



## **Pattern and Dynexus Collaborate to Advance Battery Diagnostics using Pattern Discovery**

***Two cutting edge technology companies working together to maximize the performance, safety, and overall lifetime value of advanced batteries.***

REDMOND, WA, AND LOVELAND, CO, MAY 30, 2023 -- Pattern Computer®, Inc. (Pattern) a Seattle-area AI company bridging the current gaps in machine learning to deliver breakthrough discoveries using its proprietary Pattern Discovery Engine™, and Dynexus Technology, Inc. (Dynexus) a leader in battery sensing solutions and data-driven battery intelligence, are excited to announce a collaborative Memorandum of Understanding (MOU) to integrate Dynexus Technology's actionable battery performance and health sensors with Pattern Computer's next generation of machine learning and artificial intelligence.

The collaboration will initially be focused on lithium-ion cell quality control and end-of-line verification, as well as module and pack diagnostics and prognostics, enabling multiple opportunities to reduce total cost and improve quality control, safety, and reliability of battery systems.

To achieve today's aggressive electrification goals, battery assets and the platforms they power must be safe, reliable, affordable, and sustainable. Working together, Pattern and Dynexus will enable efficient markets to safely buy and sell "retired" mobility battery assets across multiple applications, reducing waste and prolonging battery service life.

The Pattern team has developed a new, innovative, end-to-end system, the Pattern Discovery Engine™, (PDE™) for generating new hypotheses and insights from highly dimensional data. The PDE™ discovers novel patterns in complex data that cannot be discovered using conventional analytical techniques, algorithms, or tools.

Results are displayed in clear, human readable format, and in a manner that illustrates that Explainable AI (XAI) is real, functional, and ready for use in making complex diagnostic and prognostic decisions.

Pattern Computer's PDE™ with integrated XAI capabilities is the first and only analytical platform that transforms the AI "Black Box" into a Glass Box and makes all the predictions and insights completely transparent.

“We are looking forward to working with Dynexus to transform the utility and life cycle profiles of lithium batteries, all as part of a larger commitment by Pattern to bring our Pattern Discovery Engines and Explainable AI to the most important problems challenging the world today. Together, our two companies can make a real difference in the safety and reliability of the batteries behind the next-generation electrical revolution,” said Mark R. Anderson, Chair and CEO of Pattern Computer.

Dynexus Technology’s award winning Inline Rapid Impedance Spectroscopy (iRIS®) sensors generates near real-time, rich, frequency-based battery data that provide information about the state of the battery physico-chemistry. The Dynexus sensor “looks” inside the battery and generates a “fingerprint” or signature that uniquely describes a battery’s health, stability, and degradation.

The award-winning iRIS® technology was developed by the US Department of Energy’s Idaho National Laboratory (INL) and Montana Technological University. Dynexus licensed the technology across all domains to acquire worldwide rights to the R&D 100 award-winning sensor.

“We are excited to work with the global leader in pattern discovery to enable advanced diagnostics and prognostics for lithium-ion batteries,” said David Sorum, CEO of Dynexus Technology. “Together with Pattern Computer, we can unlock the power of battery impedance data ensuring that batteries can be trusted as a safe, predictable and sustainable commodity throughout their lifecycle, from formation through recycling.”

The foregoing contains statements about the Pattern Computer’s future that are not statements of historical fact. These statements are “forward looking statements” for purposes of applicable securities laws and are based on current information and/or management’s good faith belief as to future events. The words “believe,” “expect,” “anticipate,” “project,” “should,” “could,” “will,” and similar expressions signify forward-looking statements. Forward-looking statements should not be read as a guarantee of future performance. By their nature, forward-looking statements involve inherent risk and uncertainties, which change over time, and actual performance could differ materially from that anticipated by any forward-looking statements. Pattern Computer undertakes no obligation to update or revise any forward-looking statement.

## **About Pattern Computer**

Pattern Computer uses its proprietary Pattern Discovery Engine™ to solve the most important and most intractable problems in business and medicine. Its proprietary mathematical techniques can find complex patterns in very-high-order data that have eluded detection by much larger systems.

While the company is currently applying its computational platform to the challenging field of drug discovery, it is also making pattern discoveries for partners in other sectors, including

additional biomedical research, materials science, aerospace manufacturing, veterinary medicine, air traffic operations, and finance.

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### **About Dynexus Technology**

Founded in 2015 and headquartered in Loveland, Colorado, Dynexus Technology is a leader in data-driven battery intelligence sensors. With the goal of creating a safer and smarter electrified world, Dynexus Technology is on a mission to provide efficient and accurate in-line battery data for advanced diagnostic and prognostic solutions. Our vision is to optimize the value of electrified platforms, and ensure they perform safely and predictably throughout their lifecycles. For more information, please visit [www.dynexustech.com](http://www.dynexustech.com).

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