

NITRD WSRD SSG Workshop II: Federal Government and Private Sector Collaboration on Research Development, Experimentation, and Testing of Innovative Spectrum Sharing Technologies

The Wireless Spectrum Research and Development Senior Steering Group (WSRD SSG) was established in 2010 to assist the Secretary of Commerce in creating and implementing a plan to facilitate research, development, experimentation, and testing to explore innovative spectrum-sharing technologies. Such an effort was called for by the June 28, 2010, *Presidential Memorandum: Unleashing the Wireless Broadband Revolution*. Some 16 agencies participate in the WSRD SSG, which is convened under the auspices of the NITRD Program. The group is co-chaired by Mr. Byron Barker (National Telecommunications and Information Administration) and Dr. Andrew Clegg (National Science Foundation).

The dramatic rise of radio frequency-based applications has sparked a sense of urgency among federal users, commercial service providers, equipment developers, and spectrum management professionals on how best to manage and use the limited radio spectrum. During WSRD's first Workshop held at Boulder, CO, on July 26, 2011, the wireless industry participants indicated that a national wireless test environment is critical to validating spectrum sharing technology under realistic conditions and they emphasized the value of a spectrum sharing testing environment for a diversity of users. Spectrum sharing technology experimentation in controlled environments was cited as being key enabler to future wireless innovation. Wireless industry participants also emphasized the positive outcomes from such an environment that will strengthen trust among stakeholders while providing technical support for national spectrum sharing policy and rule making.

To further the federal/industry collaboration on advancing innovative spectrum sharing technologies, the WSRD-SSG will be hosting a second workshop on Jan 17-18, 2012, at the Berkeley Wireless Research Center in Berkeley, CA. This workshop is an opportunity for technical experts and interested stakeholders from industry, government, and academia to collaboratively develop a needs statement and the capabilities required for a national level spectrum research, development, experimentation, and demonstration environment. WSRD will present the preliminary results from an inventory of federal wireless test facilities and describe their stated mission and existing capabilities. Participants will be encouraged to engage in determining which infrastructure, toolsets and, facility characteristics have the greatest benefit to enhancing spectrum sharing innovation. The workshop will discuss technology impacts on multiple sectors due to spectrum sharing experimentation and what differentiated payoffs, if any, can result from national facilities, consistent with the Federal Government's role in sponsoring "high-risk high-reward" research innovation and experimentation. This workshop will also discuss potential collaborative engagement frameworks between Federal and industry stakeholders in the development of a national spectrum testing/demonstration environment.

The workshop will be co-chaired by Mr. Joseph Heaps (Department of Justice) and Dr. Rangam Subramanian (Department of Energy, Idaho National Laboratory), and will serve as the technical leads for the workshop. Ms. Wendy Wigen (National Coordination Office) leads the logistical arrangements for the workshop.

The workshop is being held during Jan 17-18, 2012, at the [Berkeley Wireless Research Center, \(BWRC\) Berkeley, CA](#). Breakfast, lunch, and refreshments will be provided for the participants. Space is limited. Researchers and technology experts interested in attending should contact Wendy Wigen (wigen@nitrd.gov) for more information.