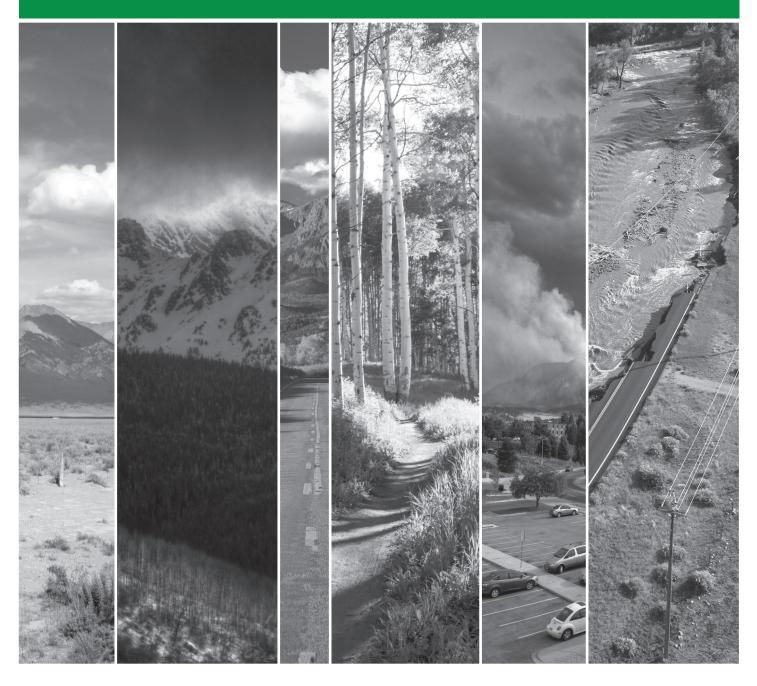
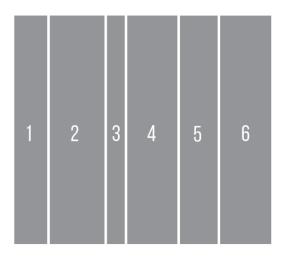
PLANNING FOR HAZARDS Land Use Solutions for Colorado

WORKBOOK

PARTICIPANT EDITION





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TABLE OF CONTENTS

FRAMEWORK AND PURPOSE	1
WELCOME	1
OVERVIEW OF THE WORKBOOK	1
Relationship to the 2016 Planning for Hazards Guide	1
OVERVIEW OF THE WORK SESSIONS	2
Purpose of the Work Sessions Tailoring Work Sessions to Your Community Suggested Timeline Descriptions of Individual Work Sessions	2
READINGS AND ACTION ITEMS	5
GETTING STARTED	7
THE WORKING GROUP	7
PROJECT MANAGER VS. FACILITATOR	7
THE PARTICIPANT'S ROLE	7
REVIEW THE PLANNING FOR HAZARDS GUIDE	7
WORK SESSION 1 – PROVIDE INTRODUCTION AND FRAMEWORK	9
PURPOSE	9
TIMING	9
SUPPORTING MATERIALS FOR THIS WORK SESSION	9
ANNOTATED AGENDA	9
TO PREPARE FOR THIS WORK SESSION	
KEY ISSUES TO DISCUSS AT MEETING	11
Identify Community Issues and Current Projects Underway Frame the Risk Assessment Process and Identify Hazards to be Addressed Collect and Review Background Information and Data Develop a Stakeholder Engagement Strategy	11 12
POST WORK SESSION ACTION ITEMS	15
Readings and Supporting Information Considerations before Beginning the HIRA or Local Risk Assessment Process Preparing the HIRA or Local Risk Assessment	15
WORK SESSION 2 – ASSESS COMMUNITY VIII NERABILITY	19

PURPOSE	
TIMING	
SUPPORTING MATERIALS FOR THIS WORK SESSION	
ANNOTATED AGENDA	
TO PREPARE FOR THIS WORK SESSION	20
KEY ISSUES TO DISCUSS AT MEETING	20
Assess Community Vulnerability Develop Problem Statements	
POST WORK SESSION ACTION ITEMS	22
WORK SESSION 3 – ASSESS CAPABILITIES AND DEVELOP PLANNING STRATEGIES	25
PURPOSE	25
TIMING	25
SUPPORTING MATERIALS FOR THIS WORK SESSION	25
ANNOTATED AGENDA	25
TO PREPARE FOR THIS WORK SESSION	
KEY ISSUES TO DISCUSS AT MEETING	26
Discuss Draft HIRA or Local Risk Assessment Review Community Capabilities Discuss Initial Planning Implementation Strategies	27
POST WORK SESSION ACTION ITEMS	
WORK SESSION 4 - IDENTIFY SPECIFIC PLANNING IMPLEMENTATION TOOLS	31
PURPOSE	
TIMING	
SUPPORTING MATERIALS FOR THIS WORK SESSION	
ANNOTATED AGENDA	
TO PREPARE FOR THIS WORK SESSION	
KEY ISSUES TO DISCUSS AT MEETING	
Planning Implementation Tools Prioritization Exercise POST WORK SESSION ACTION ITEMS	
Readings and Supporting Information Developing Planning Implementation Tools	

WORK SESSION 5 - REFINE DRAFT PLANNING IMPLEMENTATION TOOLS	35
PURPOSE	.35
TIMING	.35
SUPPORTING MATERIALS FOR THIS WORK SESSION	.35
ANNOTATED AGENDA	.35
TO PREPARE FOR THIS WORK SESSION	.36
KEY ISSUES TO DISCUSS AT MEETING	.36
Review Draft Implementation Tools Identify Outstanding Tasks Develop Process for Approval and/or Adoption	.37
POST WORK SESSION ACTION ITEMS	.37
WORK SESSION 6 - ESTABLISH IMPLEMENTATION AND MAINTENANCE PROCEDURES	39
PURPOSE	.39
TIMING	.39
SUPPORTING MATERIALS FOR THIS WORK SESSION	.39
ANNOTATED AGENDA	
TO PREPARE FOR THIS WORK SESSION	
KEY ISSUES TO DISCUSS AT MEETING	
Discuss Final Draft Implementation Tools Establish Protocols for Ongoing Administration and Maintenance Identify Future Risk Reduction Projects	.41



FRAMEWORK AND PURPOSE

WELCOME

This workbook was developed by the Colorado Department of Local Affairs (DOLA) to facilitate and implement land use strategies for reducing risk in communities throughout the state (or beyond). This workbook provides your community with necessary background information and the tools to initiate a planning process (including sample agendas, discussion questions, and suggestions for further reading) to prepare for and mitigate hazards by integrating resilience and hazard mitigation principles into local plans and regulations.

Planning for hazards will leave a lasting impact on your community by reducing risk to hazards while addressing other critical planning needs. *Thank you for your desire to strengthen your community!*

OVERVIEW OF THE WORKBOOK

This workbook is a step-by-step guide to participating in the planning process.

RELATIONSHIP TO THE 2016 PLANNING FOR HAZARDS GUIDE

In 2016, DOLA developed *Planning for Hazards: Land Use Solutions for Colorado*, a guide that enables counties and municipalities to prepare for and mitigate multiple hazards by integrating resilience and hazard mitigation principles into plans, codes, and standards related to land use and the built environment. The guide provides detailed, Colorado-specific information about how to assess a community's risk level to hazards and how to identify the most appropriate land use planning tools and strategies and implement those tools to reduce a community's risk. In addition to the printed guide, DOLA developed a website that allows the user to browse the content of the guide and view additional media content such as webinars and videos. Rather than repeating



A snapshot of the planningforhazards.com homepage

information that is presented in the *Planning for Hazards* guide, this workbook provides cross-references to relevant information where appropriate.

You can familiarize yourself with the *Planning for Hazards* guide at: **www.planningforhazards.com**

OVERVIEW OF THE WORK SESSIONS

PURPOSE OF THE WORK SESSIONS

This workbook is organized around a series of six work sessions, each with a defined set of meeting objectives and outcomes, and includes the supporting materials necessary participate in the work session. By the end of the sixth work session, the community should have successfully implemented one or more planning tools that reduce risk to hazards.

The work sessions are intended to convene the working group at key milestones of the project, such as discussing the Hazard Identification and Risk Assessment (HIRA) and prioritizing planning implementation tools. The work sessions are an opportunity to solicit feedback from the working group, to brainstorm strategies, and to follow up on actions from previous work sessions or related projects. Actions necessary for completing the major tasks of the project will also occur between work sessions.

TAILORING WORK SESSIONS TO YOUR COMMUNITY

There is not a one-size-fits-all approach to planning. This workbook provides a basic template to provide structure to the work sessions; however, some communities may choose to adjust their work sessions based on local factors such as the capacity and size of the working group, the status of the community's HIRA or local risk assessment, and whether or not an outside consultant is hired to assist with the project.

