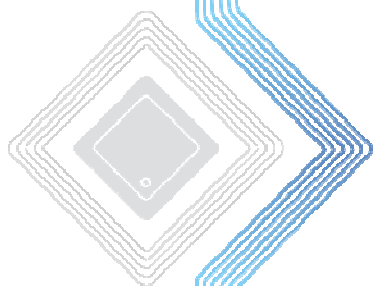


RichWave



# 立積電子股份有限公司

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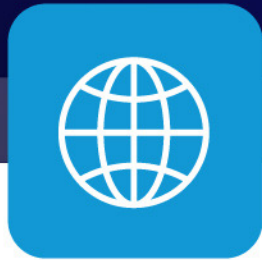
投資人簡報

民國108年9月

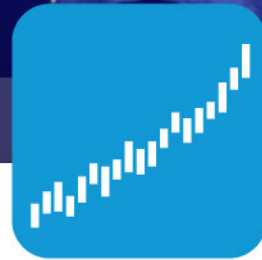
# COMPANY OVERVIEW

SHANGHAI  
SHENZHEN  
SEONGNAM  
TAIPEI  
CHUPEI

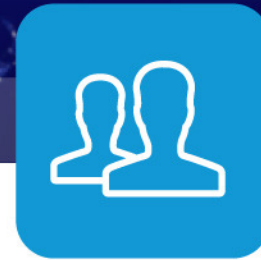
SAN JOSE



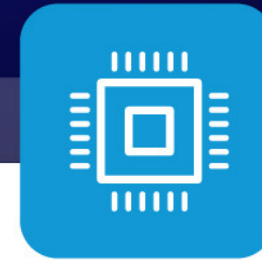
Founded  
**Jan. 2004**



Listed in TSE  
**Nov. 2015**



Customers  
**350+**



Products  
**270+**

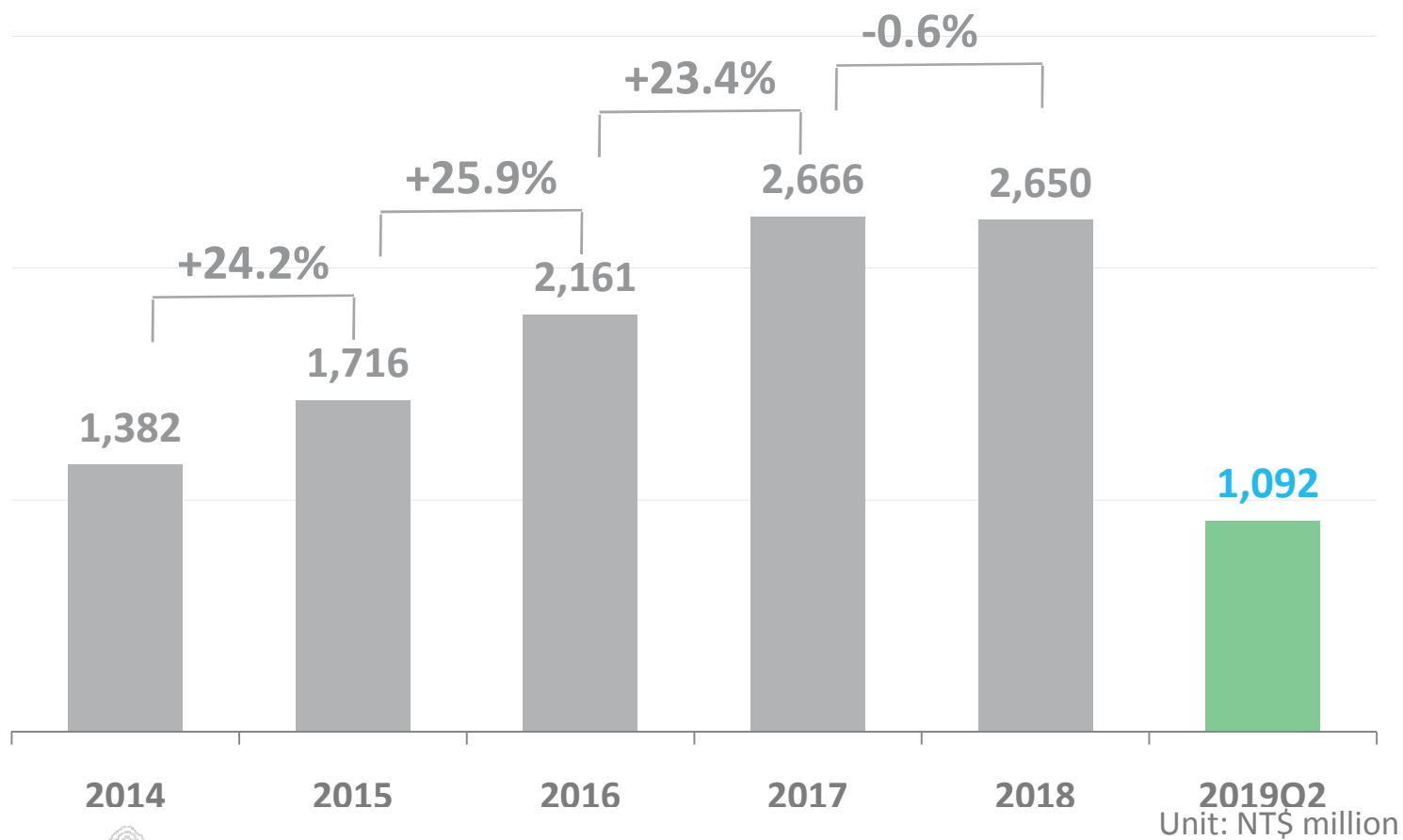
願景

RichWave

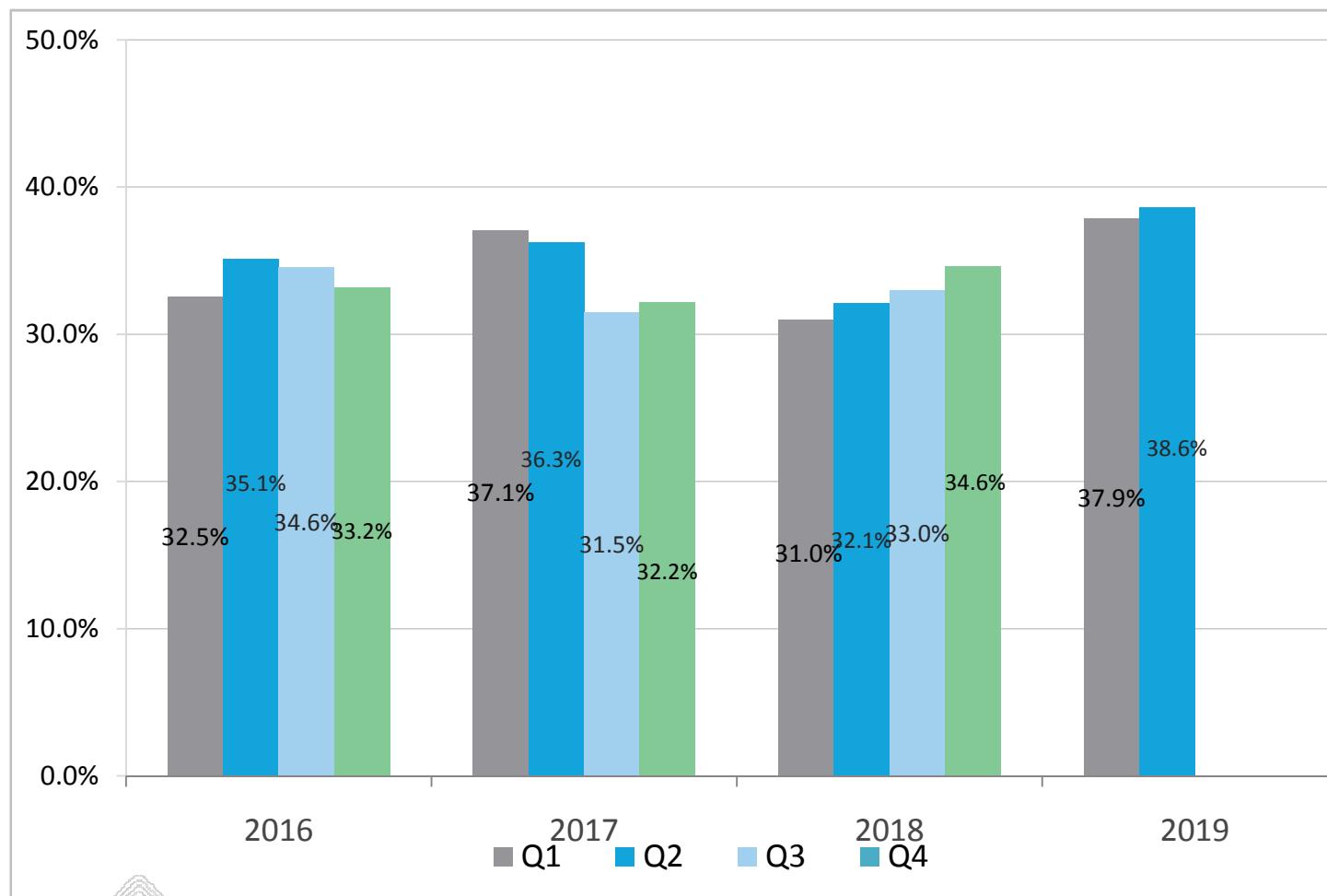
以技術與創新成為全球射頻IC領導者



