THREAT AND HAZARD IDENTIFICATION AND RISK ASSESSMENT (THIRA)

2018 Report
Nevada

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THIRA Overview

The THIRA is a three-step risk assessment completed every three years. It helps answer the following questions:

- What threats and hazards can affect our community?
- If they occurred, what impacts would those threats and hazards have on our community?
- Based on those impacts, what capabilities should our community have?

The THIRA helps communities understand their risks and determine the level of capability they need in order to address those risks. The outputs from this process lay the foundation for determining a community's capability gaps during the SPR process.

The THIRA follows a three-step process, as described in *Comprehensive Preparedness* Guide *201, Third Edition*:

1. **Identify Threats and Hazards.** Based on a combination of experience, forecasting, subject matter expertise, and other available resources, develop a list of threats and hazards that could affect the community. When deciding what threats or hazards to include in the THIRA, communities consider only those that challenge the community's ability to deliver at least one core capability more than any other incident; the THIRA is not intended to include less challenging threats and hazards.
2. **Give Threats and Hazards Context.** Describe the threats and hazards identified in Step 1, showing how they may affect the community and create challenges in performing the core capabilities. Identify the impacts a threat or hazard may have on a community.
3. **Establish Capability Targets.** Using the impacts described in Step 2, determine the level of capability that the community plans to achieve over time in order to manage the threats and hazards it faces. Using standardized language, create capability targets for each of the core capabilities based on this desired level of capability by identifying impacts, objectives, and timeframe metrics. A core capability is comprised of several functional areas in which a community may have a gap. Each required standardized target addresses one or more functional areas.

Report Overview

This report contains two sections:

- **THIRA Steps 1 and 2: Threats, Hazards, and Context**
  - Identified threats and hazards
  - Context descriptions
  - Standardized impacts
  - Non-standardized impacts
- **THIRA Step 3: Capability Targets**
  - Standardized capability targets
  - Maximum requirements

THIRA Step 1 and 2: Threats, Hazards, and Context

Threat/Hazard: Southern NV Active Shooter

Category: Human_caused **Type:** Active Shooter **Terrorism:** Yes

Context Description:

An active shooter/complex coordinated terrorist attack incident (i.e., Mumbai/Paris-style attack) targeting multiple commercial soft targets along the Las Vegas Strip using small arms and improvised explosive devices. 2-5 gunmen attack various locations, including three luxury hotels/casinos, a hospital, and the nearby international airport. The attack stretches on for 6 hours.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	7	(#) partner organizations involved in incident management	22
(#) people affected	1015744		

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Subject-matter experts (SMEs) Exercises After-Action Reports Fusion Center products and assessments Prior year THIRAs Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory	

Threat/Hazard: Frenchman Mountain Earthquake

Category: Natural **Type:** Earthquake **Terrorism:** No

Context Description:

A magnitude 7.0 earthquake along the Frenchman Mountain Fault occurs during the peak tourism months (April - September). This earthquake will result in widespread damage throughout the Las Vegas Urban Area, including aging unreinforced masonry buildings and high rise resort hotels on the Las Vegas Strip.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	7	(#) partner organizations involved in incident management	22
(#) people affected	2578147	(#) people with access and functional needs (affected)	515629
(#) people with limited English proficiency affected	515629	(#) customers (without water service)	56158
(#) customers (without wastewater service)	56158	(#) customers (without communication service)	446481
(#) customers (without power service)	446481	(#) people requiring evacuation	25000
(#) people with access and functional needs (requiring evacuation)	5000	(#) miles of road affected	622
(#) hazmat release sites	5	(#) exposed individuals (hazmat-related incidents)	1500
(#) fatalities	1300	(#) structure fires	20
(#) people requiring shelter	100000	(#) people requiring food and water	156000
(#) people with access and functional needs (requiring accessible shelter)	20000	(#) people with access and functional needs (requiring food and water)	20000
(#) animals requiring shelter, food, and water	50000	(#) people requiring temporary, non-congregate housing	1000
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	200	(#) people requiring rescue	50000
(#) people requiring medical care	15000	(#) businesses closed due to the incident	18612
(#) affected healthcare facilities and social service organizations	87	(#) people requiring long-term housing	5000
(#) people with access and functional needs (requiring accessible long-term housing)	1000	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	21