The risk assessment is a key component to planning for hazards and is an important up-front consideration for tailoring the work sessions to your community. Few communities initiating this process will be starting from scratch when identifying hazards and assessing risk to those hazards. Many Colorado communities address risk at some level through a HIRA in an existing FEMA-approved hazard mitigation plan. However, some municipal jurisdictions within a countywide hazard mitigation plan may not have sufficient local risk assessment data to make local planning decisions, and may require a more fine-grained risk assessment approach.

This workbook and the respective work sessions build on the FEMA hazard mitigation planning guidance as it pertains to the HIRA, but are designed for communities with minimal previous experience assessing and planning for hazards, and that have not recently completed a local risk assessment. Communities with extensive planning and a current risk assessment may choose to streamline this process by consolidating or removing work sessions to accommodate local needs and schedules.

SUGGESTED TIMELINE

The following is a suggested overall project schedule to consider for a planning for hazards project, including the six work sessions. This suggested one-year timeline should be tailored to your community depending on local capacity, the level of effort required to prepare a risk assessment, and the types of planning tools selected for implementation.

	Months											
Tasks and Work Sessions	1	2	3	4	5	6	7	8	9	10	11	12
Work Session 1 – Provide Introduction and Framework	*											
Work Session 2 – Assess Community Vulnerability		7										
Prepare Risk Assessment/HIRA												
Work Session 3 – Assess Capabilities and Develop Planning Strategies					*							
Work Session 4 – Identify Specific Planning Implementation Tools							*					
Develop Implementation Tools												
Work Session 5 – Refine Draft Planning Implementation Tools									\star			
Work Session 6 –Establish Implementation and Maintenance Procedures											*	
KEY: ★ = work session =	ongoin	g work										

DESCRIPTIONS OF INDIVIDUAL WORK SESSIONS

The six proposed work sessions are summarized below, and each is estimated to be approximately two hours in duration (though some may require more or less time).

Work Session 1 – Provide Introduction and Framework

This first work session should be considered the project kick off meeting. During this work session, the working group will discuss overall project objectives and individual roles, an overview of the risk assessment process and data collection, and will begin developing a stakeholder engagement strategy. The results of this meeting will shape the working group's development of the HIRA (or another variation of a local risk assessment), which will be developed beginning after this work session with a full draft prepared before Work Session 3.

Key issues to discuss at meeting:

- Identify community issues and current projects underway
- Frame the risk assessment process and identify hazards to be addressed
- Collect and review background information and data
- Develop a stakeholder engagement strategy

Work Session 2 – Assess Community Vulnerability

During this work session, the working group will discuss the results of the hazard frequency and severity analysis and use that information to identify potential impacts of each hazard and community vulnerabilities based on those risks. The analysis and accompanying maps will provide a foundation to develop and summarize the greatest issues in terms of risk and vulnerability to hazards through problem statements, which will be used in subsequent work sessions to identify land use planning solutions.

Depending on your community, a local, county, or regional risk assessment may already exist within hazard mitigation plans or as a stand-alone document that could be updated, expanded on, or refined through this project. This work session should be tailored accordingly.

Key issues to discuss at meeting:

- Assess community vulnerability
- Develop problem statements

Work Session 3 - Assess Capabilities and Develop Planning Strategies

This work session is intended to identify how the results of the risk assessment can be used to develop or modify the community's land use tools and strategies to reduce risk to hazards. Participants will identify gaps in current programs, plans, and regulations based on the community's vulnerability to hazards, and generate a list of planning strategies for consideration.

Key issues to discuss at meeting:

- Discuss draft HIRA or local risk assessment
- Review community capabilities
- Discuss initial planning implementation strategies

Work Session 4 - Identify Specific Planning Implementation Tools

The intent of this work session is to prioritize potential land use implementation tools to reduce risk to hazards. This work session can also be used to begin developing an action plan for drafting selected implementation tools. Following this work session, the project manager will lead the development of the selected planning implementation tools with involvement from working group participants and/or outside consultants, and will present drafts of the tools during Work Session 5.

Key issue to discuss at meeting:

• Planning implementation tools prioritization exercise

Work Session 5 - Refine Draft Planning Implementation Tools

The intent of this work session is to review and refine the draft planning implementation tools (such as draft ordinances) and develop a process for formal adoption or implementation of the tool once complete. Draft planning implementation tools should be distributed well in advance of this work session (two or three weeks depending on length and complexity of the tools). This work session requires the most tailoring since the focus of the meeting will depend on the types of tools selected.

NOTE: Depending on the types of tools selected, review and refinement of the drafts may require one or more additional meeting(s).

Key issues to discuss at meeting:

Review draft implementation tools

- Identify outstanding tasks
- Develop process for approval and/or adoption

Work Session 6 - Establish Implementation and Maintenance Procedures

The purpose of this final work session is to establish protocols for implementation and maintenance of the planning tools and to discuss next steps in your community's hazard risk reduction efforts. Prior to this work session, the working group will receive final drafts of the planning tools and will discuss how the tools will be administered, monitored, and amended over time and will discuss further involvement of the working group.

Key issues to discuss at meeting:

- Discuss final draft implementation tools
- Establish protocols for ongoing administration and maintenance
- Identify future risk reduction projects

READINGS AND ACTION ITEMS

For each work session, the workbook identifies readings and assigned tasks to help prepare for each work session. These are included in the following sections:

- **"To prepare for this work session."** This section describes the recommended readings or tasks that are intended to better prepare the facilitator and participants for the work session.
- **"Post work session action items."** This section looks ahead to the next work session and provides readings that preview topics to be covered at the following session and specific action items identified during the previous work session that need to be completed before the next work session.



GETTING STARTED

THE WORKING GROUP

Working group participants are selected because of their expertise in land use planning, hazard mitigation, or both. Participants may be planners, emergency or floodplain managers, elected or appointed officials, or citizen advocates for the community. Participants will work with others who have the expertise or play a role in contributing to a safer community by implementing strategies via planning and land use regulations. The working group will participate in a series of six work sessions (summarized earlier) to implement planning strategies that reduce your community's risk to hazards.

PROJECT MANAGER VS. FACILITATOR

In some instances the workbook refers to a "project manager" either in addition to or instead of the "facilitator." This is an important distinction. In some communities, the local project manager may also be the facilitator, whereas in other communities there could be a separate facilitator that is either an employee of the community or an individual or firm hired by the community to conduct the work sessions and develop planning implementation tools.

THE PARTICIPANT'S ROLE

During the first work session, the facilitator will describe in further detail the individual roles of the working group participants. At a minimum, the working group participant will contribute in the following ways:

- 1. Actively participate in approximately six work sessions;
- 2. Contribute meaningful feedback on draft deliverables;
- 3. Serve as a local advocate for planning for hazards; and
- 4. Report back to others that they work with and to people in their community.

Some participants may be asked to play a specific role depending on their relationship to the project activities and their particular background. For example, during data collection, the team will rely heavily on planners and GIS experts to coordinate data transfers. As another example, the team will rely heavily on emergency management personnel to contribute substantially to the development of the HIRA or local risk assessment.

REVIEW THE PLANNING FOR HAZARDS GUIDE

To establish initial common ground, each participant should review *Planning for Hazards: Land Use Solutions for Colorado* in print form or by visiting <u>planningforhazards.com</u>. At a minimum, participants should focus on the following key elements of the guide (page numbers refer to the printed version and hyperlinks link to the corresponding information on the website):

- Chapter 2 Planning Framework (pp. 2-12) <u>planningforhazards.com/planning-framework</u>
- Summary of Planning Tools and Strategies (pp. 28-29) <u>planningforhazards.com/planning-tools-and-strategies</u>
- Introductions to the six types of planning tools discussed in the guide:
 - Addressing Hazards in Plans and Policies (pp. 31-32) <u>planningforhazards.com/addressing-hazards-plans-and-policies</u>
 - Strengthening Incentives (p. 77) planningforhazards.com/strengthening-incentives
 - Protecting Sensitive Areas (pp. 103-104)
 planningforhazards.com/protecting-sensitive-areas
 - Improving Site Development Standards (pp. 145-146) planningforhazards.com/improving-site-development-standards
 - Improving Buildings and Infrastructure (pp. 179-180)
 <u>planningforhazards.com/improving-buildings-and-infrastructure</u>
 - Enhancing Administration and Procedures (p. 195)
 planningforhazards.com/enhancing-administration-and-procedures
- Glossary List of acronyms and defined terms (for reference throughout this process) (pp. 227-234) <u>planningforhazards.com/glossary</u>

WORK SESSION 1 – PROVIDE INTRODUCTION AND FRAMEWORK

PURPOSE

This first work session should be considered the project kick off meeting. During this work session, the working group will discuss overall project objectives and individual roles, an overview of the risk assessment and data collection process, and will begin developing a stakeholder engagement strategy. The results of this meeting will shape the working group's development of the risk assessment, which will be developed after this work session.