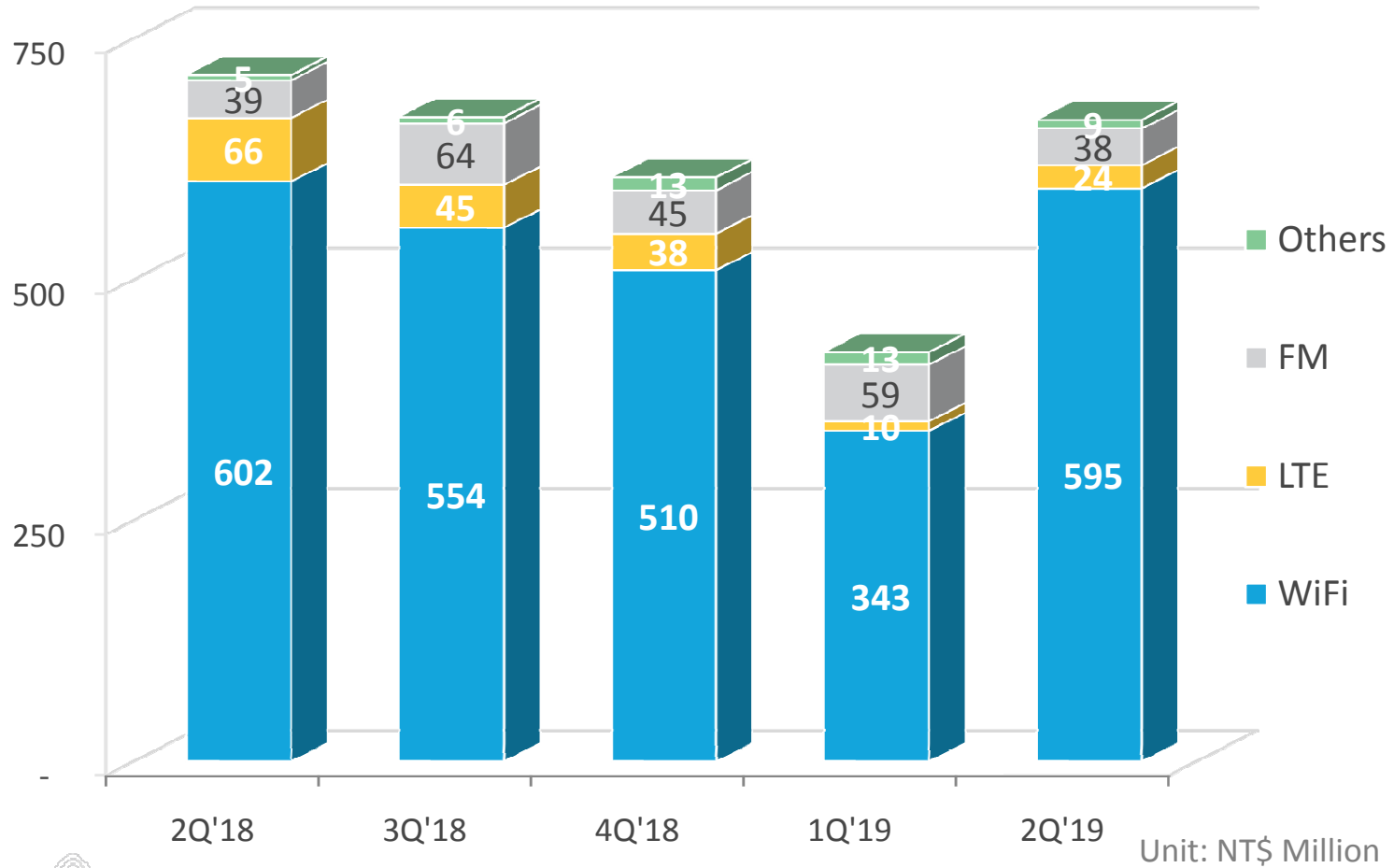
# 2014-2019銷售淨額



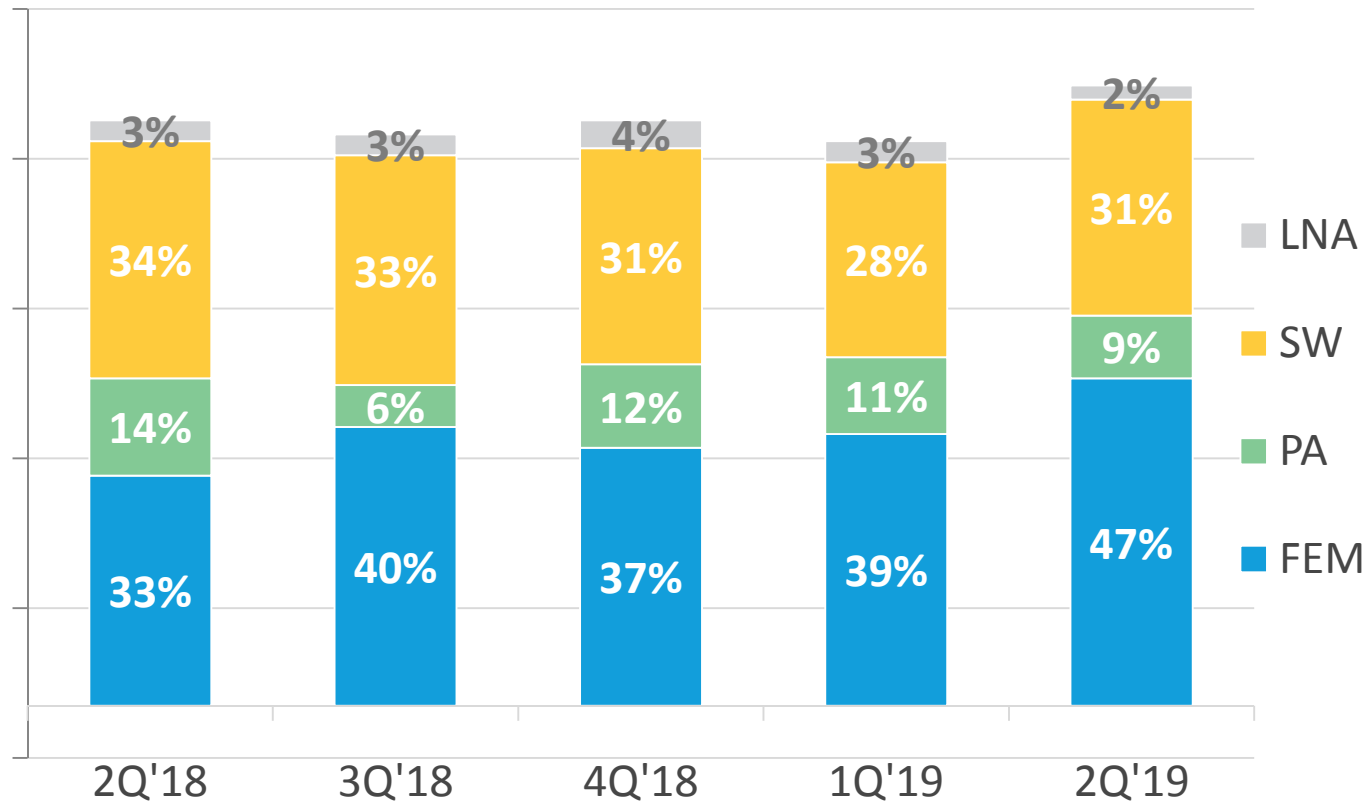
# 歷年毛利狀況



# 各產品線佔營收比重

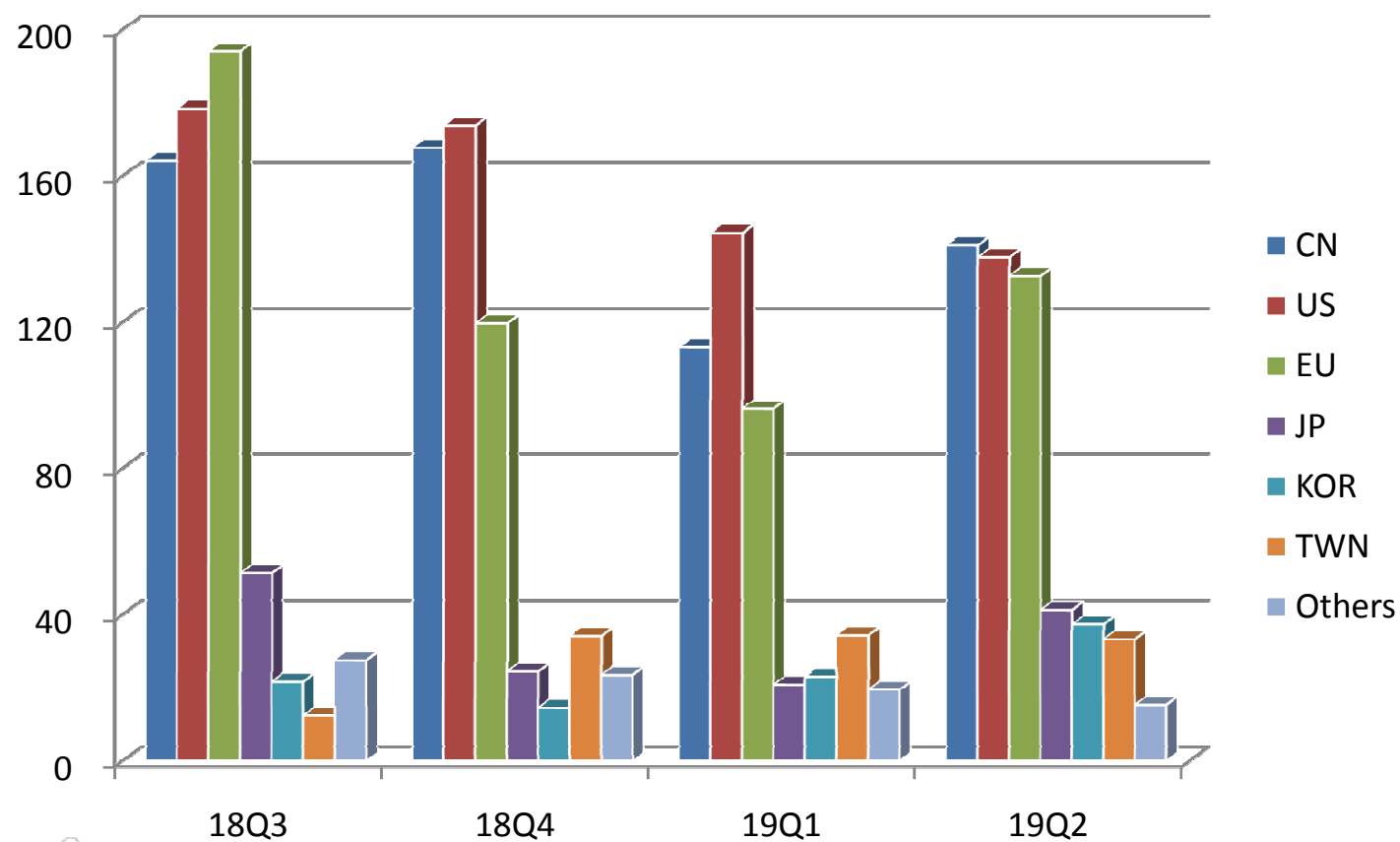


# 高整合度WiFi FEM及高功率PA 權重提升



# WiFi 營收- 依地區分

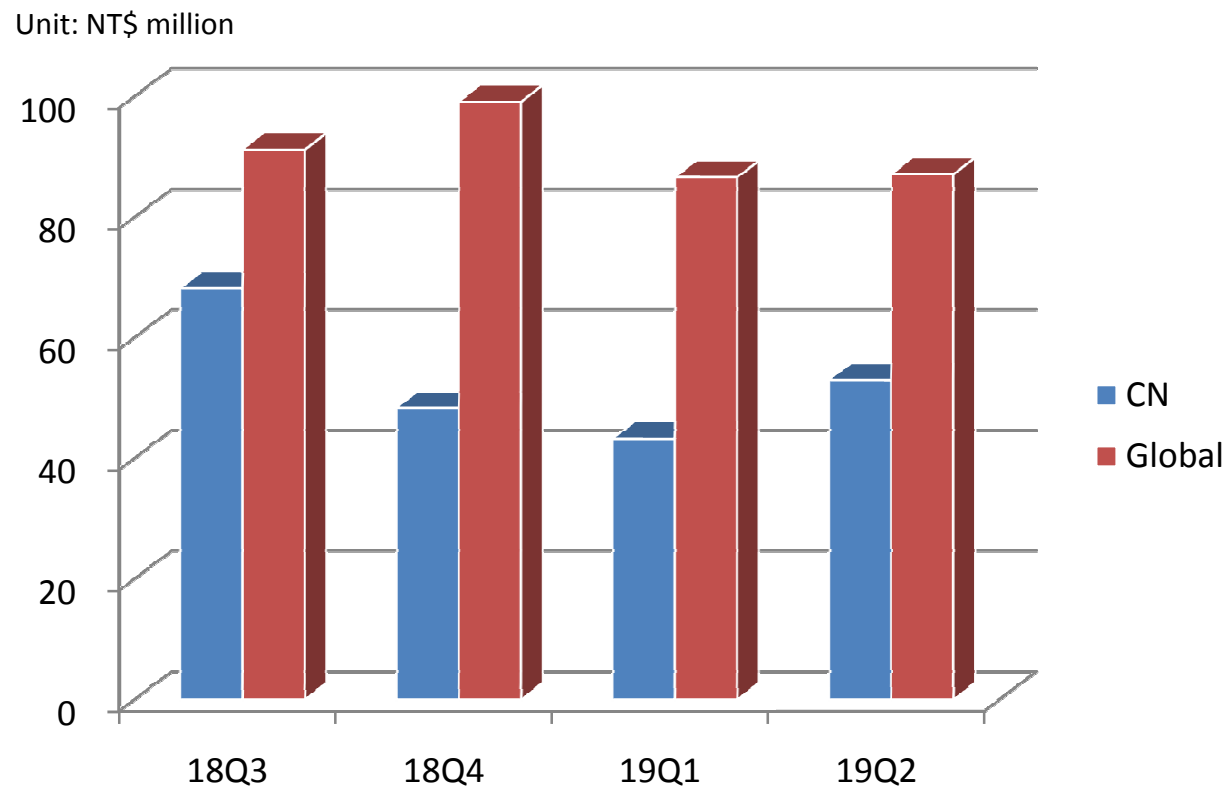
Unit: NT\$ million





