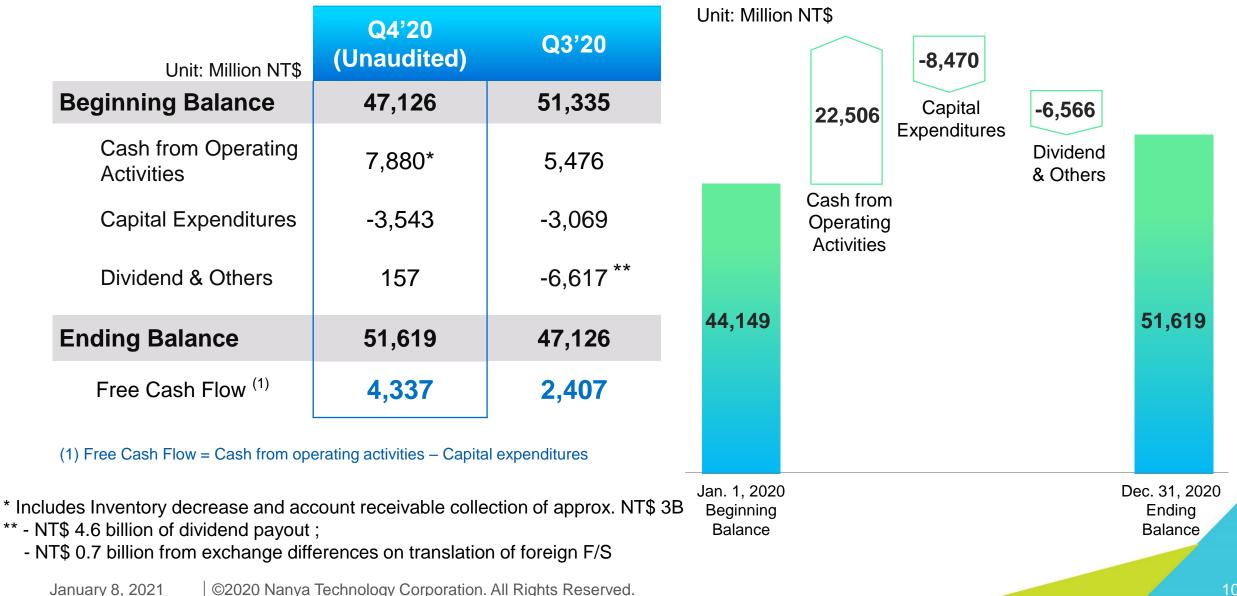
### **Operating Expenses**





### **Cash Flows**

2020 Cash Flow





## **2020 REVENUE & RESULTS**

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### **2020 Consolidated Income Statement**

Amount: Million NT\$	<b>202</b> (Unaud		<b>20</b> 1	YoY	
Net Sales	61,006	100.0%	51,727	100.0%	17.9%
Cost of Goods Sold	45,314	74.3%	35,233	68.1%	
Gross Margin	15,692	25.7%	16,494	31.9%	-4.9%
SG&A Expenses	2,119	3.5%	2,051	4.0%	
R&D Expenses	5,138	8.4%	4,926	9.5%	
Operating Income	8,435	13.8%	9,517	18.4%	-11.4%
Non-operating Income (Exp.)	539	0.9%	1,708	3.3%	
Income before Tax	8,974	14.7%	11,225	21.7%	-20.1%
Income Tax Benefit (Expense)	-1,302	-2.1%	-1,401	-2.7%	
Net Income	7,672	12.6%	9,825	19.0%	
EPS(NT\$)	2.50		3.23		
Book Value Per Share	50.02		49.78		

### 2020 vs. 2019 Results Comparison

Amount in Million NT\$	<b>20</b> 2 (Unau		20 <sup>,</sup>	19	YoY (PPT* Delta)		Remarks
Net Sales	61,006		51,727		17.9%	•	Bit shipment increased by mid thirties YoY ASP decreased by high single digits % YoY FX negative impact 4.4%
Gross Income (Loss) Gross Margin(%)	15,692	25.7%	16,494	31.9%	-6.2%	•	Gross Income decreased by NT\$ 803M mainly due to ASP decrease and FX negative impact
Operating Expense	7,257	11.9%	6,977	13.5%	-1.6%	•	SG&A expense increased NT\$ 68M, R&D expense increased NT\$ 211M
<b>Operating Income (Loss)</b> Operating Margin(%)	8,435	13.8%	9,517	18.4%	-4.6%		Operating Income decreased NT\$ 1,082M
<b>Net Income (Loss)</b> Net Margin (%)	7,672	12.6%	9,825	1 <b>9</b> .0%	-6.4%	-	<ul> <li>Net Income decreased by NT\$ 2,152M mainly due to:</li> <li>Operating Income decreased NT\$ 1,082M</li> <li>FX loss unfavorable NT\$ 569M (2020: NT\$ -755M, 2019: NT\$ -186M)</li> <li>Interest income unfavorable NT\$ 623M</li> </ul>

