

SIWARD GROUP

# **Siward Investor Conference**

**SIWARD Company Presentation** 

Oct. 25th 2018



PATIENCE CONFIDENCE CONCENTRIC



Topic

**Speaker** 

Welcome

JM Tseng

**Agenda** 

**Company Presentation** 

(Video)

16:00~16:50

**Financial Report** 

**Catherine Yu** 

**knowing Siward** ... products, capacity, sales trend

**Catherine Yu** 

**Business Summary** 

JM Tseng

Q&A



# • Financial Report Financial performance, Dividends policy

# **Balance Sheet**



Unit: NTD'000	H1 2018	2017	H1 2017
Current Assets	2,032,576	2,038,909	2,206,644
Total Assets	4,193,188	4,118,538	4,226,429
Current Liabilities	740,525	637,400	866,836
Total Liabilities	1,267,134	1,200,535	1,427,611
Total Equity	2,926,054	2,918,003	2,798,818
Debt ratio(%)	30%	29%	34%
Current ratio(%)	274%	320%	255%
Quick ratio(%)	201%	243%	196%
Book Value Per Share (NTD)	18.35	18.30	17.56



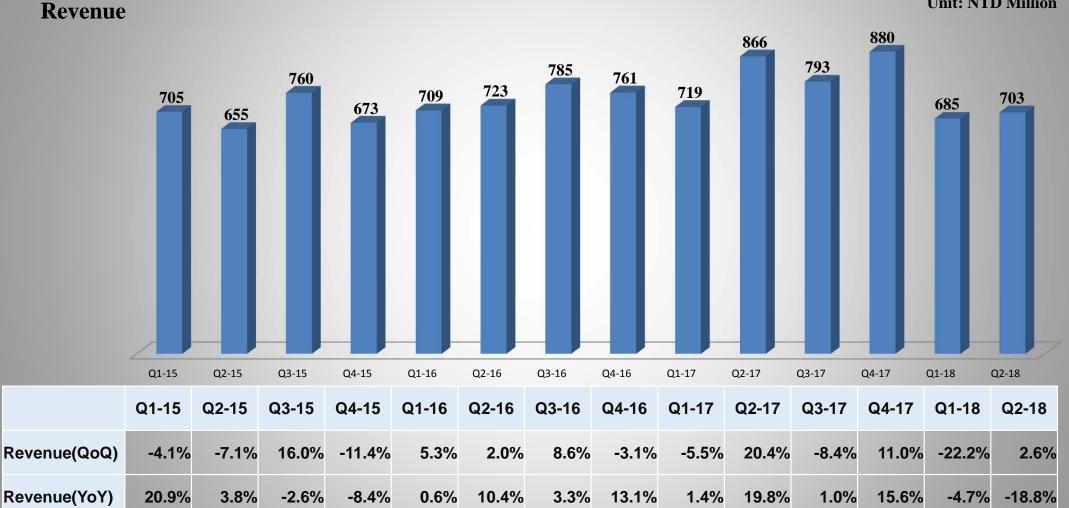
# **Statement of Comprehensive Income**

Unit: NTD'000	2017	2016	Growth(%)	H1 2018	H1 2017	Growth(%)
Revenue	3,258,695	2,977,585	9.4%	1,388,166	1,585,074	-12.4%
Gross Profit	544,507	604,990	-10.0%	266,735	258,317	3.3%
Operating Profit	202,783	268,249	-24.4%	95,637	98,993	-3.4%
Income before tax	206,383	288,954	-28.6%	149,837	90,275	66.0%
Net Income	171,685	241,034	-28.8%	128,801	76,435	68.5%
Gross Margin(%)	16.7%	20.3%	-17.8%	19.2%	16.3%	17.9%
Operating Margin(%)	6.2%	9.0%	-30.9%	6.9%	6.2%	10.3%
Net Margin(%)	5.3%	8.1%	-34.9%	9.3%	4.8%	92.4%
ROE(%)	5.9%	8.2%	-28.7%	4.4%	2.5%	76.4%
EPS(NTD)	1.05	1.48	-29.1%	0.81	0.46	76.1%