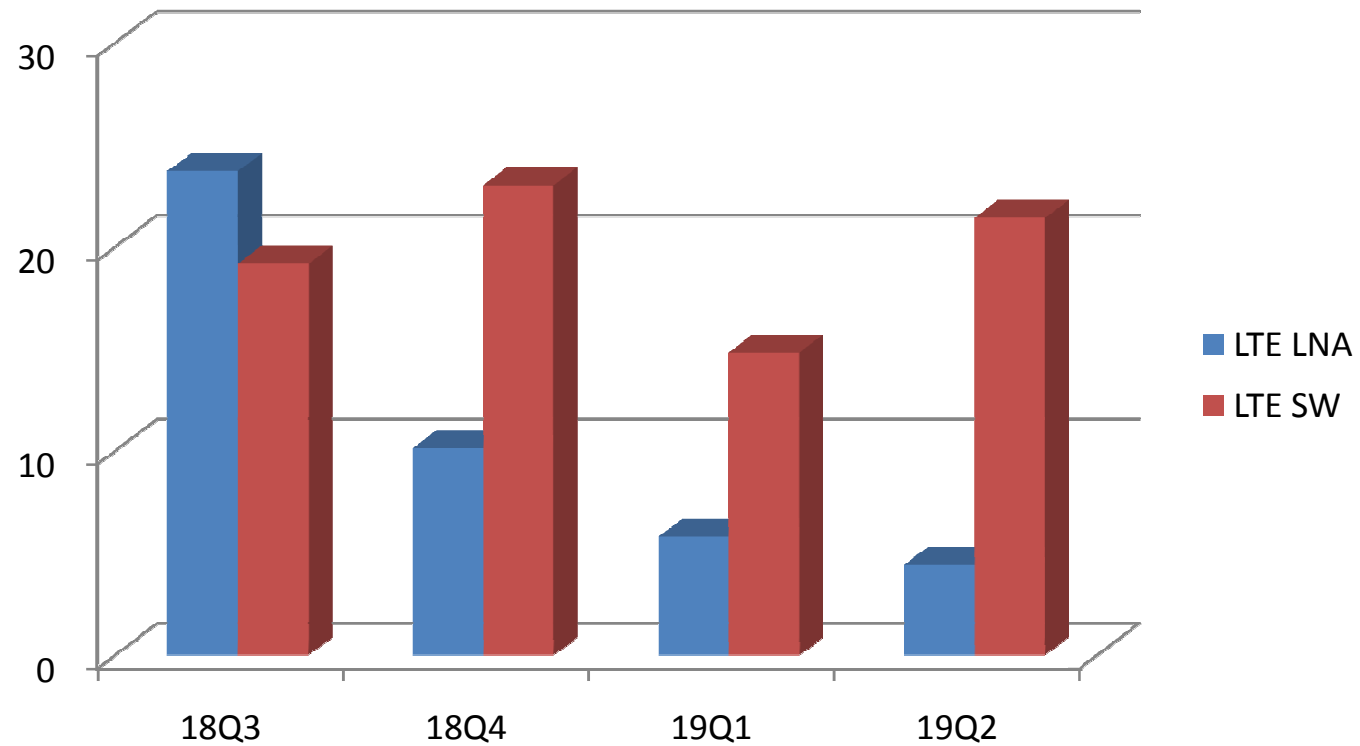
# 主要成長來自全球品牌的路由器市場

- 11ac FEMs 持續拓展到包含零售與電信運營商等全球品牌的路由器市場。



# LTE 持續打入品牌手機廠

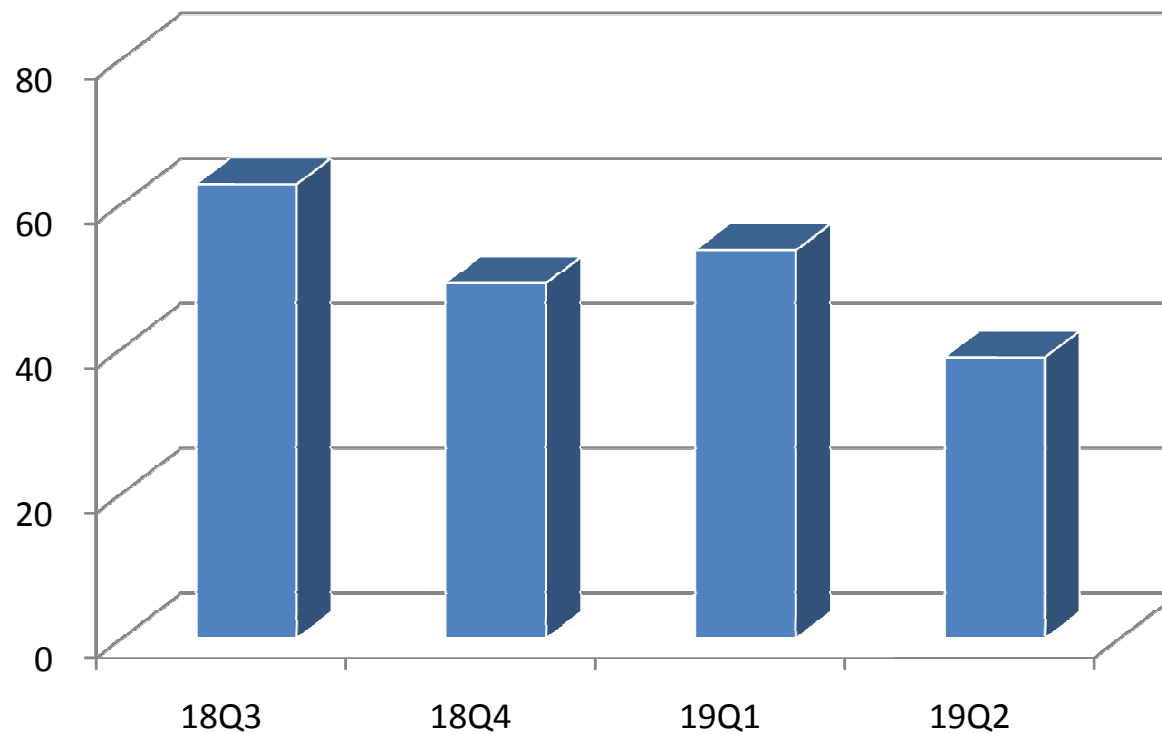
Unit: NT\$ million



## FM 進一步打入主要手機品牌

- FM 除持續出貨旗艦機外，更進一步拓展到其他韓系品牌手機。
- 推出新一代的FM晶片，並成功打入新的韓系手機旗艦機種。

Unit: NT\$ million



