正文科技 2021法人說明會





1 開幕 Speaker - Chairman Howard Chen

2 營運報告 Speaker -

Speaker – CEO James Lee

3

市場趨勢

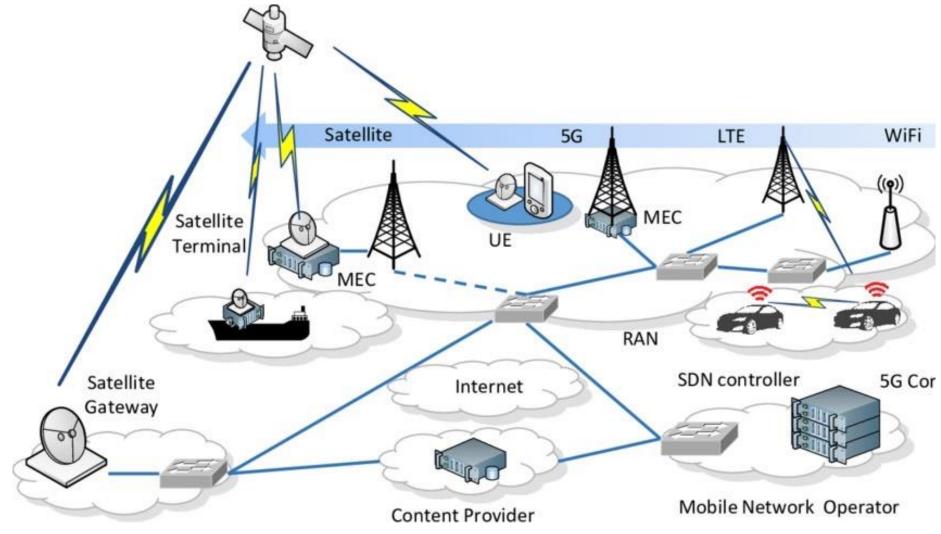
Speaker - Exec. Board of Director & Spokesman





A New Era of Telecommunication









Central Office

...

....

Broadband

Connected Home

Cloud Server

CO (Central Office) Small Cell OLT Edge Computing ORAN

CPE Fiber Gateway 5G Gateway LEO



Wi-Fi 6,7Mesh IoT LoRa

中美對峙

貿易





中美對峙加劇全球供應鏈的遷移





美國政府正極力打擊中國大陸電信及科技公司

• Trump's Executive order

Cut the supply chain of Huawei. (ex TSMC Samsung Qualcomm, etc.)

Clean network program

Aligned with other countries to boycott HW and SW from China.

• The Secure Equipment Act

Reduce the presence of Huawei and ZTE equipment in U.S communications networks.







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SELECT 5G CLEAN TELECOMMUNICATIONS COMPANIES

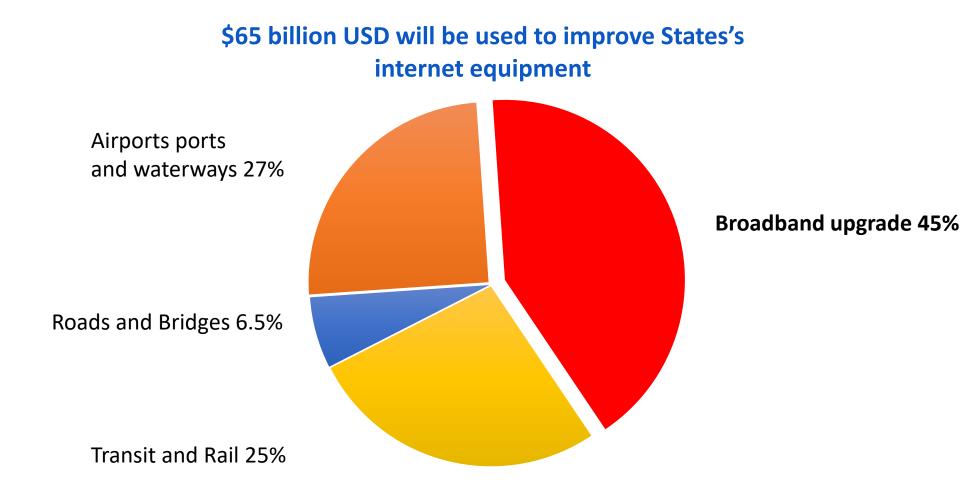


- Clean Carriers
- Clean App Stores
- Clean Apps (Exclude TikTok, WeChat, etc.)
- Clean Cloud
- Clean Cable (Exclude Hong Kong. Connect

Taiwan and the Philippines)



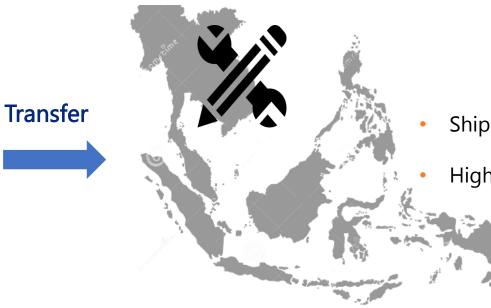








The Orders place in China product line



Gemtek Can Do

- Shipment / Manufacture outside of China.
- Highly customize production



Orders from Big EMS company







- Automated production become mainstream
- Pandemic & Political issue increase uncertainty
- Electricity restriction order



