

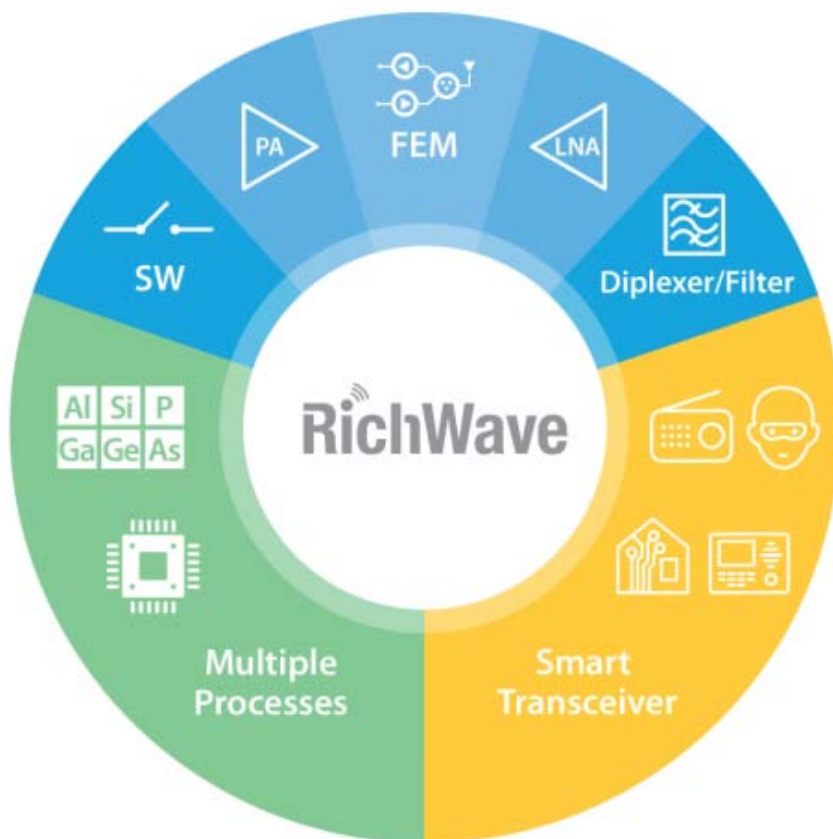


# **RichWave Technology Corp. 2017 Q2 Investor Conference**

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Aug. 4, 2017

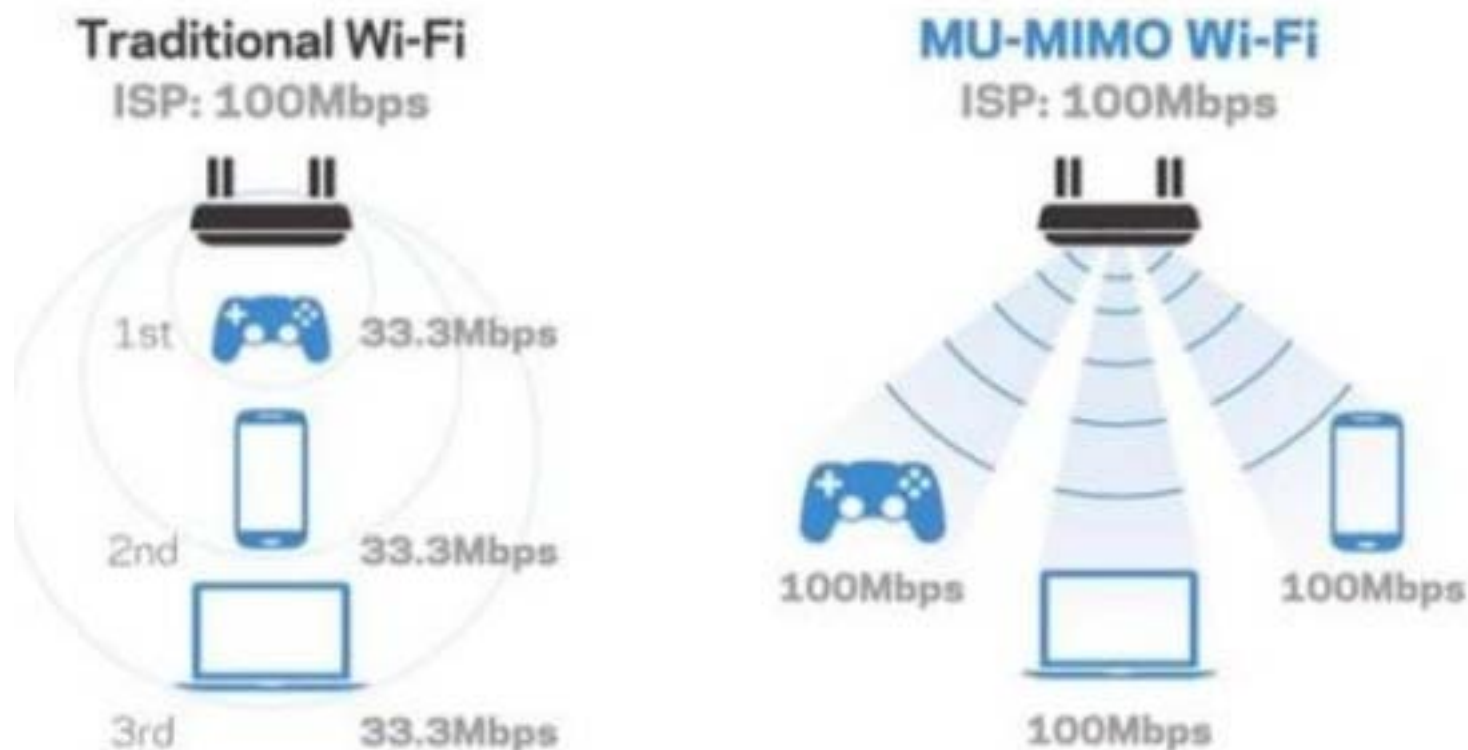
# Continue Innovation and Brand Recognition



