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New *iG*R study provides a cost estimate for the deployment of Fixed Wireless in the U.S.

Study also provides details on fixed wireless deployment options and variations, including cell radius and spectrum band

AUSTIN, Texas, March 20th, 2018 – Fixed wireless access (FWA) is an alternative to wired broadband Internet for the home and small business. In addition to being deployed as an alternative for wired broadband, FWA is also being used as a stepping stone to 5G NR-based mobile usage.

The fixed wireless access market has heated up over the last 18 months for two reasons. First, there has been rapid progress on 5G standards defined in 3GPP Release 15 (Rel-15) and the subsequent releases that will deliver additional 5G features and functions. Secondly, there is a need for spectrum, which is being driven by both ever-increasing mobile data demand and 5G capabilities, which will eventually deliver mobile networks capable of 1 Gbps throughput and millisecond latencies.

How much might it cost to deploy fixed wireless access services in the U.S? *iG*R, a market research consultancy focused on the wireless and mobile industry, has recently published a market study that analyzes this question and provides a cost model.

"Both mid-band spectrum and mmWave spectrum will likely be used for the first 5G fixed wireless broadband implementations," said Iain Gillott, president and founder of *iG*R. “Therefore, our cost model estimates how much it might cost to deploy FWA services to U.S. households and businesses in both of these spectrums. Our model also looks at the deployment cost for different population densities and distances from ‘downtown’.”

*iG*R’s new market study, **U.S. Fixed Wireless Deployment Cost Estimate: *Finding the niches***, provides a cost model that builds on several assumptions regarding feasibility and costs to estimate how much it might cost to deploy mid-band-based and mmWave-based services, using a Massive MIMO antenna system. The market study also provides a detailed discussion on fixed wireless, the mid-band and mmWave spectrum being used in the U.S., FWA deployment options, MIMO, as well as the significance of 3GPP-compliant versus non-3GPP-compliant FWA systems.

The following key questions are addressed in the new research study:

- What is millimeter wave?
- How will mid-band spectrum be used?
- What are the likely cell radius for the various frequencies?
- Why is millimeter wave important? How is it being used? How can it be used?
- How are Massive MIMO and mmWave related?
- What are the pros and cons to deploying mmWave? What are the challenges?
- How much might it cost to deploy mid-band-based and mmWave-based services?
- How do the costs vary for different deployment scenarios?
- How do costs vary for various household adoption rates and population densities?
- How do costs vary between 3GPP-compliant and non-3GPP compliant technologies?

The information in this market study will be valuable for:

- Mobile operators
- Microwave spectrum holders and operators
- Fixed wireless solution vendors
- Financial analysts and investors.

The new report can be purchased and downloaded directly from *iG*R's website at www.*iG*R-inc.com**.**

About *iG*R

*iG*R is a market strategy consultancy focused on the wireless and mobile communications industry. Founded by Iain Gillott, one of the wireless industry's leading analysts, in late 2000 as *iG*illottResearch, *iG*R is now in its eighteenth year of operation. *iG*R continuously researches emerging and existent technologies, technology industries, and consumer markets. We use our detailed research to offer a range of services to help companies improve their position in the marketplace, clearly define their future direction, and ultimately improve their bottom line.

*iG*R researches a range of wireless and mobile products and technologies, including: smartphones; tablets; mobile wearable devices; connected cars; mobile applications; bandwidth demand and use; small cell and het-net architectures; mobile EPC and RAN virtualization; 5G, DAS; LTE; VoLTE; IMS; NFC; GSM/GPRS/UMTS/HSPA; CDMA 1x/EV-DO; iDEN; SIP; macro-, pico- and femtocells; mobile backhaul; WiFi and WiFi offload; and SIM and UICC.

A more complete profile of the company can be found at www.igr-inc.com.