CWIC

Sustainable Growth through QFN Reinvention

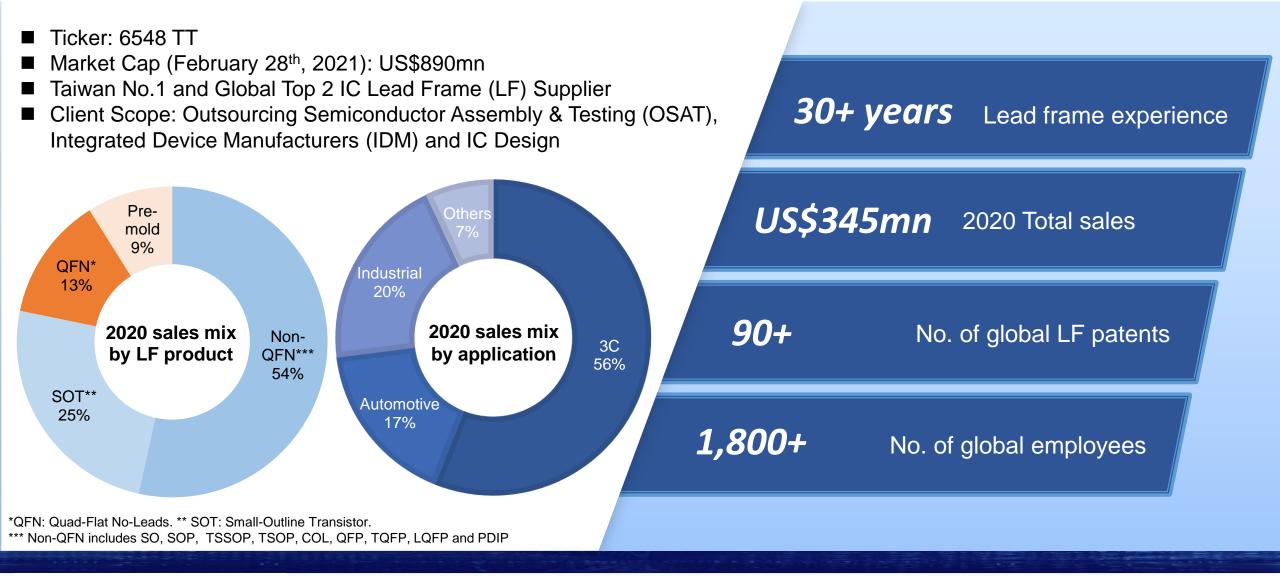
2021 Investor Presentation – IR Manager Mr. Richie Su (Tel: +886-2-8751-0696 Ext.206)

Forward-looking Statement

Information included in this press release that are not historical in nature are "forward looking statements". CWTC cautions readers that forward looking statements are based on CWTC's reasonable knowledge and current expectations and are subject to various risks and uncertainties. Actual results may differ materially from those contained in such forward looking statements for a variety of reasons including without limitation, risks associated with demand and supply change, manufacturing and supply capacity, design win, time to market, market competition, industrial cyclicality, customer's financial condition, exchange rate fluctuation, legal actions, amendments of the laws and regulations, global economy change, natural disasters, and other unexpected events which may disrupt CWTC's business and operations. Accordingly, readers should not place reliance on any forward looking statements. Except as required by law, CWTC undertakes no obligation to update any forward looking statement, whether as a result of new information, future events, or otherwise.



A Leading LF Solution Expert Covering All Applications

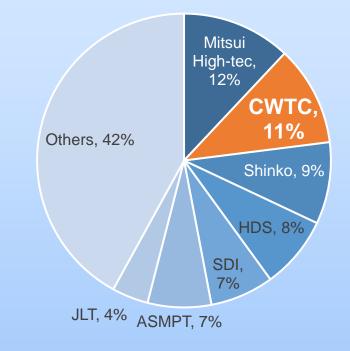




Target World's No.1 LF Supplier in Five Years

- Through QFN reinvention, CWTC will efficiently expand its capacity to pursue sustainable growth. With estimated 5-year sales CAGR 20%, CWTC targets to become the world's largest IC LF supplier with 30% market share by 2025.
- After acquiring LF business from Sumitomo Metal Mining (5713 JP) in 2018, CWTC is the world's top 2 IC LF supplier with 11% market share. Through its plants in Taiwan, Japan, China and Malaysia, CWTC owns industry-leading manufacturing capabilities of stamping, etching and electroplating.

