

GlobalWafers (6488 TT) 3Q22 Earnings Call

November, 2022

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Executive Comments

Financial Highlights

Revenue

- ✓ Q322¹ \rightarrow NT\$18.1 billion, 2.9% QoQ, 17.5% YoY, record high!
- ✓ Since Q120², GlobalWafers' revenue has increased sequentially!

(NT\$ mn)	Q419	Q120	Q220	Q320	Q420	Q121	Q221	Q321	Q421	Q122	Q222	Q322
Revenue	13,506	13,515	13,701	14,006	14,137	14,806	15,208	15,364	15,752	16,307	17,540	18,053

 \checkmark 3Q22³ \rightarrow NT\$51.9 billion, 14.4% YoY Surpassed the 50 billion milestone and achieved record-breaking high!

Gross Profit (%)

✓ Q322 ¹ → 43.7%, record high!	(%)	Q121	Q221	Q321	Q421	Q122	Q222	Q322
\checkmark 3Q22 ³ \rightarrow 43.3%, record high!	Gross Profit (%)	35.1%	36.7%	39.1%	41.3%	42.6%	43.6%	43.7%

✓ Since Q221⁴, GlobalWafers' gross profit (%) has increased sequentially!

Q322: Third quarter of 2022

 \checkmark

2. Q120: First guarter of 2020

3Q22: First three guarters of 2022 З.



Financial Highlights

- Operating Income (%)
 - ✓ Q322¹ → 35.1%, the third highest in the history!
 - ✓ $3Q22^2 \rightarrow 35.9\%$, the highest in the history!
- Net Profit (%)
 - ✓ Q322¹ → 28.3%, record high!
 - $\checkmark 3Q22^2 \rightarrow 18.4\%$

• EPS

- ✓ Q322¹ → NT\$11.74, record high!
- $\checkmark 3Q22^2 \rightarrow NT\22
- ✓ EPS would have increased to NT\$40.89 for the first three quarters of 2022 if excluding the realized loss of Siltronic shares measured at fair value through profit or loss and impacts from other non-operational factors (NT\$18.89), record high!

Prepayment NT\$ 38,205 mn (US\$ 1,203.3 mn)³, record high!

1. Q322: Third quarter of 2022

2. 3Q22: First three quarters of 2022



Industry & Overview

Global Economy

- ✓ According to IMF, global growth is forecast to slow from 6% in 2021 to 3.2% in 2022 and 2.7% in 2023, the weakest growth profile since 2001 except for the global financial crisis and the acute phase of the COVID-19 pandemic.
- ✓ Global inflation is forecast to rise from 4.7% in 2021 to 8.8% in 2022 but to decline to 6.5% in 2023 and to 4.1% by 2024.
- Russia's invasion of Ukraine and the capricious pandemic will weigh on the global recovery.

Semiconductor Industry

✓ Short-term

Declining consumer confidence drags down PC, smartphone and memory will cycle lower in 2H22, but automotive and datacenter segments continue to be strong.

✓ Mid-term

2023 is believed to have flat growth.

✓ Long-term

Improvements in macro-economic factors, coupled with balancing of chip inventories are expected to bring growth back in 2024, buoyed by positive mega trends in digitization.



Industry & Overview

• Compound semiconductor

- Boosted by stimulus packages such as EV and net zero carbon emissions, compound semiconductors will scale up rapidly.
- The comprehensive compound semiconductor offering makes GlobalWafers wellpositioned for upcoming boom.
 - SiC substrate:
 - N+ for power, Semi insulating (High resistivity) for RF
 - SiC epi wafer: SiC on SiC for power

Automotive

Increasing demand for EV and the infotainment, autonomous driving technologies exacerbate the needs for semiconductor. However, rising geopolitical tensions bring more challenges to supply chain and the shortage is likely to continue.

Inventory

Owing to weakening demand for consumer electronics, inventory pressure has increased. Automotive and industrial applications remain strong.



Industry & Overview

• Utilization

- ✓ 200 & 300mm Solid
- ✓ 150mm Lower traction
- ✓ FZ & SOI materials Strong traction

≻ RE100

- Following the self-commitment on 100% Renewable Energy by 2050 in its global operations, GlobalWafers strengthens its green promise by formally joining RE100.
- GlobalWafers' pledge is to achieve a 20% usage ratio of renewable energy by 2030, 35% by 2035, 50% by 2040, and finally the long-term goal of 100% renewable energy usage by 2050.
- GlobalWafers implements the profound experiences of Sino-American Silicon Products Inc., the parent company, in building solar power plants, along with signing Power Purchase Agreement (PPA) and purchasing Renewable Energy Certificates (RECs).

