



## Key Points

- We deliver improved mission performance through agility and customization. Because we are not an original equipment manufacturer, we analyze system obsolescence issues as an “honest broker” and implement solutions with the right balance of performance, readiness, and cost.
- Our approach combines engineering expertise with in-depth obsolescence analysis, allowing our team to identify potential system capability risks early and alternative sources, components, or engineering designs.

## Customer Challenges

Obsolescence and its impact on readiness are immediate and urgent concerns for the warfighter. The Department of Defense (DoD) is extending the service life of every platform in its inventory. Ineffective obsolescence management causes a rapid increase in support costs, and readiness is severely eroded if the parts needed to repair a system are not available or are in scarce supply. A robust and proactive obsolescence, modernization, and technology insertion program is the most effective and efficient way to minimize materiel readiness risks, deliver better buying power, and improve overall lifecycle management.

## Customer Benefits

We provide early identification of Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. Knowing about impending obsolescence problems as soon as possible allows for proactive planning and for implementing solutions early enough to avoid costly redesign and system downtime. Once problems are identified, we determine their impact and implement solutions before the issues can affect readiness and mission capability. By solving problems in the simplest, most straightforward approach, we avoid the cost of more expensive solutions and deliver higher readiness, better performance, higher reliability, improved maintainability, and lower total cost of ownership to the warfighter.

## NCI Solutions

We provide our customers with turnkey solutions to mitigating weapon system obsolescence. We combine our DMSMS subject-matter experts and a web-based, state-of-the-art software tool to provide proactive obsolescence analysis and resolution services that save time, money, and resources for our customers. The outcome is an integrated process supported by state-of-the-art analytics that produce quantifiable results. Our services include obsolescence identification, solution case management, form/fit/function replacement, and full systems engineering for modernization and technology insertion.

# Engineering and Logistics Support

NCI supports DoD weapon systems lifecycle support efforts with strong past performance and industry-recognized credibility in DMSMS analysis and engineering solutions in support of modernization and technology insertion. Through obsolescence management, continuous modernization, critical parts support, and technology refresh, we increase weapon system availability, lower sustainment costs, and increase platform capabilities. Proactive DMSMS management requires a synergistic effort by many individuals and teams across several disciplines and communities, including acquisition, parts management, standardization, logistics, and sustainment. DMSMS management is critical to the overall lifecycle management and sustainment of every major weapon system to enable the readiness and support of warfighters.

NCI provides a full range of solutions from identifying form/fit/

function replacement component options to providing full systems engineering modernization and technology insertion. Our approach to providing these services to our customers increases weapon system readiness while reducing costs in this critical time of defense budget cuts. Our team was recognized for our exceptional DMSMS capabilities in support of the B-2 weapon system for which we provided an engineering roadmap of obsolescence issues and mitigation effort recommendations. Our predictive analysis and service life extension capabilities ensure increased asset readiness and availability with reduced total cost of ownership. We are actively engaged in extending service life through creative engineering and logistics solutions, playing a vital role in supporting critical aging aircraft, including the B-1, B-2, B-52, E-3, and KC-135.

## NCI Facts

We have received numerous awards, including DMSMS Team Achievement Awards in 2008, 2010, and 2012. Our Space and C3I DMSMS Analysis and Resolution Team at Hill Air Force Base provided obsolescence solutions for 20 platforms (e.g., MILSTAR, MILSATCOM, GBS, MDD, GPS, DMSP, etc.) and 80 systems in the sustainment phase and improved readiness and support to frontline warfighters. We provided more than 35,000 solutions, realized a cost avoidance of more than \$250 million, and produced a return on investment of more than 28:1 for our customer.

**NCI—Trusted partner when  
and where you need us most.**

NCI World Headquarters

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