TIMING

The first work session should occur during the first month of the project.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Sign-in Sheet
- Agenda
- Handout 1 hazard frequency and severity chart
- Handout 2 Initial data collection checklist
- Handout 3 HIRA summary outline and responsibilities

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 1 are provided at the end of this work session description.

1. Welcome and introductions (10 minutes)

- 2. Project overview (25 minutes)
 - **a. Project background and goals**. Discuss project goals and the rationale for embarking on this project. Why this community? Why now?
 - **b.** Timeline. Discuss project schedule and identify any potential constraints.
 - c. Individual roles and expectations. Discuss the roles of the working group with participants.

3. Identify community issues and current projects underway (10 minutes)

Highlight other relevant projects that are either underway or are planned in the next few months. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

4. Frame the risk assessment process and identify hazards to be addressed (40 minutes) The facilitator will provide a brief presentation of the risk assessment methodology. This presentation will also identify any existing local information that may be relevant to the HIRA or local risk assessment process. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

5. Collect and review background information and data (10 minutes)

Discuss available community plans, data, and mapping needs. This first work session is the time to begin identifying background information necessary to complete the project. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

6. Develop a stakeholder engagement strategy (20 minutes)

Discuss how stakeholders and/or the public should be engaged throughout the project. Document the results and update as necessary throughout the project. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

7. Next steps (5 minutes)

Summarize any action items from the work session, provide a quick overview of what will be covered at the next work session, and discuss assignments and background reading to complete prior to the next work session.

TO PREPARE FOR THIS WORK SESSION

Planning for Hazards Guide

- Read Chapter 2 The Planning Framework pp.5-12 <u>planningforhazards.com/planning-</u> <u>framework</u>
- Read "We don't have GIS. How can we map our hazard risk?" sidebar discussion on page 16 <u>planningforhazards.com/how-do-i-assess-local-risks-hazards</u>
- Read Summary of Common Data Sources pp. 20-22 <u>planningforhazards.com/what-hazards-may-affect-my-community</u>
- Read Chapter 3 Hazard Identification and Risk Assessment in the *Planning for Hazards* guide – pp. 13-22, or online at <u>planningforhazards.com/hazard-identification-and-risk-assessment</u> (This material will walk you through identifying which hazards may affect your community, and assessing local risks to those hazards.)
- Browse the *Planning for Hazards* guide appendix for descriptions of each hazard profiled in the guide. <u>planningforhazards.com/hazard-identification-and-risk-assessment</u>
- Browse "Interdepartmental coordination- getting them involved; keeping them involved" sidebar discussion on page 32 <u>planningforhazards.com/addressing-hazards-plans-and-</u> <u>policies</u>
- Browse Forming a Network pp.216-217 <u>planningforhazards.com/implementing-planning-tools-and-strategies</u>

Other Resources

- Colorado Resiliency Resource Center: <u>coresiliency.com</u>. This is an online interactive hub for resiliency knowledge and resources in Colorado and also provides some supplementary implementation strategies to the *Planning for Hazards* guide.
- FEMA's Local Mitigation Handbook, Task 3 "Create an Outreach Strategy" pp. 3-1 to 3-10, fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf

KEY ISSUES TO DISCUSS AT MEETING

IDENTIFY COMMUNITY ISSUES AND CURRENT PROJECTS UNDERWAY

[AGENDA ITEM 3]

The facilitator will lead a discussion on the various related projects that are currently underway in the community, which will help identify potential areas of overlap and may influence the project schedule. For example, if the community is currently updating its zoning ordinance, any strategies that may be addressed through this planning for hazards project could potentially be coordinated with the zoning ordinance update. Ongoing projects are not limited to planning processes, but may also include capital and/or development projects. It is helpful to be aware of major public works projects, plans for new critical infrastructure, or major subdivisions or developments that may impact, or be impacted by the project.

The facilitator will also lead a discussion on other issues facing the community. For example, a stakeholder may be aware of a City Council policy discussion on affordable housing that may need special consideration when developing potential land use planning strategies through this project.

Discussion Questions

- 1. What are the biggest issues facing the community in the next 5 years?
- 2. What other projects are currently underway that should be coordinated with for *this* planning for hazards project?
- 3. Do you have, or are you aware of any other major projects planned in the next 6 months?
- 4. Are there any scheduling constraints for this project (e.g., budget cycle, elections, or other project commitments)?
- 5. What do you see as the biggest opportunities and challenges facing this project?

FRAME THE RISK ASSESSMENT PROCESS AND IDENTIFY HAZARDS TO BE ADDRESSED

[AGENDA ITEM 4; Handout 1: Hazard Frequency and Severity Chart; Handout 2: HIRA Summary Outline and Responsibilities]

The facilitator will provide an overview of the HIRA (or local risk assessment) process and solicit feedback on the types of hazards and local issues that may influence development of a local risk assessment. Many communities will be starting from an existing FEMA-approved hazard mitigation plan for this exercise. For those communities, this discussion should focus on the types of hazards that should be emphasized through this planning for hazards project, and identify any gaps to be addressed. For communities that do not have any existing hazard identification or risk assessment,

the facilitator will go through the list of hazards from the State Hazard Mitigation Planning Office and the Planning for Hazards guide/website to begin the dialogue.

The facilitator will lead the working group through an exercise to determine the types, location, and extent of hazards and to review previous occurrences and discuss probability of future events. The discussion may also include identifying additional stakeholders or resources that may help inform the HIRA. The hazard frequency and severity chart handout allows the meeting participants to document the probability and the potential severity of each type of hazard event in the community. For communities that already have a recent HIRA, this chart can be populated by information that was included in the existing HIRA.

Discussion Questions

- 1. What are the biggest threats to the community?
- 1. Should human-caused hazards be considered with the HIRA? If so, which?
- 2. Are there local subject matter experts that can assist with the risk assessment?
- 3. When considering each hazard, do they occur in a specific geographic location that can be mapped?

COLLECT AND REVIEW BACKGROUND INFORMATION AND DATA

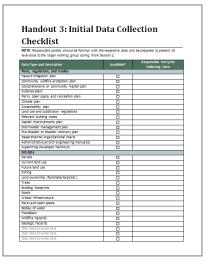
[AGENDA ITEM 5; Handout 3: Initial Data Collection Checklist]

Another important priority of this first work session is to discuss identifying and collecting necessary data for background review, mapping, and assessing the community's risks and vulnerabilities. Depending on your community, the facilitator and/or project manager may have already assembled a substantial amount of background information and data, therefore requiring minimal discussion on this topic with working group participants. By the end of this work session, the collection of all outstanding data will be assigned to working group participants.

Types of Data and Information

Many sources of data and information can help inform this planning for hazards implementation process. A summary of common hazard data sources is included in the *Planning for Hazards* guide beginning on page 20 (or online: <u>planningforhazards.com/what-hazards-may-affect-my-</u> <u>community</u>). Descriptions of some local data sources are provided below. For more specific information related to data collection, see the data collection checklist.

• **Planning and regulatory documents.** Determine relevant planning documents that should be reviewed. These include adopted plans and policies, land use regulations, and any other relevant ordinances or resolutions that could inform the project. Especially important is the community's comprehensive or master plan, and whether or not such plan provides support for implementing planning tools that reduce risk to hazards.



A data collection checklist is included in the supporting materials

- **GIS data.** Determine whether the community uses Geographic Information Systems (GIS), and if so, how much data is readily available for use in preparing or updating the Hazard Identification and Risk Assessment. Establish a data-sharing agreement if necessary between the data holder and the working group facilitator, firm, or individual who will be using such data.
- Administrative data. It may also be helpful to obtain supporting administrative documents relevant to land use procedures such as departmental organizational charts, explanatory handouts for developers, or administrative manuals containing engineering standards or procedural guidance. These should be discussed with the appropriate stakeholders either during the first work session or shortly after.
- **Community data.** Useful data about your community could include demographic information and data on the number and types of permits issued each year.
- **Hazard data.** Information about the frequency and severity of hazards can be found in existing local plans including but not limited to hazard mitigation plans, community wildfire protection plans, and stormwater master plans.

What Do I Do with the Data?

For each piece of data collected, the assigned responsible party should be familiar enough with the information to share it with the larger working group. For example, whoever is tasked with collecting and distributing the community's comprehensive plan should be prepared to report on that plan's relationship to this project, including:

- Does the plan have a hazard mitigation component?
- Does the future land use map indicate hazardous areas?
- Are there policies in the plan that will inform this project?

For other types of data, such as GIS data, the distributor of such data should be able to provide details about the data (e.g., how it was created) and identify areas where the data could be improved (e.g., more accurate at the parcel-level).