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports Other reports (government, academic, non-profit) Prior year THIRAs Capability Assessments (such as the SPR) Resource Inventory	

Threat/Hazard: Cyber Attack

Category: Technological **Type:** Utility Interruption **Terrorism:** No

Context Description:

A cyber-related incident targeting a major utility provider disrupts the delivery of electrical power to the bulk of homes and businesses throughout Nevada. Despite efforts to restore the electrical grid, power remains off for over 48 hours with no short-term solution available. Lack of power over this time period results in the expenditure of critical resources and eventually backup power systems are no longer sustainable. Medical providers, grocery stores, prisons, and regular households across the state experience significant impact without power. Civilian unrest increases rapidly, overwhelming law enforcement efforts. The Governor declares a state of emergency and deploys National Guard assets throughout the state.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	9	(#) partner organizations involved in incident management	100
(#) people affected	325000	(#) people with access and functional needs (affected)	87650
(#) people with limited English proficiency affected	7000	(#) customers (without water service)	55000
(#) customers (without wastewater service)	55000	(#) customers (without communication service)	235000
(#) customers (without power service)	235000	(#) people requiring evacuation	1500
(#) people with access and functional needs (requiring evacuation)	425	(#) miles of road affected	105
(#) hazmat release sites	1402	(#) exposed individuals (hazmat-related incidents)	175
(#) fatalities	110	(#) structure fires	20
(#) people requiring shelter	22000	(#) people requiring food and water	51500
(#) people with access and functional needs (requiring accessible shelter)	7150	(#) people with access and functional needs (requiring food and water)	17505
(#) animals requiring shelter, food, and water	35300	(#) people requiring temporary, non-congregate housing	5
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	5	(#) people requiring rescue	150
(#) people requiring medical care	5250	(#) businesses closed due to the incident	35500
(#) affected healthcare facilities and social service organizations	90	(#) people requiring long-term housing	5

(#) people with access and functional needs (requiring accessible long-term housing)	5	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	25

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Exercises After-Action Reports Fusion Center products and assessments County/Municipal THIRAs Other reports (government, academic, non-profit) Prior year THIRAs Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

Threat/Hazard: Active Shooter

Category: Human_caused **Type:** Active Shooter **Terrorism:** Yes

Context Description:

In late September, one of the largest motorcycle events occurs in the Reno/Tahoe area, with over 150,000 people converging on the area for the three-day event. A popular entertainer is performing at an outdoor venue in the Lake Tahoe casino corridor. With an expectation of 10,000 in attendance. A complex coordinated terrorist attack (i.e., Mumbai/Paris-style attack) targeting multiple commercial soft targets involved with the motorcycle event and the concert venue using small arms and improvised explosive devices (IEDs). Eight gunmen attack various locations, including the concert venue, two hotels/casinos, a hospital and the Reno/Tahoe international airport. There are hundreds of fatalities and non-fatal injuries as a result of the assault.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	9	(#) partner organizations involved in incident management	100
(#) people affected	150250	(#) people with access and functional needs (affected)	57750
(#) people with limited English proficiency affected	5250	(#) customers (without water service)	500
(#) customers (without wastewater service)	500	(#) customers (without communication service)	20000
(#) customers (without power service)	10000	(#) people requiring evacuation	50100
(#) people with access and functional needs (requiring evacuation)	17353	(#) miles of road affected	165
(#) hazmat release sites	5	(#) exposed individuals (hazmat-related incidents)	10
(#) fatalities	550	(#) structure fires	10
(#) people requiring shelter	21000	(#) people requiring food and water	30250
(#) people with access and functional needs (requiring accessible shelter)	7050	(#) people with access and functional needs (requiring food and water)	10575
(#) animals requiring shelter, food, and water	110	(#) people requiring temporary, non-congregate housing	5
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	5	(#) people requiring rescue	750
(#) people requiring medical care	6250	(#) businesses closed due to the incident	750
(#) affected healthcare facilities	85	(#) people requiring long-term	5

and social service organizations		housing	
(#) people with access and functional needs (requiring accessible long-term housing)	5	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	10

