



Welcome and 5G Summit Overview

Debabani Choudhury Intel Labs

IEEE 5G Summit, Honolulu, HI June 5-6, 2017











- A Successful Collaboration Between two IEEE Societies:
 - MTT-S and ComSoc
- Covers Various Aspects of Emerging 5G Technologies:
 Spectrum, Fog Computing, Network, PHY, Architecture,
 System, Antennas, Circuit, Test and Measurement
- Live Streaming of the two day event by IEEE TV.
 - Check back with IEEE.tv for On Demand videos





Acknowledgement



- IMS2017 5G Summit Organizing Committee:
 - Debabani Choudhury, Intel Labs
 - Doug Zuckerman, Vencore Labs
 - Joy Laskar, Maja Systems
 - Tim LaRocca, NGC
 - Ashutosh Dutta, 5G Initiative and AT&T
- Wayne Shiroma, IMS2017 Chair
- Amanda Scacchitti, Elsie Vega, Nannette Jordan, Monte Watanabe,
 Heather Sweeney, Adam Greenberg, Rob Fish
- Patronage by Keysight and IEEE 5G Initiative
- Stephen Esker, Brad Kloza, IEEE.tv

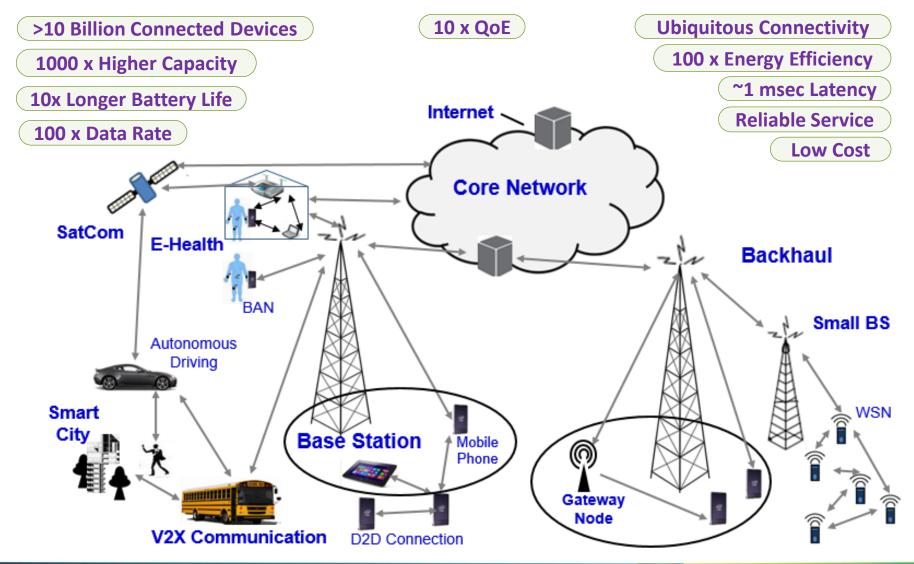






5G Landscape: Some Key Metrics and Targets











IEEE 5G Summit



^	Agerida for Day - 1
13:00-13:05	Welcome Address and 5G Summit Overview Debabani Choudhury, Intel Labs
13:05-13:35	Keynote: Fog Computing, its Applications in Industrial IoT, and its Implications for the Future of 5G Flavio Bonomi, Nebbiolotech
13:35-13:55	5G: New Spectrum, More Security and Opportunities for New Ideas Henning Schulzrinne, FCC-CTO / Columbia University
13:55-14:15	DOCOMO's 5G Trials Using Variety of Spectrum Bands Yoshihisa Kishiyama, NTT-DOCOMO
14:15-14:35	Living on the Edge – How 5G is Going to Enable the Medical Internet of Things Big Time Christoph Thuemmler, Edinburgh Napier Univ., UK
14:35-14:45	Coffee Break
14:45-14:50	5G Initiative Overview Ashutosh Dutta, IEEE 5G Initiative Co-Chair and AT&T
14:50-15:10	5G Journey: Path Forward Vida Ilderem, Intel Labs
15:10-15:30	Channel Modeling for 5G mmW Systems Andreas F. Molisch, University of Southern California
15:30-15:50	Full Duplex Wireless: From Fundamental Physics and ICs to Complex Systems, Networking Harish Krishnaswamy, Columbia University
15:50-16:30	Panel Session: 5G Start Up Ecosystem–Network to Components

Moderator: Joy Laskar, Maja Systems;



Arogyaswami Paulraj, Stanford University; Nitin Jain, Anokiwave; Khurram Sheikh, Kwikbit



IEEE 5G Summit Agenda for Day - 2



13:00-13:05	Welcome and Overview on Day - 2
	Debabani Choudhury, Intel Labs and Ashutosh Dutta, AT&T

- 13:05-13:35 **Keynote: Emerging Research Tracks in Massive MIMO**Arogyaswami Paulraj, Stanford University
- 13:35-13:55 **Massive MIMO in 3GPP: from LTE to New Radio**Amitava Ghosh, Nokia Bell Labs
- 13:55-14:15 **Vehicle-to-X Communication for 5G A Killer Application of Millimeter Wave**Robert Heath, UT Austin
- 14:15-14:35 Advanced Multicarrier Waveforms for 5G and Beyond Hanna Bogucka, Poznan University of Technology
- 14:35-14:45 Coffee Break
- 14:45-14:50 Standardization of 5G-Related Technologies in IEEE

 Robert Fish, IEEE ComSoc VP Industry Standards and Activities / Princeton University
- 14:50-15:10 Low Complexity Reflector Antenna Array (RAA) Architecture Ali Sadri, Intel
- 15:10-15:30 **RFIC/CMOS Technologies for 5G, mmW and Beyond**Ali Niknejad, UC Berkeley
- 15:30-15:50 **5G Radio Design for Mobile Products** Kamal Sahota, Qualcomm
- 15:50-16:30 Panel Session: 5G Test and Measurements
 Moderator: Kate Remley, NIST
 Malcolm Robertson, Keysight; Jason White, NI;
 Chris Scholz, Rohde Schwartz; Jon Martens, Anritsu



