



Spokesman: Wei-Wen Chen, Vice President

Tel.: +886-3-577-2255 #2280

Email: GWCIR@sas-globalwafers.com

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Executive Comments

> Financial Highlights

Revenue

✓ June → NT\$6.2 billion, 3.3% MoM, 15.4% YoY, record high!

- ✓ Q222¹ → NT\$17.5 billion, 7.6% QoQ, 15.3% YoY, record high!
- ✓ Since the first quarter of 2020, GWC's revenue has increased sequentially!

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

✓ 1H22² → NT\$33.8 billion, 12.8% YoY

Surpassed the 33 billion milestone and achieved record-breaking high!

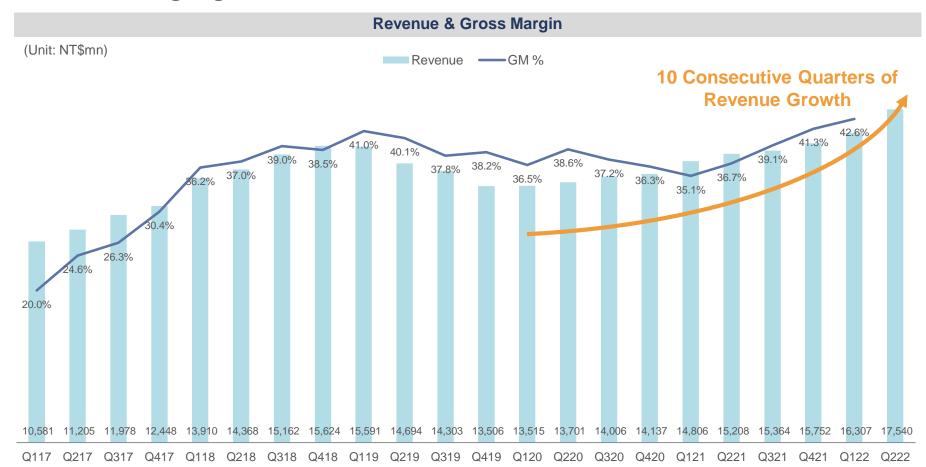
1. Q222: Second quarter of 2022

2. 1H22: First half year of 2022



Executive Comments

> Financial Highlights





➤ Industry & Overview

Global Economy

World Bank's June report lowers world GDP growth to 2.9% in 2022, down from the 4.1% predicted in January, and expects 2023 to stay near at similar level.

Semiconductor Industry

- ✓ Despite of stagflation and slowing consumer electronics, semiconductor industry remains resilient with network infrastructure and digital transformation.
- ✓ The increasing Si content growth in end applications like automotive, industrial, 5G and cloud serves as structural support for long-term growth drivers.

Potential implication of the Ukraine crisis

- ✓ Expected to affect metals and noble gas supply chains which will in turn direct impact the semiconductor industry.
- ✓ Triggering a sharp increase energy costs, leading to significant adverse affect, especially in Europe.
- ✓ Despite all these risks, semiconductor companies continue to downplay impact, which may change depending on the length of war.



> Industry & Overview

• 5G

Though a weaker global economy and the uncertainties caused by Russia's invasion of Ukraine have impacted smartphone sales, 5G adoption continues because service providers switch on 5G and launch commercial 5G services globally, taking 5G into the mainstream.

Automotive

- ✓ With China limited production, supply chain issues and the war in Ukraine, key component shortages are likely to continue. However, the slowdown in mobile and consumer electronics will help to transition foundry capacity to automotive.
- ✓ In addition, automotive HPC, EV/HEV and advanced driver assistance systems will continuously consume more automotive semiconductors to meet cutting-edge functionalities.



> Planned Dividend Payout

- 2021 Dividend NT\$ 16 (1H21: NT\$8 + 2H21: NT\$8)
- 2021 Payout Ratio 58.7%
- Record Date July 18, 2022
- Payment Date August 5, 2022

> Taiwan Wafer Manufacture Index

Listed in TIP(Taiwan Index Corporation) Customized Taiwan Wafer Manufacture Index (Top 10) since 2022/7/4.