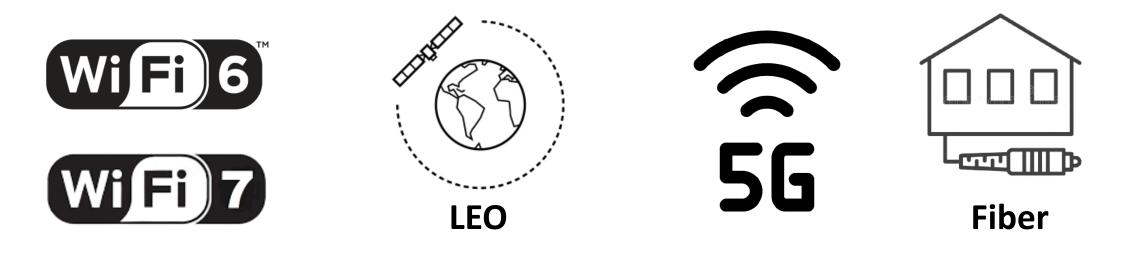
Then - China is a International Factory

Now – Factories located globally









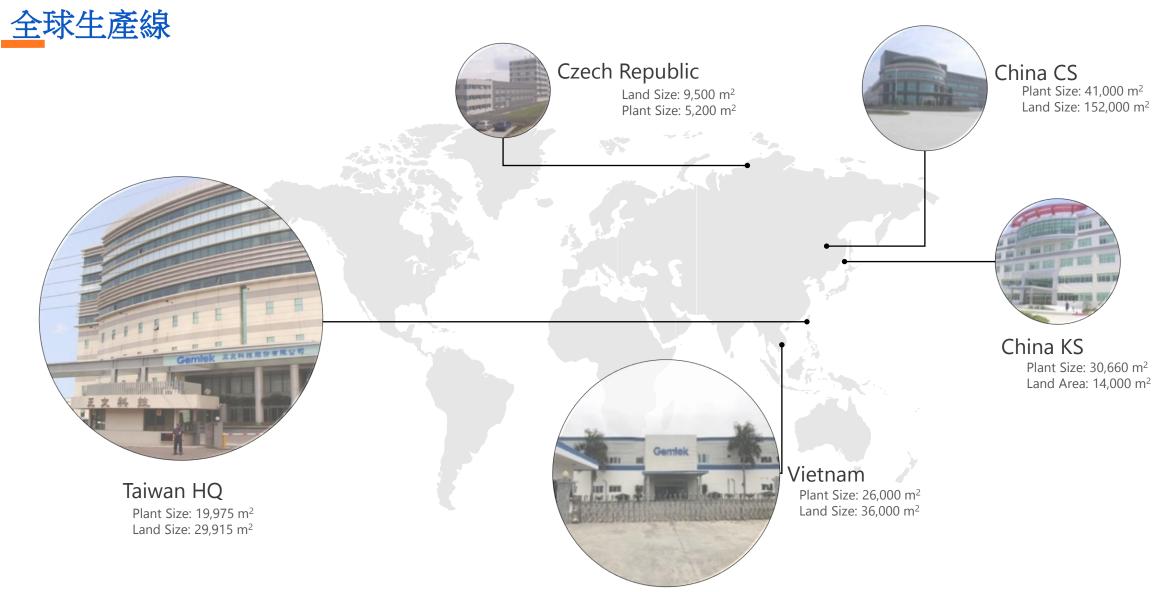




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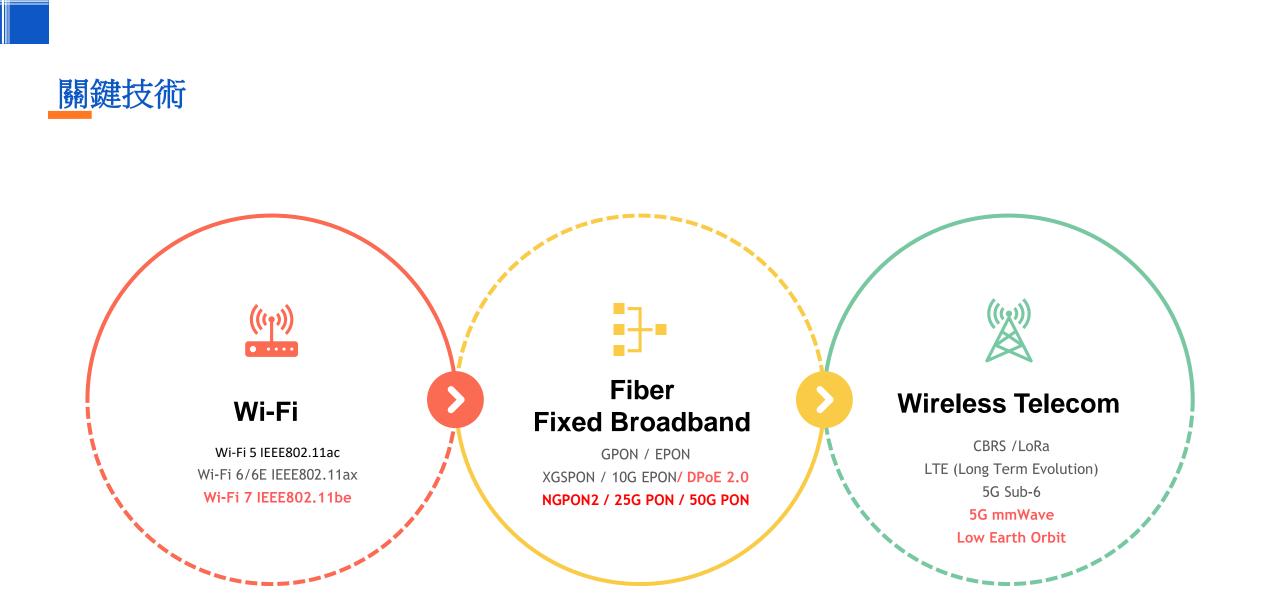


