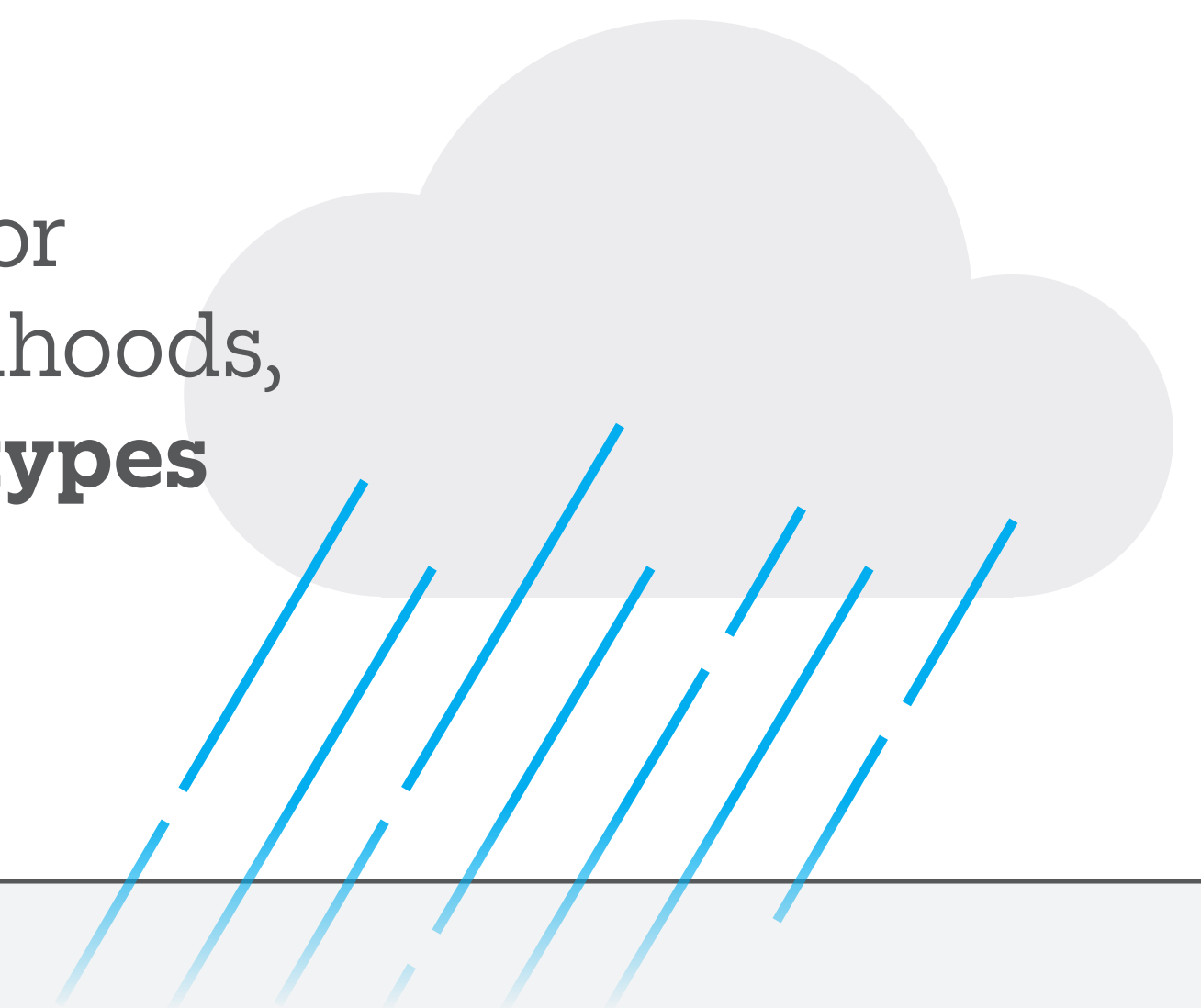


# Mitigation

Long term actions take to reduce, avoid, or eliminate impacts to lives, property, livelihoods, and ecosystems. **Listed below are the 4 types of mitigation and examples of each.**