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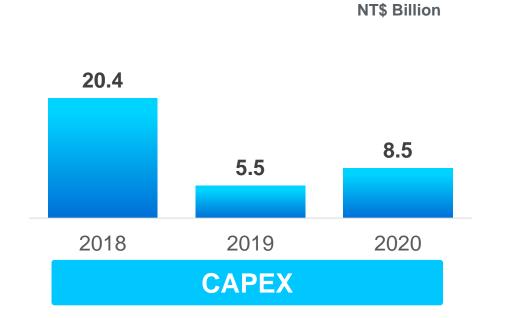
# CAPEX & BIT SHIPMENT

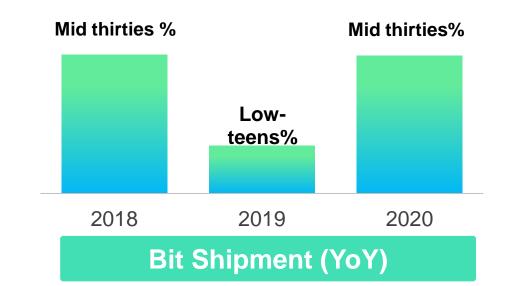
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### **CAPEX & Bit Shipment**





Capital Expondituro (CAPEX)	Q4'20 CAPEX NT\$ 3.54 billion (B) 2020 CAPEX at NT\$ 8.5B 2021 CAPEX estimate at NT\$ 15B, subject to BoD approval
Bit Shipment	Q4'20 Bit shipment increased by low single digits% QoQ 2020 YoY bit shipment growth in mid thirties% 2021 YoY bit shipment expected to be relatively flat



# MARKET OUTLOOK

### **2021 Market Outlook**

Outlook	<ul> <li>For 2021 outlook, DRAM demand is stabilizing in 1H21, DRAM industry enters a new upcycle</li> <li>1H21 Stay-at-Home economy to remain, favoring notebook, networking and Digital TV applications</li> <li>2H21 COVID-19 vaccines coverage level to gradually increase, enabling global economies growth. Various applications of 5G, A.I. smartphone, datacenters, automotive and consumer electronics to stimulate DRAM demand</li> </ul>
Supply	DRAM suppliers' inventory level to further decrease, 1H21 industry bit supply growth limited
Demand	<ul> <li>Mobile Market: Smartphone shipments to recover, 5G handset shipment percentage increasing</li> <li>Server Market: Server DRAM inventory level normalized. New server CPUs &amp; platform (8 DIMM channels) to drive DRAM content growth</li> <li>PC Market: Visibility of notebook and Chromebook demand throughout 1H21, due to remote work and e-leanings demand from ongoing Pandemic</li> <li>Consumer Market: Promising demand growth in 4K/8K DTV and STB, new-gen game consoles, 5G networking, wearable devices and automotive electronics</li> </ul>



# **BUSINESS REVIEW & OUTLOOK**



### Nanya Business Review & Outlook

- Q4'20 DRAM contract price bottom out and DRAM demand improved
- DRAM demand is stabilizing in 1H21, DRAM industry enters a new upcycle
- 10nm-class 1st generation node piloting on schedule, and 2<sup>nd</sup> generation node development accelerated
- Received 2020 National Sustainable Development Award
- Received "A List" rating, CDP's highest honor in response to climate change

\* CDP(formerly the "Carbon Disclosure Project")





### **Q4'20 Consolidated Income Statement**

Amount: Million NT\$	Q4'20 (Unaudited)		Q3'20		QoQ	Q4'19		YoY
Net Sales	14,773	100.0%	15,324	100.0%	-3.6%	13,116	100.0%	12.6%
Cost of Goods Sold	11,522	78.0%	11,362	74.1%		9,739	74.3%	
Gross Margin	3,251	22.0%	3,962	25.9%	-17.9%	3,377	25.7%	-3.7%
SG&A Expenses	508	3.4%	503	3.3%		562	4.3%	
R&D Expenses	1,439	9.7%	1,389	9.1%		1,374	10.5%	
Operating Income	1,304	8.8%	2,069	13.5%	-37.0%	1,440	11.0%	-9.4%
Non-operating Income (Exp.)	-184	-1.2%	25	0.2%		111	0.8%	
Income before Tax	1,120	7.6%	2,095	13.7%	-46.5%	1,550	11.8%	-27.8%
Income Tax Benefit (Expense)	-209	-1.4%	-481	-3.1%		-265	-2.0%	
Net Income	911	6.2%	1,613	10.5%		1,286	9.8%	
EPS(NT\$)	0.30		0.53			0.42		
Book Value Per Share(NT\$)	50.02		49.91			49.78		