	Hsinchu, Taiwan	Ha Nam, Vietnam	Kunshan & Changshu, China
Capacity (by product)	≈ 12%	≈ 38%	≈ 50%
Capacity (by revenue)	≈ 5%	≈ 45%	≈ 50%
Product	Pilot Run	Wi-Fi Product, LTE, Gateway, GPON, Module, Sip Module	Wi-Fi Product, LTE, Gateway, GPON, Module, Sip Module



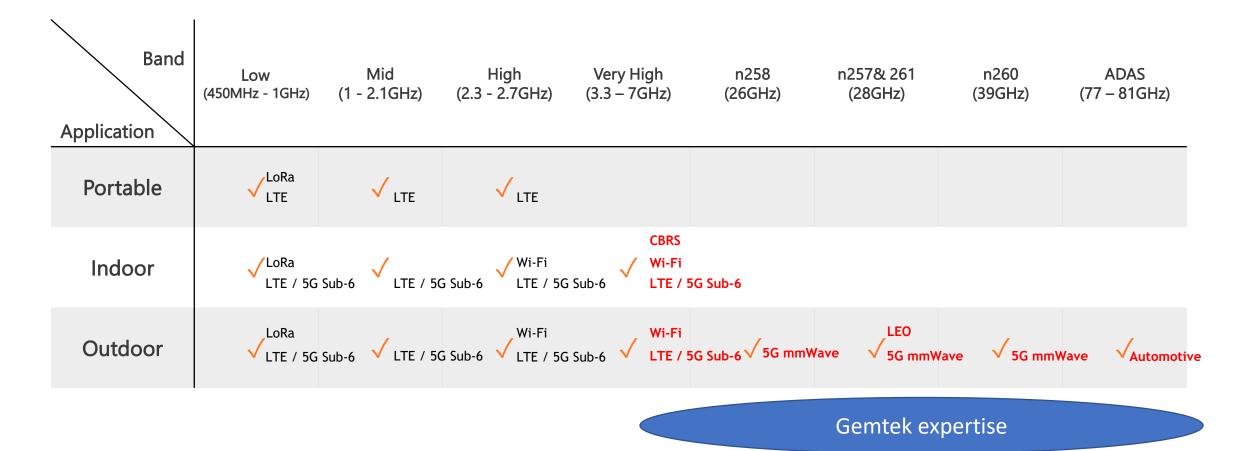
















^ In 2Q 2021, Frontier no longer included wholesale subscribers

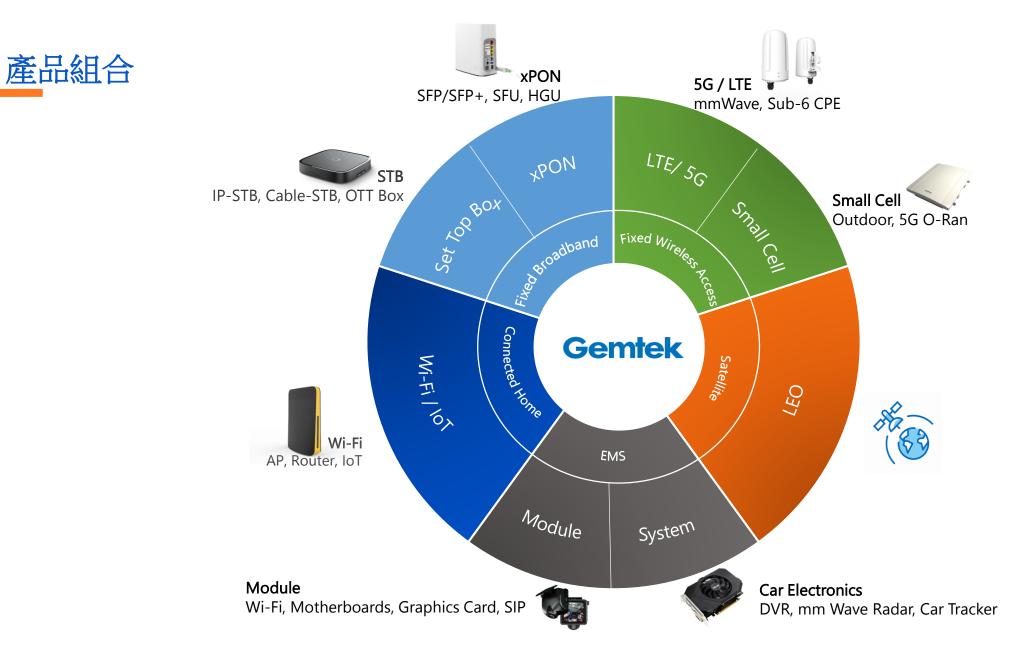
^ In 2Q 2021, Consolidated began reporting only residential subscribers