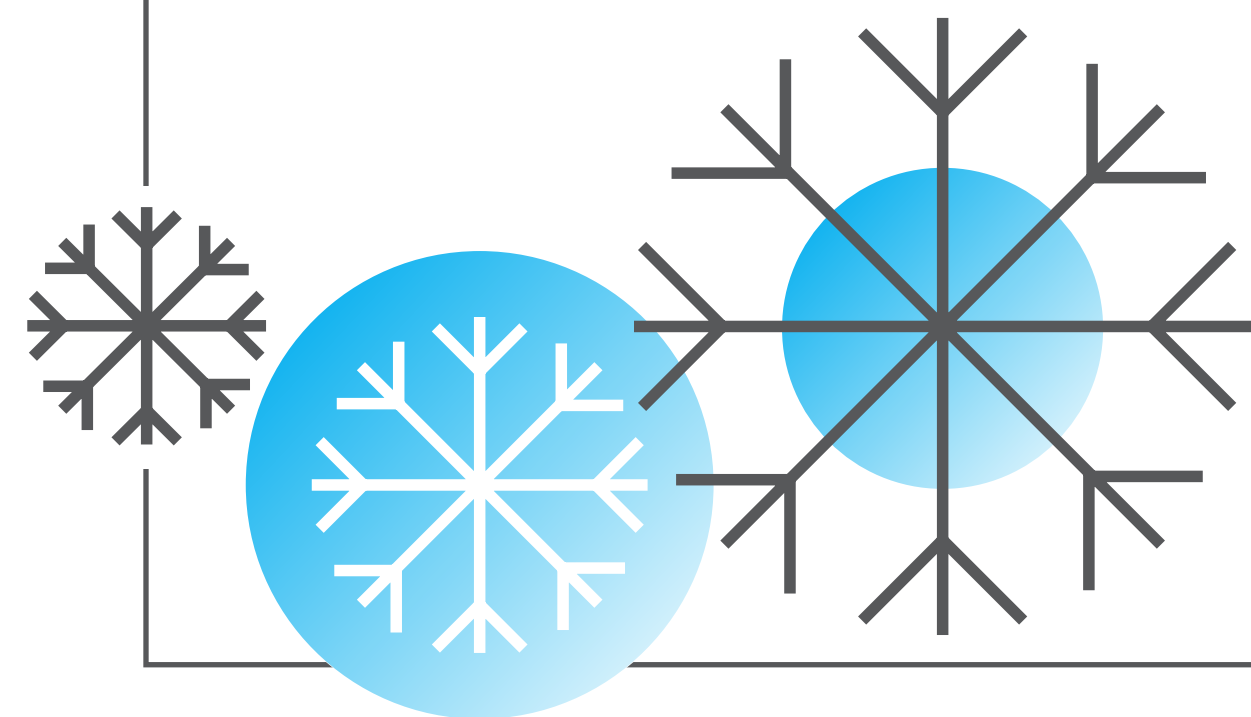
## Structure and Infrastructure

Removing structures from floodways

Engineering roads and bridges to withstand hazards

Designating safe rooms and shelters

Building dams, levees, and retaining walls



## Natural Systems Protection

Installing drought tolerant landscaping

Protecting and restoring natural mitigation features, such as riverbanks, wetlands, and dunes

Preserving open spaces that serve as natural buffers

Using prescribed burns to reduce fuel loads that threaten public safety and property

## Education and Awareness

Distributing informational materials about individual and organizational risk reduction strategies

Utilizing social media and local news channels to broadcast alerts and educational content