Discussion Questions

- 1. Are copies of planning documents readily accessible online?
- 2. Do you have GIS data that can be shared with the working group?
- 3. Does use of GIS data require a user agreement?
- 4. Are there other data sources that are not on the handout that may be useful to the working group?
- 5. How should data be distributed and shared among the working group (e.g., Google docs, dropbox or other software, or assign a point person to email the data)?

DEVELOP A STAKEHOLDER ENGAGEMENT STRATEGY

[AGENDA ITEM 6]

The final component of the first work session is to develop a stakeholder engagement strategy, which will communicate important information about the project to stakeholders and the broader public, beyond the working group. Suggested steps for preparing the stakeholder engagement strategy are provided below:

- STEP 1 Identify Who Will be Engaged. At the onset of the project, the working group should determine how the broader community will be engaged throughout the project. Some communities may determine that convening the working group itself is sufficient, and that wider public engagement is not necessary. Other communities may wish to develop a more expansive outreach strategy that includes a wide range of community stakeholders. Under either scenario, it is essential to keep local elected and appointed officials and other leadership staff up to speed on the project to improve buy-in and to avoid unnecessary delays toward adoption of the implementation tools. For more on communicating with elected and appointed officials, see page 24 of the *Planning for Hazards* guide or visit: planningforhazards.com/how-do-i-apply-risk-assessment-results-planning
- STEP 2 Identify Appropriate Milestones for Stakeholder Outreach. Develop a list of the milestones where broader public outreach may be important. For example, presenting the results of the HIRA could be a good time to share the technical results of the working group meetings more broadly. Additional milestones should be revisited once the planning implementation tools have been selected.
- **STEP 3 Establish Outreach Strategy and Process.** The project manager and/or facilitator should document a strategy summarizing exactly how those stakeholders will be involved. The strategy should consider the following:
 - **Messaging and branding**. Is it necessary to develop a brand for the project, including a project logo or other communication tools? Also, develop a clear message so that all project participants are unified in their descriptions to other individuals throughout the community. This will help build community support and buy-in for the project.
 - **Communications strategy**. How will stakeholders be notified of draft deliverables or upcoming events? Will there be a project listserv or other regular announcements? What about questionnaires or social media posts?
- **STEP 4 Develop Outreach Materials**. Start developing outreach materials so that they can be easily implemented when the time is right. Identify potential meeting or outreach dates to the extent possible so that the community can start planning in advance.

The working group will discuss the extent of outreach and appropriate methodologies. Some working group participants may also be asked to contribute to the development of the stakeholder engagement strategy through individual writing assignments (e.g., a paragraph on social media use) or by seeking additional information (e.g., questions for the Town Administrator or the public information officer) to assist with development of the strategy.

Documenting the Strategy

The stakeholder engagement strategy should be memorialized through a memorandum or a brief plan that documents the agreed upon approach that can be amended as the project progresses, and modified depending on the type of planning tools chosen later in the project.

Related Discussion Questions

1. Who in the community, either staff, elected officials, or members of the community should be involved with this project?

- 2. What level of involvement will be required for appointed and elected officials (e.g., further education, frequent updates, or formal adoption)?
- 3. What are the key project milestones where additional outreach or engagement is expected?
- 4. Does this project follow another planning process (e.g., comprehensive plan update) or event (e.g., recent flooding) that can be used to provide a framework or further justification for the project?
- 5. What types of outreach have worked in the past (e.g., email blasts, website, public hearings, open house meetings, flyers, newspaper)?

POST WORK SESSION ACTION ITEMS

READINGS AND SUPPORTING INFORMATION

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Before Work Session 2:

- Read FEMA's Local Mitigation Handbook, Task 5 pp. 5-1 to 5-20, fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- 2. Start preparing the HIRA (See further discussion below).
- **3.** If you were assigned a plan review or data collection role, please collect and distribute and be able to report back to the working group on the relevance of such data to this project either before or during the next work session.
- **4.** If you were given a writing assignment for the stakeholder engagement strategy, please complete that assignment by the agreed upon date and be prepared to report to the working group during the next working session.
- 5. Facilitator: Draft and distribute the stakeholder engagement strategy.

CONSIDERATIONS BEFORE BEGINNING THE HIRA OR LOCAL RISK ASSESSMENT PROCESS

There are some important considerations prior to developing a HIRA or local risk assessment:

- 1. Is the community covered by a hazard mitigation plan? Most counties in Colorado have an adopted local mitigation plan, and counties conducting this process can use the mitigation plan to gain valuable information on hazard risks. Municipalities may be included under the county plan. To learn more about determining whether or not your community is covered by a local hazard mitigation plan, see page 19 of the *Planning for Hazards* guide, or visit planningforhazards.com/how-do-i-assess-local-risks-hazards. If the community is already covered by an existing local mitigation plan, then this process may only require your community to update the risk assessment to focus more on local issues rather than the countywide scale.
- 2. Did the community prepare a local Hazard Identification and Risk Assessment? In addition to or as part of a local hazard mitigation plan, your community may have recently prepared a local HIRA. If that is the case, then there may be minimal effort required to update that HIRA or to develop new problem statements to start the selection process for planning implementation tools (in Work Session 3). Minor updates to an existing HIRA may include collecting additional data or conducting additional mapping to more fully understand the potential impacts of one or more hazards within your community.

- **3. What are the mapping needs?** Before going too far down the road of preparing a HIRA, you should determine the level of effort required to map local hazards. For example, perhaps you already have accurate floodplain mapping through a recent FEMA mapping process, but you could still improve landslide and/or wildfire hazard area mapping. The more localized you can map hazard areas, the more targeted you can be with your planning implementation tools. For mapping needs, determine if your community will require outside mapping assistance or if some of the mapping effort can be completed in house. Because not all hazards can be mapped, the community should determine where to focus mapping resources. Of the hazards included in the Planning for Hazards guide, the following location-specific hazards can be mapped to specific geographies:
 - o Avalanche
 - o Earthquake (based on known faults)
 - o Flood
 - Landslide, mud/debris flow, and rockfall
 - Soil hazards
 - o Wildfire

Based on these considerations, the facilitator will present such findings during Work Session 1 and tailor the meeting accordingly.

PREPARING THE HIRA OR LOCAL RISK ASSESSMENT

Following Work Session 1, the community should begin preparing a draft HIRA (or local risk assessment) for consideration by the larger working group. Depending on the scope and scale of the project your community may choose to seek outside assistance for developing or updating the HIRA or local risk assessment.

During Work Session 1, it is essential to start assigning individual roles for preparation of the HIRA to working group participants or to consultants depending on local capacity. For example, you may assign a GIS expert on your working group to mapping wildfire risk areas at the parcel level, or you may assign a staff planner to research critical facilities and identify other community assets.

A summary outline of a HIRA is provided as a handout and can be used to assign research and writing responsibilities if drafting the HIRA will be a group effort undertaken by the working group participants. This workbook suggests drafting the HIRA in several steps by breaking the drafting into manageable components, beginning with the hazard identification analysis. The hazard

Responsi	ibilities
	summary outline of a typical HIRA and can be used to assign responsible parties assignments. Responsibilities for Sections 2, 3, and 4 may not be determined 3.
Section	Description
Section 1: Hazard Identification	This section describes the various hezards that are present in the community and explains why some have been omitted from further consideration.
[responsible party]	[assignment]
Section 2: Community Assets	This section documents the community's assets including critical facilities and natural, historic, cultural, and economic assets.
Section 3: Risk Analysis	This section analyses the community's eases and describes the potential impetts and insets easesteed with each harved through reposite a weight, historical energies, and scenario analysis. This section typically requires the greatest mapping reads.
Section 4: Yulnerability Summary	This section documents the community vulnerability to dignificant hasard risks including an analysis of land use and development trends, social vulnerability, and an assessment of the community's administrative, technical, and financial copebilities.

A summary outline of the HIRA is provided as a handout, and the working group can use this to assign research and writing responsibilities.

identification component should be distributed to the working group at least two weeks in advance of Work Session 2. A typical HIRA includes the following primary components:

• **Section 1: Hazard Identification.** This section describes the various hazards that are present in the community and explains why some have been omitted from further consideration.

- Section 2: Community Assets. This section documents the community's assets including critical facilities and natural, historic, cultural, and economic assets.
- Section 3: Risk Analysis. This section analyzes the community's assets and describes the potential impacts and losses associated with each hazard through exposure analysis, historical analysis, and scenario analysis. This section typically requires the greatest mapping effort.
- Section 4: Vulnerability Summary. This section documents the community's vulnerability to significant hazard risks including an analysis of land use and development trends, social vulnerability, and an assessment of the community's administrative, technical, and financial capabilities.

