



Domain and Infrastructure Interdependency: The Risk Multiplier

A common cause failure occurs when two or more infrastructure networks are disrupted at the same time, by the same cause. Such failures can compromise efforts to respond and leave little room for error.

The infrastructure upon which our nation, and most of the world, depends has grown unimaginably complex and interwoven. Though our systems deliver a high degree of safety and reliability, they do have vulnerabilities. Unfortunately, these weaknesses are too often exposed, at a considerable cost, by an unanticipated event or set of circumstances.

The organization and infrastructure of every city, large or small, is a complex web of people, processes, and public and private entities that generally operate independently of each other. During a crisis, however, the individual domains become highly interdependent; relying upon each other to provide critical resources and capability.

Each domain has established resources, plans and procedures in place which enable it to carry on operations and respond to changing conditions. Since the domains are highly interdependent, events that cause infrastructure failures can impede response efforts and generate often unanticipated

“cascading effects” that extend the scope and duration of the damage caused by these events. The result is that organizations and communities must find a way to adapt to and correct the situations— often through costly trial and error.

Crisis Simulations International helps public and private sector senior leaders to address these complex issues and prepare together for the unpredictable. Employing our national network of subject matter experts and our award-winning DXMA™ computer modeling and simulation technology, we identify and analyze domain infrastructure and procedural dependencies, conflicts and gaps.

Our realistic and intensive crisis simulation exercises stress-test senior leaders’ ability to adapt and respond together to an unanticipated event. Finally, we work closely with the group to improve systems, procedures and group decision-making dynamics.

With a more thorough knowledge of how their domains interconnect, and with the benefit of first-hand experience working together to address a crisis, senior leaders can be far better prepared to prevent and respond to crises of any kind.



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