# Quarterly performance-Revenue



**Unit: NTD Million** 

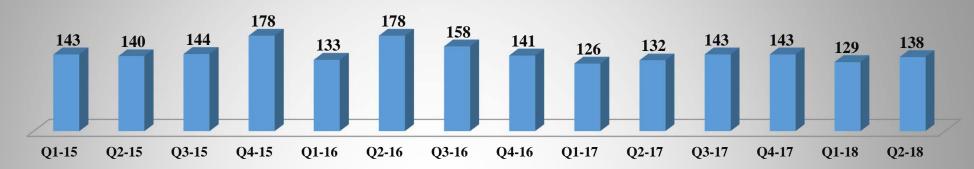


# **Quarterly Performance-Gross Profit**



#### **Gross Profit**





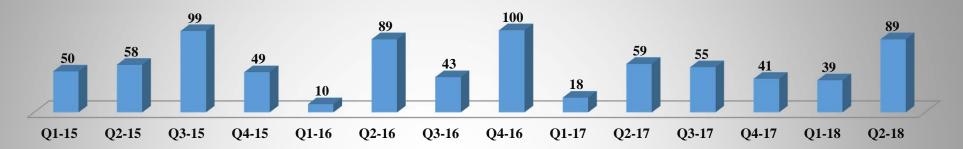
#### **Gross Profit Rate**

	26.4% 24.7%								5%	15.2%			16.3% 19.6%	
	20.3%		18.9%		18.8%		20.2%		17.6%		18.0%		18.8%	
	Q1-15	Q2-15	Q3-15	Q4-15	Q1-16	Q2-16	Q3-16	Q4-16	Q1-17	Q2-17	Q3-17	Q4-17	Q1-18	Q2-18
	Q1-15	Q2-15	Q3-15	Q4-15	Q1-16	Q2-16	Q3-16	Q4-16	Q1-17	Q2-17	Q3-17	Q4-17	Q1-18	Q2-18
Gross Profit(QoQ)	-5.9%	-2.1%	2.9%	23.6%	-25.3%	33.8%	-11.2%	-10.8%	-10.6%	4.8%	8.3%	0.0%	-9.8%	7.0%
Gross Profit(YoY)	26.5%	-2.8%	-12.2%	17.1%	-7.0%	27.1%	9.7%	-20.8%	-5.3%	-25.8%	-9.5%	1.4%	2.4%	4.5%