As part of the HIRA or local risk assessment, the project manager and/or facilitator (or potentially a working group designee) should prepare one or more base maps that identify key structures and assets within the community. If available, the maps should also identify hazard areas and future land use categories. The base mapping will provide a foundation for transitioning from the risk assessment into determining specific hazard impacts and vulnerabilities.

WORK SESSION 2 – ASSESS COMMUNITY

PURPOSE

During this work session, the working group will discuss the results of some components of the HIRA, such as the hazard identification and potentially some early identified risks. The working group will refine the HIRA to identify potential impacts of each hazard and will identify particular community vulnerabilities based on those risks. Using maps and the draft HIRA, the community will develop and summarize the greatest issues in terms of risk and vulnerability to hazards by developing problem statements, which will be used in subsequent work sessions to identify specific planning implementation tools.

TIMING

The second work session should occur during the second or third month of the project, one or two months following the initial work session. Communities with existing HIRAs and/or local risk assessment data may move more quickly into the second work session.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Agenda
- Handout 1 Hazard frequency and severity chart
- Handout 2 Identifying community assets
- Handout 3 Community capability assessment questions
- Handout 4 HIRA summary outline and responsibilities

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 2 are provided at the end of this work session description.

1. Welcome and updates (10 minutes)

2. Follow up on Work Session 1 (10 minutes)

Recap Work Session 1 and follow up on remaining data collection and the engagement strategy. Discuss any upcoming community engagement activities relevant to this project.

3. Assess community vulnerability (75 minutes)

Discuss the types of hazards that may affect the community. This discussion should be highly interactive, with maps to record working group notes on. The facilitator will present the results of each hazard profiled in the hazard frequency and severity analysis, and then use maps to identify any necessary updates based on local knowledge. Following the discussion on hazards, the participants should spend the remaining time identifying key community assets and critical facilities (e.g., schools, hospitals, roads, bridges, grocery stores, theaters, emergency operations centers, city hall, etc.) that may influence future land use regulations and programs. Many times these assets can be identified in the community's comprehensive plan. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

4. Develop problem statements (20 minutes)

The working group will develop problem statements related to particular hazards and community vulnerabilities. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

5. Next steps (5 minutes)

Summarize any action items from the work session, provide a quick overview of what will be covered at the next work session, and discuss assignments and background reading to complete prior to the next work session.

TO PREPARE FOR THIS WORK SESSION

Planning for Hazards Guide

- Review Chapter 3 Hazard Identification and Risk Assessment pp. 13-22 planningforhazards.com/hazard-identification-and-risk-assessment
- Review the Appendix hazard descriptions <u>planningforhazards.com/hazard-identification-</u> <u>and-risk-assessment</u>

Other Resources

- FEMA's *Local Mitigation Handbook*, Task 5 pp. 5-1 to 5-20, <u>fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf</u>
- Colorado State Hazard Mitigation Plan, Section 3 Hazard Identification and Risk Assessment <u>colorado.gov/pacific/mars/natural-hazard-mitigation-plan-0</u>
- *Planning for Community Resilience: A Handbook for Reducing Vulnerability to Disasters*, available from Island Press, <u>islandpress.org/book/planning-for-community-resilience</u>

KEY ISSUES TO DISCUSS AT MEETING

ASSESS COMMUNITY VULNERABILITY

[AGENDA ITEM 3; Handout 1: Identifying Community Assets]

Review and Refine the Hazard Identification Component of the Risk Assessment

The bulk of Work Session 2 should be spent discussing local hazards identified and assessing community vulnerability. The facilitator will present the initial analysis of hazards to the working group, and use large maps to record local refinements. For example, desktop analysis of landslide

hazards in a community may reveal only a portion of slide risks. The maps allow for the working group to identify additional locations and/or refine identified slide locations to be more accurate at the local level.

Identifying Community Assets

The next focus area of Work Session 2 is to discuss community assets, or anything important to the character or function of the community. Assets may include people, the economy, the built environment, or the natural environment. For detailed descriptions of identifying community assets, refer to FEMA's *Local Mitigation Handbook*, pp. 5-9 to 5-12. For a more detailed description on assessing vulnerable populations, please refer to the *Planning for Hazards* guide, pp. 16-17 or visit planningforhazards.com/how-do-i-assess-local-risks-hazards.

People

People are certainly the most valuable asset in a community. As part of the HIRA, it is imperative to identify vulnerable populations so that the working group can compare risk to hazard with locations of vulnerable populations to the extent possible.

Economy

The participants should discuss major employers and employment sectors in the community. Consider how the impacts of a hazard or a disaster could result in direct or indirect economic losses.

Built Environment

Consider not only existing structures, but also infrastructure and critical facilities. Review of these community assets should include a discussion on the age of such assets and the level of dependency on these assets should a hazard occur. Consider areas of growth and development or redevelopment in the community.

Natural Environment

Important natural areas may include critical habitat and other areas that serve to actually reduce the magnitude of hazard events (such as protected open space). Participants should consider how these areas are linked to other community assets such as the economy and vulnerable populations.

Review Assets and Risk against the Future Land Use Map (FLUM) and Zoning Map

The future land use map (when available) should be considered when assessing the community's vulnerability to hazards. The future land use map identifies potential growth areas and is an essential consideration when making future land use planning decisions. When growth areas are overlaid with known hazard areas, the working group can identify potential conflicts and can use subsequent work sessions to develop solutions to mitigate those issues. The zoning map should also be reviewed to identify areas where greater densities may be in conflict with other policies related to hazard mitigation.

Discussion Questions

- 1. What areas are expected to see more development and/or redevelopment?
- 2. Will future population growth and development place more people in hazardous areas?
- 3. Who are the vulnerable populations in the community? Why are they vulnerable?
- 4. Can any identified vulnerable populations be isolated to a particular geography, or are they located throughout the community?
- 5. What are our most important economic drivers that could be impacted by a hazard event?

- 6. What are our most critical facilities in the community?
- 7. Do we have aging infrastructure systems that are of particular concern during a hazard event?
- 8. What types of cultural resources are significant to the community?
- 9. What are the most valuable natural areas in the community?
- 10. Are there any areas where the zoning is incompatible with hazard risk levels?

DEVELOP PROBLEM STATEMENTS

[AGENDA ITEM 4; Handout 2: Developing Problem Statements based on HIRA]

Based on the results of the hazard identification and the initial assessment of the community's vulnerabilities, the working group should develop problem statements that reflect the primary concerns related to each hazard. Problem statements summarize the risk to the planning area presented by each hazard, and can include possible methods to reduce that risk. For example, "*There are ____ properties at immediate risk to landslide in the _____ subdivision. Future development in this area will increase vulnerability to landslides. If development is pursued here, it should include adequate mitigation designed by a licensed engineer."*

In subsequent work sessions, the working group will refer back to these problem statements to develop land use planning strategies and specific tools to address such problems. For communities that have an adopted hazard mitigation plan, any problem statements in that plan should be reviewed and the working group should identify gaps or necessary updates to those statements to reflect local

Hazard	Problem Statements
Avalanche	Click here to enter text.
Drought	
Earthquake	
Flood	Eg. There are 28 identified united holities located in the 200-year floodplain. The community should look for apportunities to relocate such facilities to the entert possible.
Hazardous Material Release	
Extreme Heat	
Landslide, Mud/Debris Flow, and Rockfall	
Soil Hazards	
Wildfire	Ep, Nearly 35% of the community's parcels are located within the wildlandurban interface. Review of proposed development in these areas should be strengthened.
Wind Hazards	
Severe Winter Storms	

A worksheet for developing problem statements is provided as a handout.

conditions. FEMA-approved hazard mitigation plans often include mitigation actions in several categories to address problem statements (e.g., local planning and regulations, structural and infrastructure, natural systems, and education and awareness). This project should emphasize only those actions associated with land use planning and land use regulations.

POST WORK SESSION ACTION ITEMS

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Before Work Session 3:

- Read "Practice Safe Growth Audits." <u>planning-org-uploaded-</u> <u>media.s3.amazonaws.com/legacy_resources/zoningpractice/open/pdf/oct09</u> <u>.pdf</u>
- Read "Choosing appropriate planning tools and strategies" in the *Planning* for Hazards guide – pp. 213-214. <u>planningforhazards.com/choosing-</u> <u>appropriate-planning-tools-and-strategies</u>
- Browse the *Planning for Hazards* guide Chapter 4, Planning Tools and Strategies – pp. 23-211 to explore the types of tools to consider implementing. <u>planningforhazards.com/planning-tools-and-strategies</u>
- **4.** Browse the applicable planning tools and strategies related to your community's highest risk hazards in the Planning for Hazards guide appendix, pp. A-1 to A-47. <u>planningforhazards.com/hazard-identification-</u>

and-risk-assessment

- 5. Browse FEMA's Local Mitigation Handbook, Task 4 pp. 4-1 to 4-5, fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- 6. Browse FEMA's *Local Mitigation Handbook*, Task 6 pp. 6-1 to 6-13, <u>fema.gov/media-library-data/20130726-1910-25045-</u> <u>9160/fema_local_mitigation_handbook.pdf</u>
- **7.** Prepare the remaining components of the HIRA or local risk assessment (may require working group member participation).
- 8. Follow up on stakeholder engagement tasks.
- **9.** Facilitator: Prepare bubble map(s). (See further discussion below)

WORK SESSION 3 – ASSESS CAPABILITIES AND DEVELOP PLANNING STRATEGIES

PURPOSE

This work session is intended to explore how the HIRA can be used to reduce and mitigate hazard risk by developing or modifying the community's land use tools and strategies. Participants will identify gaps in current programs, plans, and regulations based on the community's vulnerability to hazards, and generate a list of planning strategies for consideration.