2020E Global LF market shares*



*Source: Company data. Stock tickers: Mitsui High-tec: 6966 JP, Shinko: 6967 JP, HDS: 195870 KS, SDI: 2351 TT, ASMPT: 522HK, JLT: 5285 TT





QFN Reinvention

Sustainable Growth

Our Commitments to Shareholders

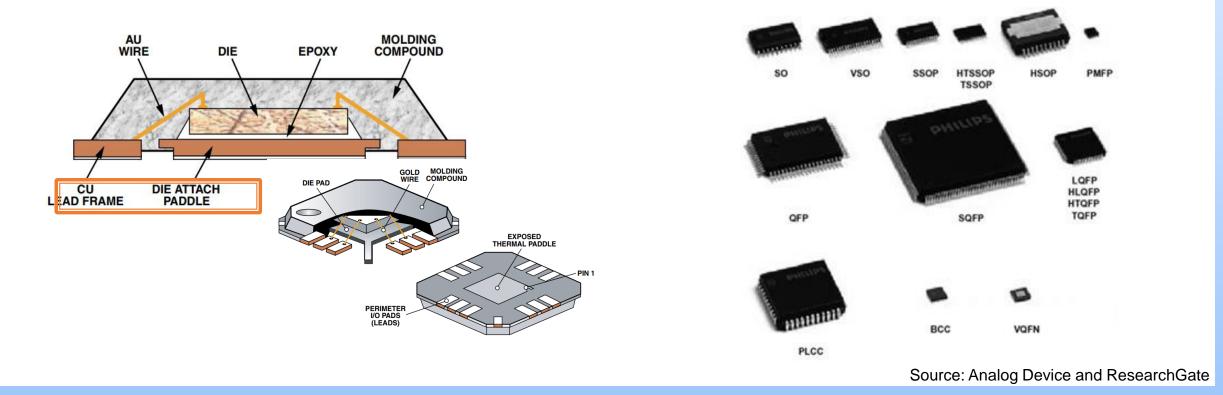
Financial Performance

QFN Reinvention



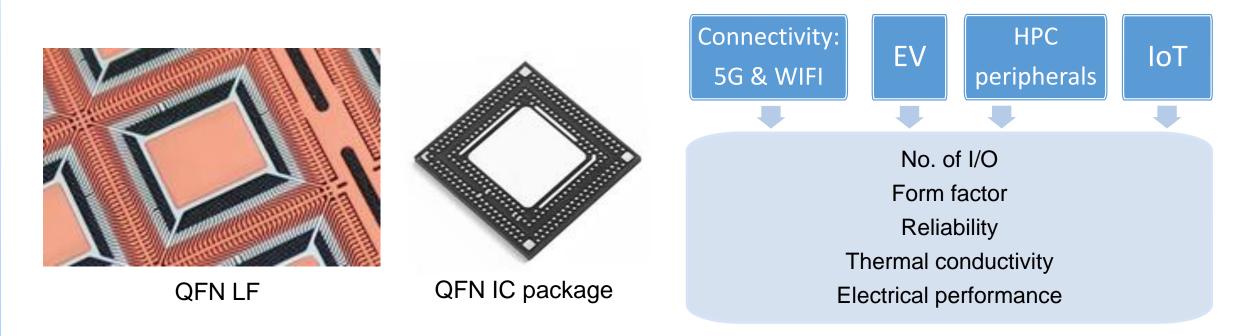
What is LF?

- LF is the **metal substrate** inside a chip package that carry signals from the die to the outside.
- LF is the interface between die and PCB, communicating signal input/output (I/O).
- By removing material from a flat plate of copper, LF are manufactured by two major processes: etching (for high I/O density with small footprint) or stamping (for less variety orders).
- There are more than dozens types of LF-based IC packages, each characteristic varying based on user requirements.



What is **QFN**?

