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New *iG*R study forecasts LTE and 5G RAN spending in the U.S., Europe and Asia Pacific

Study also discusses the challenges and opportunities the industry is facing as RAN evolves

AUSTIN, Texas, June 22nd, 2018 – The first part of the evolution to 5G involves the RAN (Radio Access Network) with the deployment of the first part of the 3GPP Release 15 standard called 5G NR (New Radio). The next step will be to deploy the new packet core and subsequent 3GPP releases. Historically, the majority of build and operating spending on the mobile network has been for the RAN and this is not expected to change as 5G is deployed.

5G RAN will also involve new spectrum, specifically in the mmWave and 3.5 GHz bands. While 5G is not defined by the spectrum used, *iG*R, a market research consultancy focused on the wireless and mobile industry, expects that 5G will eventually be deployed in all spectrum bands currently used today for LTE. RAN build spending will therefore continue until at least the middle of next decade, as the industry upgrades the current 4G LTE to 5G and implements new spectrum bands with 5G.

*iG*R has recently published a new market study that presents a summary of its RAN research, including build spending in the U.S., Europe and Asia Pacific.

"RANs are evolving as the industry moves to cloud RAN (C-RAN), deploys more small cells, transitions to virtualized solutions, and increases the use of off-the-shelf hardware and open RAN solutions," said Iain Gillott, president and founder of *iG*R. “This will significantly impact the amount spent on 5G RAN, the current vendors and the opportunities for new market entrants.”

*iG*R’s new market study, **Global RAN Infrastructure Spending Forecast, 2017 – 2027: *RAN in the U.S., Europe and Asia Pacific***, provides a 10-year forecast of RAN infrastructure build spending in the U.S., Europe and Asia Pacific. The study also discusses RAN, 3GPP standards that affect it, and the technologies that will enable RAN for 5G, such as massive MIMO and beamforming.

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

- What are the various 3GPP standards leading up to 5G and what are they likely to contain for the RAN?
- What is 5G? How is it defined and/or viewed right now? When will 5G be deployed?
- What are some of the goals and use cases for 5G?
- How will U.S. mobile operators get from their 4G LTE networks of today to tomorrow's 5G networks?
- What are the key RAN technologies that will enable 5G, such as Massive MIMO and beamforming?
- How big is the LTE and 5G RAN infrastructure opportunity in the U.S., Europe and Asia Pacific in the next ten years?
- How is the RAN infrastructure spending split between 4G and 5G in the U.S., Europe and Asia Pacific in the next ten years?
- What is the expected impact of eCPRI and other enhancements to the Radio-baseband interface?
- What is the expected impact of open RAN?
- Who are some of the major vendors that will support LTE and 5G RAN over the next ten years?

The information in this market study will be valuable for:

- Mobile operators
- Infrastructure OEMs
- Small cell product and solution vendors
- Financial and investment analysts.

The new market study 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; DAS; 5G; 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.