Data Analytics & Business Intelligence

Data Analytics.

With all the technology, data, and new analytics techniques available to the DOD today, employees and executives are expected to be "in the know." We're living in the "Age of Required Knowledge." In this new age, installation personnel need to zero in on the right information and make the right decisions, because there is a **"cost of not knowing"** and that cost in today's fiscal climate can impact "mission readiness."

Analytics create value by building upon several layers of technology working in concert with trained individuals to solve specific business problems.

Installation teams spend too much time on manual processes, collecting, consolidating, and validating data from DOD legacy systems before they can even begin to analyze it. Important today is the ability to quickly answer the questions **"what happened", and "why did it happen."**
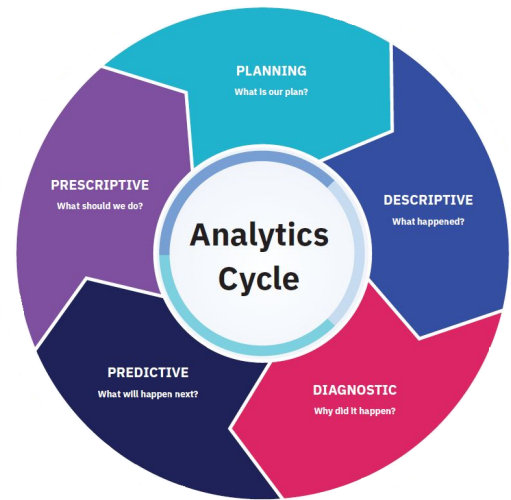

Figure 1. The Analytics Cycle

To manage these "blind spots" organizations today, ask four simple questions: (1) Is any data missing? (2) Is any information incorrect? (3) Is any of the information misleading, and (4) Are the numbers misrepresented?

Army Analytics.

Data analytics will fuel the future of military readiness – Defense Systems.com by Andrew Churchill, 19 June 2018. To improve military readiness, the DOD plans to allocate part of its FY 2019 budget toward various modernization projects and reach those goals by **leveraging cutting-edge data analytics** to provide greater visibility of everything from skill specialties of personnel to equipment inventory. Utilizing data analytics will help military branches enhance readiness and achieve greater mission success.

Figure 2. ALD Operational View of Capability

The Army is seeking through an April 2018 statement of work an Army Leader Dashboard (ALD) as HQDA requires a "big data" management solution that integrates information from over 4,000 data sources. The forthcoming solution at figure 2 will integrate current and historical datasets and perform predictive analytics and forecasting.

The Army's goal, to "visually analyze" the current and future states based upon data generated by the thousands of systems that support its primary functions; to organize, man, train, equip, and sustain the force. The Army/VanJoh team understand the importance of solutions that provide "Business Intelligence" to its senior leaders.