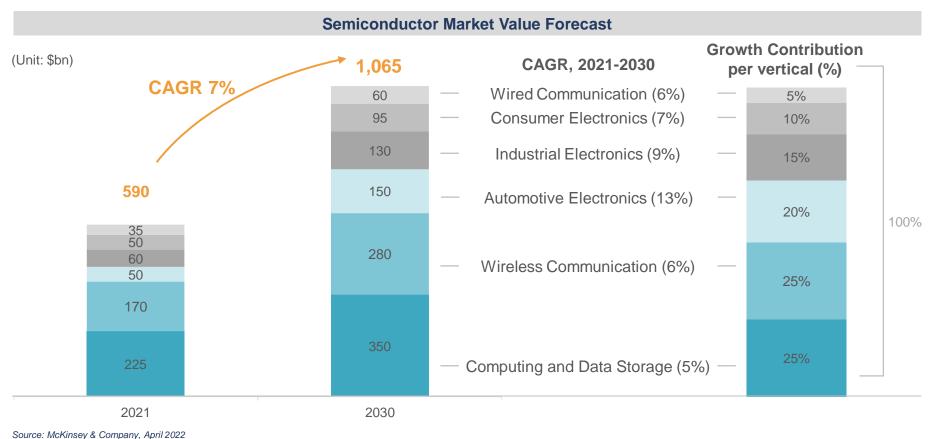
Capacity Expansion Plan

Strategic Rationale (1) –



Semiconductor - A Trillion-Dollar Industry by 2030

- Semiconductor industry is anticipated to grow at 7% CAGR and become a trillion-dollar industry by 2030.
- ➤ Compared to last decade largely driven by wireless demand, whereas growth in the next decade is deemed more sustainable growth from a more balanced set of drivers wireless plus automotive, computing and data storage (cloud), industrial/IoT.



Strategic Rationale (2) –

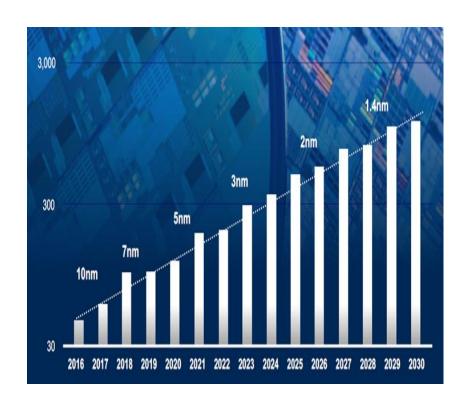
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Solid Demand for High-End 300mm Silicon Wafers

- ➤ Wireless, automotive, HPC, and IoT are areas with stable demand for advanced 300mm silicon wafers and generate steady shipment growth between 2022 and 2026.
- ➤ By 2030, the transistor density of 1.4nm logic technology will reach 1 billion per square millimeter of silicon wafer, and Moore's Law will never end.

Silicon Wafer Shipment Forecast (Unit: MSI) 14000 12000 10000 MSI 6000 4000 2000

1.4nm Logic Technology of Transistor Density



Source: Techcet, February 2022 / Gartner

Strategic Rationale (3) –



Delayed Equipment Lead Time Eases Concern of Oversupply

- > Before the pandemic, the lead time of semiconductor equipment was about 3 to 6 months and have extended to 12-18 months since 2020. After that, factors such as Russian-Ukrainian war, material shortages have delayed the delivery time to 18-30 months.
- The foundry expansion project is affected by equipment delivery delays, resulting in a decline in the annual growth rate of global foundry capacity to 8% in 2023. TrendForce believes that the extended expansion process will offset concerns about oversupply in 2023.

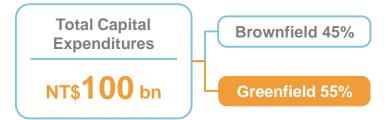
The Lead Time of Semiconductor Equipment

An extended expansion process will offset concerns about oversupply in 2023. 3M - 6M12M - 18M18M - 30MDuring the pandemic Post-pandemic Before the pandemic (2018)(2020)(2022)Russian-Ukrainian war Trade Tension between Strong Terminal Demand **US** and China Capacity Expansion **Material Shortages** High Inflation

Source: TrendForce, June 2022



Capacity Expansion Plan



GlobalWafers has announced a NT\$100 billion capacity expansion plan in Q122 with 55% capital invest in Greenfield project to aim at advanced technology process.

Why Now?