Encouraging property owners to purchase hazard related insurance

Hosting community workshops and events to promote hazard awareness

## Local Planning and Regulations

Limiting or prohibiting development in hazard prone areas

Adopting Building Codes

Creating or increasing setback limits on parcels near high risk areas

Joining the National Flood Insurance Program



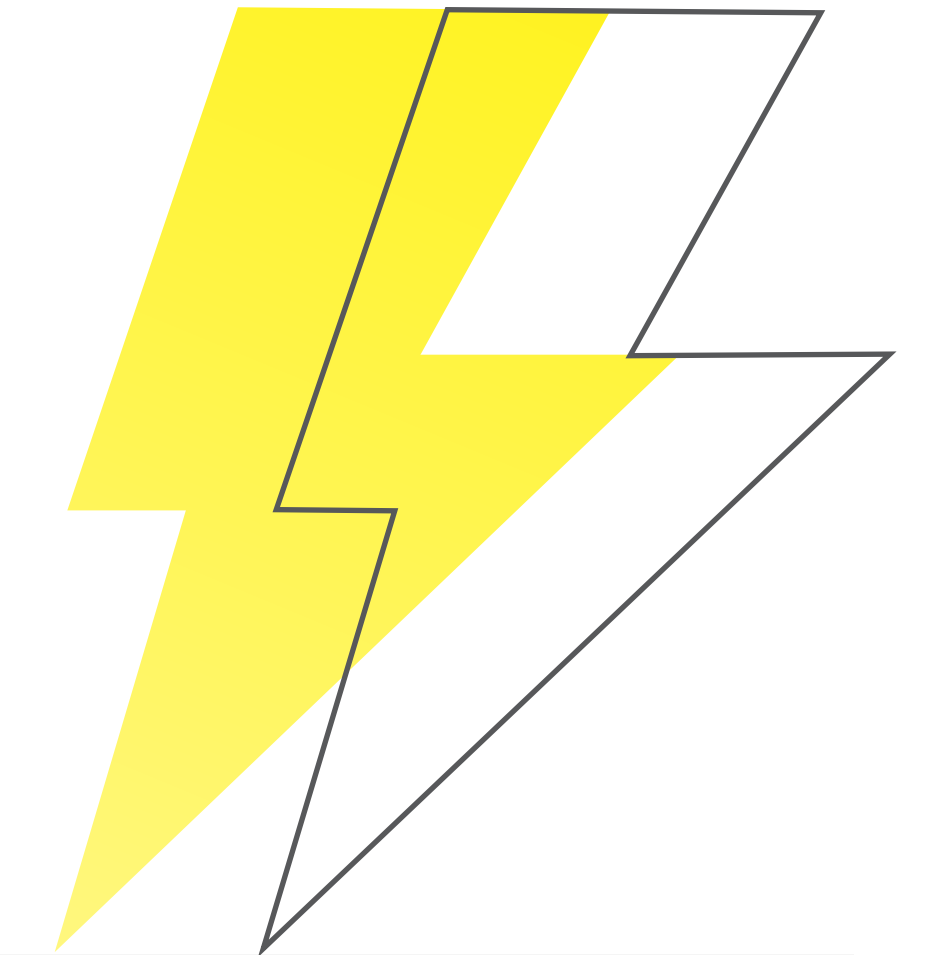
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# Multi-Hazard Mitigation Planning Process



The mitigation planning process includes 4 steps to complete a mitigation plan or a plan update.  
Plan updates must be completed every 5 years.



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#### **DROUGHT**

Lack of precipitation lasting a few weeks or longer depending on outside factors.

#### **FLOOD**

The influx of water on normally dry land, such as flash flooding and overland flooding.

#### **GEOLOGIC HAZARDS**

Events caused by Earth's internal movement and process, such as an earthquake, landslide, or sinkhole.

#### **SEVERE SUMMER WEATHER**

Intense weather events in the summer months such as tornados, wind, hail, lightning, extreme heat, and heavy rains.

#### **SEVERE WINTER WEATHER**

Intense weather events in the winter months such as blizzards, heavy snow, ice storms, and extreme cold.

#### **SPACE WEATHER**

Any condition in space that can impact satellites and Earth's energy grid.

#### **URBAN FIRE**

Unplanned and uncontrolled fires in developed areas.

#### **WILDLAND FIRE**

Unplanned fires in natural areas such as grass fires, forest fires, and scrub fires.

#### **INFECTIOUS DISEASE/ PEST INFESTATION**

Widespread outbreaks of diseases or invasion of harmful pests affecting humans, wildlife, and ecosystems.