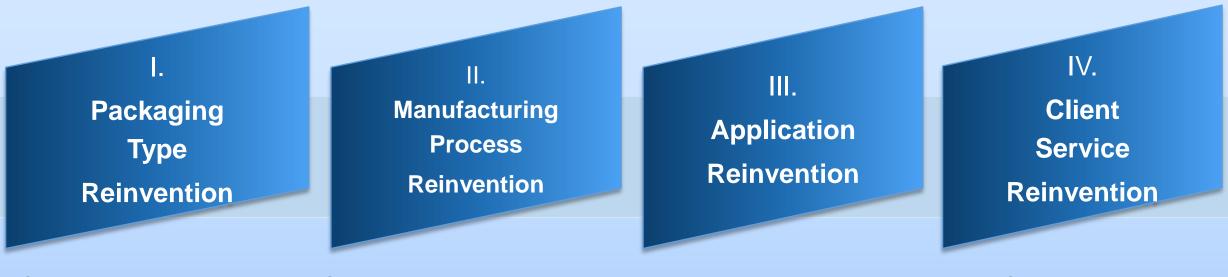
- As one type of LF-based packaging, QFN is a small sized "near chip scale" plastic encapsulated IC package.
- QFN is an ideal package for IC applications where no. of I/O, size, weight, thermal and electrical performance are important.



Source: CWTC and ASE



We Reinvented QFN to Drive Our Future Growth



QFN would be the top 1 IC packaging type in terms of no. of IC Self-developed technologies leads to our highest efficiency in LF industry The most competitive full-QFN solutions for multiple applications TW, CN and MY fabs to serve world's tier-one IC design, OSAT and IDM



I. Packaging Form Reinvention

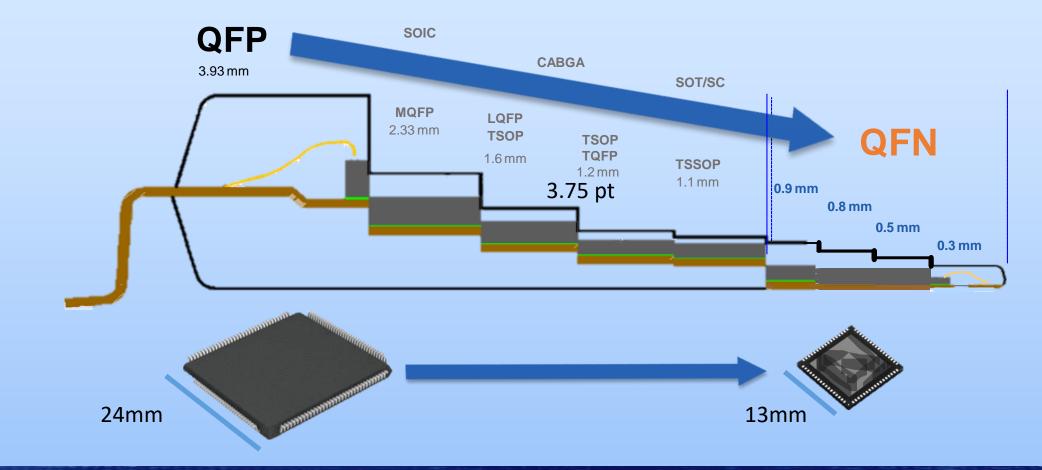
"QFN was invented in 1998. Now CWTC have reinvented QFN and expect it to dominate IC LF packaging since 2021."

