SIMULATION SPECIAL

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The Navigator for Enterprise Solutions

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ProModel Simulation Based Decision Support



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Provode Simulation Based

Decision Support

By Aaron Pierce

hallenged with making better decisions faster in an environment of constant change, today's enterprises are turning to simulation as an enabling platform for decision support. The ability to capture the behavior of complex processes, then quickly create and run alternative scenarios enables enterprises to move from reactive to predictive and prescriptive decision-making. ProModel provides simulation tools and proven end-to-end solutions used by over 60% of the Fortune 500 and across the Public Sector. ProModel opened its doors in Orem Utah in

August of 1988 thanks to Dr. Charles Harrell's vision of providing an easy to use and affordable simulation toolset for "non-programmers" that could run on standard PC's. Organizations like Eastman Kodak, IBM and Whirlpool leveraged the easy-to-use, general-purpose simulation tool in their industrial engineering departments to experiment with process improvement opportunities and predict the impacts on critical performance metrics based on proposed changes.



In the early 1990's, when Microsoft released Windows version 3.0, ProModel was the first simulation company to develop a true Microsoft Windows version. In the mid 90's, customers in the Healthcare and Service Industries began requesting features specifically tailored toward their needs, such as user friendly terminology, industry specific modeling constructs, and icon libraries. These inputs led to the parallel development of three distinct yet similar products that would run under the Windows operating system, namely, ProModel® for Windows, MedModel®, and ServiceModel®.

In the late 1990's many organizations recognized the power of the simulation platform and began wanting more of a complete solution so they could benefit from simulation technology without having to develop simulation modeling as a core competency. ProModel responded by significantly expanding its consulting services to complement and help implement simulation-based modeling solutions.

In the early 2000's, another segment of the market began looking for more initiative specific, targeted tools which leveraged simulation but could serve operations leadership and analysts with little or no model building experience. "Our customers must benefit from simulation models with no pain. We must enable them to easily run scenarios, try hypotheses from the output and compare them, to make educated decisions," says Keith Vadas, President and CEO of ProModel.

As a result, ProModel developed customized application specific simulation tools that no longer required a modeling expert. Tools such as Portfolio Simulator and Process Simulator, which is a plug-in to Microsoft Visio[®], have expanded the use of simulation into Business Process Modeling (BPM), Business Process Reengineering (BPR), Portfolio & Project Management and Lean Six Sigma.

In the mid to late 2000's the terms "Big Data" and "Business Intelligence (BI)" were making headlines and along with ProModel's Visualize, Analyze, Optimize (VAO) simulation methodology, the ability to rapidly increase quality decisions was enhanced.

"Organizations were investing in Big Data and BI solutions that helped them better see themselves now but needed answers to the "then what?" questions. They need to see themselves in the future given the dynamics and variability of their operations" stated Vadas.

The demand for simulation based enterprise decision support applications, which leverage real time data, account for complex changes in business behavior, and exploit the power of rapid scenario analysis and optimization under the hood was here and ProModel was ready to meet the need.

Technology to remain industry leaders.

ProModel will remain on the front line of simulation based

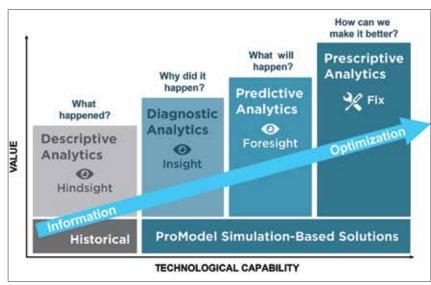
With continued innovation of their simulation and optimization platforms, ProModel began delivering mission critical applications, moving organizations from descriptive and diagnostic analytics to predictive and prescriptive decision making. Building on Dr. Harrell's early vision of easy to use simulation, ProModel now supports both the private and public sectors with leading simulation based tools, and web-based applications.



The speed and complexity faced by today's decision makers requires the latest in predictive and prescriptive technology to remain industry leaders. ProModel will remain on the front line of simulation based decision support

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For example, ProModel supports the Healthcare market with innovative simulation-based decision support tools like FutureFlowRxTM, a system which leverages real-time patient data, and a detailed simulation model of hospital processes to "prescribe" how best to plan the hospital's operations to optimize





FutureFlow Rx[™] Dashboard

patient flow and reduce length of stay. As a web-based application with specific functionality available for defined roles and rights, healthcare organizations can realize 30% increases in patient throughput with no impact on cost or quality of care.

hours vs. weeks changed the culture of Army decision making.

