# Disaster Response Trade Study Tool

## BEST ARCHITECTURE BASED ON SELECTIONS AND WEIGHTINGS

|  |  |  |
| --- | --- | --- |
| Technology | Type | Description of Selected Technology |
|  |  |  |
|  |  |  |
|  |  |  |

## SELECTED DISASTER EFFECTS:

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

## ENVIRONMENT DEFINED AS:

|  |  |  |
| --- | --- | --- |
| Terrain Effect | Value Selected | Description of selected value |
| Elevation |  |  |
| Roads |  |  |
| Bridges |  |  |
| Foliage |  |  |
| Wetness |  |  |
| Streams |  |  |
| Beach |  |  |
| Water Ways |  |  |
| Urbanization |  |  |
| Range |  |  |
| Population |  |  |
| Persistence |  |  |
| Trafficability |  |  |

## WEIGHTING CRITERIA DEFINED

### PLATFORMS

|  |  |  |
| --- | --- | --- |
| Platform Attributes | Weighting | Description of Attribute |
| Range (km) |  |  |
| Ops Duration (Hours) |  |  |
| Cost Ranking |  |  |
| Payload (kg) |  |  |

### COMMUNICATIONS

|  |  |  |
| --- | --- | --- |
| Communications Attributes | Weighting | Description of Attribute |
| Range (km) |  |  |
| Data Rate (Mbps) |  |  |
| Cost Ranking |  |  |
| Weight (kg) |  |  |

### SENSOR

|  |  |  |
| --- | --- | --- |
| Sensor Attributes | Weighting | Description of Attribute |
| Coverage Area (km) |  |  |
| Resolution (m) |  |  |
| Cost Ranking |  |  |
| Weight (kg) |  |  |