# Disaster Response Trade Study Tool

## Report Details

**Date Report Generated:** Saturday, July 23, 2016 8:13:11 PM EDT  
**Country Report Generated:** United States

## Best Architecture

|  |  |  |
| --- | --- | --- |
| Technology | Type | Description of Selected Technology |
| No Platform Satisfies Selections | Platform |  |
| No Communications Option Satisfies Selections | Communications |  |
| No Sensor Option Satisfies Selections | Sensors |  |

## Selected Disaster Effects

|  |  |
| --- | --- |
| Disaster Effect | Selected |
| Flood |  |
| Debris |  |
| Smoke/Dust (airborne) |  |
| Ground Instability |  |
| Land Slide | ✓ |
| Mud Slide | ✓ |
| Structural Damage | ✓ |
| High Wind (near term) |  |
| Hazardous Material Spill |  |
| Radiological Spill |  |
| Lava |  |
| Ash |  |
| Fire |  |
| Infrastructure Breakdown |  |

## Environment Definition

|  |  |  |
| --- | --- | --- |
| Terrain Effect | Value Selected | Description of selected value |
| Elevation | 1 | Minimal elevation changes (+/- 1000 feet) |
| Roads | 2 | Majority of roadways are unimproved |
| Bridges | 3 | Bridges handle only foot traffic |
| Foliage | 3 | Complete layer of canopy over disaster area |
| Wetness | 2 | Terrain has some areas of saturated soil |
| Streams | 2 | Streams have no bridges crossings |
| Beach | 4 | Large Stone or Cliff |
| Water Ways | 1 | Water ways are navigable |
| Urbanization | 0 | No Factor |
| Range | 3 | Distance from staging area to disaster > 100 nm |
| Population | 1 | Low population level |
| Persistence | 3 | Long duration persistence overhead/at disaster area |
| Trafficability | 2 | Roadways are partially obstructed |
| Slope | 1 | Level Terrain (≤ 10° ) |

## Defined Weighting Criteria

### Platforms

|  |  |
| --- | --- |
| Platform Attributes | Weighting |

### Communications

|  |  |
| --- | --- |
| Communications Attributes | Weighting |

### Sensor

|  |  |
| --- | --- |
| Sensor Attributes | Weighting |