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports Fusion Center products and assessments County/Municipal THIRAs Other reports (government, academic, non-profit) Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

Threat/Hazard: Pandemic - Human

Category: Natural **Type:** Pandemic - Human **Terrorism:** No

Context Description:

Late November, an outbreak of measles is introduced to Northern Nevada by way of direct air travel into Reno during the busy holiday season. Measles is transmitted efficiently from person to person resulting in large numbers of people being infected. The epidemic will sweep across Northern Nevada within 1-2 months and start to affect locations in Southern Nevada. Overall, 30% of the Nevada population have been infected which impacts their ability to work for one to three weeks. There is a fatality rate of 15% due to complications from other associated illnesses. Typical time it takes for symptoms to show up once you've caught the virus is 10-14 days and adults can be contagious from 2-3 days before symptoms begin through 5 to 10 days after the illness starts.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	9	(#) partner organizations involved in incident management	100
(#) people affected	255500	(#) people with access and functional needs (affected)	99750
(#) people with limited English proficiency affected	31000	(#) people requiring evacuation	250
(#) people with access and functional needs (requiring evacuation)	100	(#) exposed individuals (hazmat-related incidents)	5
(#) fatalities	25026	(#) animals requiring shelter, food, and water	75
(#) people requiring medical care	78500	(#) businesses closed due to the incident	7925
(#) affected healthcare facilities and social service organizations	225	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	2

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk	

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports County/Municipal THIRAs Other reports (government, academic, non-profit) Prior year THIRAs Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

Threat/Hazard: Wildfire

Category: Natural **Type:** Wildfire **Terrorism:** No

Context Description:

Mid-July, several lightning strikes causes a 5,000 acre wildfire in Lake Tahoe Basin that significantly impacts the urban interface. The fire impacts a large number of residential neighborhoods, commercial structures and critical infrastructure sites. Because of this fire, there is a displacement of persons out of neighborhoods and businesses with many requiring shelter for a period of three or more days. Many individuals have adverse respiratory/medical reactions due to smoke and fire activities requiring hospitalization. There is a displacement of animals and livestock requiring the establishment of animal sheltering for several days. In addition, due to several other fires occurring throughout the state, state and local resources are heavily taxed.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	8	(#) partner organizations involved in incident management	100
(#) people affected	255000	(#) people with access and functional needs (affected)	87525
(#) people with limited English proficiency affected	3000	(#) customers (without water service)	31500
(#) customers (without wastewater service)	31500	(#) customers (without communication service)	55000
(#) customers (without power service)	39500	(#) people requiring evacuation	20750
(#) people with access and functional needs (requiring evacuation)	7025	(#) miles of road affected	275
(#) hazmat release sites	40	(#) exposed individuals (hazmat-related incidents)	30025
(#) fatalities	1502	(#) structure fires	1245
(#) people requiring shelter	1250	(#) people requiring food and water	30600
(#) people with access and functional needs (requiring accessible shelter)	400	(#) people with access and functional needs (requiring food and water)	10750
(#) animals requiring shelter, food, and water	15750	(#) people requiring temporary, non-congregate housing	125
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	42	(#) people requiring rescue	200
(#) people requiring medical care	175	(#) businesses closed due to the incident	750
(#) affected healthcare facilities	54	(#) people requiring long-term	5025

and social service organizations		housing	
(#) people with access and functional needs (requiring accessible long-term housing)	1760	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	155

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports County/Municipal THIRAs Other reports (government, academic, non-profit) Prior year THIRAs Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

Threat/Hazard: Flood

Category: Natural **Type:** Flood **Terrorism:** No

Context Description:

