# Baltimore Avenue Connected Communities: Smart Roundtable

**April 25, 2019**

**9:30 am – 11:00 am**

**College Park Airport**

**1909 Corporal Frank Scott Drive College Park, MD 20740**

**Guest: David Corman, Program Manager,** [NSF Smart and Connected Communities](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505364) **(S&CC)**

Communities in the United States (US) and around the world are entering a new era of transformation in which residents and their surrounding environments are increasingly connected through rapidly-changing intelligent technologies. This transformation offers great promise for improved wellbeing and prosperity but poses significant challenges at the complex intersection of technology and society. The goal of the NSF Smart and Connected Communities (S&CC) program solicitation is to accelerate the creation of the scientific and engineering foundations that will enable smart and connected communities to bring about new levels of economic opportunity and growth, safety and security, health and wellness, and overall quality of life. S&CC is a cross-directorate program supported by NSF’s Directorates for Computer and Information Science and Engineering (CISE), Education and Human Resources (EHR), Engineering (ENG), and Social, Behavioral, and Economic Sciences (SBE).

## Agenda

1. [NSF SCC 2019 Program Overview](https://www.nsf.gov/pubs/2019/nsf19564/nsf19564.htm) - David Corman 9:30 – 10:30 am
2. Local testbed creation best practices - subcommittee potential 10:30 – 10:45 am
3. Updates, wrap up, networking 10:45 - 11:00 am

## Members/Participants

Jurisdictions/Municipal

* + Nicole Ard – City of Greenbelt
	+ Steve Beavers - City of College Park
	+ Kerstin Harper – Town of Berwyn Heights
	+ Roslyn Johnson – Maryland National Capital Park and Planning Commission, Parks & Recreation Prince Georges County
	+ Emmett Jordan – City of Greenbelt
	+ Brittany Lassiter - Maryland National Capital Park and Planning Commission, Parks & Recreation Prince Georges County
	+ John Lestitian – Town of Riverdale Park
	+ Tracey Nicholson – City of Hyattsville
	+ Duane Prophet - Maryland National Capital Park and Planning Commission, Parks & Recreation Prince Georges County
	+ Jake Rollow – City of Hyattsville

Industry/Organizations

* + Bari Anderson – Tessco Technologies
	+ Nick Hamilton - Cisco
	+ Eric Moberg – ICF (consultant to Pepco)
	+ Scott Pomeroy – Smart City Media
	+ Shannon Redd – Cisco
	+ Alexander Seleznyov - KPMG
	+ Joseph Sexton – terraPulse, Inc.
	+ Scott Tjaden – Pepco
	+ Tami Watkins – Pepco

UMD

* + Gloria Aparicio Blackwell – Office of Community Engagement
	+ John Baras – Institute for Systems Research, Electrical and Computer Engineering
	+ Cynthia Baur – School of Public Health, Horowitz Center for Health Literacy
	+ Avinder Bhogal - Engineering and Energy, Facilities Management
	+ Elisabeth Bonsignore – College of Information Studies
	+ Tara Burke – Smart Cities Initiative, National Center for Smart Growth and iSchool
	+ Qingbin Cui – Civil and Environmental Engineering
	+ Danielle Curet – National Center for Smart Growth
	+ Sevgi Erdogan - National Center for Smart Growth
	+ Junchuan Fan – Department of Geography
	+ Andrew Fellows – Campus Community Connection, Smart Cities Initiative
	+ Vanessa Frias-Martinez – College of Information Studies
	+ Steven Gabriel – Mechanical Engineering
	+ Kristen Gladsky – Foundation Relations
	+ MaryAnn Ibeziako – Engineering and Energy, Facilities Management
	+ Benjamin Kinard - Pre-College-Program in UG Studies
	+ Gerrit Knaap – National Center for Smart Growth
	+ Tracy Lee –Corporate and Foundation Relations
	+ Dave Levin – Computer Science
	+ Ira Levy – Office of the Sr. Vice President for Academic Affairs & Provost
	+ Arefeh Nasri - National Center for Smart Growth
	+ Lucien Parsons – MAVRIC and Vice President for Research Office
	+ Tejbir Phool - Maryland Technology Enterprise Institute
	+ Sameer Popat – Office of Innovation and Economic Development
	+ Neil Sehgal – Health Policy and Management
	+ Michael Schade – Center for Advanced Transportation Technology Lab
	+ Steve Sin – START, National Consortium for the Study of Terrorism and Responses to Terrorism
	+ Rikin Thakker – Master’s in Telecommunications program
	+ Le-Marie Thompson – School of Business
	+ Susan Winter – College of Information Studies
	+ James Wolfe – DIT, Mid-Atlantic Crossroads
	+ Chengeng Xiong – Civil and Environmental Engineering

**Meeting Minutes**

David Corman’s Presentation

* + NSF funds “fundamental science” research
	+ $8B budget, 93% of which goes to universities in the form of grants
	+ NSF S&CC program an outgrowth of Cyber Physical Systems (CPS) Program, started in 2008
	+ SCC is a very competitive program
	+ Projects must incorporate integrative research – and community involvement
	+ Not all the money has to go to universities, can go to municipalities to help them overcome the costs of technology integration
	+ Plan to fund $42M worth of projects this fiscal year
	+ Successful proposals should consider scalability/applicability of the solution to other population densities/geographic areas
	+ Seriously consider your research questions & hypotheses
	+ Carefully consider how you plan to measure community impact. What does success look like? Where do you want the community to be in 4 years & how are you going to measure your progress toward that?
	+ Abstracts of previous projects funded are online: <https://www.nsf.gov/awardsearch/advancedSearchResult?ProgEleCode=033Y&BooleanElement=Any> [&BooleanRef=Any&ActiveAwards=true&#results](https://www.nsf.gov/awardsearch/advancedSearchResult?ProgEleCode=033Y&amp;BooleanElement=Any&amp;BooleanRef=Any&amp;ActiveAwards=true&amp;&amp;results)

Q & A for David

1. For the pie chart of previously funded projects, should we go for the big slices because that’s where the money is, or should we try to expand the smaller slices? Portfolio balance is of interest to NSF; big slices represent the domains NSF is interested in, but compelling proposals are always competitive. Innovative proposals that consider public safety have been uncommon.
2. Small or large project team? Many projects are one institution & one community, but some teams are several institutions & several communities

Rikin Thakker on Smart Cities testbed

* + Desire to put together small subcommittee to research what other universities have done, best practices, and plan the implementation of a pilot project here
	+ Many applications of 5G are currently being considered
	+ 5G could set the standard of doing research in the smart cities area
	+ 2-phase standardization process not yet complete – Phase 1 is complete, phase 2 will be complete in 2020
	+ 3M new jobs planned to be created in 5G in the next 7 years
	+ 5G readiness: FCC issued small-cell regulations, also spectrum, but do cities & local governments understand how the 5G small cells will impact them?
	+ For any smart cities project, you must have the underlying communication structure
	+ Please contact Tara Burke if you are interested in participating.

Next Roundtable: Thursday, June 6, 2019 from 9:30-11 am; theme = Researchers / Municipalities community needs brainstorming