Top Solar System Award

 Sunrise PV Four Co., Ltd, the subsidiary of GlobalWafers, is awarded the "Top Solar System Award – Best Ground Mounted PV System for 2022" by the Energy Bureau of the Ministry of Economic Affairs, Taiwan.



Economic Moat



Complete Product Offering

Semiconductors are integral for all technologies that enable shape and daily life. our Virtually all semiconductors are silicon built on wafers

GlobalWafers offers a complete product spectrum covering 3" to 12" wafers to meet the full range of customer needs and to avoid market fluctuations by production capacity adjustment.

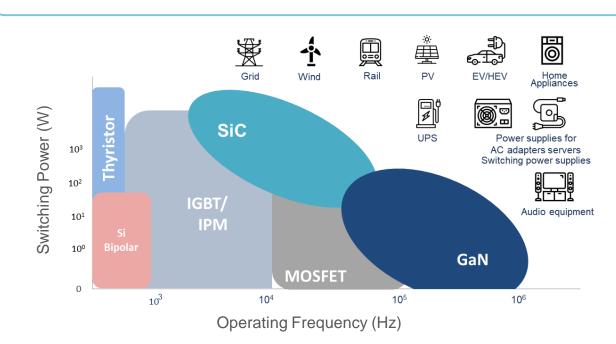
GlobalWafers' Product Spectrum

- FPI Wafer •
- Polished Wafer
- Non-polished Wafer · GaN/Si, GaN/SiC
- FZ Wafer •
- Annealed Wafer •
- Diffused Wafer •

- SOI Wafer ٠
- SiC Wafer



- Automotive •
- Communications
- Computer
- Consumer
- Renewable Energy
- Gov / Mil



Source: Yole, GlobalWafers summary



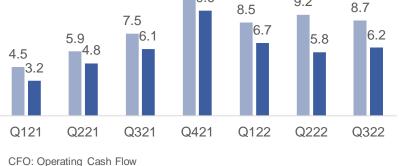
Robust Financial Structure (1)



Ample Cash

Abundant cash and strong capabilities in generating cash shows GlobalWafers' solid earning power even amid macroeconomic instability.





FCF: Free Cash Flow to Firm

02)Low Funding Cost

GlobalWafers' CAPEX is backed by low-interest funding sources such as CB and ECB, which cushion GlobalWafers from the rate lifting and lay the groundwork for long-term growth.

	Amount	Fixed Interest	Maturity
CB 1 st	NT\$ 6.5 bn	0.62%	2026
CB 2 nd	NT\$12.5 bn	0.5% / 0.6%	2024 / 2026
ECB	US\$1 bn	-0.25%	2026

Dynamic asset allocation contributes to the optimum mix of assets in the evolving economic conditions. GlobalWafers' net interest income totals \$0.4 billion in 3Q22.

GlobalWafers' low committed loan drawdown rate is well-positioned for CAPEX in the coming years.



*Net Interest Income: Including non-monetary net interest. *Committed Loan: Including bank guarantee.



Robust Financial Structure (2)

Solvency & Liquidity

03

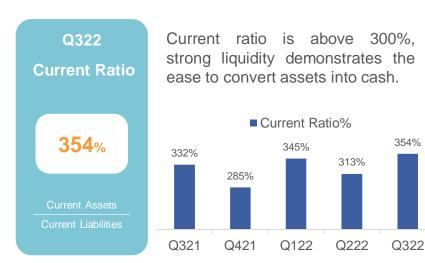


Q322 Long-term Funds to Fixed Assets

371%

Equity + Non-current Liabilities

Liabilities Fixed Assets GlobalWafers' capex projects are backed by diversified long-term funding which provides flexibility and reduces dependence on one capital source. Its stability empowers GlobalWafers to pursue sustainable growth.

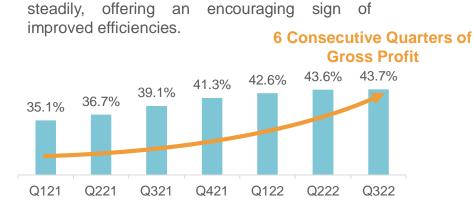




Solid Profitability

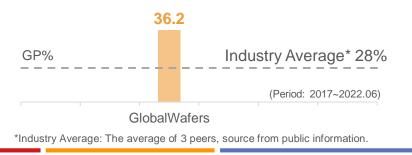
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Gross Profit (%)



GlobalWafers' gross profit (%) has grown

Compared to rivals, GlobalWafers maintains consistent gross profit ratio, effective in softening the impact of various sources of systematic risk.



