



# IEEE COMSOC TECHNICAL ACTIVITIES AND INDUSTRY OUTREACH

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By Adam Greenberg

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# Green ICT Initiative

## ► Objectives:

- Foster inter-Society collaboration to build a holistic approach to sustainability
- Diversify IEEE membership through outreach to non-traditional IEEE communities
- Grow IEEE's influence and visibility in international forums

## ► Desired Outcomes:

- Establish new publications to promote multidisciplinary approaches to Green ICT Metrics in IEEE fields
- Establish or enhance conferences and workshops to share knowledge about Greening of/by ICT
- Develop IEEE standards to formalize IEEE expertise and leadership in tangible ways
- Develop training and awareness material to improve IEEE member knowledge and engagement
- Engage broader Green ICT community through a rich content portal and Technical Community

# Green ICT Initiative

## ▶ YTD Accomplishments:

- Greening through ICT Summit held in Paris 10/17; producing whitepaper on challenges and solutions for developing sustainable ICT products and infrastructure
- Three working groups defined to develop standards from 9 PARs; potential to productize “Green Label” certification based on compliance
- First Transactions issue published 3/17; ComSoc BoG approved Phase 1 proposal for Sustainable ICT Magazine
- Increased engagement: community membership up nearly 13% YTD; monthly web sessions running 2-3 times higher than at this time in 2016.
- Training and awareness material includes “Designing the Green Internet” (ComSoc course); “Greening Cloud & Virtualised Communication Networks” (GLOBECOM 2017 tutorial)

## ▶ Next Step:

- Finalize and operationalize transition plan (ComSoc, IES are current investors)
- Rebrand from “Green ICT” to “Sustainable ICT”

# IoT Initiative

## ▶ Objective and Desired Outcome:

- To serve as the gathering place for the global technical community working on the Internet of Things; to provide the platform where professionals learn, share knowledge, and collaborate on this sweeping convergence of technologies, markets, applications, and the Internet, and together change the world.

## ▶ YTD Accomplishments:

- Transitioned from FDC into a community of 19 societies/councils/OU's within TAB, with ComSoc as lead sponsor
- Membership in Internet Talent Consortium for stronger industry interaction
- Initial participation in target conferences (curriculum workshop at ICAASP2017, panel participation at OFC2017, three-part track programming at CQR2017, Workshop at QRS2017; Vertical and Topical Summit for Agriculture at ICC.)
- IoT Magazine Phase 1/2 proposal approved
- Community membership up 17% YTD
- IEEE Fourth World Forum on Internet of Things (WF-IoT) scheduled for Feb. 5-8, 2018 in Singapore

# IoT Initiative

## ▶ Next Steps:

- Complete and populate volunteer structure, including IoT Advisory Council
- Execute on WF-IoT 2018; choose site for 2019 (EMEA)
- Seek additional funding, including long-term corporate partners

# 5G Initiative

## ▶ Objective and Desired Outcome:

- To aggregate information about the various endeavors occurring worldwide in order to provide a community of professionals in industry, academia, and government working to solve the challenges associated with 5G.

## ▶ YTD Accomplishments:

- Kicked off a roadmapping effort aimed at establishing a dominant reference for future wireless designs independent of specific standards-defining organizations
- Whitepaper as first embodiment of this roadmap has been completed with ~1K downloads
- 5G Summit Honolulu, organized jointly with MTT-S, held June 5-6 at IMS with more than 260 in-person paying customers and 60 streaming viewers
- Dallas 5G Summit held June 8 in partnership with TIA; additional collaboration under consideration
- 15 5G Community Events were organized in 11 countries; goal is to maximize visibility and gain outreach leads while minimizing financial exposure at events that do not charge market prices
- Model is being expanded with upcoming IEEE Summit on Communications Futures covering optical networking, Fog computing, IoT, and cybersecurity in addition to 5G (January 19, 2018, Honolulu)

# Industry Speakers/Panelists

- ▶ Airbus Group
- ▶ Alcatel Lucent
- ▶ Altera
- ▶ Altice
- ▶ Amdocs
- ▶ AT&T
- ▶ Bell Canada
- ▶ Cadence
- ▶ China Mobile
- ▶ Ciena
- ▶ Cisco
- ▶ Deutsche Telekom
- ▶ Ericsson
- ▶ Facebook
- ▶ Google
- ▶ Huawei
- ▶ IBM
- ▶ Integrated Device Technology
- ▶ Intel
- ▶ Keysight Technologies
- ▶ National Instruments
- ▶ NEC
- ▶ Nokia
- ▶ NTT DOCOMO
- ▶ Qualcomm
- ▶ Rohde & Schwarz
- ▶ Samsung
- ▶ Sprint
- ▶ Telecom Italia
- ▶ Telefonica
- ▶ Telus
- ▶ T-Mobile
- ▶ Toshiba
- ▶ Toyota
- ▶ Vodafone
- ▶ Volkswagen
- ▶ XILINX

# SDN, Big Data

- ▶ To be integrated in 2018
- ▶ Together, these communities have >12,500 members
- ▶ Additional revenue, membership, and volunteer opportunities

# Certification and Professional Education

- ▶ Customer satisfaction trending upward
- ▶ ComSoc honored with IEEE EAB Society/Council Professional Development Award
- ▶ Exploring ways to maintain leadership position
  - Position relevant WebEx courses around conferences, magazine special issues
  - Bundle training with like products (sponsored tutorials, webinars) covering subjects of interest
  - Explore new ways to deliver training
  - Offer live training in different time zones
  - Explore partnerships (third parties and within IEEE)
  - Concerted effort to refresh catalog
  - Reviewing/refreshing WCET exam

# Questions?