- 2008 Q3 **FOXCONN**
- 2011 Q3 **BROADCOM**
- 2012 Q1 **MARVELL**
- Q2 **LG Innotek** **SAMSUNG**
- 2014 Q4 **amazon.com** **HUMAX**  
**verizon**
- 2015 Q4 **muRata**

# MU-MIMO – Better User Experience

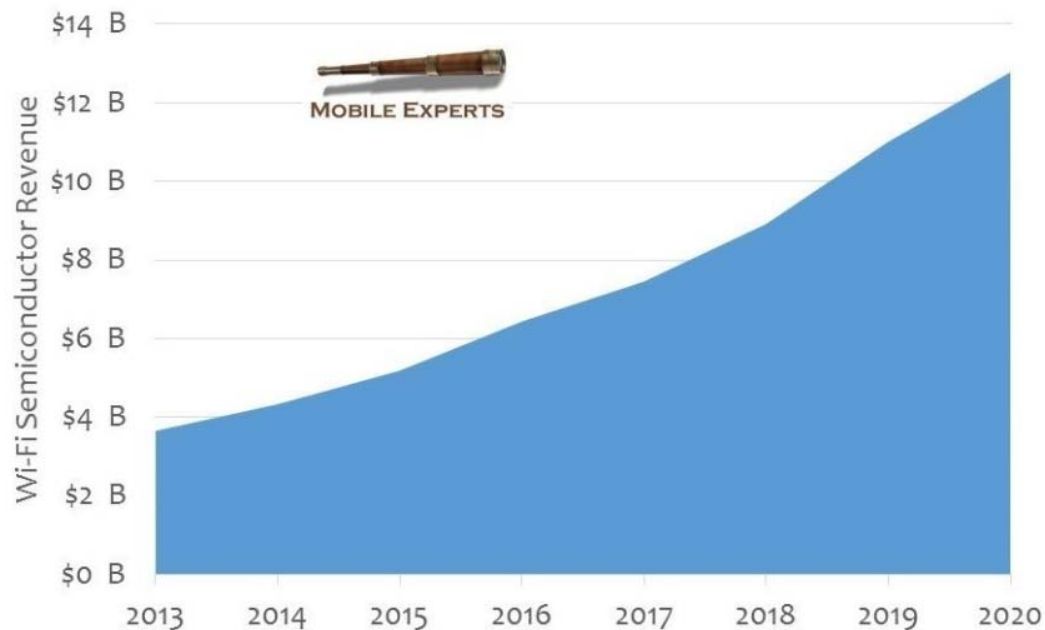
802.11n-----→802.11ac wave1-----→802.11ac wave 2-----→802.11ax



**RF Components Demand Increasing!**

# A Big Room to Growth in WiFi

- WiFi devices 2Bn sets, around 1.4Bn in smart phone, others are in Carrier Gateways Retail Access Point (AP) Routers, and Consumer/Embedded client devices.
- More than 77% of mobile traffic moves over WiFi, the massive growth driven by MIMO, wider channels and higher order modulation. Demanding PA/FEM linearity specifications especially at high power domain.