02) EBITDA (%)

Excluding realized loss from Siltronic shares and other non-operational factors, GlobalWafers' EBITDA (%) shows good health of the core operations.



*Other Non-operational Factors: Including the reversed differed tax liability of retained earnings for capex from Japan subsidiaries, but excluding the tax and employee dividends impact from valuation of Siltronic shares.

03) LTA Protection

GlobalWafers' capacity is locked by LTA. Strong bonding with customers serves as buffer against downward risks in volatile market.



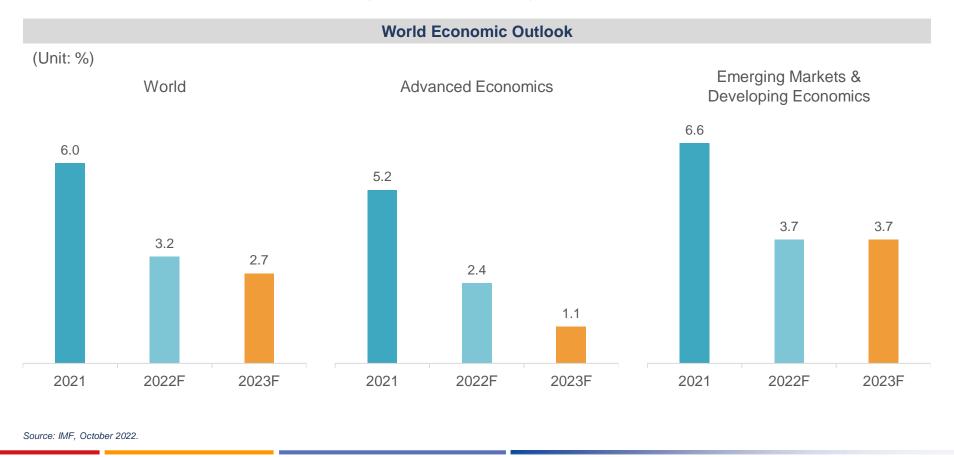


Industry Overview



Global GDP Growth Forecast

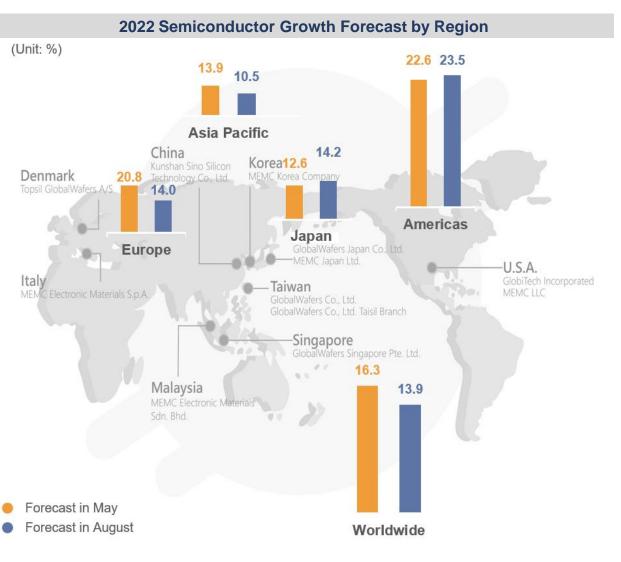
- The fragile world economy is facing the risk of another downturn due to the Russian-Ukrainian war, China's lockdown measures, and tight fiscal policies to cope with rising prices.
- Global growth is expected to slow from 6.0% in 2021 to 3.2% in 2022 and 2.7% in 2023. U.S., China and the European Union will face flat GDP growth in the coming years.