Wireline Phone Companies	Subscribers at end of 2Q 2021	Net Adds in 2Q 2021
AT&T	15,481,000	46,000
Verizon	7,263,000	70,000
CenturyLink/Lumen	4,666,000	-62,000
Frontier^	2,798,000	-22,000
Windstream	1,131,800	9,500
TDS	513,600	11,900
Cincinnati Bell	437,800	200
Consolidated^^	393,480	-4,522
Total Top Telco	32,684,680	49,078

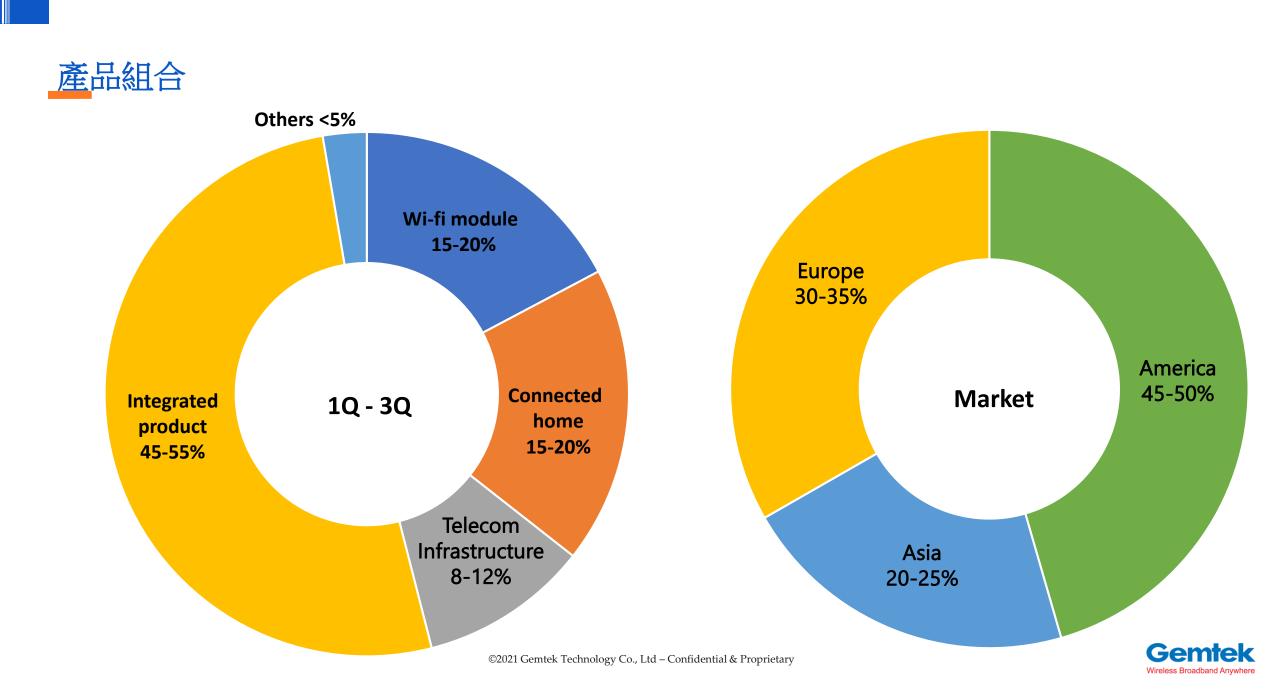
Cable Companies	Subscribers at end of 2Q 2021	Net Adds in 2Q 2021
Comcast	31,388,000	354,000
Charter	29,634,000	400,000
Cox*	5,485,000	50,000
Altice**	4,401,300	200
Mediacom	1,468,000	14,000
Cable One**	1,017,000	14,000
WOW (WideOpenWest)	826,300	3,400
Atlantic Broadband	517,851	6,847
Total Top Cable	74,737,451	842,447

* LRG (Leichtman Research Group) estimate
 ** Includes recent acquisitions and LRG pro forma estimates of net adds