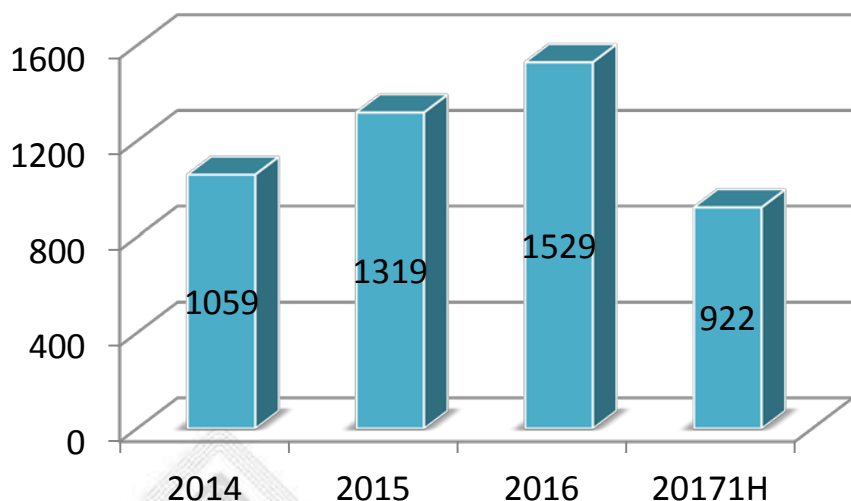


Source: 2017/2, Mobile Experts, including WiFi Mainchip SOC

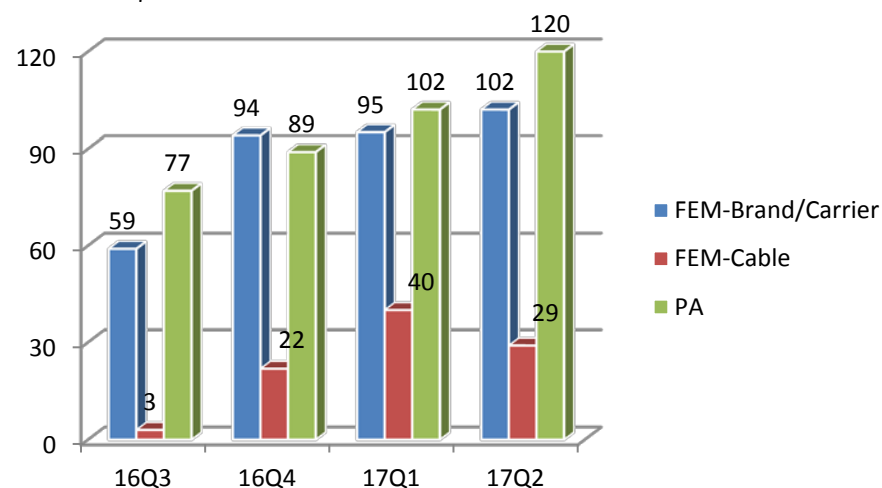
# Continue to Have Solid Growth in WiFi

- 2017Q2 PA QoQ growth 17% with 802.11ac Retail Router, YoY 66%.
- 2017Q2 FEM QoQ growth flat:
  - in Cable: QoQ decreases 17% due to customer DOCSIS generation-change, YoY growth 100%, to recover in Q3 & Q4
  - in Carrier/Retail: QoQ growth 7%, YoY growth 37%, to continue to grow in Q3 & Q4
- 2017Q2 WiFi Overall QoQ growth 11%, YoY growth 32% .
- Driven by 11ac worldwide share, MIMO 2x2 and 3x3, and better coverage.

Unit: NT\$ Million

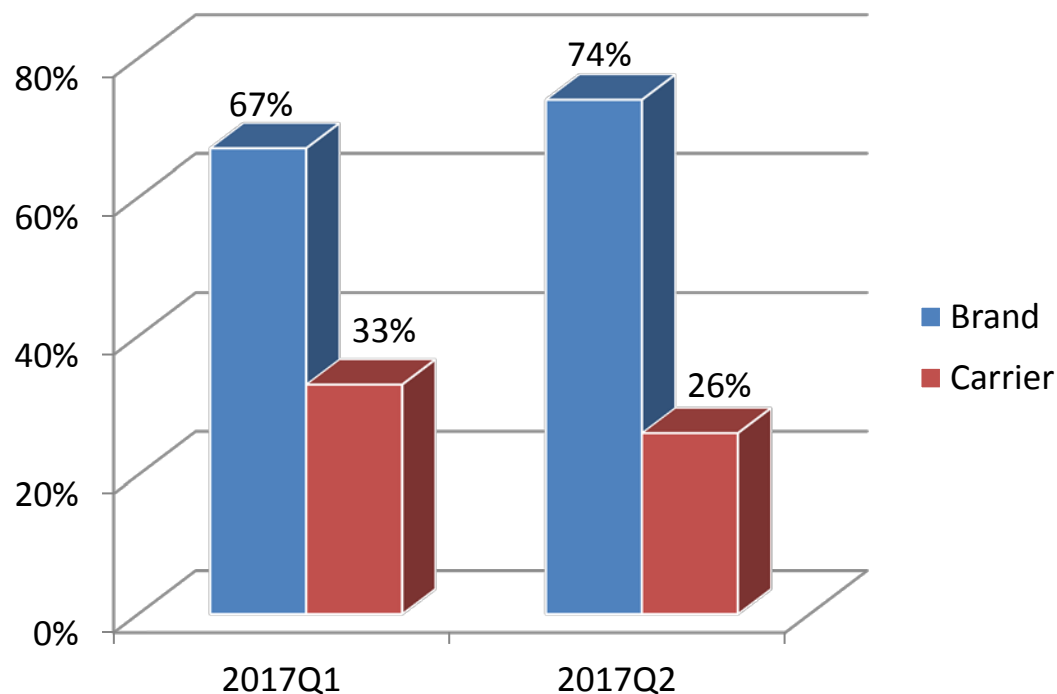


Unit: NT\$ Million



# Establishing Our Position in Brands

- 2017 Q2 revenue growth mainly from Brand.
- Continue to enhance RichWave position in big Brands, expect to have more significant contribution in 2018.



# WiFi FEM for Mobile Will Take Off

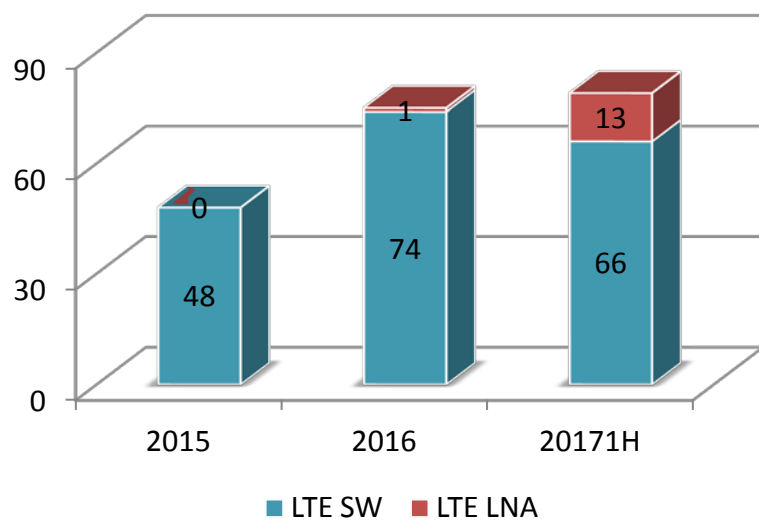
- 11ac 2-in-1 FEM already adopted by global major mobile brands.
- 11ac 3-in-1 FEM will start to be adopted by global major mobile brands and contribute to revenue in 2018.



