

# TerraEchos Licenses Navy Technology

TerraEchos Inc., USA, has licensed the Bayesian Data Reduction Algorithm (BDRA) and foundational patents from the U.S. Naval Undersea Warfare Center to enhance the real-time signal analysis and classification capabilities of the Kairos technology platform.

Founder and CTO Dr. Alex Philp, TerraEchos said that the Navy's Bayesian algorithm is a very powerful statistical methodology for classification of digital signals. "The BDRA adds value to the Kairos solution by enabling it to better analyse specific data and determine what it is – instantly."

Dr. Philp announced the BDRA licensing agreement at the Esri International User Conference in San Diego, USA, where the company is providing live demonstrations in booth D125 today through Thursday, 26 July 2012.

Kairos is a real-time analytical processing platform that leverages IBM InfoSphere Streams technology to consume and instantly analyse enormous volumes and varieties of data streaming at high speed from multiple sources. Kairos filters and extracts actionable information in a real-time workflow to meet mission critical defence and intelligence requirements.

For example, TerraEchos utilised the analytical power of the BDRA algorithm for classifying digital acoustic signal as part of a joint US Navy – Department of Energy security program. Working to integrate the BDRA as a Kairos extension, the Kairos "discovery engine" can now analyse unstructured audio data streaming at rates of 300 megabits per second and classify these "sounds" in 1/14th of a second. What used to be an out-of-process calculation taking minutes is now a real-time process in compute memory, allowing to get the answers they need on the spot, while the intelligence is still meaningful, flowing continuously.

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