

Wireless Spectrum Research and Development (WSRD)
Workshop IV
*Promoting Economic Efficiency in Spectrum Use:
the economic and policy R&D Agenda*

The Wireless Spectrum R&D Senior Steering Group ([WSRD SSG](#)) was formed in 2010 in response to the Presidential Memorandum, [Unleashing the Wireless Broadband Revolution](#). The group was called upon to assist the Secretary of Commerce in the creation and implementation of a plan to facilitate research, development, experimentation, and testing ...to explore innovative spectrum-sharing technologies...” Since that time, the WSRD SSG has conducted a series of workshops to explore what research is currently underway, what type of testing environments need to be made available, and to gather input from the larger research community on establishing research priorities. Earlier workshops focused on the technical research agenda. This fourth workshop will focus on the complementary multidisciplinary economic and policy research necessary to effect improvements in the management and use of spectrum resources.

The goal of this workshop is to identify economic and policy research that will *facilitate the commercialization of wireless system technologies, business models, and institutional/policy frameworks that will align incentives and ease roadblocks to promoting progress* toward maximizing the economic benefit from our collective use of wireless systems and the radio frequency spectrum on which such systems depend.

The two-day workshop will be hosted at MIT on April 23-24. The first day will be devoted to gathering stakeholder perspectives on what is working, what challenges remain, and what changes would help accelerate the adoption of advanced wireless technologies. The second day will focus on developing the multidisciplinary economic and policy research agenda to facilitate these changes. We anticipate having research sessions on (1) spectrum valuation, economic impact assessment, and market metrics; (2) empirical analysis of government spectrum sharing and case studies; (3) lessons learned for implementation and design of spectrum management frameworks and markets; and (4) selection of special topics which may address issues such as spectrum usage by public safety systems, optimal design of femtocell ecosystems, or enforcement of spectrum usage rights.

Workshop attendance will be by invitation only, and every effort will be made to get the best cross section of academic, industry, and government stakeholders for session I, and economic and policy researchers for session II. The workshop will be available to the public over webcast and will result in a workshop summary report to the White House Office of Science and Technology Policy.