Being the key enabler, semiconductors are necessary to keep infrastructure and the society functioning, deemed essential to facilitate daily life.

Technological advancements drive both unit and content growth, megatrends like 5G, computing and data storage empower sustainable growth.

300 mm Greenfield Expansion in Texas, USA

This investment will be the largest fab of its kind in the USA and among the largest in the world along with secured abundance of land to support any required further growth.

Location: USA

- Floor Area: 3.2m square-foot
- Production: 2025
- 300mm Advanced Silicon Wafers
- Multiple stages of equipment installation and in alignment with market and LTA

With state-of-the-art facility, this expansion will close a critical semiconductor supply chain gap of US semi industry.



Texas Governor Greg Abbott May 18, 2022



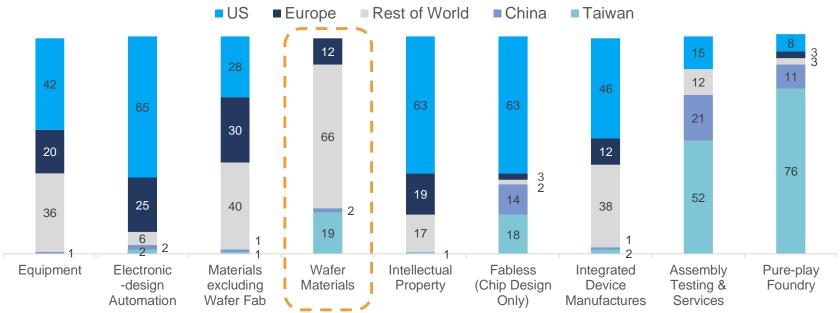
Why US? (1)



Complement US Supply Chain

By supplying 300mm silicon wafers locally in the U.S., as the starting material for all advanced semiconductor manufacturing sites, GlobalWafers avoids geopolitical tensions, responds to customers in a timely manner and complements US supply chain with advanced 300mm wafer fab.

Semiconductor sales along the value chain¹ (% Share)



Source: Mckinsey & Company, June 2022.

Note: 1. As of 2020



Why US? (2)

Major Customer Growth

Numerous semiconductor manufacturers such as Intel, Samsung, Texas Instruments and TSMC have announced US expansions, which require stable supply of wafers, and will in turn afford a more diverse customer portfolio.

03 Government Support

With incentives provided by the US federal and state governments, GlobalWafers is able to lower operating costs, solidify financial structure and pursue higher profit margin.

04 Utility Cost & Land Availability

US utility costs and land availability are best globally, providing GlobalWafers lower running cost and higher margin.

05 Green Solution

Instead of importing wafers from Asia, GlobalWafers will produce and supply wafers locally thereby reducing significant carbon footprint, benefitting both customers and GWC in the current ESG tide worldwide.

O6 Experienced Team

GWC's subsidiary, GlobiTech, is only 600m away from the Greenfield site, talented management team with decades of devotion in semiconductor business could apply experiences and boost productivity effectively.



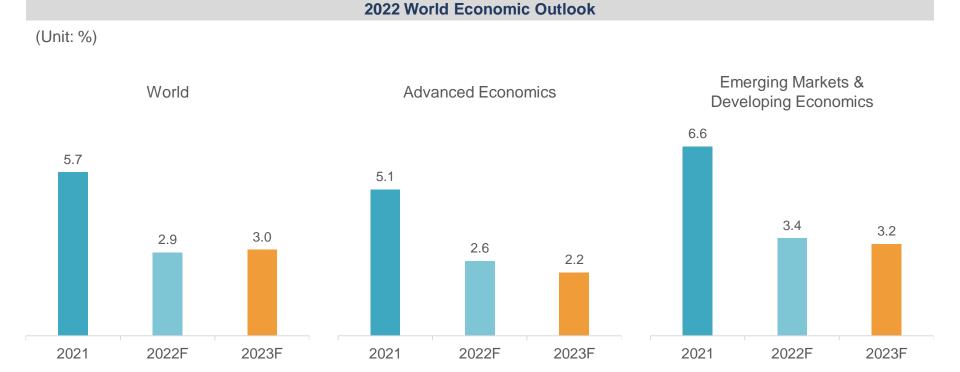




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Global GDP Growth Forecast

- After the pandemic and the war between Russia and Ukraine, global GDP is dragged form 5.7% in 2021 to 2.9% in 2022 and 3.0% in 2023.
- The risk of stagflation is rising among middle and low-income economics with higher inflation and tighter financial conditions.
- ➤ The economic downturn will hover around 2023 and 2024 and will hammer GDP growth.