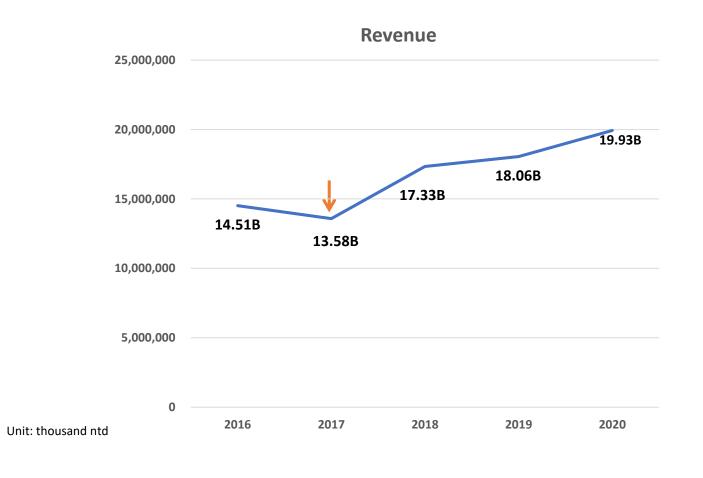












- Revenues grew 10.37% in 2020 as compared to (NTD \$19.93B)
- 2021 Revenue Target : YoY+13%





In NTD (thousand)	1Q-3Q 2021	1Q-3Q 2020
Operating Revenue	17,302,318	15,040,706
Gross Profit	1,586,274	1,729,702
Operating Expenses	1,224,544	1,349,577
Operating Income	361,730	380,125
Non-Operating Income and Expenses	123,646	1,075,967
Net Income	410,512	1,298,764
Net Income Rate	2.37%	8.63%
Basic EPS (NTD)	1.14	3.55

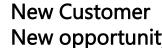


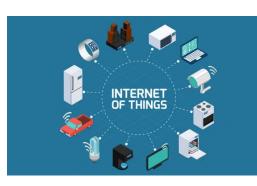




New Technology







New Applications



Uncertainties

COVID-19 Electricity Restriction Material shortage



New opportunity

小結



- More customer firmed orders in 2022.
- Increase the proportion of highmargin products.



- Catch the leading position in Wifi,5G, Fiber...
- higher value technologies:
 Small Cell, OLT, Software value
 added. LEO (Low Earth Orbit)



- **Business Model**
- ODM/OEM for 1st tier brand name.
- Direct supply to strategical operators.
- · Global Distribution.
- Provide End To End Networking product.

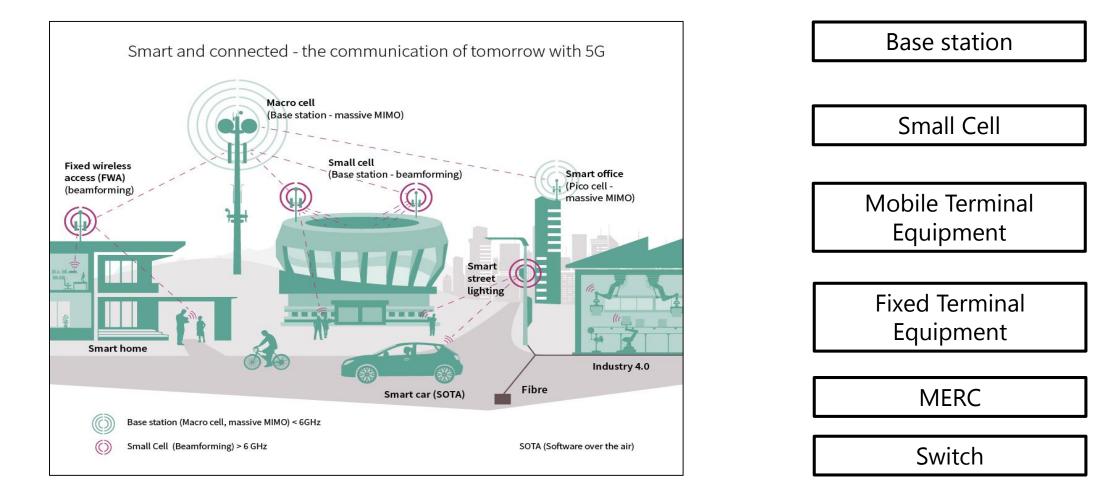




Founder & executive broader Dr. Young



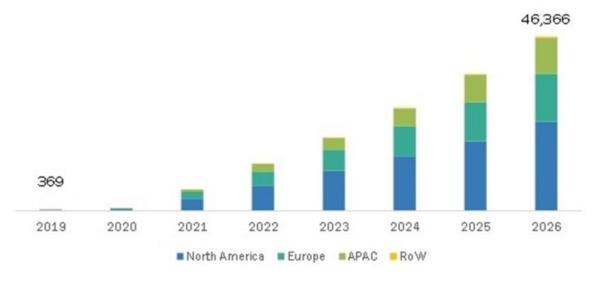








5G FWA Market by region (USD million)