Worldwide Semiconductor Forecast

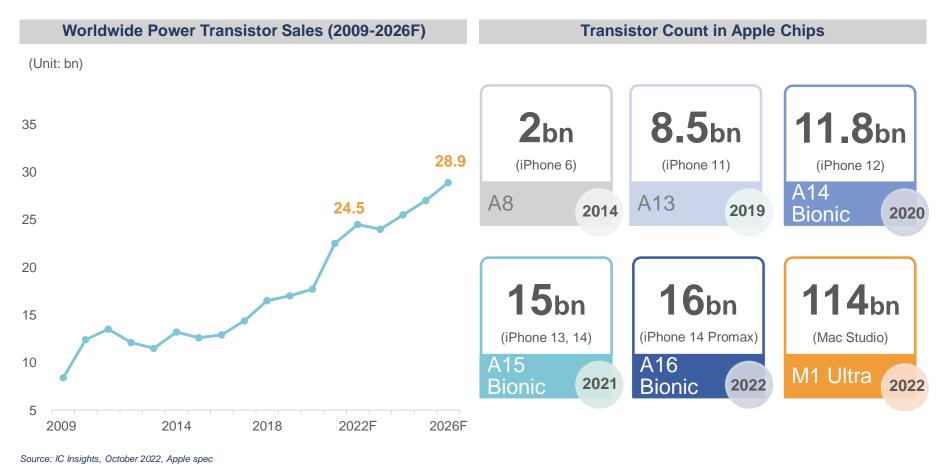
- WSTS has revised its 2022 worldwide semiconductor growth forecast down to 13.9% from 16.3% since rising inflation, ongoing supply chain disruptions, and inventory adjustment.
- Semiconductors continue to show double-digit growth across regions in 2022 because of strong resilience to market volatility.
- As the only wafer supplier who has operations in Asia, Europe and the US, the advantage of "proximity" will help GlobalWafers withstand geographic instability and supply greener with less mileage.



Technology Advancement Drives Continuous Growth of Semiconductors



Benefiting from advanced technologies such as automotive, 5G, and HPC, sales of power transistors will increase by 11% in 2022 and are expected to hit a record high for the sixth time in a row, reaching \$24.5 billion this year.





Foundry Capacity Utilization Rate

- 12" fab overall production capacity utilization rate will be maintained at approximately 95% since the products are more diverse and spec upgrade have not been affected by broader short-term economic fluctuations.
- In the short term, the cooling of the consumer product market will soothe the tightness in the capacity utilization rate of wafer foundries, but in the long run, the semiconductor industry will be supported by HPC and EV and will reach nearly full-load under certain process node.

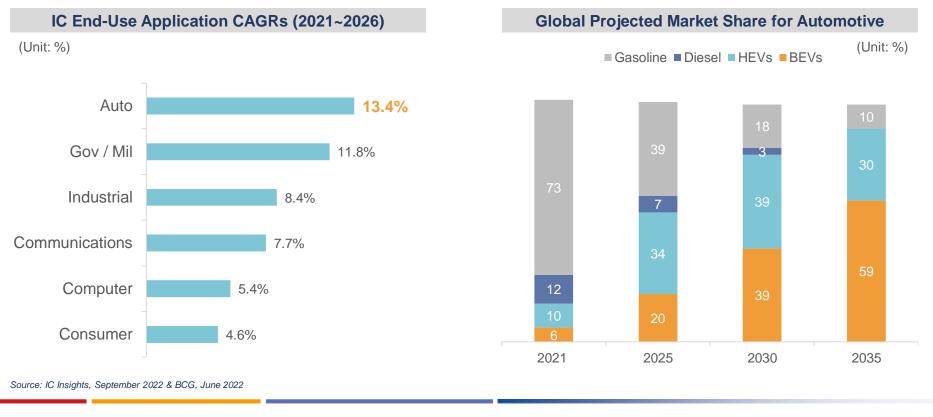
	2H22	Foundry Capacity Utilization Rate	
Wafer Size	Process Node	Major Products	2H22 UTR
8"	0.35um - 0.11um	DDI, CIS, PMIC, Power Discrete	90% - 95%
	90nm / 55nm	TDDI, CIS, Wi-Fi, MCU, PMIC, TCON IC	90% - 99%
	40nm / 28nm	AMOLED DDI, MCU,CIS/ISP,4G RF Transceiver, Wi-Fi, TV SoC, TCON IC	90% - 99% with potential downside risk
12"	1Xnm	5G RF Transceiver, 4G AP, FPGA, ASIC, Wi-Fi, TV SoC, PCH	95% - 100%
	7nm - 4nm	CPU, GPU, ASIC, 5G AP, FPGA, Al Accelerator	95% - 100%

Source: TrendForce, July 2022



The Era of Automotive

- IC End-use applications in the automotive market will witness the highest CAGR of 13.4% between 2021 and 2026. Growth in global sales of hybrid and fully electric vehicles, as well as new sensors, analog devices, controllers and optoelectronics being incorporated into most new vehicles are all adding to this growing trend.
- Government support and shifting consumer preferences will accelerate the EV growth trend, with BEVs and HEVs growing to nearly 90% market share by 2035.