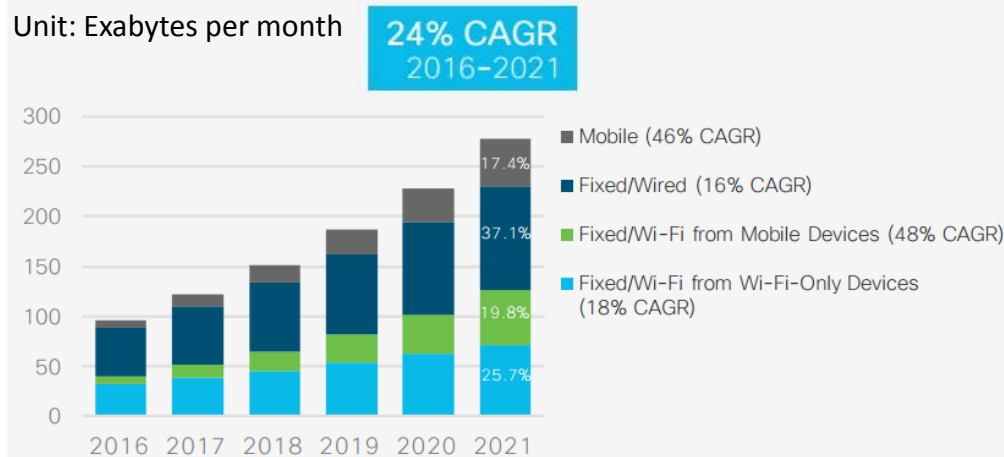
# Win on Brand Customers in LTE

- 2017 1H LTE SW/LNA overall revenue exceed 2016 entire year.
- LTE SW/LNA growth mainly come from China top brand.
- Continue penetrating into global brands in 2017 2H.

Unit: NT\$ Million



Unit: Exabytes per month



Source: Cisco VNI, 2017

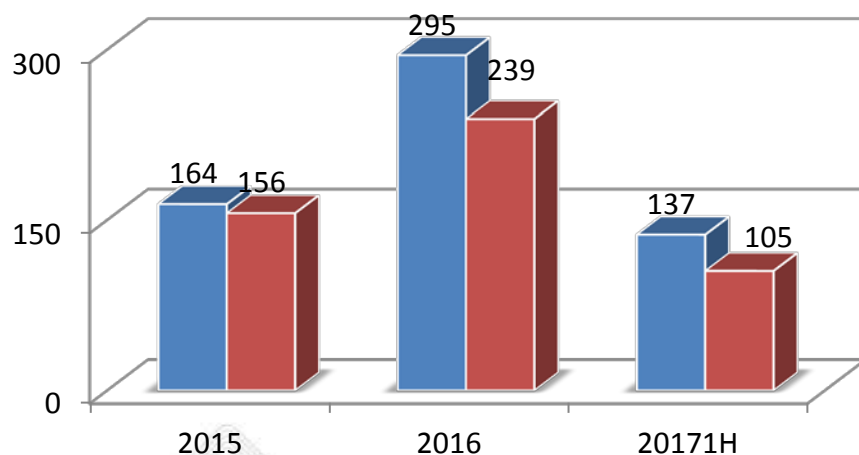


# Broadcasting and Wireless Video

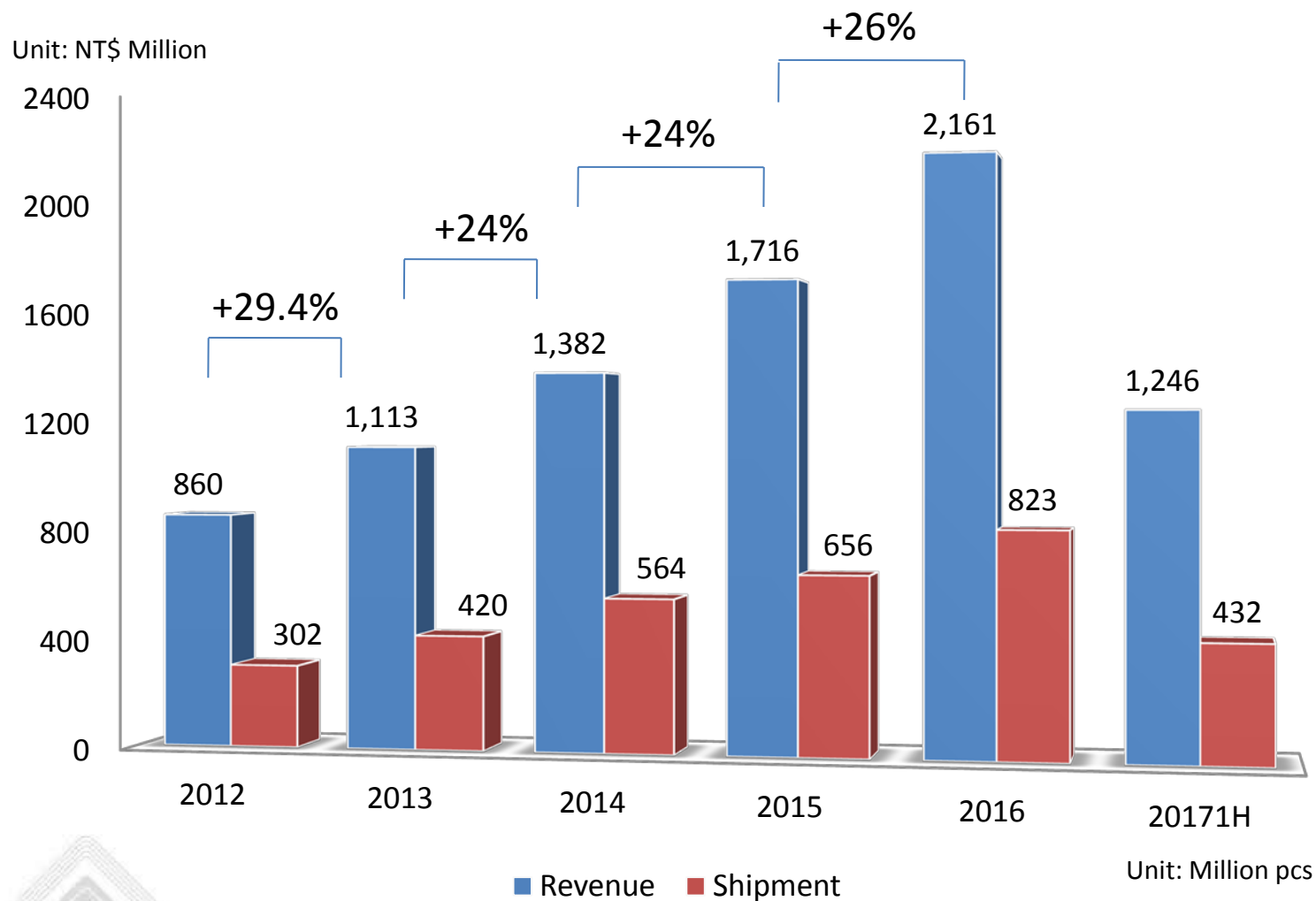
- Keep expanding in broadcast and wireless video.
- FM continue win in Korea flagship phone.
- Wireless long-distance HD video ship to smart home, car backup, drone... with our proprietary transceiver.