Source: Market and market

5G FWA: Game Changer for Fixed Broadband

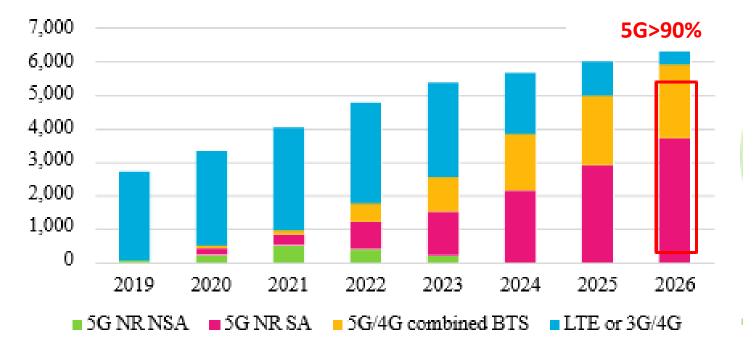


Source: Digitimes





Global small base station market forecast

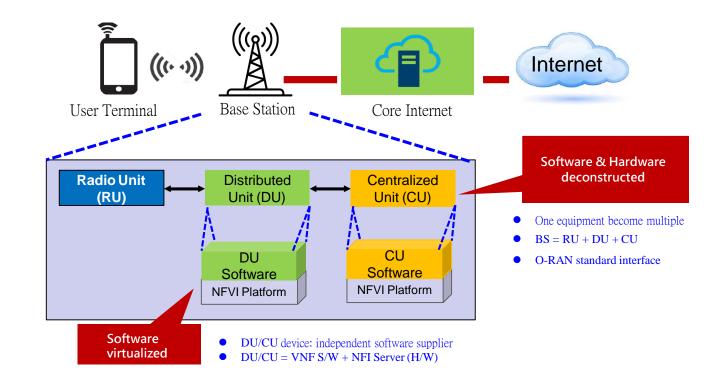


Source: MIC



Open-RAN

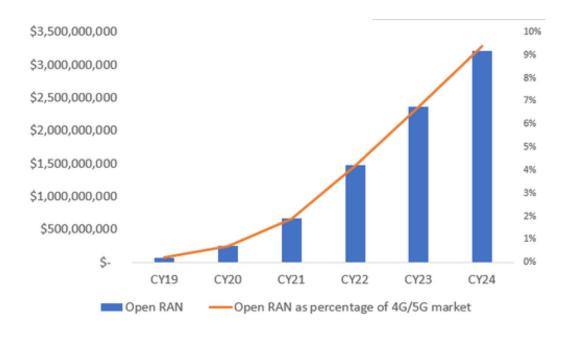
One base station supplier become multiple.



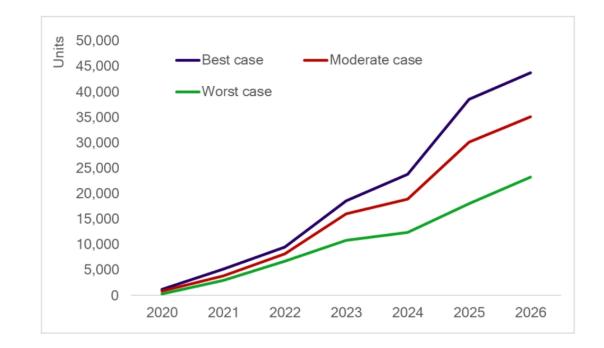




Open-RAN market will reach 3.2 Billion USD in 2024



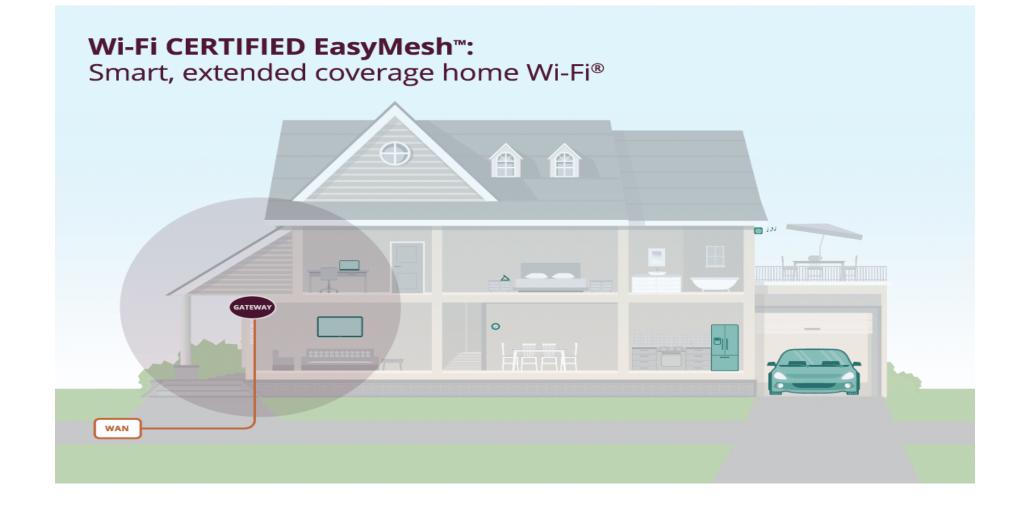
Open-RAN small cell infrastructure in different situation



Source: Omdia



Wi-Fi 技術 – Easy Mesh (Wi-Fi 6 / 7)





