

WSTIAC Success Story: System Operational Effectiveness Decision Support Tool for Marine Corps Systems Command’s Capability Assessment Support Center (CASC)

Problem: WSTIAC was contracted by CASC to assist in the achievement of Goal III of the MARCORSYSCOM Strategic Plan 2005-2009, in which MARCORSYSCOM aspires to “Become the Driving Force behind the Adoption of Total Life Cycle Systems Management (TLCSM) in the Marine Corps.” Goal III was developed in response to a change in DoD policy that designated a weapon system Program Manager be responsible not only for the acquisition of a system but also be the single point of accountability for the sustainment over a weapon system’s life cycle (i.e. TLCSM). In accordance with this policy, Goal III requires Marine Corps Program Managers to work towards maximum System Operational Effectiveness (SOE) for their weapon systems and equipment. Figure 1 depicts the hierarchical SOE Model, which shows that numerous tradeoffs between system performance, system availability, process efficiency, human factors, and cost are needed to maximize the operational effectiveness of a weapons system.

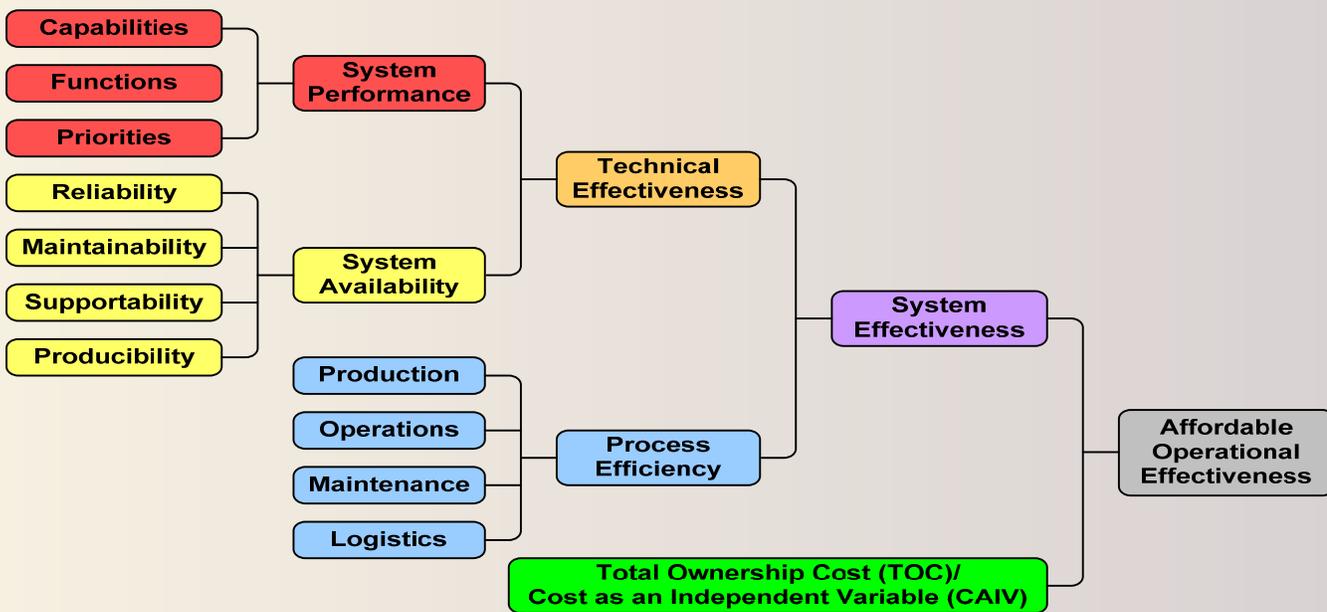


Figure 1: System Operational Effectiveness Model

Solution: WSTIAC has deployed a multi-user web-based automated tool, the SOE Decision Support Tool, which enables consistent and accurate analysis of leading indicators that ultimately affect SOE and weapon system readiness. The SOE Decision Support Tool also allows the Marine Corps to “design for support” of new systems, while simultaneously “supporting the design” of existing systems to balance the inherent design features of the system versus the processes used to sustain the system (i.e. TLCSM).

The SOE Decision Support Tool is currently available to nearly one hundred Marine Corps users through the WSTIAC website and it will soon be integrated into the Marine Corps Logistics Command’s Life Cycle Modeling Integrator to increase its visibility throughout the Marine Corps.