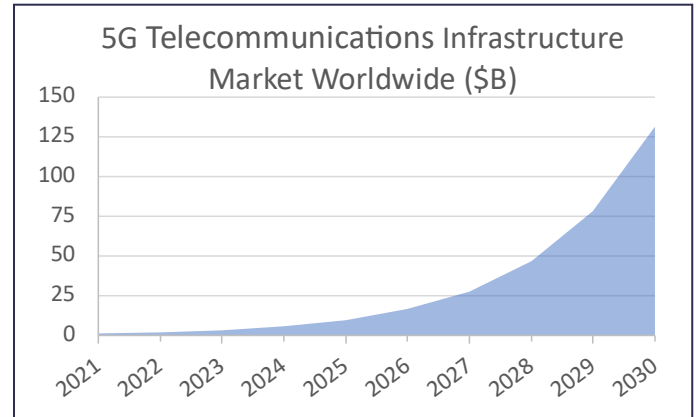
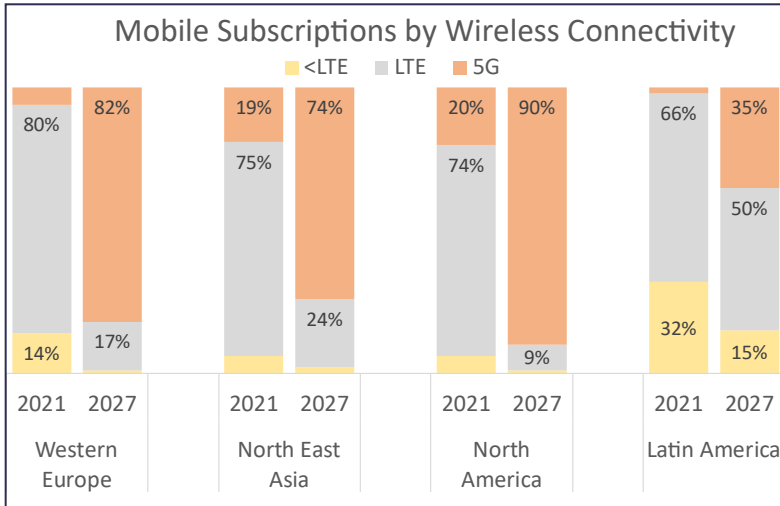




Wireless 5G 2022

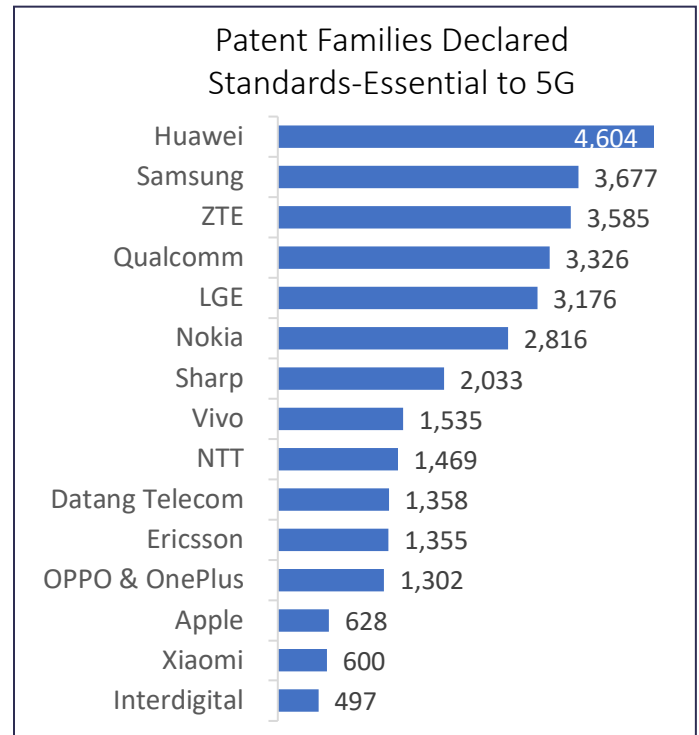
PATENT MARKET OVERVIEW

Using traditional IP expertise combined with cutting-edge software to create tangible market value for clients



VITEK IP CORE OFFERINGS

- Analysis & Valuation
- Automation Technology
- Brokerage
- Patent Market Research
- Patent Creation & Innovation
- IP Software Products



Recent 5G Assertions by Non-Practicing Entities

Plaintiff	Defendants
Apex Beam Tech.	Samsung, ZTE Corporation, OnePlus, TCL
Emergent Mobile	Kyocera, Motorola Mobility, LGE, Samsung
Genghiscomm Hldg.	ASUSTek, OnePlus
Lionra Technologies	Google, Motorola Mobility, Apple, Samsung
Neo Wireless	Apple, Dell, LG, and various Automotive OEMS
Pantech Corporation	BBK, GNJ Manufacturing, ASUSTek, Coolpad, Digital Tech Inc., BLU
Speir Technologies	Google, Motorola Mobility, Apple, Samsung

Key Market Insights

- Patenting related to core 5G technology is dominated by large operating companies with robust R&D teams and budgets.
- 90% of all cellular subscriptions in North America (~400 million) are projected to include 5G service within 5 years.
- Companies regularly overestimate how many standard essential patents they own. Over 200,000 patents have been declared as essential to ETSI (a 4G/5G standards body).
- 5G patent litigation is expected to grow considerably beyond mobile handsets as consumer and industrial IoT becomes ubiquitous with expansion of 5G networks.