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Smartphone-Powered Future

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Abstract

With sales expected to reach nearly 8 billion units over the next five years, smartphones are not only ubiquitous, they are a major source of technology innovation worldwide. The massive popularity of smartphones, combined with rapid replacement cycles, is driving the pace of technology innovations that benefit many other high-tech devices, ranging from tablets, cars, smartwatches and health sensors, to robots and drones. Come and learn how mobile inventions are creating a wave of innovation that is shaping not only the evolution of wireless, but the future of the entire technology industry.



Biography

Matt Grob is executive vice president of Qualcomm Technologies, Inc., and chief technology officer. In this role, he is responsible for the oversight of Qualcomm's technical path, the coordination of R&D activities across the company, and the development of next-generation wireless technologies. He also directs the Company's broad portfolio of research projects with topics ranging from 3G HetNets to small cells. In addition, Mr. Grob leads Qualcomm Research and Qualcomm Corporate Engineering Services, and he is a member of Qualcomm's executive committee.

Mr. Grob joined Qualcomm in 1991 as an engineer. His contributions include system design, standardization and project leadership for programs including the early CDMA data services; the Globalstar satellite based mobile voice and data system and later 1x EV-DO high-speed wireless Internet access technology. His focus on cellular data services led to his assignment as co-project engineer for the HDR (High Data Rate) program starting in 1997. This new high-speed Internet access technology became standardized as 1x EV-DO and was commercialized throughout the world. Innovations and techniques from these programs also helped UMTS' evolution to HSPA. In 1998, Mr. Grob was promoted to lead the Company's R&D system engineering group and in 2006, he became in charge of Qualcomm Research.

Matt Grob holds a Master of Science in electrical engineering from Stanford University and a Bachelor of Science in electrical engineering from Bradley University. He is a member of the IEEE and holds more than 70 patents.