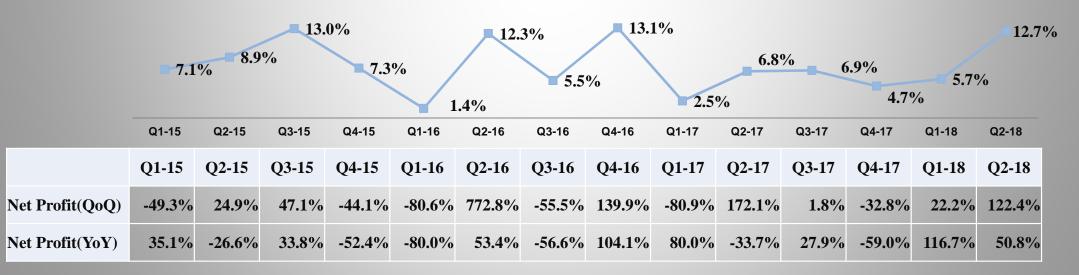
# **Quarterly Performance-Net Profit**



Net Profit
Unit: NTD Million



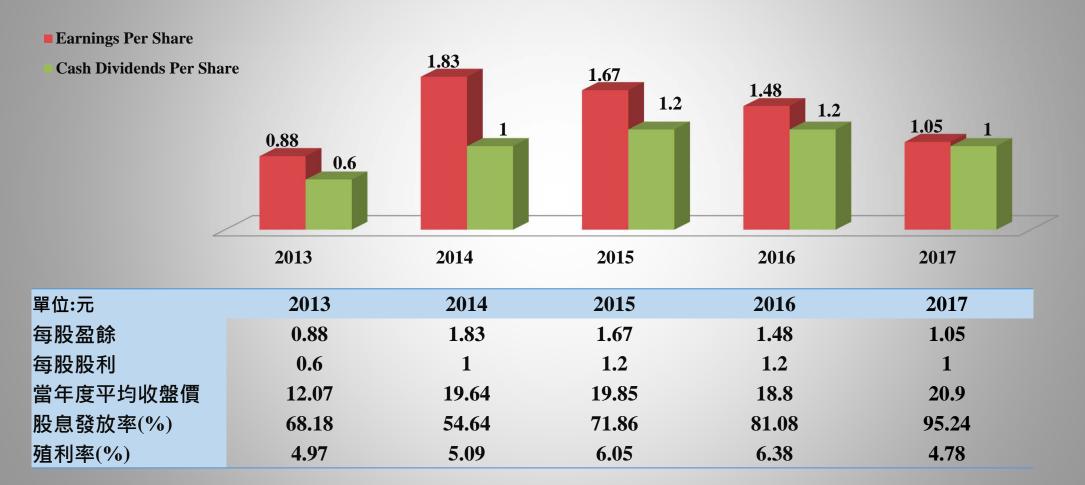
#### **Net Profit Rate**



# **Dividend Policy**



#### **EPS and DPS**





# Investor Conference

knowing Siward ...products, capacity, sales trend

#### Who We Are



#### Innovative Timing solutions for things that connect the world



#### **Our Products**





#### Synthetic Quartz



Tuning Fork wafer

3" MEMS Wafer Processing



#### Crystal 石英晶振





Ceramic seam



Glass Weld



Tuning Fork



#### Oscillator 振盪器





TCXO



Voltage-controlled oscillator (VCXO)