# 業績亮點- WiFi

- 首批用於DSL gateway 11ax FEMs 開始出貨給瑞典的電信商
- 用於Technicolor.歐系router的11ac FEMs 開始大量出貨
- 用於任天堂遊戲機Switch 的WiFi switches大量出貨
- 11ac FEMs 成功打入Sagemcom的10G PON gateway
- 11ac FEMs成功打入美系有線電視運營商Ubee的cable gateway
- 11ac FEMs成功打入瑞士電信商的GPON gateway
- 11ac FEMs成功打入印度 Reliance的home gateway & mesh router
- 11ac FEMs成功打入Freebox的WiFi repeater & gateway
- WiFi switches成功打入Amazon 的門鈴
- 成為華為的合格供應商 (AVL) , 11ac FEMs 開始出貨給華為的router

  
Reliance  
Industries Limited

  
Nintendo®

  
amazon

  
technicolor

  
freebox

  
HUAWEI

  
ubee™

  
SAGEMCOM



# 業績亮點- 手機

- WiFi 11ac 5GHz FEM 成功打入PAD/4G模組:
  - 三星 PAD, 聯想 PAD, 移遠 LTE 模組
- LTE LNA成功打入smart phone/4G模組:
  - 樂金智慧手機, OPPO智慧手機, 移遠 LTE 模組



SAMSUNG

Lenovo™

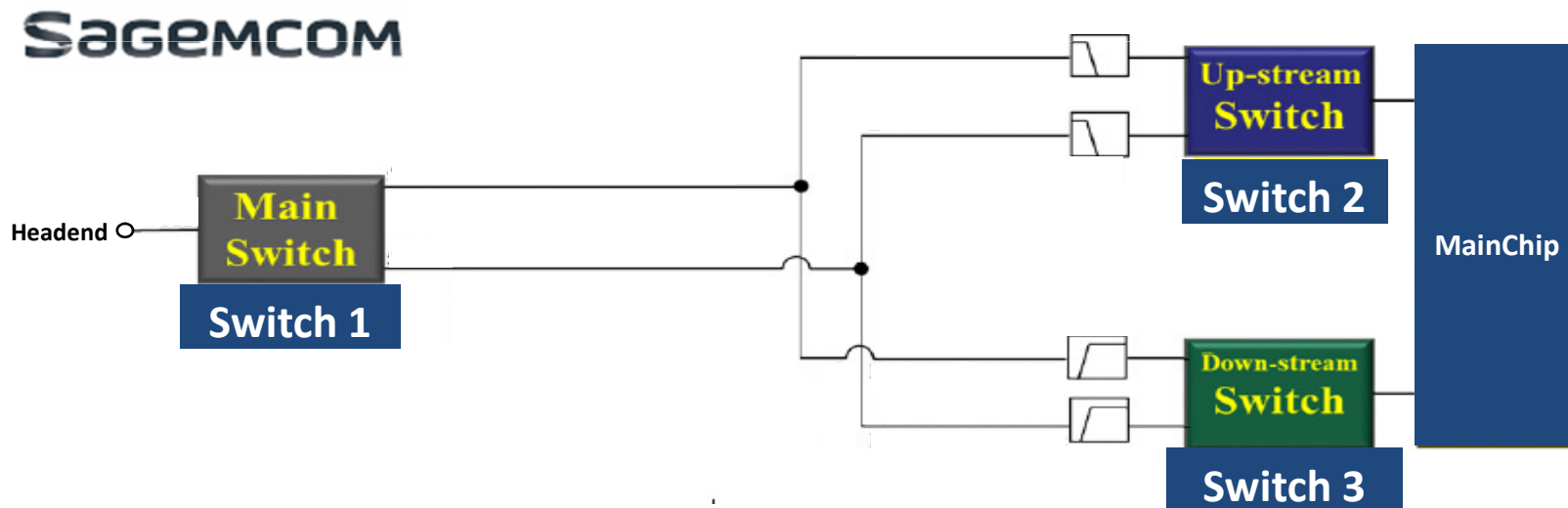
QUECTEL

oppo



# 業績亮點- Cable Switch

- 首批Cable Docsis 3.1 switches 開始出貨給Sagemcom
- Cable Docsis 3.1 switches成功打入美系有線電視運營商
- Cable Docsis 3.1 switches成功打入歐系有線電視運營商