SiC Power Component will Climb to US\$3.94 Billion by 2026

- It is estimated that the market size of SiC power components for vehicles will reach US\$1.07 billion in 2022, and will climb to US\$3.94 billion by 2026.
- The SiC utilization rate has extended from high-end automotive applications to mid-to-low-end vehicles, which will accelerate the process of automotive electrification.







Financial Statements



Financial Highlight : Q322 vs. Q222 vs. Q321

(NT\$ mn)	Q322	Q222	Q321	QoQ	YoY
Revenue	18,053	17,540	15,364	2.9%	17.5%
Gross Profit %	43.7%	43.6%	39.1%	0.1%	4.6%
Operating Income	6,329	6,401	4,664	-1.1%	35.7%
Operating Income %	35.1%	36.5%	30.4%	-1.4%	4.7%
Net Profit	5,111	2,716	3,105	88.2%	64.6%
Net Profit %	28.3%	15.5%	20.2%	12.8%	8.1%
EPS	NT\$11.74	NT\$6.24	NT\$7.13	NT\$5.50	NT\$4.61
EBITDA* ¹	8,326	5,488	5,393	51.7%	54.4%
EBITDA %	46.1%	31.3%	35.1%	14.8%	11.0%
EBIT	6,814	3,983	3,939	71.1%	73.0%
ROE ^{*2} (annualized)	43.1%	23.6%	26.7%	19.5%	16.4%
ROA ^{*3} (annualized)	13.3%	7.3%	9.4%	6.0%	3.9%

1. EBITDA = Net Profit + Tax + Interests + Depreciation + Amortization.

2. ROE = Net Profit / Average Shareholders Equity

3. ROA = (Net Profit + Interest*(1- Effective Tax Rate))/Average Asset



Financial Highlight : 3Q22 vs. 3Q21 (Accumulated)

(NT\$ mn)	3Q22	3Q21	YoY
Revenue	51,899	45,378	14.4%
Gross Profit %	43.3%	37.0%	6.3%
Operating Income	18,621	12,874	44.6%
Operating Income %	35.9%	28.4%	7.5%
Net Profit	9,573	9,750	-1.8%
Net Profit %	18.4%	21.5%	-3.1%
EPS	NT\$22.00	NT\$22.40	-NT\$0.4
EBITDA* ¹	15,616	17,364	-10.1%
EBITDA %	30.1%	38.3%	-8.2%
EBIT	11,135	12,921	-13.8%
ROE ^{*2} (annualized)	26.7%	28.4%	-1.7%
ROA* ³ (annualized)	8.5%	11.2%	-2.7%

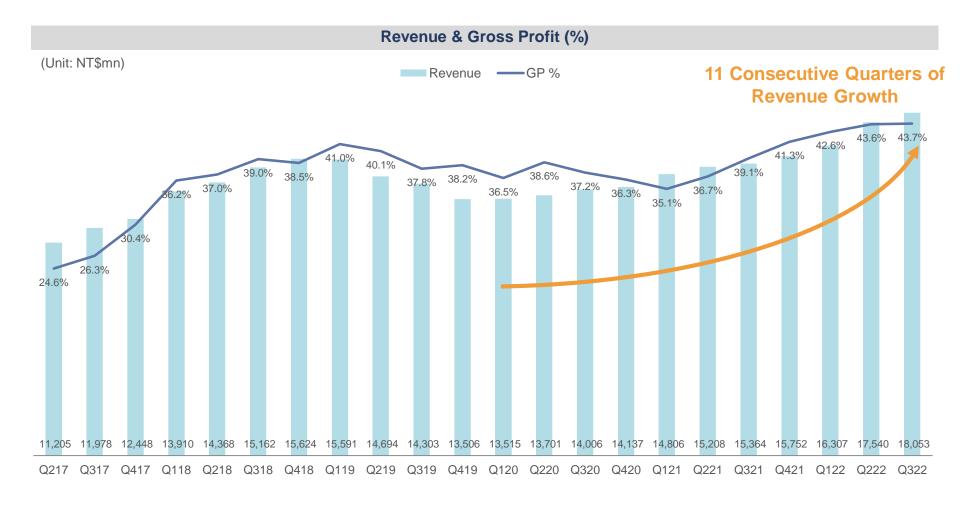
1. EBITDA = Net Profit + Tax + Interests + Depreciation + Amortization.