- Canon Huang, CWTC Chairman



QFN is the Answer for All IC LF Packaging

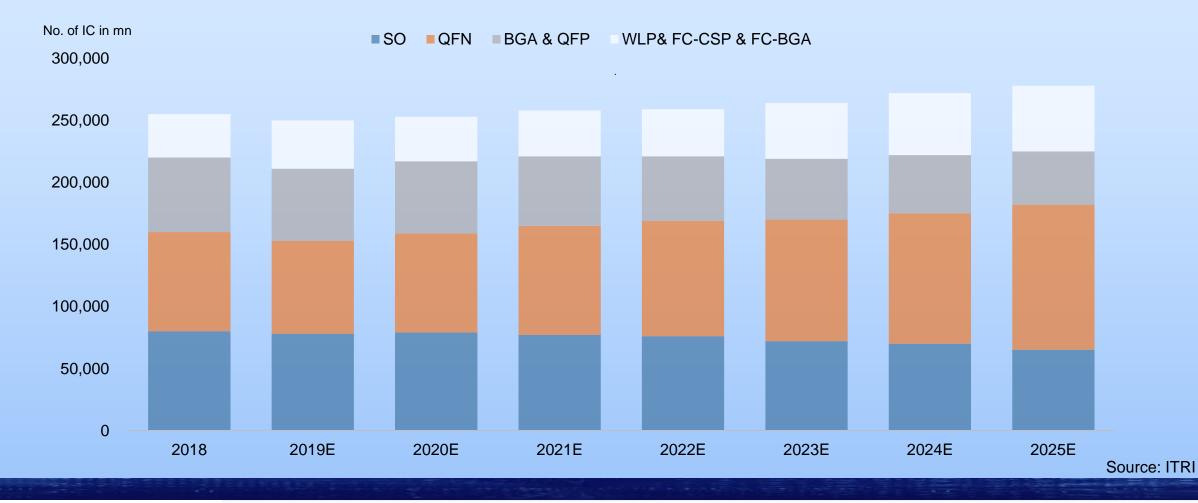
QFN is the best IC LF platform for higher I/O, smaller form factor, better thermal conductivity and faster electrical signal transmission.





The Number of QFN-Packaging IC is Increasing

Same with industry trend, we've seen more global tier-one customers adopting QFN as their preferred IC packaging type, replacing SO, BGA and QFP.





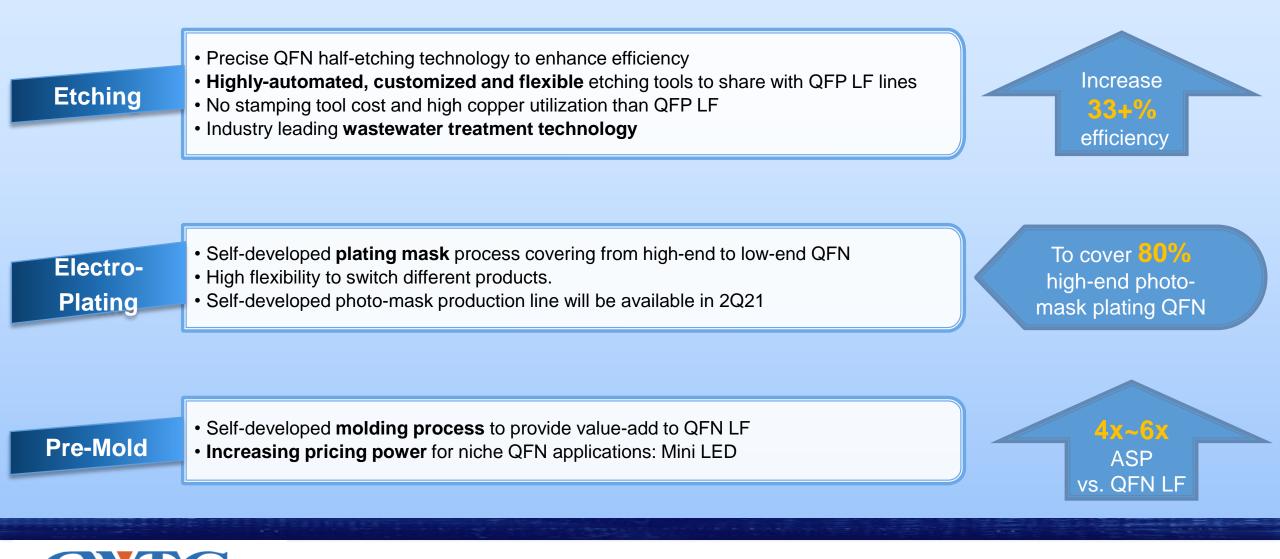
II. Manufacturing Process Reinvention

"By reinvent QFN manufacturing, we define industrial specification to meet clients demand in the most efficient manner."