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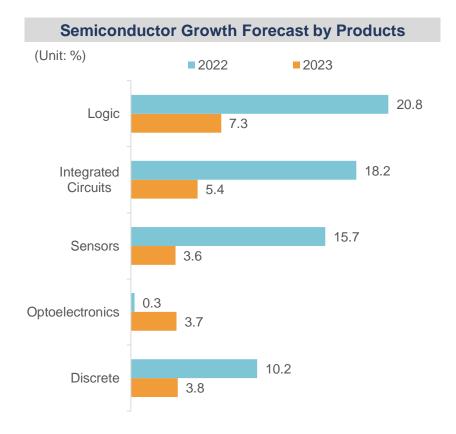
Source: World Bank, June 2022.



Worldwide Semiconductor Forecast

- ➤ In 2022, WSTS predicts the logic segment will see the highest growth at 20.8%. The firm also predicts the most 2022 growth in the Americas region at 22.6%
- > 2023 YoY growth expected to be low single digits for most categories, with the highest again in logic at 7.3% and APAC with 5.5%.



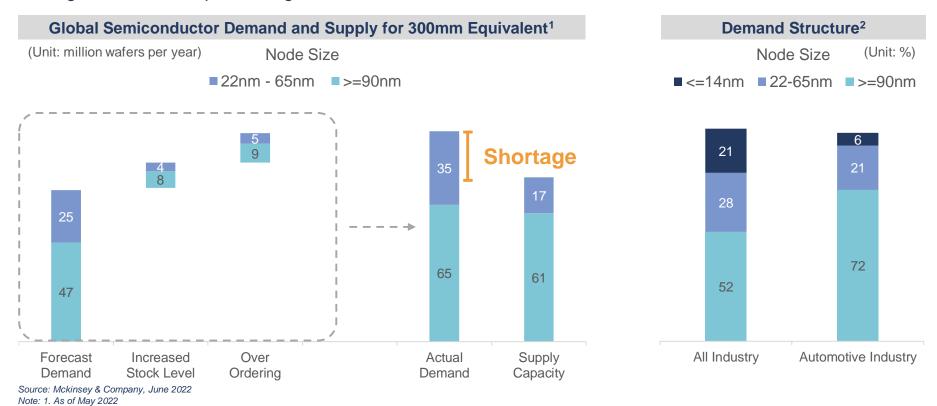


Source: WSTS, June 2022



Automotive Industry under Semiconductor Shortage

- ➤ Semiconductor shortages are likely to persist for at least 3 to 5 years in selected technology nodes. The reason for the persistent shortage is insufficient capacity, but overordering and increasing inventory level from automotive companies also exacerbate the problem.
- ➤ For nodes above 90nm, a major demand in the automotive industry, shortages appear to be in place for longer due to lower profit margins.



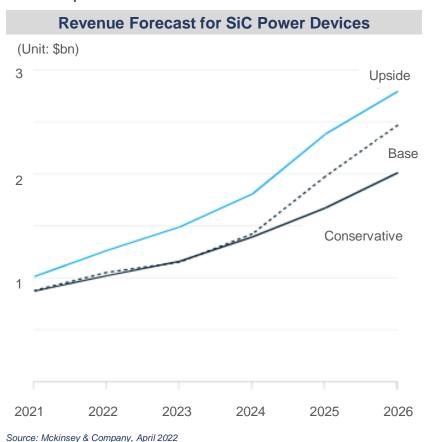
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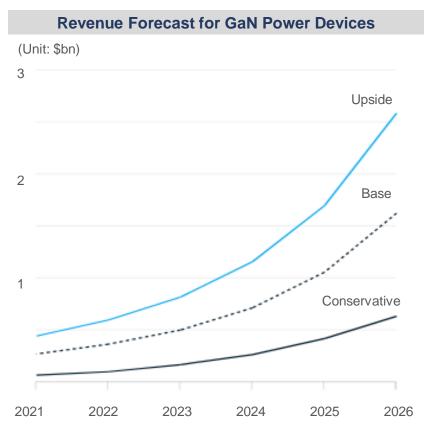
2 As of 2021



SiC & GaN Power Devices

- ➤ Instead of pursuing "more than Moore", some semiconductor companies turn their interest in SiC and GaN power devices due to their higher conversion efficiency and lower energy loss.
- ➤ In the base case, the annual market growth rate is expected to be 23% for SiC power devices and 40% for GaN power devices.