Unit: NT\$ Million

■ FM ■ Wireless Video

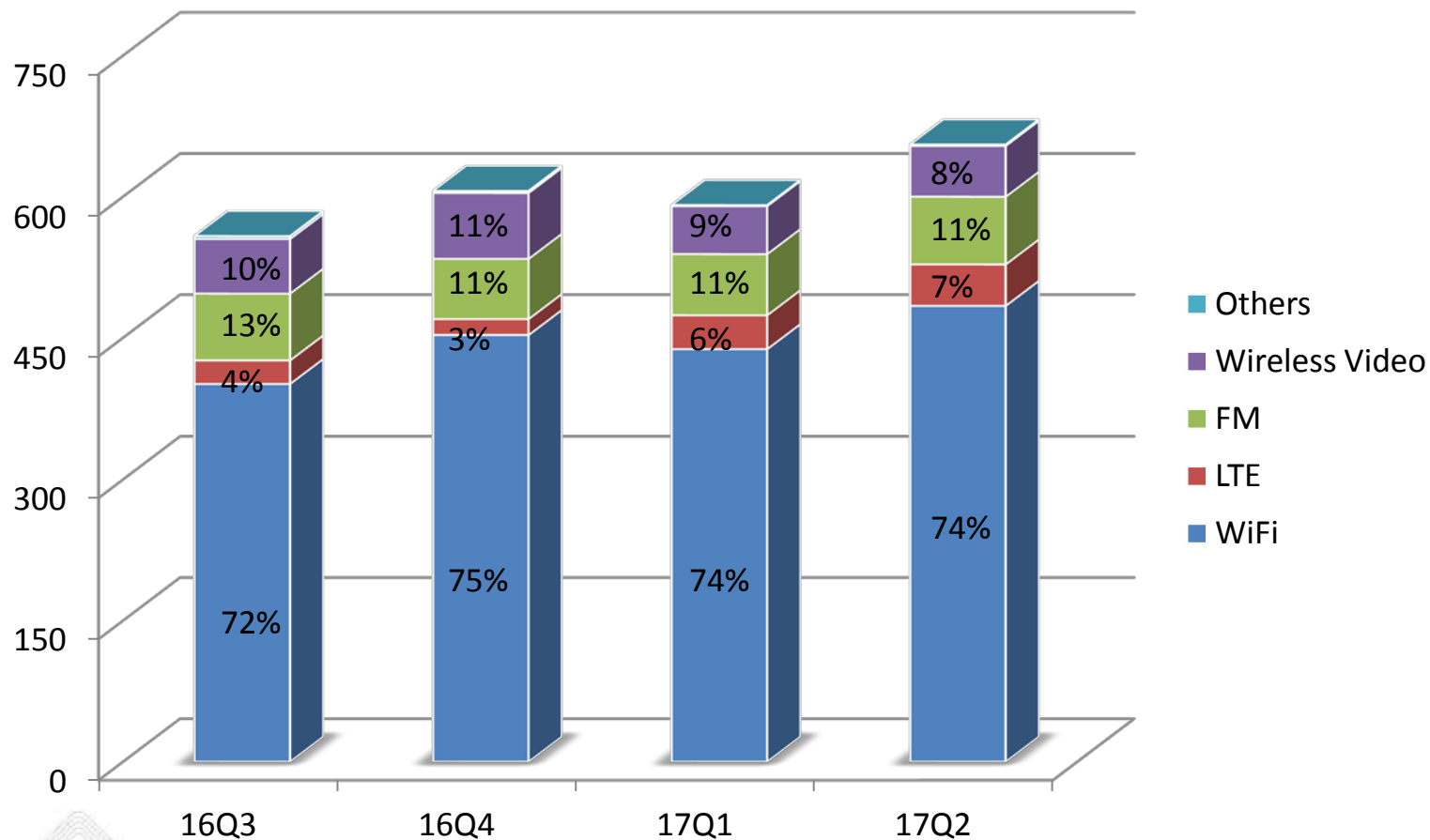


# Trend in Net Sales & Units



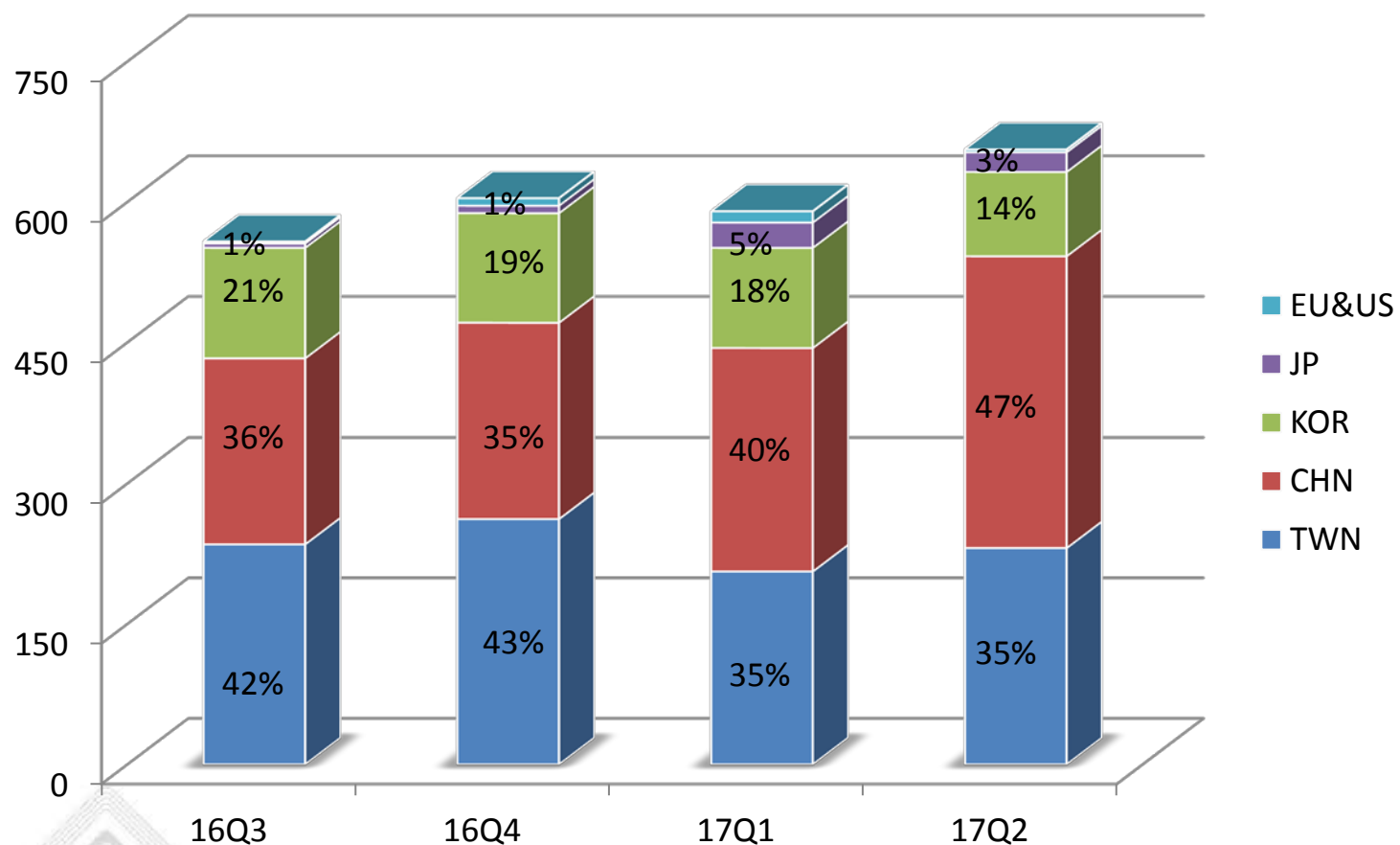
# Revenue by Products

Unit: NT\$ Million



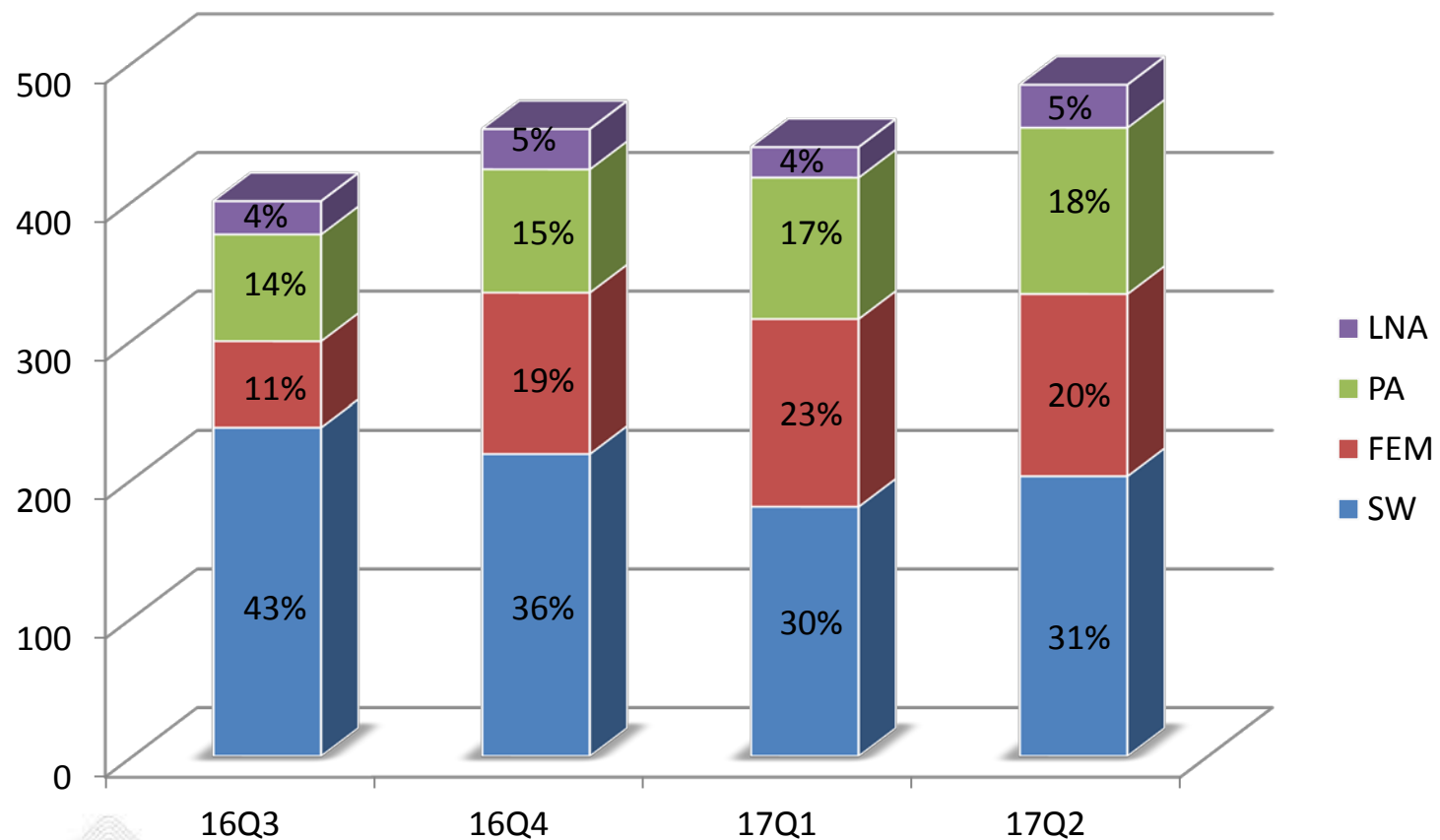