- Canon Huang, CWTC Chairman



We Plan to Dominate QFN with Manufacturing Advantages



III. Application Reinvention

"We're ready to meet strong demand from 5G, EV, HPC/IoT and Mini LED. Our Full QFN product portfolio cover 80% of IC I/O requirement."

- Canon Huang, CWTC Chairman



We Reinvent QFN for Various Applications



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High-Performance PC (AI) Peripherals

Target:e





Full QFN Solutions Covering More than 80% of IC Applications



IV. Client Service Reinvention

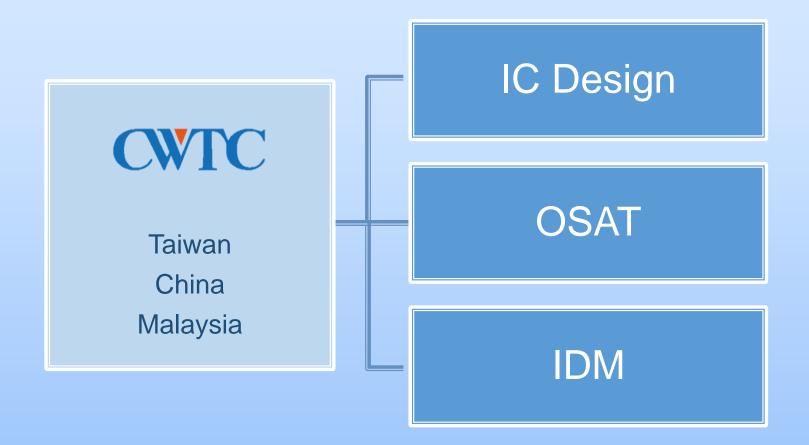
"Our Taiwan, China and Malaysia factories provide real-time services for global tier-one IC design, OSAT and IDM customers."

- Canon Huang, CWTC Chairman



We Have the Most Extensive Client Coverage

Our Asia factories are at the hub of global semiconductor supply chain. We provide industry-leading IC LF to serve more than 50 global tier-one clients.





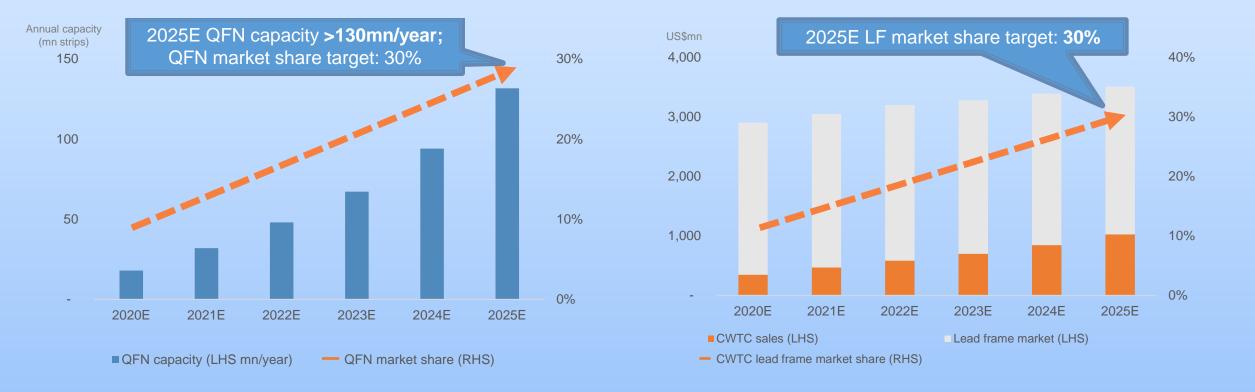
Sustainable Growth



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Our Capacity Expansion Leads to Market Share Gain