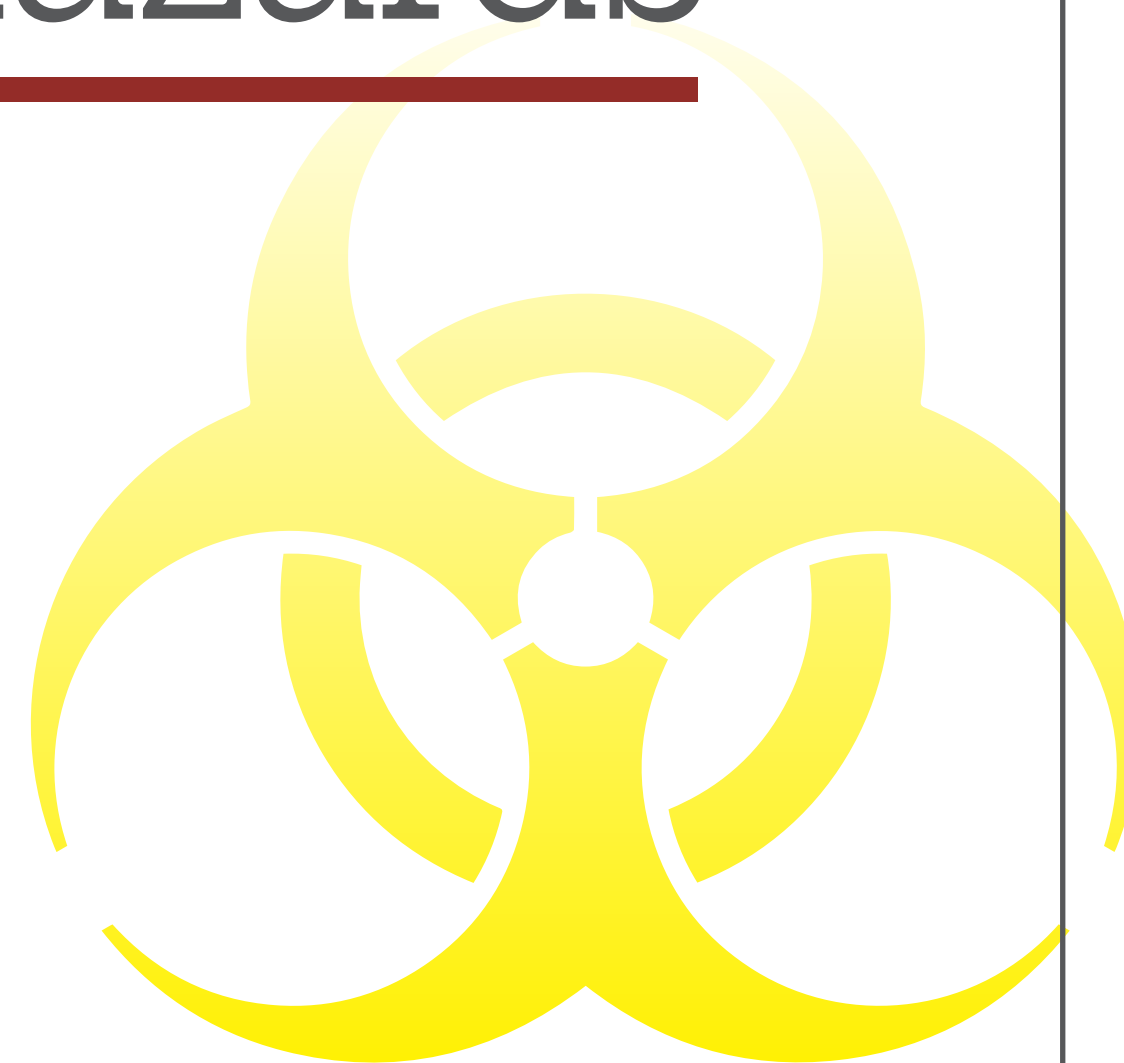
## Technological Hazards

#### **HAZARDOUS MATERIALS RELEASE**

A release of any substance that has the potential to cause harm to human, animal, or ecosystem health.

#### **TRANSPORTATION INCIDENT**

Any largescale vehicular, railroad, aircraft, or watercraft incident.



## Adversarial Hazards

#### **CRIMINAL/TERRORIST NATION ATTACK**

Attacks or disturbances meant to harm or disrupt the routines of citizens and government.

#### **CYBER ATTACK**

The attack or hijack in the digital realm such as hacking, phishing, malware, or data breaches.



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