Income Statement

Income Statem	ent								
(NT\$mn)		2019	2020	2021	Q121	Q221	Q321	Q421	Q122
Revenue		58,094	55,359	61,131	14,806	15,208	15,364	15,752	16,307
Growth (%)		-1.6%	-4.7%	10.4%	4.7%	2.7%	1.0%	2.5%	3.5%
Gross Profit		22,847	20,568	23,286	5,193	5,584	6,010 ²	6,498 ²	6,948
Gross Profit N	Margin (%)	39.3%	37.2%	38.1%	35.1%	36.7%	39.1%	41.3%	42.6%
EBITDA		22,648	21,967	22,507	5,051	6,919 ¹	5,393 ³	5,144	1,802 ⁵
EBITDA Marg	in (%)	39.0%	39.7%	36.8%	34.1%	45.5%	35.1%	32.7%	11.1%
Operating Profit		17,897	15,287	17,693	3,952	4,259	4,664	4,819	5,891
Operating Pro	ofit Margin (%)	30.8%	27.6%	28.9%	26.7%	28.0%	30.4%	30.6%	36.1%
Profit before Tax		18,554	16,615	16,445	3,529	5,408 ¹	3,881 ³	3,627 ⁴	304 ⁵
Profit before	Tax Margin (%)	31.9%	30.0%	26.9%	23.8%	35.6%	25.3%	23.0%	1.9%
Net Profit		13,636	13,104	11,870	2,690	3,955	3,105	2,120	1,746 ^{5&6}
Net Profit Mai	rgin (%)	23.5%	23.7%	19.4%	18.2%	26.0%	20.2%	13.5%	10.7%
EPS (NT\$)		31.35	30.11	27.27	6.18	9.09	7.13	4.87	4.01 ^{5&6}

^{1&}amp;3. Due to Siltronic share evaluation at fair value.

^{2.} Due to higher ASP and production mix.

^{4.} Due to NT\$1.6 billion (EUR 50 million) of termination fee from Siltronic M&A.

^{5.} Due to realized loss of Siltronic shares measured at fair value through profit or loss.

^{6.} Reversing the deferred tax liability based on no dividend distribution of offshore earning.



Balance Sheet

Balance Sheet								
(NT\$mn)	2019	2020	2021	Q121	Q221	Q321	Q421	Q122
Assets								
Cash and cash equivalents	32,822	22,439	65,894	12,700 ¹	46,768 ⁴	56,919 ⁵	65,894	70,354
Account receivable	8,140	8,037	9,118	9,094	8,874	9,176	9,118	9,436
Inventories	6,849	7,208	7,295	6,772	6,974	7,036	7,295	7,496
Property, plant and equipment	34,697	37,111	33,943	35,331	34,163	33,210	33,943	34,995
Other assets	14,078	20,056	34,395	32,6842	34,723	33,407	34,395	27,525
Total assets	96,586	94,852	150,645	96,581	131,502	139,747	150,645	149,806
Liabilities								
Short-term loan	9,886	9,871	6,264	15,445 ³	10,543	6,464	6,264	6,384
Account payable	3,837	3,895	4,340	4,075	4,027	3,918	4,340	3,953
Long term loan	0	0	45,125	0	32,479 ⁴	45,045 ⁵	45,125	45,204
Other liabilities	37,789	36,930	49,284	32,314	38,955	36,909	49,284	46,978
Total liabilities	51,513	50,697	105,013	51,834	86,004	92,336	105,013	102,520
Shareholder equity	45,073	44,155	45,632	44,747	45,497	47,411	45,632	47,286

^{1.} Due to Siltronic shares acquisition and cash dividends distribution

^{2.} Due to Siltronic shares acquisition

^{3.} Due to increasing bank loan for acquiring Siltronic shares

^{4.} Due to issuance of ECB & corporate bond

^{5.} Due to issuance of corporate bond





Thank You