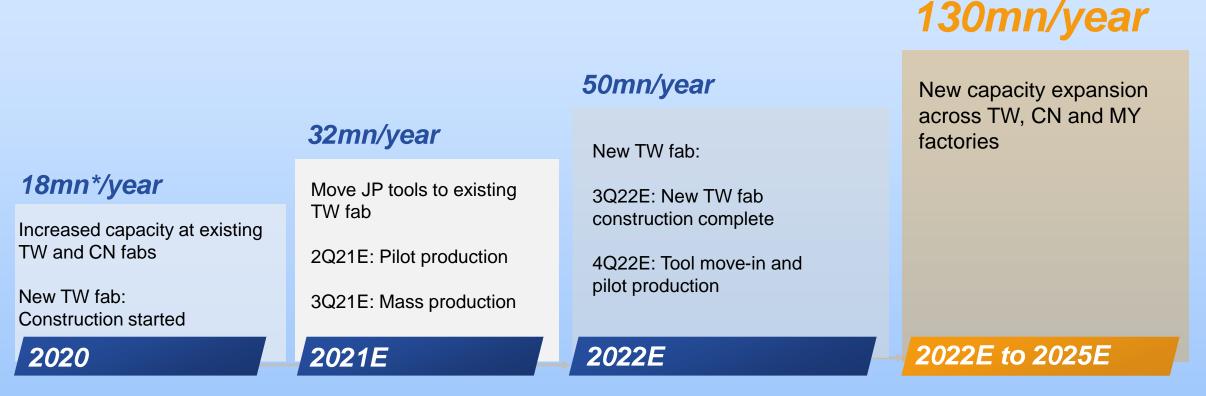
QFN capacity: we plan to expand QFN capacity from 18mn units/year, 2020, to more than 130mn units/year, 2025.
Increasing market share: we target to increase CWTC's QFN market share from 10% in 2020 to 30% in 2025 while our LF market share would increase from 11% to 30%.





Capacity Expansion Milestone

To meet robust demand from 5G, AI, EV and IoT applications, we plan to ramp up QFN capacity from 18mn/year, 2020, to 50mn/year, 2022. By 2025, we plan to further expand QFN capacity to 130mn/year.

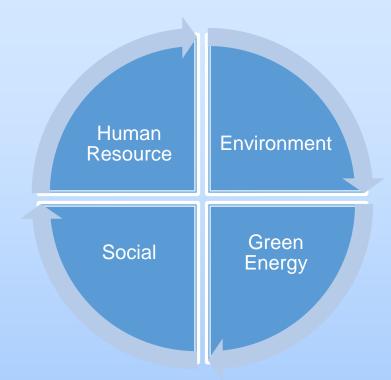


*Annual capacity in units

We Pursuit Our Sustainable Growth in an Eco-friendly Approach

Environment: Increasing recycled water usage from 13.6% in 2019 to 16% in 2021E.

- Green Energy: 4% electricity of new factory will come from solar energy vs. existing factory only 0.3%.
- Social: We committed to complying with the Responsible Business Alliance (RBA) and the Global e-Sustainability Initiative (GeSI), including the Responsible Minerals Initiative (RMI).
- Human Resource: Our new fab would create more than 150 of job opportunity. We implement ESH standard across our Asia factories.





Our Commitments to Shareholders



We Aim to Produce the Highest Return in the IC Manufacturing Industry

Through efficient investment in capex and QFN reinvention, we expect to outgrow the semiconductor manufacturing industry and deliver an ROE in excess of 20% from 2021E to 2025E.

2020E-2025E	Capex-to-Sales ratio	Capex Efficiency*		Sales CAGR	GP CAGR	FCF CAGR			
СМТС	Mid-to-High single digit%	2~3x	Capex Efficiency and QFN reinvention	Above Industry Average					
Foundry	36%	0.4x		14%	14%	12%			
OSAT	11%	1.0x		7%	8%	24%			

* Capex efficiency: Additional sales in year N+1 / capex in year N

Source: Bloomberg and Gartner. Foundry including TSMC, UMC, VIS while OSAT includes ASE, Powertech, KYEC, Chipbond, ChipMOS and Greatek



