

Integrating Management Systems within the DoD

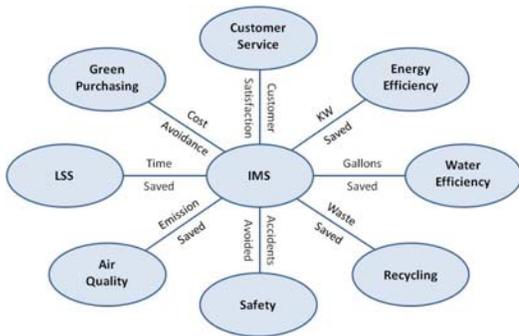


The Texas Center for Applied Technology (TCAT) has developed an Integrated Management System (IMS) for the Joint Base San Antonio (JBSA). This system integrates the JBSA systems and processes into one complete framework, enabling the organization to work as a single entity with unified objectives. The TCAT IMS fulfills the axiom that JBSA as a whole is greater than the sum of its parts.

Technology – With many projects underway at JBSA, technology is everywhere. Communication is vital to efficient operations at JBSA, and technology is intrinsically linked to communications. The IMS links the many different types of technologies, showing how they are connected to energy efficiency, emission reduction, water usage, and the rate of return.

Productivity / Efficiency – The IMS combines requirements, increasing the services produced for the same cost resulting in higher efficiencies. This method will be applied to different areas of the JBSA such as Engineering, Quality, Environmental/Health/Safety (EHS) and Personnel. All cost savings can be captured and highlighted using the IMS system.

Customer Service – In today's military environment, customer service is one of the greatest keys to sustainability success. The IMS improves customer satisfaction by decreasing turnaround time, reducing cost, implementing “get it right the first time” procedures, and promoting collaboration between customers and service providers. This aspect is true with internal and external customers alike.



Enhancement of Lean/Six Sigma Programs – The basic philosophy of Lean is that the expenditure of resources for any goal other than the creation of value is wasteful. While problems in the manufacturing setting may lie within a process, the issue in an installation environment often is the process itself. The IMS optimizes flow and decreases waste thereby creating more value with less work. The IMS identifies waste and variation and incorporates critical items such as health and safety resulting in cost reduction and higher customer satisfaction.



Addressing Asset Management – New and emerging standards such as ISO 9004:2009 (*Managing for the sustained success of an organization*) or ISO 26000 (*Social Responsibility*) have introduced concepts that seek to transform organizational principles. Asset management has moved from empty statements in annual reports to a strategic requirement for military installations. The IMS addresses the purpose of ensuring the economic survival of the military installation.

TEXAS CENTER FOR APPLIED TECHNOLOGY

There are many problems that require the careful and proper integration of applied technologies to find solutions. The Texas Center for Applied Technology (TCAT) was created to focus on these specific problems and to develop effective and efficient solutions. TCAT's core competency is the innovative application of existing technologies and advanced research to solve complex real-world problems.

TCAT's primary objective is to apply and test technologies to address targeted problems and engage basic research as required. TCAT has employees in a variety of locations with the ability to perform research that cuts across multiple technologies, disciplines, and cultures. The Center's employees are knowledgeable regarding customers' requirements and are ready to respond effectively to provide the best value for the customers' needs including expertise in technology insertion, technology assessments, and test and evaluation.

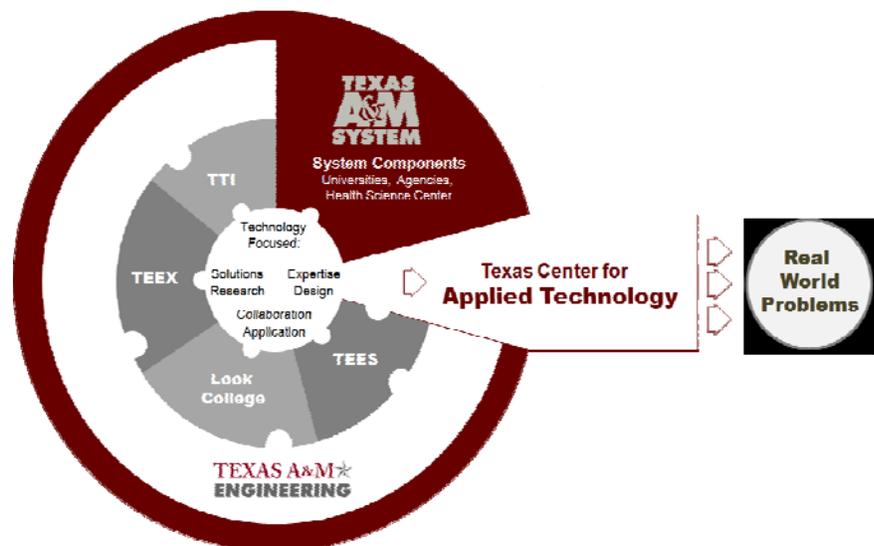
TCAT is part of the Texas A&M Engineering Experiment Station (TEES), a member of The Texas A&M University System. The A&M System is one of the largest and most comprehensive systems of higher education in the United States. Through a statewide network of eleven university campuses, seven state agencies, and a comprehensive health science center, the A&M System educates more than 120,000 students on its university campuses, conducts more than \$780 million in research, and reaches another 22 million people through service each year. TEES is an engineering research agency for the state of Texas and conducts over \$147 million in research annually. Because of the Center's position within the Texas A&M Engineering program, TCAT's expertise can easily be extended by rounding out its team with world class faculty researchers, as appropriate. TCAT is in an excellent position for collaboration not only with The Texas A&M University System components and their customers but with other universities, institutions, centers, and industry.

TCAT'S CORE COMPETENCIES

Energy Sustainability ★ Environmental Sustainability
Manufacturing & Systems Engineering ★ Information Technology ★ Modeling & Simulation
Technology Insertion ★ Test & Evaluation

TEXAS A&M ENGINEERING

Texas A&M Engineering consists of the Dwight Look College of Engineering, and three engineering agencies, including TEES: Texas A&M Transportation Institute (TTI) conducts research and professional education in all modes of transportation. The Texas A&M Engineering Extension Service (TEEX) works to develop a highly skilled and educated workforce and enhances public safety through training, continuing education, and technical assistance.



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