TIMING

The third work session should occur after the full draft HIRA has been distributed to the working group, or approximately during the fifth or sixth month of the project.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Agenda
- Handout 1 Problem statements from HIRA (completed by the working group in Work Session 2, and refined by the facilitator prior to Work Session 3).

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 3 are provided at the end of this work session description.

1. Welcome and updates (10 minutes)

Share relevant updates with the larger group. Discuss any upcoming community engagement activities related to this project.

2. Discuss draft HIRA or local risk assessment (30 minutes)

Discuss the full draft HIRA or local risk assessment with the working group and identify any additional gaps or opportunities to address.

3. Review community capabilities (45 minutes)

Discuss the community's current capabilities for addressing hazards based on the results of the HIRA and the problem statements from the previous work session. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

4. Discuss initial planning implementation strategies (60 minutes)

Develop goals and objectives based on the results of the HIRA and discuss the types of planning tools and strategies that could address particular concerns in the community. Using the *Planning for Hazards* guide as a benchmark for discussion, identify which potential strategies may be most critical or beneficial to consider during this implementation project. Further guidance for this discussion is provided below under "key issues to discuss at meeting." During this time, participants should report back on their review earlier assignments to review existing plans, regulations, policies, and data as they relate to hazard mitigation.

5. Next steps (5 minutes)

Summarize any action items from the work session, provide a quick overview of what will be covered at the next work session, and discuss assignments and background reading to complete prior to the next work session.

TO PREPARE FOR THIS WORK SESSION

Planning for Hazards Guide

- Read "How Do I Apply Risk Assessment Results to Planning?" pp. 23-25 planningforhazards.com/how-do-i-apply-risk-assessment-results-planning
- Review summary table of planning tools and strategies pp. 28-29 planningforhazards.com/planning-tools-and-strategies
- Read "Choosing appropriate planning tools and strategies" pp. 213-214 planningforhazards.com/choosing-appropriate-planning-tools-and-strategies
- Browse Chapter 4, Planning Tools and Strategies pp. 23-211 to explore types of tools to consider implementing. <u>planningforhazards.com/planning-tools-and-strategies</u>
- Browse the applicable planning tools and strategies related to your community's highest risk hazards in the appendix, pp. A-1 to A-47. <u>planningforhazards.com/hazard-identification-and-risk-assessment</u>

Other Resources

- Read the draft HIRA distributed by the facilitator or project manager prior to the work session.
- Read "Practice Safe Growth Audits." <u>planning-org-uploaded-</u> media.s3.amazonaws.com/legacy_resources/zoningpractice/open/pdf/oct09.pdf
- Browse FEMA's *Local Mitigation Handbook*, Task 4 "Review Community Capabilities" pp. 4-1 to 4-5, and Task 6 "Develop a Mitigation Strategy" pp. 6-1 to 6-13. <u>fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf</u>

KEY ISSUES TO DISCUSS AT MEETING

DISCUSS DRAFT HIRA OR LOCAL RISK ASSESSMENT

[AGENDA ITEM 2]

The working draft HIRA or local risk assessment, including the hazard identification, vulnerability assessment, and any completed portions of the community capabilities assessment should be reviewed with the working group. Following this Work Session 3, the HIRA or local risk assessment

should be updated to include any additional information especially as it relates to community capabilities. A final draft HIRA or local risk assessment should be distributed to the working group for use in subsequent work sessions.

REVIEW COMMUNITY CAPABILITIES

[AGENDA ITEM 3; Handout 1: Community Capability Assessment Questions]

Review Problem Statements, Goals, and Objectives from HIRA (10 minutes)

The facilitator will provide a brief overview of the problem statements and any other goals or planning objectives that were developed in Work Session 2.

Assess the Community's Capabilities for Addressing Hazards and Risk (35 minutes)

The first primary focus area of Work Session 3 is to review and assess the community's current capabilities for addressing hazards and risk. For communities with an adopted hazard mitigation plan, the working group should review and evaluate the planning and regulatory actions identified in the existing mitigation strategy and identify any gaps or necessary updates. A handout (Work Session 3 – Handout 1) is included in the supporting materials to assist with this task. For more information on assessing capabilities, read FEMA's *Local Mitigation Handbook* Task 4 – Review Community Capabilities, pp. 4-1 to 4-5.

Discussion Questions

- 1. How well do adopted policies address hazard-related issues?
- 2. Are the mitigation actions in the hazard mitigation plan still accurate and relevant?
- 3. How well do the land development regulations address hazard-related issues?
- 4. Are there other concurrent planning projects that could benefit by introducing a risk-reduction component?

DISCUSS INITIAL PLANNING IMPLEMENTATION STRATEGIES

[AGENDA ITEM 4]

Framework for Developing Planning Strategies

There are two primary organizing frameworks that were discussed in detail in the *Planning for Hazards* guide that should be considered by the working group when developing goals and planning strategies.

Planning Approaches

The first organizing framework is a high-level consideration of approaches to planning for hazards, as discussed on pages 5-6 in the guide:

- 1. **Prevent development in hazardous areas.** What types of planning strategies could help the community avoid development in areas identified as at-risk to one or more hazards per the risk assessment?
- 2. Direct future growth to safer areas. How can future investment be directed toward areas that are not at risk or are at minimal risk to hazards?

- **3. Protect existing development in hazardous areas.** How can development that is already located in hazardous areas be strengthened through additional policies or regulations?
- **4. Avoidance.** Should the community strictly prohibit development in any area within a hazard zone?

Categories of Planning Strategies

The second organizing framework to consider is the types of planning strategies that can be developed within each of the different planning approaches. The specific planning tools that will be selected in Work Session 4 fall within various planning strategies. The *Planning for Hazards* guide organizes 25 planning tools into six primary planning strategies, including:

- Addressing hazards in plans and policies
- Strengthening incentives
- Protecting sensitive areas
- Improving site development standards
- Improving buildings and infrastructure
- Enhancing administration and procedures

Each of these strategies is discussed in further detail in the *Planning for Hazards* guide, Chapter 4, <u>planningforhazards.com/planning-tools-and-strategies</u>. Although this list is thorough, these planning strategies are only a starting point for discussion. Some communities may evaluate planning tools and strategies that are not yet profiled in the *Planning for Hazards* guide.

Discussion Questions

- 1. How well is our community mitigating risk to hazards within each of the planning strategy categories (as described above)?
- 2. Are there certain types of planning strategies that have been successful in the past, or that you think would be successful?
- 3. What would help prevent growth and development in high hazard areas in the community?
- 4. What would help direct growth to safer areas within the community?
- 5. Any other ideas for reducing hazard risk through land use planning?
- 6. Are there current projects underway that could help address the HIRA problem statements?
- 7. Are any additional updates necessary to the HIRA? (E.g., additional maps, data correction, other improvements?)

POST WORK SESSION ACTION ITEMS

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Before Work Session 4:

- 1. Review the summary table of planning tools and strategies pp. 28-29 planningforhazards.com/planning-tools-and-strategies
- 2. Read Chapter 5 Moving Forward in the *Planning for Hazards* guide pp. 213-225 <u>planningforhazards.com/moving-forward</u>
- 3. Read FEMA's *Local Mitigation Handbook*, Task 6, subsections on evaluation criteria and action prioritization pp. 6-7 to 6-8, <u>fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf</u>
- **4.** Review FEMA's *Integrating Hazard Mitigation into Local Planning*, Table 2-1 beginning on page 2-4, <u>fema.gov/media-library-data/20130726-1908-</u>

25045-0016/integrating hazmit.pdf

5. Finalize HIRA or local risk assessment (may require working group member participation).

WORK SESSION 4 – IDENTIFY SPECIFIC PLANNING IMPLEMENTATION TOOLS

PURPOSE

The intent of this work session is to prioritize land use implementation tools to reduce risk to hazards. This work session can also be used to begin developing an action plan for drafting selected implementation tools. Following this work session, the project manager will lead the development of the selected planning implementation tools with involvement from working group participants and/or outside consultants, and will present drafts of the tools during Work Session 5.