Late December, the Sierra Nevada mountains are hit with several heavy snow storms followed in early January with a warm atmospheric river that stalls over Northern Nevada. A 100/500-year event results in catastrophic flash floods causing flooding to critical infrastructure including businesses and residential homes with moderate to major damage. As a result of the flood, there is a displacement of persons out of neighborhoods and businesses with many requiring shelter for a period of three or more days. There also a displacement of animals and livestock requiring the establishment of animal sheltering for several days. Public roadways and highways damaged including the undercut of primary roadway, due to hundreds of culverts blocked or damaged. Discharge/Flow rates in excess of 5,000 cubic feet/second in strained public flood channels.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	9	(#) partner organizations involved in incident management	100
(#) people affected	263290	(#) people with access and functional needs (affected)	88086
(#) people with limited English proficiency affected	30758	(#) customers (without water service)	37625
(#) customers (without wastewater service)	57580	(#) customers (without communication service)	265150
(#) customers (without power service)	12650	(#) people requiring evacuation	52580
(#) people with access and functional needs (requiring evacuation)	17560	(#) miles of road affected	1349
(#) hazmat release sites	12	(#) exposed individuals (hazmat-related incidents)	25031
(#) fatalities	12	(#) structure fires	12
(#) people requiring shelter	5780	(#) people requiring food and water	101350
(#) people with access and functional needs (requiring accessible shelter)	1337	(#) people with access and functional needs (requiring food and water)	35136
(#) animals requiring shelter, food, and water	121100	(#) people requiring temporary, non-congregate housing	737
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	256	(#) people requiring rescue	335
(#) people requiring medical care	1366	(#) businesses closed due to the incident	1787

(#) affected healthcare facilities and social service organizations	219	(#) people requiring long-term housing	5137
(#) people with access and functional needs (requiring accessible long-term housing)	1312	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	5015

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports County/Municipal THIRAs Other reports (government, academic, non-profit) Prior year THIRAs Other existing threat and hazard assessments Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

Threat/Hazard: Earthquake

Category: Natural **Type:** Earthquake **Terrorism:** No

Context Description:

A magnitude 6.9 earthquake along the Mount Rose Fault occurs mid-May, at 0630 resulting in significant damage/disruption to infrastructure and energy/fuel delivery systems, moderate to severe damage of residential structures, small to medium sized businesses, casinos, and other damage out to 40 miles from the epicenter. Hundreds of buildings experience major damage. This event would affect the general population and visitors; inflict minor, to severe injury, and cause several deaths. There is a displacement of persons out of neighborhoods, visitors and businesses with many requiring shelter for a several days to weeks. There is also a displacement of animals and livestock requiring the establishment of animal sheltering for several days to weeks.

Standardized Impact Estimates

Impact Category	Estimate	Impact Category	Estimate
(#) jurisdictions affected	9	(#) partner organizations involved in incident management	100
(#) people affected	256500	(#) people with access and functional needs (affected)	87750
(#) people with limited English proficiency affected	51500	(#) customers (without water service)	285000
(#) customers (without wastewater service)	292000	(#) customers (without communication service)	300000
(#) customers (without power service)	310000	(#) people requiring evacuation	116030
(#) people with access and functional needs (requiring evacuation)	38575	(#) miles of road affected	5208
(#) hazmat release sites	1437	(#) exposed individuals (hazmat-related incidents)	100221
(#) fatalities	1000	(#) structure fires	750
(#) people requiring shelter	114043	(#) people requiring food and water	218500
(#) people with access and functional needs (requiring accessible shelter)	35300	(#) people with access and functional needs (requiring food and water)	70225
(#) animals requiring shelter, food, and water	60500	(#) people requiring temporary, non-congregate housing	21200
(#) people with access and functional needs (requiring accessible, temporary, non-congregate housing)	7075	(#) people requiring rescue	20750
(#) people requiring medical care	75432	(#) businesses closed due to the incident	9260
(#) affected healthcare facilities	212	(#) people requiring long-term	62200

and social service organizations		housing	
(#) people with access and functional needs (requiring accessible long-term housing)	21125	(#) damaged natural and cultural resources and historic properties registered in the jurisdiction	2975

Non-Standardized Impact Entries

Impact Name

Source Identification

Source Name	Sources Used to Develop Context Description and Calculate Impacts (Optional)
Real-world events Response plans Hazard mitigation plans (including Hazard Identification and Risk Assessment) Subject-matter experts (SMEs) Modeling or tools Exercises After-Action Reports Fusion Center products and assessments County/Municipal THIRAs Other reports (government, academic, non-profit) Prior year THIRAs Capability Assessments (such as the SPR) Resource Inventory Improvement plans	

