

Risk Assessment Software von 3M

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International Government Markets & Public Affairs Defense, Homeland Security,

Government Preparedness and National Infrastructure

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In today's volatile world, Governments are increasingly organizing themselves to respond to events that can create mass casualties or damage critical national infrastructure. When accidents, man-made events or natural disasters strike, law enforcement, first responders, health care systems, and other safety and security personnel will be deployed to save lives, protect law and order and assist in recovery efforts. These events create a surge in human resources and physical assets needed at scales never imagined before. The preparedness efforts demand further clarification of roles and responsibilities, more complex work flows and multi-agency command and control functions.

Those who respond will deploy physical assets and consume goods and services to fulfill their roles and responsibilities. However, in today's world of just-in-time consumption and production, little supply chain elasticity remains. Preparedness plans therefore must include surge capacity plans and even stockpiles. Some key questions that must be answered for each event/scenario are: What do we need and what is the consumption of the entire response workforce daily/weekly/etc.? What should our Minimum Readiness Level (MRL) be given our scenarios and the goods and services we will be consuming? Do we have any tactical and operational resource gaps and how do we bridge them? How do we meter consumption to make our resources last?

This requires a data-driven hazard and vulnerability risk assessment, granular scenario profiling and forecasting and simulation of events. This is then extended to the profiling of logistics and supply chain needed to support a surge in response. We will highlight new decision support tools that can translate “Emergency Plans” to “Logistics and Supply Chain Plans”. We will demonstrate first, a logistics and supply chain model for a German Pandemic Flu Outbreak Scenario with epidemiology and logistics simulator built in. Other specific natural or man-made national infrastructure disaster scenarios will also be demonstrated. We will discuss our experience in over 30 countries working with governments on national preparedness plans focused on specific local scenarios of extreme concern.