# WinnForum Updates Top 10 Most Wanted Wireless Innovations to Include Context Aware Cognitive Radio

WASHINGTON, DC, USA, October 1, 2013 /EINPresswire.com/ -- List represents the collective view of the Forum's member organizations on innovations, either technical, business or regulatory, that if realized would address key shortcomings in existing wireless communications systems.



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 a revision of its "Top 10 Most Wanted Wireless Innovations" list to include Context Aware Cognitive Radio. This list represents the collective view of the Forum's member organizations on innovations, either technical, business or regulatory, that if realized would address key shortcomings in existing wireless communications systems.

The inclusion of "Context Aware Cognitive Radio" as a wanted innovation replaces "Means of Coverage Extension" in the List. This innovation requires methods, tools, architectures and languages that the Forum believes need to be developed to enable cognitive radio systems to incorporate contextual reasoning into their decision processes. By adapting to dynamic contexts, cognitive radio algorithms can be automatically matched to changing conditions, wireless network performance can be significantly improved, end user experience enhanced, and network management time and costs reduced.

"Recognizing that coverage extension can be addressed as a use case of context aware systems, the members of Forum made this change to encourage global research into exploiting a wider scope of information in a cognitive radio's decision processes," said Lee Pucker, CEO of the Wireless Innovation Forum. "Within the Forum, this important area is currently being explored by the Cognitive Radio Work Group." A press release on the new project can be found here: http://groups.winnforum.org/press_room.

The entire Top Ten list follows:

• Innovation #1: Techniques for Efficient Software Porting Between Heterogeneous Platforms

and Generic Development Tools for Heterogeneous Processors
- Innovation #2: Certification Process for Third Party Waveform Software
- Innovation #3: Receiver Performance Specifications
- 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: Increase Communications Time on Battery Charge by an Order of Magnitude
- Innovation #7: Context Aware Cognitive Radio
- Innovation #8: Interference Mitigation Techniques
- Innovation #9: Standardized Computer Interpretable Policy Language for Cognitive Radio
- Innovation #10: Flexible Regulatory Framework for Temporary, Cooperative and Opportunistic Access

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. The initial list was voted on and approved by the Forum membership October 2011 and became one of the Forum's most downloaded documents from the Forum's public document library over the next year.

In support of the Forum's Strategic Plan, the Roadmap Committee maintains this list, adding or subtracting innovations as required to serve the overall needs of the advanced wireless community. The intention of the Forum is to promote this list across the advanced wireless community, and to support research and development activities addressing the targeted innovations both within the Forum membership and in partner organizations. To contribute to the conversation and provide your input to the list, visit
http://groups.winnforum.org/winnforum_top_ten.

To download the document go to: http://groups.WInnForum.org/Top_Ten_Innovations.

To become involved with the Forum in shaping the future of advanced wireless technologies, and learn more about membership benefits, go to:
http://www.WirelessInnovation.org/Member_Benefits.

Established in 1996, The Wireless Innovation Forum (SDR Forum Version 2.0) is a non-profit mutual benefit corporation dedicated to advocating for spectrum innovation, and advancing radio technologies that support essential or critical 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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