THIRA Step 3: Capability Targets

Planning

Functional Area(s) – Evaluating and Updating Plans, Operational Planning, Whole Community Involvement and Coordination

Capability Target

Within every **5 year(s)**, update all emergency operations plans that define the roles and responsibilities of **100** partner organizations involved in incident management across **9** jurisdictions affected, and the sequence and scope of tasks needed to prevent, protect, mitigate, respond to, and recover from events.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Public Information and Warning

Functional Area(s) – Delivering Actionable Guidance, Alerts and Warnings, Culturally and Linguistically Appropriate Messaging, Inclusiveness of the Entire Public

Capability Target

Within **30** **minute(s)** notice of an incident, deliver reliable and actionable information to **2578147** people affected, including **515629** people with access and functional needs (affected) and **515629** people with limited English proficiency affected.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Frenchman Mountain Earthquake	

Operational Coordination

Functional Area(s) – Command, Control, and Coordination, National Incident Management System/Incident Command System Compliance, Stakeholder Engagement

Capability Target

Within **2** **hour(s)** of a potential or actual incident, establish and maintain a unified and coordinated operational structure and process across **9** jurisdictions affected and with **100** partner organizations involved in incident management. Maintain for **4** **week(s)**.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Active Shooter	

Forensics and Attribution

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Intelligence and Information Sharing

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Interdiction and Disruption

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Screening, Search, and Detection

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Access Control and Identity Verification

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Cybersecurity

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Physical Protective Measures

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Risk Management for Protection Programs and Activities

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Supply Chain Integrity and Security

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Community Resilience

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Long-term Vulnerability Reduction

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Risk and Disaster Resilience Assessment

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Threats and Hazards Identification

Functional Area(s) – None

Capability Target

Additional context necessary to understanding the capability target

Maximum Requirement

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Critical Transportation

Functional Area(s) – Evacuation

Capability Target

Within **72** **hour(s)** notice of an impending incident, complete the evacuation of **116030** people requiring evacuation, including **38575** people with access and functional needs (requiring evacuation).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Functional Area(s) – Debris Removal, Establishing Access

Capability Target

Within **1** **week(s)** of an incident, clear **5208** miles of road affected, to enable access for emergency responders, including private and non-profit.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Environmental Response/Health and Safety

Functional Area(s) – Hazardous Material Clean-Up

Capability Target

Within **8 hour(s)** of an incident, assess, contain, and begin cleaning up hazardous material releases from **1437** hazmat release sites.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Functional Area(s) – Decontamination

Capability Target

Within **7 day(s)** of a hazmat incident, complete decontamination procedures for **100221** exposed individuals (hazmat-related incidents).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Fatality Management Services

Functional Area(s) – Body Recovery, Mortuary Services, Victim Identification

Capability Target

Within **4 month(s)** of an incident, complete the recovery, identification, and mortuary services, including temporary storage services, for **1502** fatalities.

Additional context necessary to understanding the capability target (Optional)

The Pandemic will result in a much larger number of fatalities, however the earthquake scenario fits the capability target. The standardized language refers to recovery, identification, mortuary services and temporary storage which would not be needed in a pandemic scenario.

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Fire Management and Suppression

Functional Area(s) – Structural Firefighting

Capability Target

Within **2 week(s)** of an incident, conduct fire fighting operations to suppress and extinguish **1245** structure fires.

Additional context necessary to understanding the capability target (Optional)

Within an earthquake scenario we assume that the fires will continue to burn and reignite for several days/weeks.

