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Qualcomm, China Mobile Research Institute and Mobike Plan to Commence First of its Kind LTE IoT Multimode Field Trials in China

-- Qualcomm Technologies' MDM9206 LTE Modem Supporting Global Multimode Capabilities (eMTC/NB-IoT/GSM) Supports Mobility, Enhanced Connectivity and low Power Consumption for IoT Applications such as Mobike's Smart Bikes --

BEIJING, May 23, 2017 /PRNewswire/ -- Qualcomm Incorporated (NASDAQ: QCOM) announced today that its subsidiary, Qualcomm Technologies, Inc., plans to commence the first eMTC/NB-IoT/GSM (LTE Cat M1/NB1 and E-GPRS) multimode field trials in China, with China Mobile Research Institute (CMRI) and China's leading smart bike sharing company, Mobike. The field trials' plans contemplate making use of China Mobile's 2G/4G multimode network and Mobike's smart lock, supported by the Qualcomm Technologies' MDM9206 global multimode LTE modem for Internet of Things (IoT) applications. The LTE connectivity and integrated GNSS position-location capability in the MDM9206 LTE modem is designed to help Mobike customers accurately identify an available bike, accelerate the unlock process of the smart lock and assist with real-time management – all while providing Mobike with continuous monitoring of the bike's status. The trial between Qualcomm Technologies, Mobike and CMRI, marks an important step in the effort by leading wireless and consumer services companies to bring the benefits of global multimode LTE for IoT, to millions of users and large number of industrial enterprises.

In addition, the MDM9206 global multimode LTE modem together with Qualcomm Technologies' low-power Bluetooth solution is planned to be used in the smart Mobike Preferred Location (sMPL) platform to support sub-meter level positioning, helping Mobike monitor the real-time location and overall status of its bikes including quantity, position, and traffic information from different regions. This platform is also designed to provide operations personnel with smart instructions for the delivery, scheduling, operation and maintenance of the bikes.

"China Mobile Research Institute has been actively boosting the development of IoT and exploring new IoT business opportunities," said Madam Huang Yuhong, the DGM of China Mobile Research Institute. "This planned field trials with Qualcomm Technologies and Mobike will further expand the applications for LTE IoT (eMTC/NB-IoT) in areas such as smart bike sharing and smart travel. We will conduct cross-industry integration and innovation to boost ubiquitous IoT solutions and the smart IoT life by jointly working with the China Mobile 5G Joint Innovation Center, and taking full advantage of China Mobile's vast GSM network and technology leadership in eMTC/NB-IoT."

"We are committed to providing IoT-optimized solutions that address demands from our customers to bring a new range of applications and services built on the reliability, efficiency and global scale of LTE IoT cellular connectivity," said Way-Shing Lee, vice president, technology, Qualcomm Technologies, Inc. "Through this cooperation with China Mobile Research Institute and Mobike on the first multimode eMTC/NB-IoT field trial in China, we can showcase a highly connected and efficient system for a new IoT application such as Mobike's bike sharing platform."

"Mobike pioneered the world's first smart bike sharing platform, and we are committed to addressing the challenge of short-trips with innovative technologies and solutions and bringing bikes back to the city. Currently, more than 4.5 million smart bikes operate on the Mobike system, which are equipped with the exclusive, independently researched and developed smart locks. Using connectivity capabilities such as those of the MDM9206 LTE modem with integrated GNSS supporting GPS BeiDou and Glonass, Mobike has become one of the largest mobile IoT systems in the world," said Joe Xia, co-founder and CTO of Mobike. "Mobike is pleased to work with leading enterprises in global communications and IoT industries like Qualcomm Technologies and China Mobile Research Institute in order to deliver IoT applications and services for end users while taking full advantages of the latest technology breakthroughs."

The MDM9206 LTE modem is designed to support global Category M1 and NB1/GSM multimode. The IoT-optimized narrowband LTE technologies help the MDM9206 modem to support cost-efficient, low-power, low-bandwidth, multi-year battery life and greater coverage for the next-generation of IoT products and services as compared to previous LTE

generations. The MDM9206 LTE modem also provides leading-edge location performance, including an integrated A-GNSS solution, support for cellular and Wi-Fi positioning. The Cat M1 and NB1 LTE modes designed in the MDM9206 modem bring many enhancements and optimizations to LTE that will help reduce IoT device complexity for IoT platforms like Mobike with quicker time to commercialization of their products.

Additionally, Cat M1 and NB1/GSM multimode will enable IoT platforms such as Mobike to develop IoT products that can function in a diverse set of operator deployments worldwide, maximizing the products' global reach and scalability. The new technologies also can use existing LTE infrastructure and spectrum, coexisting with today's mobile broadband services, while providing a superior solution to proprietary technologies for low-power wide area networks.

About Qualcomm

Qualcomm's technologies powered the smartphone revolution and connected billions of people. We pioneered 3G and 4G – and now we are leading the way to 5G and a new era of intelligent, connected devices. Our products are revolutionizing industries, including automotive, computing, IoT, healthcare and data center, and are allowing millions of devices to connect with each other in ways never before imagined. Qualcomm Incorporated includes our licensing business, QTL, and the vast majority of our patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, all of our engineering, research and development functions, and all of our products and services businesses, including, our QCT semiconductor business. For more information, visit Qualcomm's [website](#), [OnQ blog](#), [Twitter](#) and [Facebook](#) pages.

About China Mobile Research Institute

China Mobile Research Institute (CMRI) is directly under China Mobile Communications Corporation (CMCC). The CMRI specializes in broad research and technology areas of Telecommunications and IT fields, including wireless access technology, future network technology, strategic research, service technology, Internet of things research, IT and Big Data, industry and market research, operational support, etc. Its mission is to become the engine to drive innovations within China Mobile and to be a world-class industry research lab contributing to the entire ICT industry

About Mobike

Mobike is the world's first and largest smart bike-sharing company. Its mission is to bring more bikes to more cities, using its innovative technology to make cycling the most convenient and environmentally-friendly transport choice for urban residents. Using specially designed bikes equipped with GPS, IoT chips and proprietary smart-lock technology, Mobike enables users of its smartphone app to find a bike near them and unlock it simply by scanning a QR code. After reaching their destination, the user parks the bike by the roadside and locks it, automatically making the bike available to other Mobike users nearby. The company officially launched its service in Shanghai in April 2016 and in less than a year since then has expanded the service to over 80 cities across China and internationally, operating nearly 4.5 million smart Mobikes. For more information, visit: mobike.com.

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