



Flooded roadways after hurricane Katrina

SURVIAC Success Story

Defense Critical Infrastructure Program Centralized Analytical Capability

<http://iac.dtic.mil/surviac/>

Customer:	U.S. Army Corps of Engineers
Challenge:	<p>The risk management mission of Defense Critical Infrastructure Program (DCIP) demands a highly skilled and comprehensively trained cadre of professionals. Stakeholders and stewards of infrastructure must be able to assess risks and vulnerabilities and develop mitigation strategies that will prevent or minimize damage. They must also be leadership advisors in crisis situations, enabling leaders to respond to catastrophes and restore infrastructure capabilities rapidly and efficiently. In the past, DCIP organizations did not have established procedures on how and when to report information outside of their own organizations during catastrophic events. Combined with a lack of an information sharing strategy, the highest levels of DoD were not receiving timely information on the status of functions, systems, assets, event impacts, and recovery times. In addition, it was not clear how that reporting was to take place or which office should be responsible for reporting to the executive and legislative branches of the federal government.</p>
Approach:	<p>SURVIAC designed, planned and conducted a joint sector table top exercise (TTX) to facilitate DCIP risk management decisions and ensure the availability of critical assets. SURVIAC previously designed and conducted two DCIP TTX, the most recent used time and event-based scenarios that severely impacted public works and transportation infrastructure to initiate macro-level risk management discussions (up to the SECRET level) among various DCIP stakeholders. This enabled SURVIAC to conduct a detailed analysis of the DCIP community's response to threats and hazards during a catastrophic event in specific geographic areas.</p> <p>Three dynamic scenarios (catastrophic natural hazard event with warning – typhoon; catastrophic natural hazard event without warning – earthquake; and civil unrest in the</p>

	<p>European theater) were designed to enhance the DCIP community's understanding of the interdependent nature of critical infrastructure. These catastrophic events demonstrated the vulnerabilities facing public works and transportation infrastructures and the previously unknown reliance of other sectors and community members on these infrastructures.</p>
<p>Value:</p>	<p>SURVIAC identified 36 recommendations that ranged from comprehensive policy development for stakeholders to improved communications between organizations/agencies within the DCIP community. The recommendations were divided into six categories: roles and responsibilities, dependency methodology, information flow; mission assurance focus, interagency cooperation, and need for DCIP communications strategy.</p> <p>In response to the TTX findings, the Office of the Assistant Secretary of Defense for Homeland Defense & Americas' Security Affairs, (OASD(HD&ASA)) published a Mission Assurance Strategy, established a central data repository for defense critical infrastructure – a SIPRNET collaboration tool developed for the U.S. Strategic Command (STRATCOM) called Strategic Mission Assurance Data System (SMADS) – and developed a comprehensive training program for the DCIP community. The DCIP community has also identified additional information requirements to facilitate time-critical DCIP risk management decisions to prevent the interruption or loss of critical infrastructure that support DoD missions during catastrophic events.</p> <p>OASD(HD&ASA)'s Mission Assurance Strategy will achieve millions of dollars in savings for the Department by eliminating redundancies in uncoordinated risk assessment efforts across DOD. This strategy will also provide common and applicable risk assessment methodologies and tools for components throughout the defense enterprise, take advantage of best practices, and build prioritized efforts to mitigate risks to mission execution.</p>

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