As a result of this innovation, AST was the recipient of the Army Modeling and Simulation award from James Cook, Director of Army Modeling and Simulation.

We pride ourselves on our agility and the ability to operationalize the power of simulation for our clients by combining industry subject matter experts with leading edge simulation/optimization platforms and solutions



The US Department of Defense has also benefited significantly from ProModel technology. Given the dvnamics of known and unknown demand on the US Army and the uncertainty in the budget process, the DoD needed a quantitative way to assess critical resourcing decisions against demand and operational risk. Leveraging ProModel's Commercial-Off-the-Shelf (COTS) simulation platform, ProModel delivered the Army Force Generation Synchronization Tool (AST) to US Army Forces Command. The ability to create "what-if?" scenarios around demand for Army Forces, quickly predict availability of force, and provide insight into future operational risk in

Given only conceptual guidance and coalescing commercial simulation technologies with military functional expertise, the Army Force Generation Tool (AST) Project Team provided the Army with the means to view the predicted impact of today's synchronization decisions on tomorrow's utilization of the Army inventory moving through ARFORGEN.

AST "on screen" capabilities consolidates data from multiple sources, applies existing or "what-if?" business rules, simulates the outcome and automatically depicts results, thereby eliminating lengthy manual, linear and presentation-based methods currently employed. AST cut single Course of

Action development time from days to minutes while enabling multiple Courses of Action production within the same time-frame.

By combining the current "stove piped" functions inherent in Army Force Generation, AST provides a means for the Army Staff, Commands, and other entities to have a collective, common view of Army Force Generation from the unit through the service level.

From healthcare to retail logistics to drug discovery to DoD planning and execution, ProModel helps organizations leverage their investment in data and processes to make better decisions, faster.

"We pride ourselves on our agility and the ability to operationalize the power of simulation for our clients by combining industry subject matter experts with leading edge simulation/ optimization platforms and solutions," explains Mr. Vadas.

Going forward, ProModel will continue to explore opportunities for simplifying simulation modeling and integrating it with enterprise IT, in line with Dr. Harrell's original vision in 1988.

"One thing is for sure, the types and speed of decisions faced by organizations tomorrow will be even more complex than today and getting it right the first time will be critical. ProModel is uniquely positioned to support that environment," stated Keith Vadas. CR

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20 Most Promising Simulation Solution Providers - 2017

oday, simulation technology is making its way into numerous applications across a wide number of fields such as manufacturing, energy, automotive, aviation, and much more. Add to that, the ever-growing reach and demand IoT and AI and the possibilities have become even greater. With digital twins now becoming more common and simulation solutions linking with CAM programs with relative ease, companies can use sensors in the physical world to accurately design and simulate real-world objects with real-world conditions. This leads to radical reductions in cost and time as it negates the need for the construction of physical models for testing purposes. Providers are also developing predictive simulation tools for companies to understand the dynamics of their business processes.

Simulation solutions now offer programs with a wider range of capabilities and greater depth and industries are actively incorporating advanced simulation programs into their project workflows. To improve training methods, companies are resorting to simulation technologies that test employee skills against real-world scenarios. Simulation technology will continue to be extensively used by the defense and aviation industries, but as providers actively increase their simulator repertoire, simulation will find more wide-reaching uses in other industries, such as mining, oil, and gas, construction, etc. Simulation technologies provide a detailed emulation on the behavior and composition of materials and firms in these industries can leverage the technology to transform their businesses like never before.

With a more comprehensive view into the technology's wide applications and potentialities and to assist organizations in choosing their best simulation solutions partner, this edition of CIO Review brings you the "20 Most Promising Simulation Solution Providers - 2017." A distinguished panel comprising of CEOs, CIOs, VCs, and analysts including the CIO Review editorial board have selected the most promising companies in the simulation space that showcase extensive business knowledge combined with innovative solutions, strategies, and talent bases.



Company: ProModel **Description:**

Provides simulations services, software, and consulting

Key Person:

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promodel.com