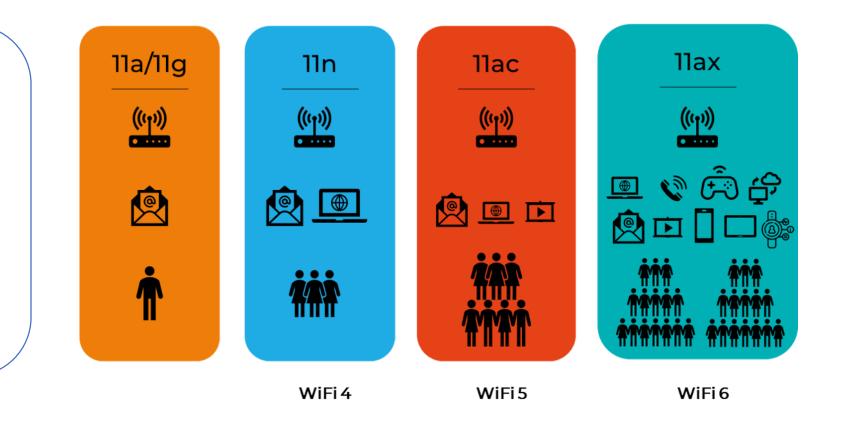
Wi-Fi 技術 – Wi-Fi 6

Strength of Wi-Fi 6

 Efficiency upgrade Wi-Fi ap/rt can communicate with multiple terminal equipment in the same time

• Better performance

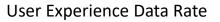
Transmission more data Internet speed get faster Lower power consumption





Wi-Fi 技術 – Wi-Fi 7





Spectrum Efficiency

Network Energy Efficiency



Connection Density

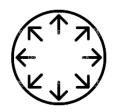
Key Enhar	ncement
320 MHz channels 4096-QAM 16 spatial streams	Multi-link operation Multi-AP operation Deterministic low latency
Multi-Ru (p	ouncturing)