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Logistics and Supply Chain Management

Functional Area(s) – Resource Management, Resource Delivery

Capability Target

Within **48** **hour(s)** of an incident, identify and mobilize life-sustaining commodities, resources, and services to **114043** people requiring shelter and **218500** people requiring food and water. Maintain distribution system for **4** **week(s)**.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Mass Care Services

Functional Area(s) – Sheltering, Ensuring Access, Feeding, Hydration, Pets, Resource Distribution

Capability Target

Within **24** **hour(s)** of an incident, provide emergency sheltering, food, and water for **104043** people requiring shelter and **218500** people requiring food and water, including **35300** people with access and functional needs (requiring accessible shelter) and **70225** people with access and functional needs (requiring food and water), and **60500** animals requiring shelter, food, and water. Maintain for **4** **week(s)**.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Functional Area(s) – Relocation Assistance

Capability Target

Within **8** **week(s)** of an incident, move **21200** people requiring temporary, non-congregate housing, including **7075** people with access and functional needs (requiring accessible, temporary, non-congregate housing), from congregate care to temporary housing.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context

Earthquake	

Mass Search and Rescue Operations

Functional Area(s) – Rescue Operations, Search Operations, Community-Based Search and Rescue Support

Capability Target

Within **7 day(s)** of an incident, conduct search and rescue operations for **50000** people requiring rescue.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Frenchman Mountain Earthquake	

On-scene Security, Protection, and Law Enforcement

Functional Area(s) – Law Enforcement, Protecting Response Personnel, Securing Disaster Areas

Capability Target

Within **12** **hour(s)** of an incident, provide security and law enforcement services to protect emergency responders and **1015744** people affected.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Southern NV Active Shooter	

Operational Communications

Functional Area(s) – Interoperable Communications Between Responders

Capability Target

Within **8** **hour(s)** of an incident, establish interoperable communications across **9** jurisdictions affected and with **100** partner organizations involved in incident management. Maintain for **4** **week(s)**.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Active Shooter	

Public Health, Healthcare, and Emergency Medical Services

Functional Area(s) – Triage and Initial Stabilization, Emergency Medical Services, Definitive Care

Capability Target

Within **3 day(s)** of an incident, complete triage, begin definitive medical treatment, and transfer to an appropriate facility **75432** people requiring medical care.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Situational Assessment

Functional Area(s) – Delivering Situation Reports, Stakeholder Engagement

Capability Target

Within **12** **hour(s)** of incident, and on a **12** **hour(s)** cycle thereafter, provide notification to leadership and **100** partner organizations involved in incident management of the current and projected situation. Maintain for **4** **week(s)**.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Active Shooter	

Infrastructure Systems

Functional Area(s) – Water Treatment and Provision

Capability Target

Within **6 month(s)** of an incident, restore service to **285000** customers (without water service).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Functional Area(s) – Sanitation

Capability Target

Within **6 month(s)** of an incident, restore service to **292000** customers (without wastewater service).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Functional Area(s) – Communications Systems

Capability Target

Within **5 day(s)** of an incident, restore service to **446481** customers (without communication service).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Frenchman Mountain Earthquake	

Functional Area(s) – Power Restoration

Capability Target

Within **30 day(s)** of an incident, restore service to **446481** customers (without power service).

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Frenchman Mountain Earthquake	

Economic Recovery

Functional Area(s) – Reopening Businesses

Capability Target

Within **45 day(s)** of an incident, reopen **18612** businesses closed due to the incident.

Additional context necessary to understanding the capability target (Optional)

The cyber attack has a potential larger impact, but for a much shorter time. Once the power is up and running the businesses will resume. In the event of an earthquake the businesses will suffer a longer duration and larger economic impact.

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Frenchman Mountain Earthquake	

Health and Social Services

Functional Area(s) – Healthcare Facilities and Coalitions, Social Services

Capability Target

Within **6 week(s)** of an incident, restore functions at **219** affected healthcare facilities and social service organizations.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Flood	

Housing

Functional Area(s) – Transition from Interim to Permanent/Long-Term Housing, Addressing Housing Shortages, Housing Accessibility

Capability Target

Within **5** **year(s)** of an incident, **62200** people requiring long-term housing, including **21125** people with access and functional needs (requiring accessible long-term housing), find and secure long-term housing.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Earthquake	

Natural and Cultural Resources

Functional Area(s) – Environmental Preservation and Restoration, Historic Preservation, Damage Assessment

Capability Target

Within **5 year(s)** of an incident, restore **5015** damaged natural and cultural resources and historic properties registered in the jurisdiction.

Additional context necessary to understanding the capability target (Optional)

Maximum Requirement (Optional)

Which of your identified threats and hazards most challenges ability to achieve this capability target?	Additional Context
Flood	