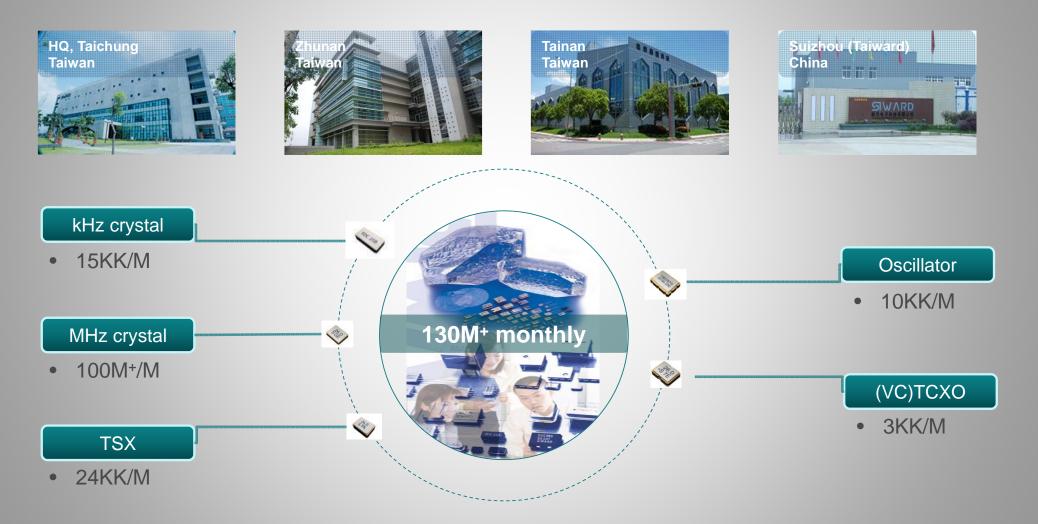
(VC)TCXO



# Manufacturing sites



13



# Manufacturing sites



#### HQ, Taichung Taiwan



#### Manufacturing:

- RD Center
- Manufacture
- Sales Office

Crystal



Tuning Fork Xtal



OSC



• (VC)TCXO

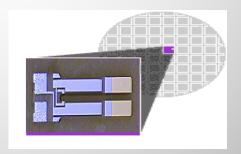


#### Zhunan Taiwan

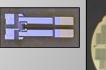


#### Manufacturing:

MEMS wafer



#### 3" MEMS Wafer Processing





# Manufacturing sites



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#### Tainan Taiwan



#### Manufacturing:

Synthetic Quartz Bar





### Suizhou (Taiward) China



#### Manufacturing:

Crystal



Tuning Fork Xtal







# **World Ranking**

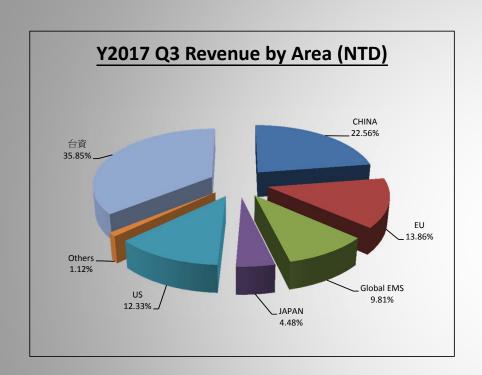


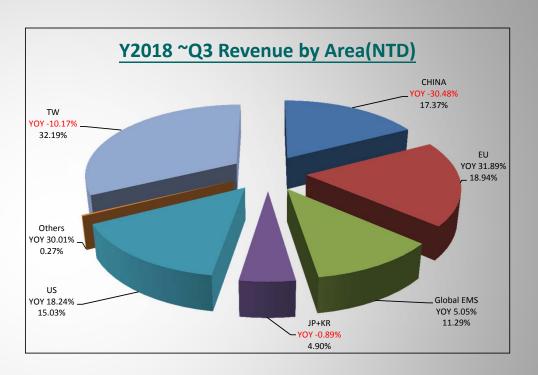
World ranking # 7 , Taiwan ranking # 2 .

2016 2017 Rank Rank	2017			Revenue(M)	Market Share(%)		
	Company Name	2016	2017	Percent Change	2016	2017	
1	1	Seiko Epson	\$409	\$382	-6.6%	12.9%	11.7%
2	2	NDK	\$357	\$354	-0.8%	11.3%	10.8%
4	3	KCD	\$287	\$344	20.0%	9.1%	10.5%
3	4	TXC	\$310	\$294	-5.2%	9.8%	9.0%
5	5	KDS	\$212	\$205	-3.2%	6.7%	6.3%
7	6	Microsemi	\$80	\$168	110.0%	2.5%	5.1%
6	7	SIWARD	\$103	\$104	1.5%	3.2%	3.2%
10	8	MegaChips	\$73	\$103	41.1%	2.3%	3.1%
9	9	Hosonic	\$95	\$98	3.0%	3.0%	3.0%
8	10	Harmony	\$94	\$98	4.0%	3.0%	3.0%
		Other companies	\$1,146	\$1,120	-2.2%	36.2%	2.1%
		Total Revenue	\$3,165	\$3,271	3.3%		
							(OO 8 A)
							(CS&A)

### Revenue by Area



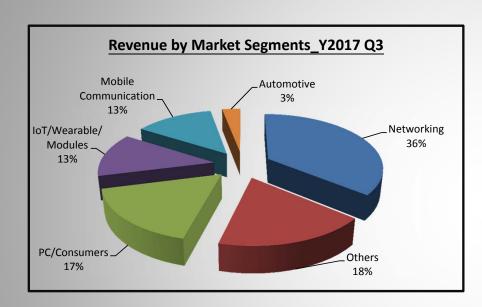


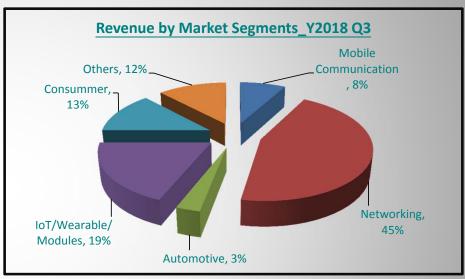


- 1. Y2018 Q3 BP 17.99 billion, the reach rate is 91.08% •
- 2. Europe, North America, and Global EMS grew but Japan+Korea, Taiwan and Mainland China were in decline

# **Revenue by Market Segments**



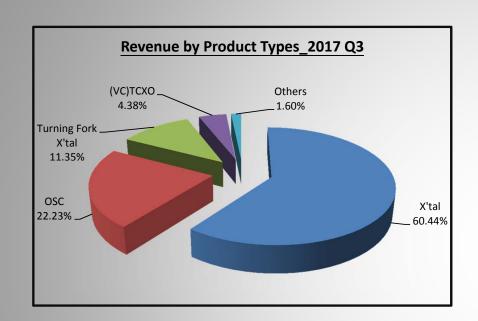


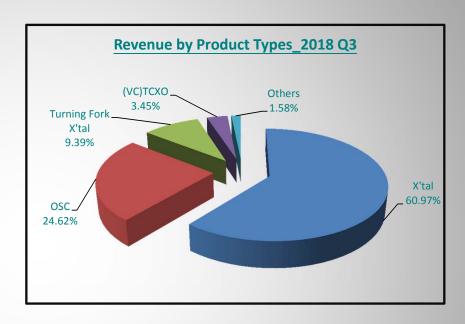


- Focus on networking industry(mobile \ broad-band cable \ wireless router \ gateway \ STB..etc) continue to growth \( \)
- IoT/wearable device/modules application drives for miniature products demands

