Threat and Hazard Identification Risk Assessment (THIRA) and the State Preparedness Report (SPR)

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Kentucky Office of Homeland Security
Kentucky Division of Emergency Management

Jason Childers - KOHS
Harry James - KYEM
Working Together

• We are **ALL** part of the state THIRA (state, city, county)

• Local **PARTICIPATION** is crucial

• KOHS and KYEM are **FACILITATORS** for the THIRA
What Does It Do?

Provides jurisdiction of any size the template needed to develop a THIRA of their own.

• Scalable

• Whole Community Approach

• Once completed, document is easy to update
1. What could happen in my community?
2. Describe how a threat or hazard could happen in my community, and when and where it could happen.
3. How would each threat or hazard affect the core capabilities identified in the National Preparedness Goal?
4. Using the information above, set the level of capability a community needs to prevent, protect against, mitigate, respond to, and recover from its risks.
5. Use the capability targets to decide how to use resources from the whole community
Possible Kentucky Threats

<table>
<thead>
<tr>
<th>Natural</th>
<th>Technological</th>
<th>Human-caused</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resulting from acts of nature</td>
<td>Involves accidents or the failures of systems and structures</td>
<td>Caused by the intentional actions of an adversary</td>
</tr>
<tr>
<td>Disease outbreak</td>
<td>Airplane crash</td>
<td>Civil disturbance</td>
</tr>
<tr>
<td>Drought</td>
<td>Dam/Levee failure</td>
<td>Cyber incidents</td>
</tr>
<tr>
<td>Earthquake</td>
<td>Hazardous materials</td>
<td>Sabotage</td>
</tr>
<tr>
<td>Epidemic</td>
<td>Power failure</td>
<td>School violence</td>
</tr>
<tr>
<td>Flood</td>
<td>Radiological release</td>
<td>Terrorist acts</td>
</tr>
<tr>
<td>Hurricane</td>
<td>Train derailment</td>
<td></td>
</tr>
<tr>
<td>Landslide</td>
<td>Urban conflagration</td>
<td></td>
</tr>
<tr>
<td>Tornado</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wildfire</td>
<td></td>
<td></td>
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<tr>
<td>Winter storm</td>
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</tr>
</tbody>
</table>
2015 THIRA Threats

- Earthquake
- Multiple storm event
- Release of chemical agent
- Cyber attack on electrical grid

2016

Information provided by local THIRAs will be used to develop threats and hazards for the 2016 product.
1. **Identify the threats and hazards of concern** - What could happen in my community?

2. **Give the threats and hazards context** - Describe how a threat or hazard could happen in my community, and when and where it could happen.

3. **Examine the core capabilities using the threats and hazards** - How would each threat or hazard affect the core capabilities identified in the National Preparedness Goal?

4. **Set capability targets** - Using the information above, set the level of capability a community needs to prevent, protect against, mitigate, respond to, and recover from its risks.

5. **Apply the results** - Use the capability targets to decide how to use resources from the Whole Community.

**Adaptable to the needs and resources of any jurisdiction**
Step Two: Details

• When might a threat or hazard occur?
  - What time of day?
  - What season?

• Where might the threat or hazard occur?
  - Populated areas?
  - Industrial or residential areas?

• Put these into descriptive statements
  - Ex: “An EF3 tornado strikes the business district on a Saturday afternoon in the Spring.”
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### Step 3: Core Capabilities

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Protection</th>
<th>Mitigation</th>
<th>Response</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forensics and Attribution</td>
<td>Access Control and Identity Verification</td>
<td>Planning</td>
<td>Critical Transportation</td>
<td>Economic Recovery</td>
</tr>
<tr>
<td>Intelligence and Information Sharing</td>
<td>Cybersecurity</td>
<td>Public Information and Warning</td>
<td>Environmental Response, Health and Safety</td>
<td>Health and Social Services</td>
</tr>
<tr>
<td>Interdiction and Disruption</td>
<td>Intelligence and Information Sharing</td>
<td>Operational Coordination</td>
<td>Fatality Management Services</td>
<td>Housing</td>
</tr>
<tr>
<td>Screening, Search, and Detection</td>
<td>Interdiction and Disruption</td>
<td>Community Resilience</td>
<td>Infrastructure Services</td>
<td>Infrastructure Systems</td>
</tr>
<tr>
<td>Physical Protective Measures</td>
<td>Risk and Disaster Resilience Assessment</td>
<td>Mass Search and Rescue Operations</td>
<td>Natural and Cultural Resources</td>
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<tr>
<td>Risk Management</td>
<td>Threats and Hazard Identification</td>
<td>On-scene Security and Protection</td>
<td></td>
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<tr>
<td>Screening, Search, and Detections</td>
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<td>Operational Communications</td>
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<tr>
<td>Supply Chain Integrity and Security</td>
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<td>Public and Private Services and Resources</td>
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<td>Public Health and Medical Sources</td>
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<td>Situational Assessment</td>
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Step 4: Set Capabilities Targets

This is where we really need your help!

• Examine the various possible threats/hazards, and determine the level of capability a community needs to prevent, protect against, mitigate, respond to, and recover from its risks.

• What would that community need in order to efficiently prevent or handle that threat/hazard?
Adaptable to the needs and resources of any jurisdiction

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Step 5: Apply the Results

• In what ways are we prepared for these events in the various Core Capability Areas?

• What is our level of preparedness?
  - Are our capabilities where they should be?
  - Are we prepared enough on all core capabilities, or do some areas need work more than others?
  - What do we need to do to improve?

• Use this assessment to establish goals for the state
Questions?

Jason Childers  
Cyber Security Analyst  
Kentucky Office of Homeland Security  
Office of the Governor  
200 Mero Street  
Frankfort, KY  40601

Email: jason.childers@ky.gov  
Phone: (502) 564-2081

Harry L. James  
Planning Branch Manager  
Kentucky Division of Emergency Management  
100 Minuteman Parkway – EOC Rm 210a  
Frankfort, KY  40601

Email: harry.l.james4.nfg@mail.mil  
Phone: (502) 607-1760