TIMING

The fourth work session should occur about two months following Work Session 3, or approximately during the seventh month of the project.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Agenda
- Handout 1 Prioritization criteria (use one form for each tool under consideration)

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 4 are provided at the end of this work session description.

1. Welcome and updates (10 minutes)

Share any relevant updates with the larger group. Discuss any upcoming community engagement activities relevant to this project.

2. Planning implementation tools prioritization exercise (90 minutes)

Confirm the planning implementation tools to develop and/or update as part of this project. The facilitator will lead the group through a prioritization exercise to assist with the selection of implementation tools. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

3. Next steps (10 minutes)

Summarize any action items from the work session, provide a quick overview of what will be covered at the next work session, and discuss assignments and background reading to complete prior to the next work session.

NOTE: The planning implementation tools will be developed following this work session. If there is enough time left on the agenda, the facilitator may involve the working group in further scoping and development of an action plan for the selected planning implementation tools.

TO PREPARE FOR THIS WORK SESSION

Planning for Hazards Guide

- Review the summary table of planning tools and strategies pp. 28-29 planningforhazards.com/planning-tools-and-strategies
- Read Chapter 5 Moving Forward pp. 213-225 planningforhazards.com/moving-forward

Other Resources

- Read FEMA's Local Mitigation Handbook, Task 6 subsections on evaluation criteria and action prioritization – pp. 6-7 to 6-8 <u>fema.gov/media-library-data/20130726-1910-25045-</u> <u>9160/fema_local_mitigation_handbook.pdf</u>
- Review FEMA's *Integrating Hazard Mitigation into Local Planning*, Table 2-1 beginning on page 2-4, <u>fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf</u>

KEY ISSUES TO DISCUSS AT MEETING

PLANNING IMPLEMENTATION TOOLS PRIORITIZATION EXERCISE

[AGENDA ITEM 2; Handout 1: Prioritization Criteria]

Based on the results of Work Session 3, the working group should narrow down the list of potential implementation tools to pursue. The facilitator will walk the working group through a prioritization exercise, including methodology for evaluating potential mitigation actions (as discussed in FEMA's *Local Mitigation Handbook* evaluation criteria in Task 6, pp. 6-7 to 6-8), consideration of existing planning policies and regulations, and evaluation of the community's ability to develop an implementation tool in a reasonable time frame. These evaluation criteria ensure that mitigation actions consider potential **S**ocial, **T**echnical, **A**dministrative, **P**olitical, **L**egal, **E**conomic, and **E**nvironmental impacts.

For example, the working group may establish a need to better address wildfire hazard through zoning and subdivision regulations as an overarching need. To develop priority solutions that address that need, the working group should develop a list of planning tools that could address wildfire through zoning and subdivision (using the *Planning for Hazards* guide as a foundation).

PLANNING IMP	LEMENTATION TOOL:		
Evaluation Criteria	Discussion: It is important to consider		Notes/Scoring
Social	whether or not there would be public support for the planning implementation tool	 Community acceptance Avoida adverse impacta to population Social equity - applica fairly ecross verious geographics and aocial beckerounds 	
Technical	if the planning implementation tool is technically feasible and if it is a whole or partial solution	Technical feasibility Long-term solution or quick fix Secondary impacts	
4dministrative	If the community has the capacity to implement the tool in-house or if it would require additional resources	Stafing needs Funding allocation Heintenance and operations	
Political	the political temperature related to the environment, economic development, safety, and emergency management	Political support Public support Local champions/edvocates Alignment with policies	
Legal	whether or not the community has the legal authority to implement the planning, tool	Local, state, and federal authority Potential level challenses	
Economic	whether or not the planning tool could be funded with current or future internal and external resources and if the costs are reasonable for the type of project	Benefits vs. costs Contribution to other economic goals Outside funding required	
Environmental	the potential impacts on the environment as it relates to adopted policies	Aligned with environmental policies Builds resilience Protects natural assets	
Other potenti	al considerations:		
Would t commu	al considerations: he project solve multiple problem nity values and policies?) roject relatively easy to develop, fi		

A handout describing the prioritization criteria is included in the supporting materials.

If the short list ends up including both overlay zoning and cluster subdivision, then the working group can use the prioritization process to determine which of the two may add more value or may more directly result in risk reduction to wildfire.

Discussion Questions

- 1. Are there any planning implementation tools that are not on the list that should be considered?
- 2. What types of projects could address multiple problem statements and community objectives?
- 3. Are there social impacts associated with any of the planning implementation tools?
- 4. Are there any potential legal challenges associated with any of the planning implementation tools?
- 5. Do any of the planning implementation tools require coordination with other jurisdictions?
- 6. Who else (outside the working group) should be involved in the development and/or review of the draft tool(s)?
- 7. Do we have enough capacity among staff and the working group to develop the implementation tool without outside assistance?
- 8. How long will it take to develop the implementation tool?
- 9. How much will it cost to develop the implementation tool?
- 10. Are there other Colorado examples of this tool, and who can reach out to them to learn more?
- 11. Are there grants or other resources available that could be used toward the development of the implementation tool?

POST WORK SESSION ACTION ITEMS

READINGS AND SUPPORTING INFORMATION

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Before Work Session 5:

- Depending on the planning implementation tools selected, read the respective tool profiles and model code language (where applicable) in the Planning for Hazards guide, Chapter 4 – pp. 23-211 planningforhazards.com/planning-tools-and-strategies
- **2.** Contact individuals that should be involved in drafting and/or reviewing tool(s).
- **3.** Prepare draft planning implementation tools and distribute to working group. (*See further discussion below.*)
- **4.** Review draft planning implementation tools once distributed to the working group. Prepare to share feedback during Work Session 5.
- **5.** Participate in interim meetings if playing an integral role in the development of the planning tools selected.

DEVELOPING PLANNING IMPLEMENTATION TOOLS

Immediately following Work Session 4, the project manager (and perhaps individual working group participants and/or outside consultants) will begin developing the planning implementation tools. Additional scoping meetings may take place outside the working group and may include a subset of the working group. Interim meetings may also be held during the development of the draft tools prior to Work Session 5.

As an interim step, an annotated outline of each planning tool could be distributed to essential working group participants in advance of further drafting. An annotated outline provides a high-level summary of the contents of a proposed tool, with commentary on the content to be included within

each section and a summary of various approaches the community could consider. This interim step allows the working group to provide essential feedback to ensure that the tool will effectively address local concerns. If the working group has additional feedback either prior to or following the annotated outline review that will inform development of the tools, those individuals should contact the facilitator and/or project manager as soon as possible.

NOTE: Remember to refer to the *Planning for Hazards* guide when developing the tools. The guide includes model language for 11 of the 25 planning tools profiled, including:

- Development agreement
- Transfer of development rights
- 1041 regulations
- Cluster subdivision
- Overlay zoning
- Stream buffers and setbacks
- Stormwater ordinance
- Subdivision and site design standards
- Use-specific standards
- Application submittal requirements
- Post-disaster building moratorium

These models can be used as a starting point yet should be tailored to your community. Additional models may be developed and added to the *Planning for Hazards* website.

WORK SESSION 5 – REFINE DRAFT PLANNING

PURPOSE

The intent of this work session is to review and refine the draft planning implementation tools (such as draft ordinances) and develop a process for formal adoption or implementation of the tool once complete. Draft planning implementation tools should be distributed well in advance of this work session (two or three weeks depending on length and complexity of the tools). This work session requires the most tailoring since the focus of the meeting will depend on the types of tools selected.

NOTE: Depending on the types of tools selected, review and refinement of the drafts may require one or more additional meetings.

TIMING

The fifth work session should occur about two months following Work Session 4, or approximately during the ninth month of the project. Depending on the types of planning implementation tools selected by the working group, development of those tools may take more or less time. For example, developing a new cluster subdivision ordinance may take two months to prepare a working draft, whereas developing a new Wildland-Urban Interface (WUI) Code could take up to six months or longer. The timing of this work session will depend on how soon draft deliverables can be distributed to the working group for review and feedback.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Agenda
- Handout 1 Template (to be tailored to community)

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 5 are provided at the end of this work session description.

1. Welcome and updates (10 minutes)

Share any relevant updates with the larger group. Discuss any upcoming community engagement activities relevant to this project.

2. Review draft implementation tools (75 minutes)

The facilitator will provide an overview of the draft implementation tools and then facilitate discussion and solicit feedback for each tool. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

3. Develop process for approval and/or adoption (15 minutes)

Discuss further tool refinement and the official adoption process (if applicable), as well as immediate tasks following adoption for successful implementation and transition into using the new (or refined) planning tool. The stakeholder engagement plan may need to be revisited at this time to identify essential steps for the adoption and/or approval process.