Financial Performance



Robust Financial Performance









2015-2020 Income Statement

NT\$mn	2015 201	2016	6 2017	2018	2019	2020	4Q20 -	YoY (%)					
N I ŞIMIN		2016						2016	2017	2018	2019	2020	4Q20
Revenue	378	1,668	7,505	9,785	9,320	9,678	2,685	340.8	350.0	30.4	-4.7	3.8	9.9
Gross Profit	117	219	1,444	1,802	1,581	1,805	556	87.7	559.6	24.8	-12.3	14.2	24.1
Operating Expenses	- 54	- 122	- 607	- 708	- 748	- 845	- 250	124.5	397.9	16.5	5.7	12.9	10.3
Operating Profit	62	97	837	1,094	833	960	306	55.6	763.1	30.7	-23.9	15.3	38.3
Pretax Income	76	232	1,071	1,206	899	966	275	204.9	362.6	12.6	-25.4	7.5	25.5
Tax Expenses	- 17	- 24	- 251	- 354	- 280	- 176	- 100	36.4	955.8	40.9	-20.8	-37.3	68.3
Net Income to Parent	59	45	431	843	607	774	170	-23.1	858.0	95.5	-27.9	27.4	9.5
Basic EPS (NT\$)	2.66	1.97	14.62	23.60	1.72	2.19	0.48	-25.9	642.1	61.4	-92.7	27.3	9.1
Key Financial Ratios (%)													
Gross Margin	30.8	13.1	19.2	18.4	17.0	18.6	20.7						
Operating Expense Ratio	14.4	7.3	8.1	7.2	8.0	8.7	9.3						
Operating Margin	16.5	5.8	11.1	11.2	8.9	9.9	11.4						
Effect Tax Rate	23.0	10.3	23.4	29.3	31.2	18.2	36.3						
Net Margin	15.5	2.7	5.7	8.6	6.5	8.0	6.3		and a state of the				

*Since Sep. 9^{th,} 2019, CWTC changed the par value of stock from NT\$10 to NT\$1. The new EPS is one-tenth of the original one.

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2015-2020 Balance Sheet

	2015	2016	2017	2018	2019	2020	YoY (%)				
NT\$mn	2015						2016	2017	2018	2019	2020
Total Assets	809	2,333	9,100	9,788	10,544	12,164	188.2	290.1	7.6	7.7	15.4
Cash	246	618	2,131	2,304	3,076	2,502	151.4	244.7	8.1	33.5	-18.7
AR & NR	135	523	1,825	1,927	2,003	2,114	288.2	248.6	5.6	4.0	5.5
Inventories	56	81	1,267	1,437	1,296	1,437	45.6	1456.6	13.4	-9.8	10.9
Fixed Assets	308	324	2,318	2,441	2,210	2,252	5.1	615.4	5.3	-9.5	1.9
Total Liabilities	124	299	3,970	4,617	5,558	6,738	141.0	1229.0	16.3	20.4	21.2
AP & NP	34	180	957	1,019	1,148	1,105	423.6	430.7	6.5	12.6	-3.8
Total Equity	685	2,034	5,130	5,171	4,986	5,426	196.8	152.2	0.8	-3.6	8.8
Key Financial Ratios											
A/R Turnover Days	97.9	71.0	56.3	69.0	75.9	76.6					
Inventory Turnover Days	65.8	17.1	40.0	61.0	63.5	62.5					
A/P Turnover Days	43.0	26.7	33.8	44.6	50.4	51.5					
Cash Conversion Days	120.7	61.4	62.6	85.4	89.0	87.5					
ROE (%)	8.6	3.3	12.0	16.4	12.0	14.9					
ROA (%)	7.3	2.9	7.5	8.9	6.0	6.8					

CWIC

Glossary

- SO/SOP: Small Outline and Small Outline Package
- TSSOP: Thin Shrink Small Outline Package
- TSOP: Thin Small Outline Package
- COL: Chip-n-Lead
- QFP: Quad Flat Package
- SQFP: Small Quad Flat Package
- TQFP: Thin profile Quad Flat Package
- LQFP: Low profile Quad Flat Package
- PDIP: Plastic Dual In-line Package
- PLCC: Plastic Leaded Chip Carrier
- VSO: Very Small Outline Package
- PMFP: Plastic Micro Flat Package
- BCC: Bump Chip Carrier
- QFN: Quad Flat No-lead
- DRQFN: Dual Row Quad Flat No-Lead Package
- aQFN: advanced Quad Flat No-lead
- VQFN: Very Thin Quad Flat No-lead Package

