



Wireless Innovation Forum Members Designate their Top 10 Most Wanted Wireless Innovations

Innovation List will drive Future Activities

For Immediate Release

Washington, DC, 4 October 2011 – [The Wireless Innovation Forum](#) (SDR Forum version 2.0), a non-profit organization dedicated to driving the future of radio communications and systems worldwide, announced today the release of the inaugural “[Top 10 Most Wanted Wireless Innovations](#)” list. This list represents the collective view of the Forum’s 100+ member organizations on innovations, either technical, business or regulatory, that if realized would address key shortcomings in existing wireless communications systems.

To create this innovation roadmap, the Forum’s Roadmap Committee sought participation from the different wireless industry stakeholders, including users, radio manufacturers, software and hardware component providers, network operators, and spectrum regulators to identify perceived or real shortcomings in the wireless domain. From the input received, the Committee selected the following as the initial “Top 10 Innovations” that have the most potential of improving the wireless communications experience. They identify issues related to software implementations, radio equipment, network and systems, and regulatory. In no order of priorities:

- Innovation #1: Techniques for Efficient Software Porting Between Heterogeneous Platforms
- Innovation #2: Generic Development Tools for Heterogeneous Processors
- Innovation #3: Certification Process for Third Party Waveform Software
- Innovation #4: Low Cost Wide Spectral Range RF Front-End (Multi-octave Contiguous) (Tx,Rx)
- Innovation #5: Techniques to Minimize Power Amplifier Spectral Regrowth in Non-contiguous Spectral Environment
- Innovation #6: High Performance Power Efficient GPP
- Innovation #7 Increase Communications Time on Battery Charge by an Order of Magnitude
- Innovation #8: Means of Coverage Extension – Maintaining Communications in Emergencies and After Disasters
- Innovation #9 Interference Mitigation Techniques
- Innovation #10: Flexible Regulatory Framework for Temporary, Cooperative and Opportunistic Access

“The innovations selected by the Forum’s members may not all lead to patents or intellectual propriety if realized”, stated Claude Bélisle of the [Communications Research Centre](#) and Chair of the Roadmap Committee. “They will all, however, serve the community in addressing emerging wireless communications requirements through increased system performance for the users, improved responsiveness and deployment time of standardized families of products, technologies, and services, and reduced total life cost of ownership.”

The Forum’s Roadmap committee intends to evolve the Top 10 List over time, as per the Forum’s 2012 [Operations Plan](#). Innovations will be replaced as the overall needs of the advanced wireless community are met and evolve. The committee will also work to promote the list to relevant wireless research and development organizations and regulatory bodies around the world, and use the list as a basis for establishing new internal [member projects](#).

You can learn about research addressing these innovations and more at the Winn Forum's annual Conference on Communications Technologies and Software Defined Radio ([SDR'11 - WInnComm](#)). The premier event for the reconfigurable radio community, SDR'11-WInnComm will be held 29 November to 2 December in Washington, D.C. Attracting more than 400 registered delegates, including investors, commercial network operators, radio manufacturers, system integrators, government procurement officials, regulators, engineering service providers and consultants from over 22 different countries, SDR'11-WInnComm is the only event devoted to the advancement of reconfigurable radio technologies from research through deployment. Additional information on the SDR'11-WInnComm program, workshops and tutorials can be found at <http://conference.WirelessInnovation.org>

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About the Wireless Innovation Forum

Established in 1996, The Wireless Innovation Forum (SDR Forum Version 2.0) is a non-profit mutual benefit corporation dedicated to driving technology innovation in commercial, civil, and defense communications worldwide. Members bring a broad base of experience in Software Defined Radio (SDR), Cognitive Radio (CR) and Dynamic Spectrum Access (DSA) technologies in diverse markets and at all levels of the [wireless value chain](#) to address emerging wireless communications requirements. To learn more about The Wireless Innovation Forum, its meetings and [membership benefits](#), visit www.WirelessInnovation.org.

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