Peak Data Rate



Cost Effective



Area Capacity

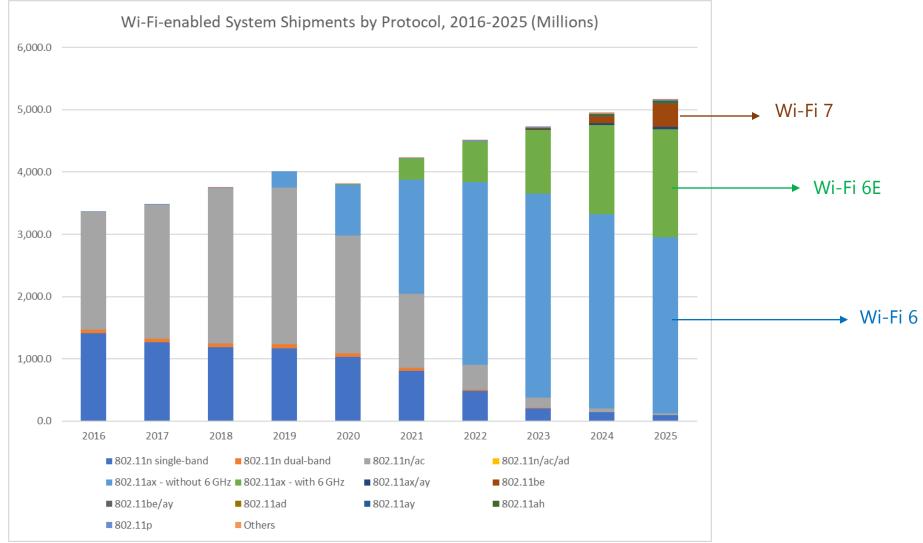


Low latency

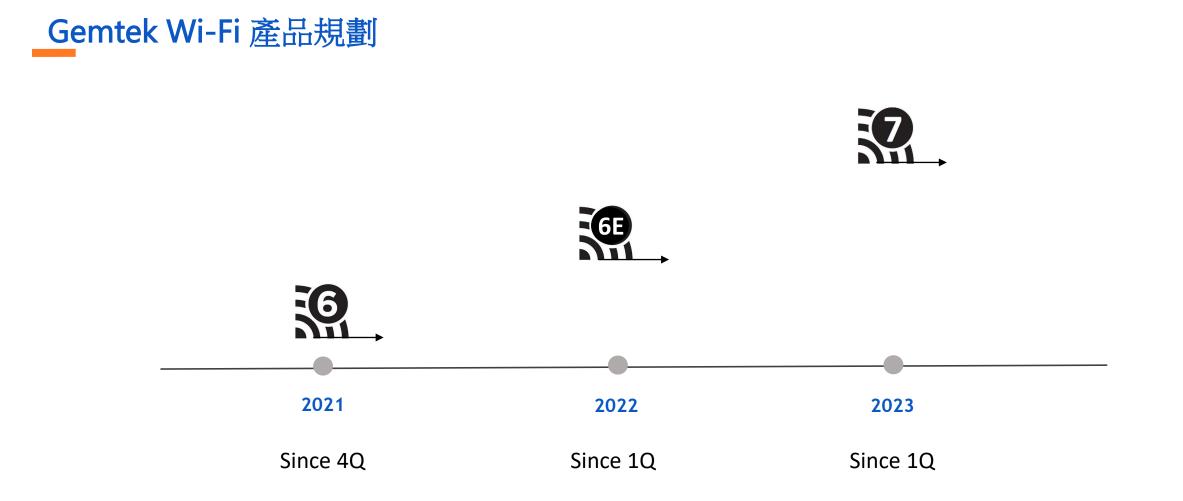


Source: intel





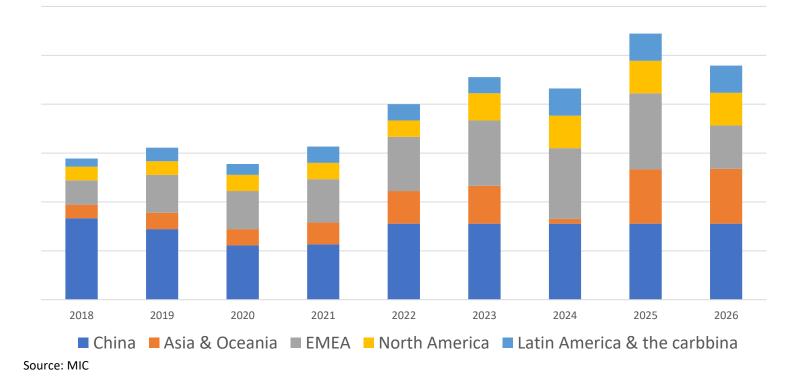








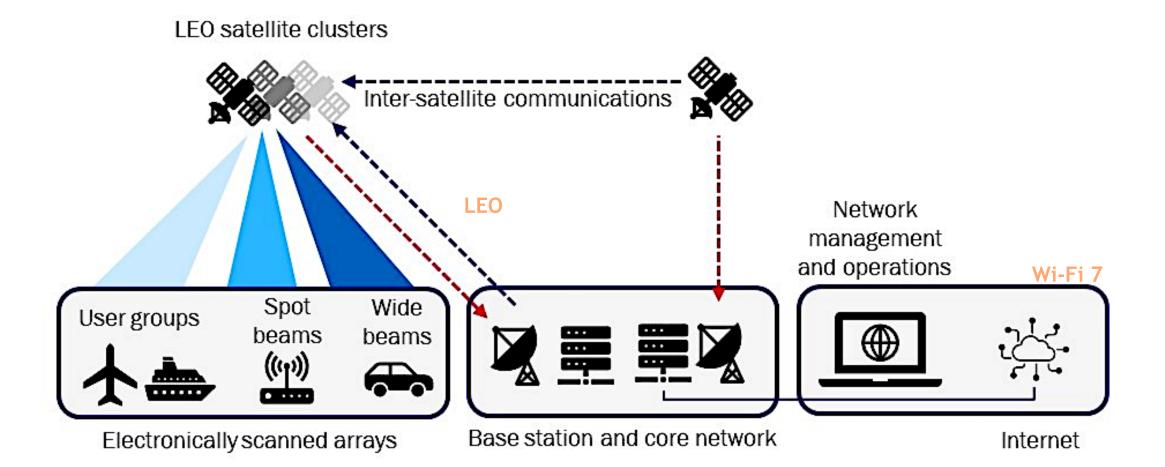
PON equipment revenue by region / country



North America and EMEA represent Top2 world's fast growing PON markets



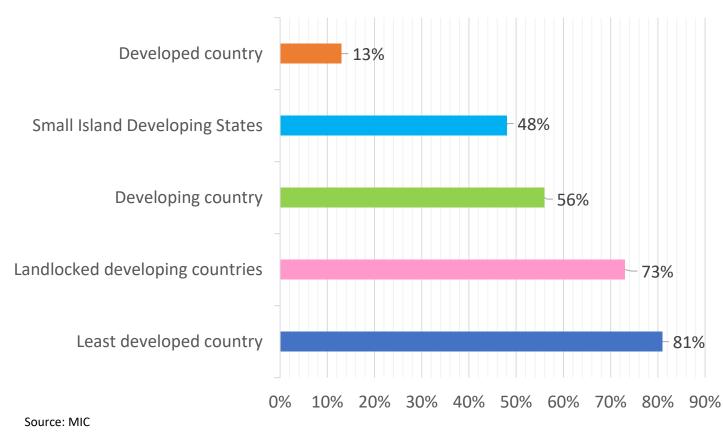








Potential market of LEO: Low internet coverage area

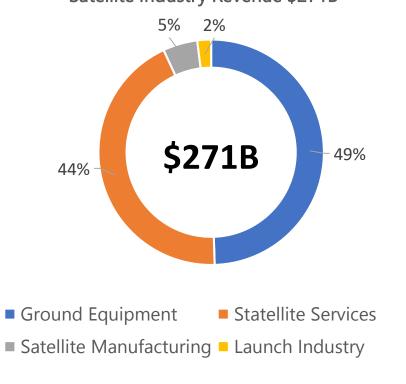


- Until 2019 there are 49% population can't access to internet.
- Even in the developed country still 13% population can't access to internet.



Gemtek 在低軌道衛星的商業契機

The 2021 State of the Satellite Industry Associate Report: 2020 Global Satellite Industry Revenue \$271B



Gemtek can do

- ✓ Ground Equipment.
- User Terminal, including phased array antenna module, system design, verification as well as manufacture.



Source: TIER