2. ROE = Net Profit / Average Shareholders Equity

3. ROA = (Net Profit + Interest*(1- Effective Tax Rate))/Average Asset



Revenue & Gross Profit (%)





EBITDA & EPS

(Unit: NT\$mn)

and EBITDA EBITDA (%) after recognizing the realized loss of Siltronic shares measured at fair value through profit or loss and impacts other nonfrom operational factors.

.046

2015

.025

2016

EBITDA

 EBITDA and EBITDA (%) increased if excluding the realized loss of Siltronic shares measured at fair value through profit or loss and impacts from other non-operational factors.



22,712 22,648 21,967

2019

2020

2<mark>2,5</mark>07

2021

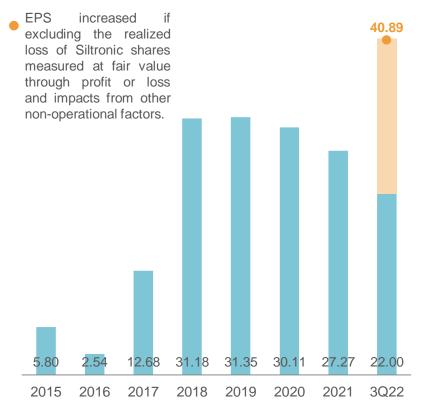
15.616

3Q22

EPS

(Unit: NT\$)

EPS after recognizing the realized loss of Siltronic shares measured at fair value through profit or loss and impacts from other non-operational factors.



12,221

2017

2018



Income Statement

Incom	e Statement							
(NT\$mn)		2019	2020	2021	Q122	Q222	Q322	3Q22 (Acc.)
Revenue		58,094	55,359	61,131	16,307	17,540	18,053	51,899
	Growth (%)	-1.6%	-4.7%	10.4%	3.5%	7.6%	2.9%	14.4%
Gross Pro	fit	22,847	20,568	23,286	6,948	7,645	7,892	22,484
	Gross Profit (%)	39.3%	37.2%	38.1%	42.6%	43.6%	43.7%	43.3%
EBITDA		22,648	21,967	22,507	1,802 ¹	5,488 ¹	8,326 ¹	15,616 ¹
	EBITDA (%)	39.0%	39.7%	36.8%	11.1%	31.3%	46.1%	30.1%
Operating	Income	17,897	15,287	17,693	5,891	6,401	6,329	18,621
	Operating Income (%)	30.8%	27.6%	28.9%	36.1%	36.5%	35.1%	35.9%
Profit befo	ore Tax	18,554	16,615	16,445	304 ¹	4,015 ¹	7,018 ¹	11,337 ¹
	Profit before Tax Margin (%)	31.9%	30.0%	26.9%	1.9%	22.9%	38.9%	21.8%
Net Profit		13,636	13,104	11,870	1,746 ¹	2,716 ¹	5,111 ¹	9,573 ¹
	Net Profit (%)	23.5%	23.7%	19.4%	10.7%	15.5%	28.3%	18.4%
EPS (NT\$)		31.35	30.11	27.27	4.01 ¹	6.24 ¹	11.74 ¹	22.00 ¹

1. Due to realized loss of Siltronic shares measured at fair value through profit or loss and impacts from other factors.



Balance Sheet

A	Short-term loan Account payable Long term loan Other liabilities	9,886 3,837 0 <u>37,789</u> 51,513	9,871 3,895 0 <u>36,930</u> 50,697	6,264 4,340 45,125 49,284 105,013	6,384 3,953 45,204 46,978 102,520	6,210 4,103 45,284 54,843 110,440	6,252 3,805 43,820 54,267 108,145
S A L	Account payable .ong term loan	3,837 0	3,895 0	4,340 45,125	3,953 45,204	4,103 45,284	3,805 43,820
S	Account payable	3,837	3,895	4,340	3,953	4,103	3,805
S		-	,			,	
	Short-term loan	9,886	9,871	6,264	6,384	6,210	6,252
<u>iabilities</u>							
Total assets		96,586	94,852	150,645	149,806	155,329	158,235
C	Other assets	14,078	20,056	34,395	27,525	26,912	25,278
Р	Property, plant and equipment	34,697	37,111	33,943	34,995	33,792	34,625
Ir	nventories	6,849	7,208	7,295	7,496	7,553	8,012
A	Account receivable	8,140	8,037	9,118	9,436	10,889	10,157
С	Cash and cash equivalents	32,822	22,439	65,894	70,354	76,183 ¹	80,164
Assets							
(NT\$mn)		2019	2020	2021	Q122	Q222	Q322

1. Increase in LTA prepayment and EBITDA









Thank You