4. Next steps (10 minutes)

Summarize any action items from the work session, provide a quick overview of what will be covered at the final work session, and discuss assignments and background reading to complete prior to the final work session.

TO PREPARE FOR THIS WORK SESSION

- Review the draft planning implementation tools distributed by the facilitator or project manager prior to the work session and be prepared to discuss feedback on the drafts.
- Read the respective tools profiles and model code language (where applicable) in the Planning for Hazards guide, Chapter 4 – pp. 23-211 <u>planningforhazards.com/planning-tools-</u> <u>and-strategies</u>,

KEY ISSUES TO DISCUSS AT MEETING

REVIEW DRAFT IMPLEMENTATION TOOLS

[AGENDA ITEM 2; Handout 1 (template)]

The facilitator will present an overview of the draft planning implementation tools, including a description of the tool's intent and purpose, applicability, and how the tool modifies existing policy or regulation, if applicable. The working group will discuss each draft planning tool to share initial feedback, identify gaps in the policies or regulations, and offer technical expertise as to required changes for subsequent iterations.

Discussion Questions

Discussion questions should be tailored to the specific type of planning tool developed. Some common questions to generate discussion may include:

- 1. Does the draft planning tool directly respond to the stated goals and objectives discussed in earlier work sessions?
- 2. Is something missing from the draft(s) that should have been included?
- 3. How does the draft tool affect existing programs, plans, or regulations?
- 4. Are there any policies and/or provisions that are not clearly understood after a thorough read?
- 5. Are there other examples that should be explored to inform the draft tool(s)?
- 6. Does the tool impact any other regulations (and need to be cross-referenced)?

IDENTIFY OUTSTANDING TASKS

[AGENDA ITEM 2]

As part of the review and discussion of the draft planning tools, any outstanding tasks or issues yet to address should be noted and assigned to either the project manager or a member of the working group.

Discussion Questions

Again, discussion questions should be tailored to the specific type of planning tool developed, and the level of edits necessary to the drafts. Questions may include:

- 1. How long will updates to the drafts take?
- 2. Who is responsible for making edits to the drafts?
- 3. Are additional resources necessary to finalize the drafts (e.g., legal and/or engineering review)?
- 4. What further steps are required to approve the drafts (e.g., resolution, adoption, staff approval)?

DEVELOP PROCESS FOR APPROVAL AND/OR ADOPTION

[AGENDA ITEM 3]

Depending on the types of tools selected, establishing a formal adoption process in the community may require meetings with elected and appointed officials, and may require public notice of such meetings. The facilitator and/or project manager should work with the appropriate staff within the community to ensure that the necessary checkpoints are met, including public meetings, public hearings, public notifications, and required staff reports. Agendas for public meetings and hearings fill up quickly, so planning ahead is essential. The approval and/or adoption process should be refined following this work session and with Work Session 6 as additional details become available.

POST WORK SESSION ACTION ITEMS

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Before Work Session 6:

- Read the "Implementation and Enforcement" subsection under "Implementing Planning Tools and Strategies"- pp.214-218 in the *Planning for Hazards* guide, <u>planningforhazards.com/implementing-planning-tools-</u> <u>and-strategies</u>
- 2. Browse FEMA's *Local Mitigation Handbook*, Task 7 Keep the Plan Current pp. 7-1 to 7-38, <u>fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf</u>
- **3.** Submit additional feedback related to draft implementation tools to the facilitator and/or project manager.
- **4.** Establish timeline for adoption/approval of planning implementation tools.

WORK SESSION 6 - ESTABLISH IMPLEMENTATION AND MAINTENANCE PROCEDURES

PURPOSE

The purpose of this final work session is to establish protocols for implementation and maintenance of the planning tools and to discuss next steps in your community's hazard risk reduction efforts. Prior to this work session, the working group will receive final drafts of the planning tools and will discuss how the tools will be administered, monitored, and amended over time and will discuss further involvement of the working group.

TIMING

The sixth (and final) work session should occur after final draft implementation tools have been distributed, or approximately one or two months after Work Session 5.

SUPPORTING MATERIALS FOR THIS WORK SESSION

The following materials will be provided for this work session:

- Agenda
- Handout 1 Ongoing Administration and Maintenance

ANNOTATED AGENDA

Supporting materials (e.g., agenda, handouts, etc.) for Work Session 6 are provided at the end of this work session description.

1. Welcome and updates (10 minutes)

Share any relevant updates with the larger group. Discuss any upcoming community engagement activities relevant to this project.

2. Discuss final draft implementation tools (45 minutes)

The facilitator will provide a brief overview of the final draft implementation tools, noting changes from the previous drafts. The working group will have the opportunity to provide any final comments on the draft materials prior to moving forward through the approval process. Further guidance for this discussion is provided below under "key issues to discuss at meeting."

3. Discuss adoption and/or approval procedures (15 minutes)

Discuss the process to obtain final approval of the implementation tool(s), whether adoption of an ordinance through city council, or by memorandum to the county administrator, for example. The schedule for making any necessary revisions and other requirements associated with the approval procedures should be clearly communicated to the working group and individual roles assigned where appropriate.

NOTE: This agenda item may have already been addressed in Work Session 5. If so, this Work Session 6 could be a quick review with updates to the adoption/approval procedures.

4. Establish protocols for ongoing administration and maintenance (30 minutes)

Discuss the administration, enforcement, and long-term maintenance of the planning tool(s). The discussion should identify resources necessary to administer the tool(s) (e.g., additional staff, budget, or computer software). The working group should also determine how success will be measured and how often the tool(s) will be evaluated.

5. Identify future risk reduction projects (15 minutes)

Discuss next steps for reducing risk in the community, which could include developing and implementing the next set of tools identified during earlier work sessions. Determine whether or not this working group will continue meeting or whether future projects would be carried forward by another group.

6. Dismiss the working group (5 minutes)

Discuss any future convening related to planning for hazards.

TO PREPARE FOR THIS WORK SESSION

Review the final draft planning implementation tools distributed by the facilitator or project manager prior to the work session. Be prepared to discuss your feedback on the final drafts. Working group participants should also look back to Work Session 4 notes and handouts to consider which planning tools that were not developed as part of this project should be considered for future implementation. Additionally, review the following reading materials:

Planning for Hazards Guide

 Read the *Implementation and Enforcement* subsection under "Implementing Planning Tools and Strategies"- pp.214-218 <u>planningforhazards.com/implementing-planning-tools-and-</u><u>strategies</u>

Other Resources

 Browse FEMA's Local Mitigation Handbook, Task 7 Keep the Plan Current – pp. 7-1 to 7-38, <u>fema.gov/media-library-data/20130726-1910-25045-</u> <u>9160/fema_local_mitigation_handbook.pdf</u>

KEY ISSUES TO DISCUSS AT MEETING

DISCUSS FINAL DRAFT IMPLEMENTATION TOOLS

[AGENDA ITEM 2]

This is the last opportunity for the working group to discuss any final edits or refinements to the draft planning implementation tools. The facilitator will provide an overview of the primary changes since previous drafts, and will open up a discussion with the working group to solicit final feedback.

ESTABLISH PROTOCOLS FOR ONGOING ADMINISTRATION AND MAINTENANCE

[AGENDA ITEM 4; Handout 1: Implementation and Maintenance Worksheet]

Planning tools are only as good as the administration, enforcement, and maintenance that support them. The working group should establish a plan for ongoing administration and maintenance of the planning tools. A handout is included in the supporting materials that will help the working group identify important considerations for long-term maintenance of the tools.

Discussion Questions

Some of the discussion questions may have been answered during earlier work sessions where implementation tools were evaluated and prioritized.

- 1. Who is responsible for administering the planning tool? An individual staff person? A department?
- 2. What types of resources will be required to effectively administer the tool (e.g., additional FTEs, increase in budget)?
- 3. Will the tool require frequent updates?
- 4. Is additional mapping required prior to being able to administer the tool?
- 5. How will the performance of the tool be measured over time?
- 6. How often should the tool be evaluated for its effectiveness?
- 7. What does success look like as it pertains to the planning tool?
- 8. What types of performance metrics should be established?
- 9. Is data available (or can it be collected) to determine compliance with performance metrics?
- 10. Who will be responsible for measuring the performance of a tool?
- 11. What other departments and/or individuals should be informed of the new tools?
- 12. When and how will the tool be updated?

IDENTIFY FUTURE RISK REDUCTION PROJECTS

[AGENDA ITEM 5]

The final discussion should focus on the next efforts that the community should pursue related to planning for hazards and risk reduction. The working group will discuss other planning tools that did not make the initial cut for this project, but would be worth pursuing in the future. Identifying these "next up" projects establishes a long-term commitment to risk reduction.

Thank you again for your commitment to strengthening Colorado communities!