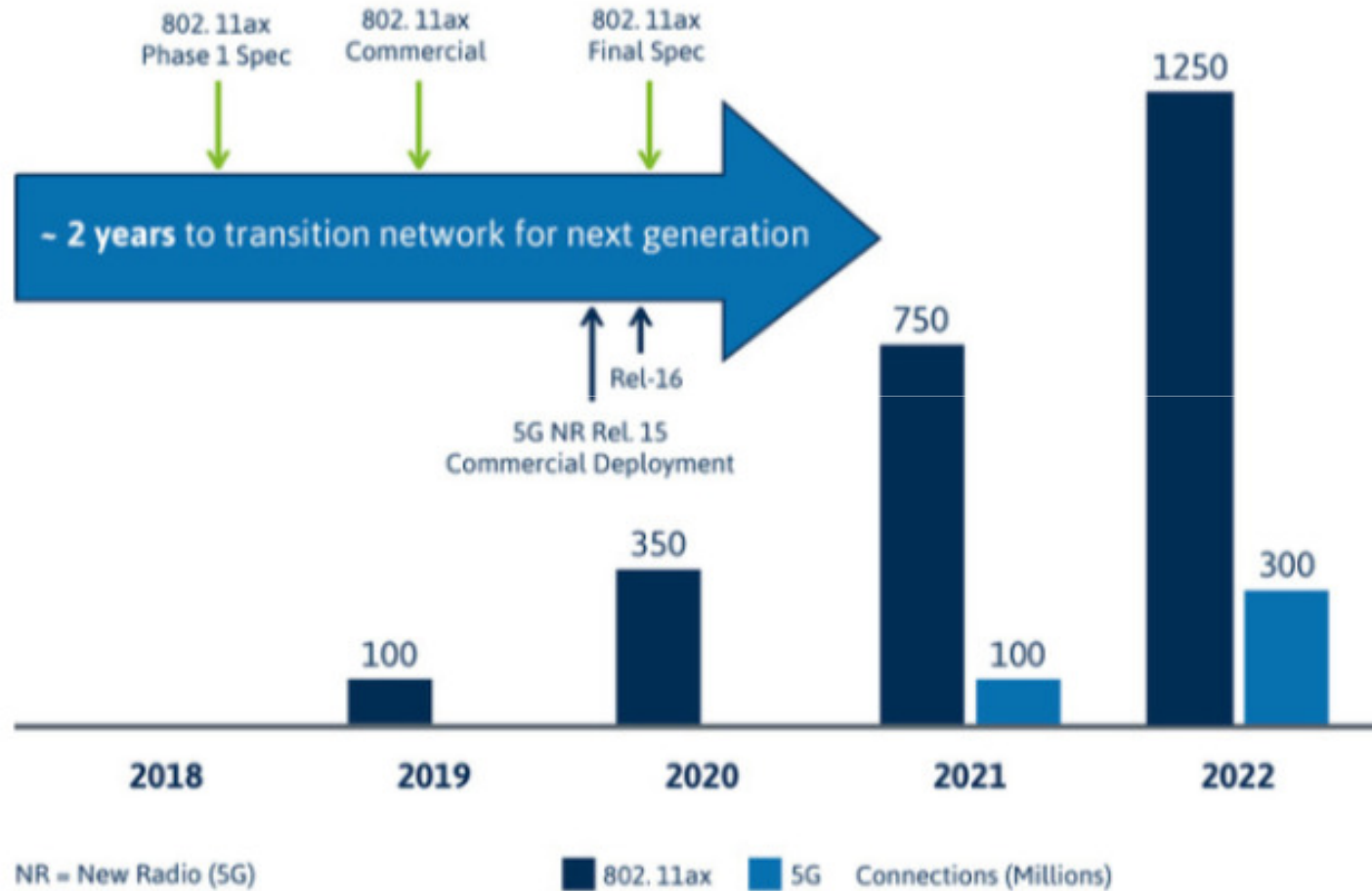


# 業績亮點- 車用

- 11ac FEMs開始出貨給通用汽車的WiFi模組
- 車用的 LTE 模組開始出貨給博世

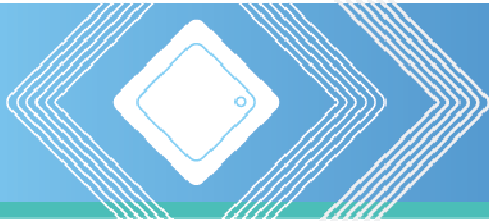


# RichWave WiFi 邁入11ax



Source: Wireless Broadband Alliance, 2018/9





**RichWave**