# Revenue by Regions

Unit: NT\$ Million



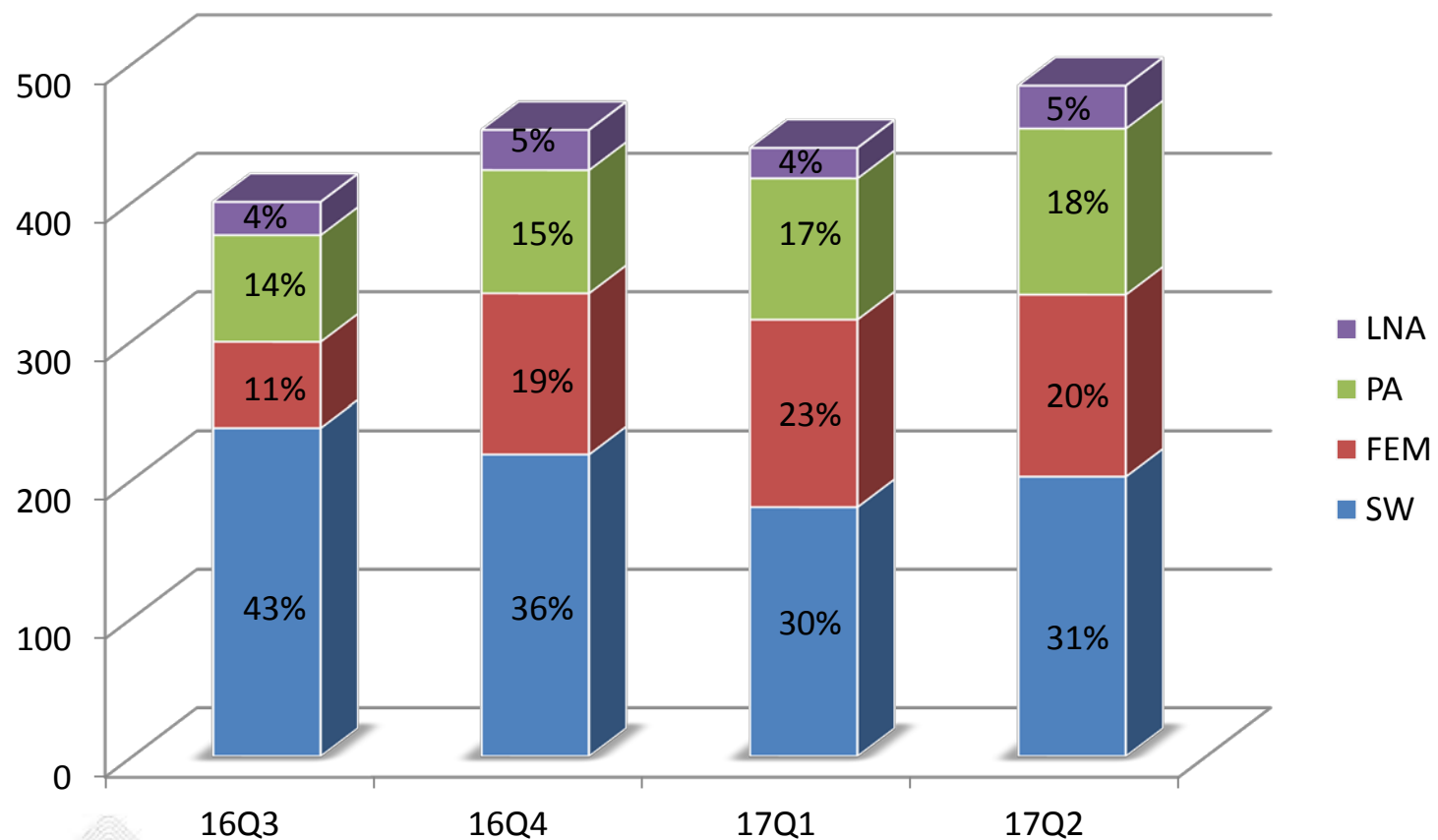
# WiFi Revenue by Products

Unit: NT\$ Million



# WiFi Revenue by Products

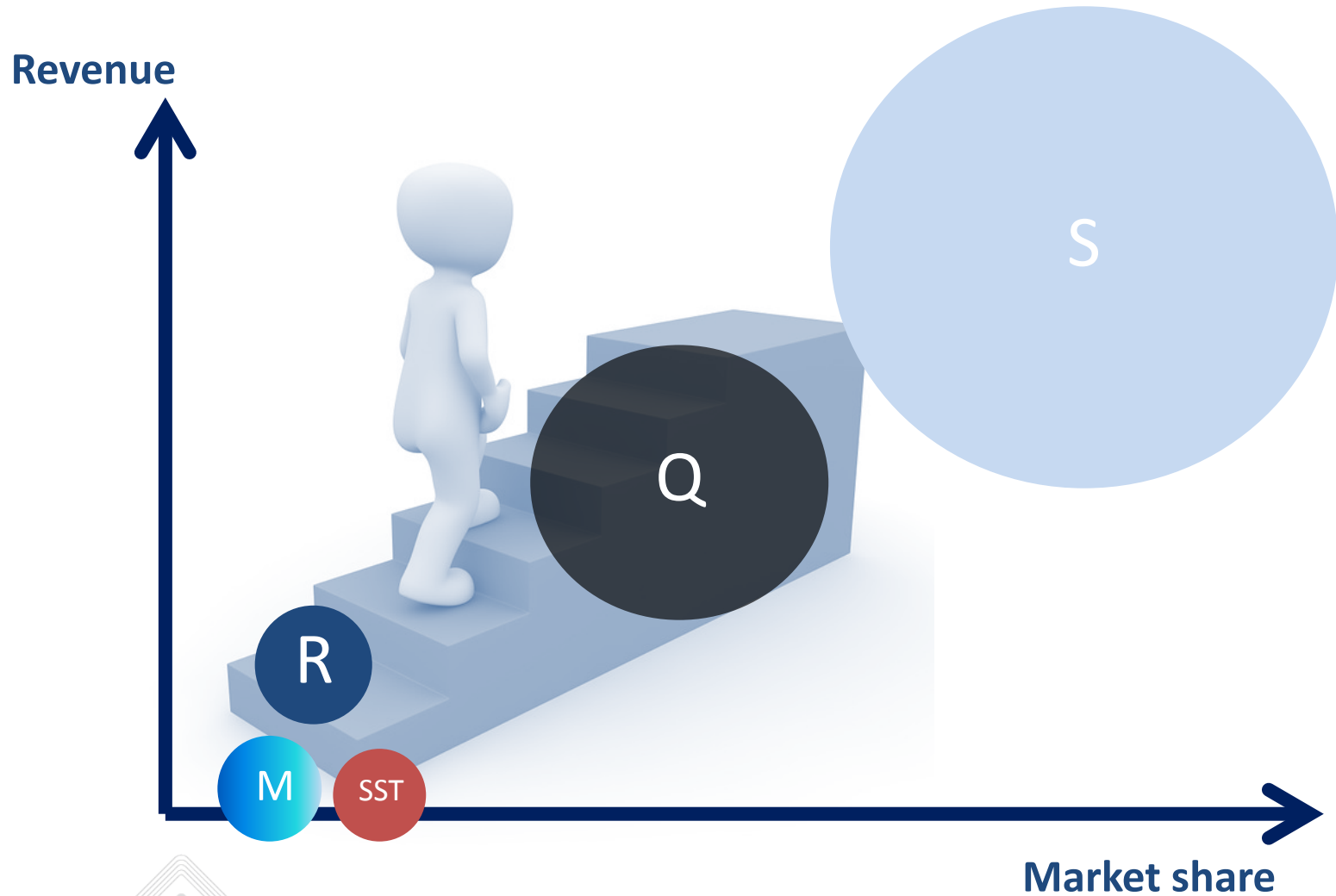
Unit: NT\$ Million



# 2017 Q2 Operation Results

Amount:NT\$ MN	2017 Q2		2017 Q1		QoQ	2016 Q2		YoY
	Amount	%	Amount	%	%	Amount	%	%
Net Sales	655	100.0%	591	100.0%	10.8%	523	100.0%	25.2%
Gross Margin	238	36.3%	219	37.1%	8.7%	184	35.2%	29.3%
Operating Expense	152	23.2%	171	28.9%	-11.1%	135	25.8%	12.6%
Operating Profit	86	13.1%	48	8.1%	79.2%	48	9.2%	79.2%
Net Income before Tax	89	13.6%	-59	-10.0%	250.8%	50	9.6%	78.0%
Net Income after Tax	74	11.3%	-50	-8.5%	248.0%	45	8.6%	64.4%
EPS	1.36		-0.91			0.82		

# Continuing to Go Up







**RichWave**