### **Revenue by Product Types**







- Crystal are the major products , maintained at 57% of the revenue .
- Expect growth of TCXO products in Q4 2017 and 2018
- High stability TCXO \ HF XO development and mass production in Q4 2017 \( \cdot \)

### **Development of product lines**



The development of Siward's technology: The quartz crystal is oriented toward miniaturization. At present, the smallest crystal is mass-produced at 1.2x1.0mm. The wafer fabrication is toward the MEMS photolithography process to produce miniaturized wafers.

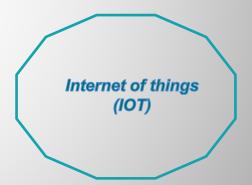
Miniature and low profile 1.2x1.0x0.3mm Crystals



#### Market



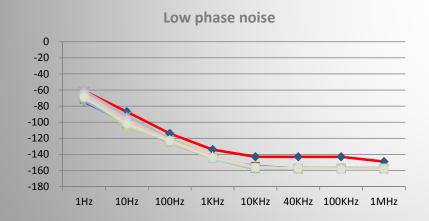




# **Development of product lines**



- The oscillator parts:
- ((1) Development of high frequency (100MHz~250MHz), low phase noise, and low jitter XO/VCXO development towards the baseband chip fabricated using MESA technology.
- (2) Development of a temperature-compensated oscillator (TCXO) for professional satellite positioning systems and automotive applications.







# Business Summary

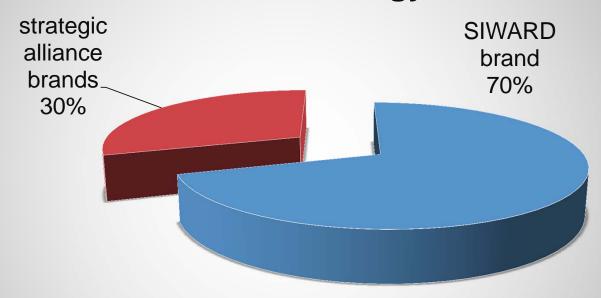
**Investment & Alliance** 

### **Investment & Alliance Strategy**



**Brand Strategy** 

### **Brand Strategy**









### **Investment & Alliance Strategy**

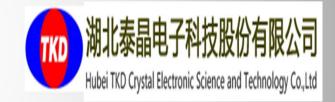


Alliance Strategy

The combination of Rakon's technology and Siward's manufacturing will enable the capability of producing middle & high end products •







The alliance of SIWARD and the China largest Tunning Fork manufacturer enhanced the competitiveness of Siward to provide cost sensitive products to the market •

### **Investment & Alliance Strategy**

SIWARD

5G applications

5G applications are based on base stations, user terminals, and various networking devices (such as the Internet of Things for Vehicles, etc.). In collaboration with Rakon, Siward will develop quartz components (crystals, oscillators, TCXO... etc.) for base station network-related applications.

#### SPACE & DEFENCE

#### **TELECOMMUNICATIONS**

#### **GLOBAL POSITIONING**







# Developing



# IVD(in vitro diagnostic) products

#### **Patent**

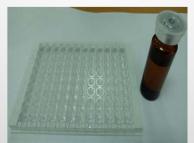
Five patents have owned about inorganic nanoparticles/ biosensor chip/ sensing device ...

#### Developing

Gold Nanoparticle Produce Line Farm animal Screening Assay and Self-management Alzheimer's Disease Diagnosis Based on Blood

#### **Product List**







A. Molecular Adsorbing Superformer (MAS™) B. Highly sensitive ELISA signal Enhanced reagent C. High throughput screening LSPR Kit



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# **Thank You**

for your attention!

