State Support for Disaster Preparedness & Response

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State Emergency Preparedness & Response Plans

**Hazards**
- Fire
- Explosion
- Natural hazards
- Hazardous materials spill or release
- Terrorism
- Workplace violence
- Pandemic disease
- Utility outage
- Mechanical breakdown
- Supplier failure
- Cyber attack

**STRENGTHS**
- Clarifies scenarios, command and control structure, and roles and responsibilities
- Creates coordinating bridge to local communities and to federal government
- Promotes emergency response planning and exercises

**WEAKNESSES**
- Plans often lack a logistics and supply chain appendix for resources needed to send teams in harm’s way
- Good for low-intensity emergencies but poor for infrequent high-consequence events (pandemics)
Challenge: Low Probability-High Consequence Events

Event Probability

High Probability
Low Consequence

High Probability
High Consequence

Low Probability
Low Consequence

Low Probability
High Consequence

Event Consequence

MOST CHALLENGING
PROTECTING STATES’ CRITICAL INFRASTRUCTURE

Transportation

Government Services

Electric Power

Telecommunications

Public Health & Emergency Services

Water

Banking & Finance

Oil & Gas
3M’s Lessons Learned from Past Global Emergencies

- **PREPAREDNESS** must be quantified in ways unique to a State’s demographics and the nature of its emergency response system and scenarios.

- **RESPONSE ELASTICITY**: In a world of just-in-time production and just-in-time consumption, little supply elasticity remains in large emergencies.

- **STOCKPILES** within State boundaries gives the Governor immediate response ability.

- **MOST PLANS LACK** an integrated logistics and supply chain appendix, especially of Personal Protective Equipment, for each disaster scenario that identifies needed products to protect responders.
3M Works with Governments on Disasters

- Infectious Disease Outbreaks
  - Pandemic Influenzas
  - Avian Flu
  - SARS
  - MERS
  - Ebola
- Crash Landing of Airliner at Airport
- Chemical incidents at a Port
- Explosions
- Powerplant Accident
- Industrial Plant Accident
- Earthquakes
- Hurricanes/Monsoons
- Terrorism
- Transportation Accidents
<table>
<thead>
<tr>
<th>Year</th>
<th>Health Epidemics</th>
<th>Natural Disasters</th>
<th>Accidents</th>
<th>Terrorism</th>
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</thead>
<tbody>
<tr>
<td>1997</td>
<td>Avian flu (H5N1)</td>
<td></td>
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<td>9/11 World Trade Center</td>
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<td>2001</td>
<td>Swine flu</td>
<td>Forest Fire (France)</td>
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<td>Anthrax</td>
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<td>2003</td>
<td>Chicken Flu</td>
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<td></td>
<td>Iraq War</td>
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<td>2004</td>
<td>SARs (CoV)</td>
<td>Typhoons &amp; Floods (SE Asia)</td>
<td>Coal Mine Explosions (China)</td>
<td>Madrid Train Bombings (Spain)</td>
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<tr>
<td>2005</td>
<td>Avian flu (H5N1)</td>
<td>Earthquakes (Japan)</td>
<td>Train Explosion (North Korea)</td>
<td>Bestian School Hostages</td>
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<td>2006</td>
<td>Avian flu (H5N1)</td>
<td>Pakistan (Kashmi) Earthquake</td>
<td>Chemical Plant Explosions (China)</td>
<td>London Transport Bombings</td>
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<td>2007</td>
<td>Avian flu (H5N1)</td>
<td>Hurricane Katrina (New Orleans)</td>
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<td>2008</td>
<td>Avian flu (H5N1)</td>
<td>Equador Volcano</td>
<td>Nigerian Oil Blast</td>
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<td>2009</td>
<td>Pandemic H1N1/09 virus</td>
<td>Indonesia Earthquake/Tsunami</td>
<td>Korean Oil Spill</td>
<td>Iraq/Afghan War</td>
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<td>2010</td>
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<td>Hurricane Ike</td>
<td>California Wild Fires</td>
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<td>2011</td>
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<td>Hurricane Irene</td>
<td>Japan Tsunami</td>
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<td>2012</td>
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<td>Japan Tsunami</td>
<td>Super Storm Sandy</td>
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<td>2013</td>
<td>Avian flu (H7N9)</td>
<td>Moore Oklahoma Tornado</td>
<td>SEA Haze (SE Asia)</td>
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<td>2014</td>
<td>MERS</td>
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<td>Rising ISIS Conflict</td>
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<td>2015</td>
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<td>Charlie Hebdo Shooting (Paris)</td>
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<td>2016</td>
<td>Zika</td>
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<td>San Bernardino Shooting (CA)</td>
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<td>Orlando Nightclub Shooting (FL)</td>
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<td>Bastille Day Attack (Nice, France)</td>
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Hold a mirror to your State Emergency plans and see if you have the logistics and supply chain needed to respond.
7 Key Questions We Can Help Answer

1. What are your risk scenario of concern?
2. What do you want your Minimum Readiness Level to be for each risk?
3. What assets (infrastructure or human) do you want to protect?
4. Which assets have greater vulnerability against each of your risks?
5. How well do your plans mitigate the risks?
6. What are the gaps?
7. Do you have the logistics and supply chain for rapid response activation? How fast?
3M is privileged to be of service to NAAG sharing our expertise to contribute to the great work that goes on in each of State.

Call upon us to serve your needs and protect the first responders and first receivers that put themselves in harms way when disaster strikes.