

KICKOFF MEETING: CITY OF ALBUQUERQUE/ BERNALILLO COUNTY HAZARD MITIGATION PLAN



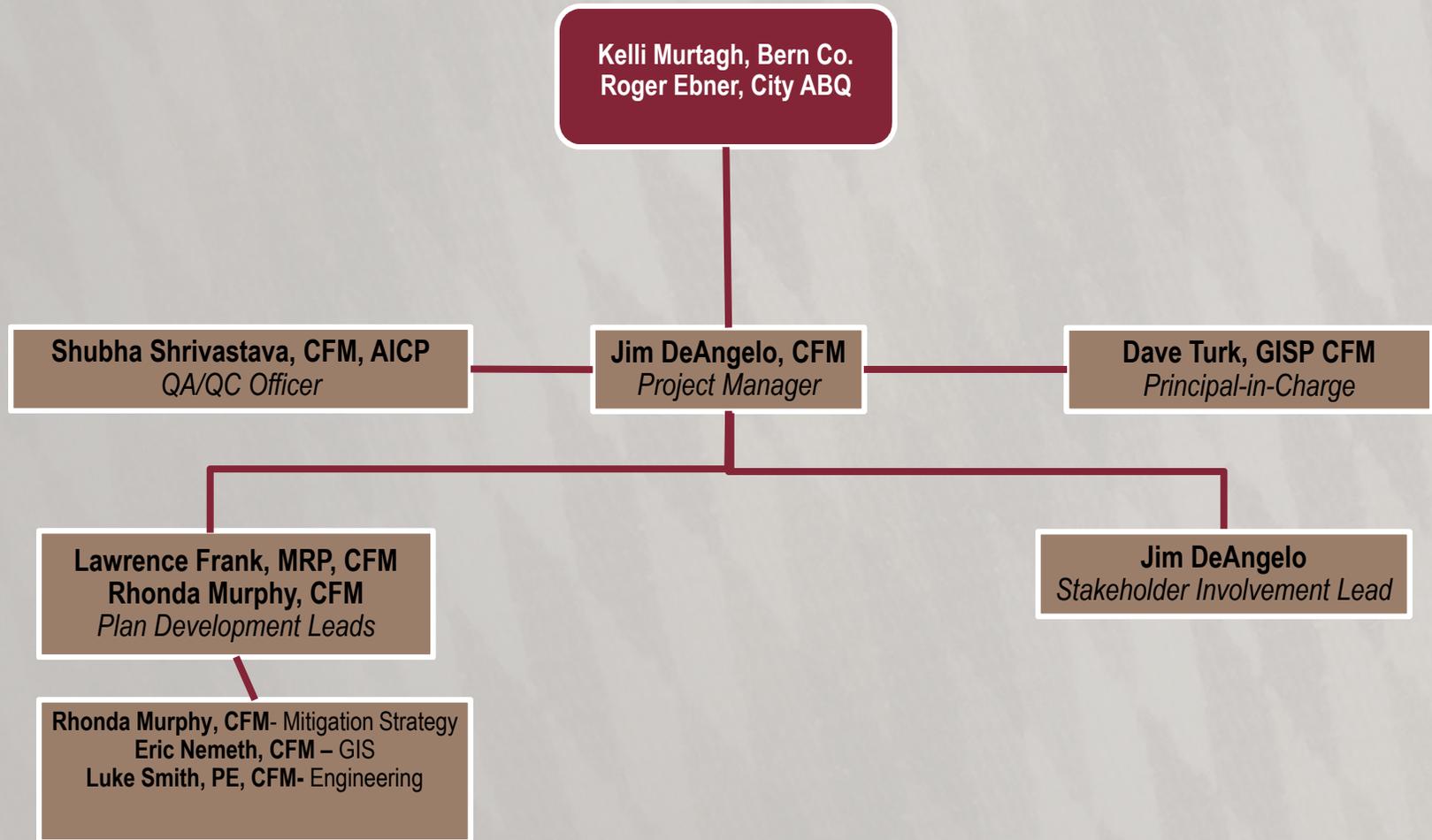
AGENDA

- Introductions
- Scope and Objectives of Mitigation Plan
- ABQ/Bern Co. Hazard Mitigation Plan Team
- Overview of the Hazard Mitigation Planning Process
- Questionnaire
- Action Items and Discussion

COMMUNICATION PROTOCOL

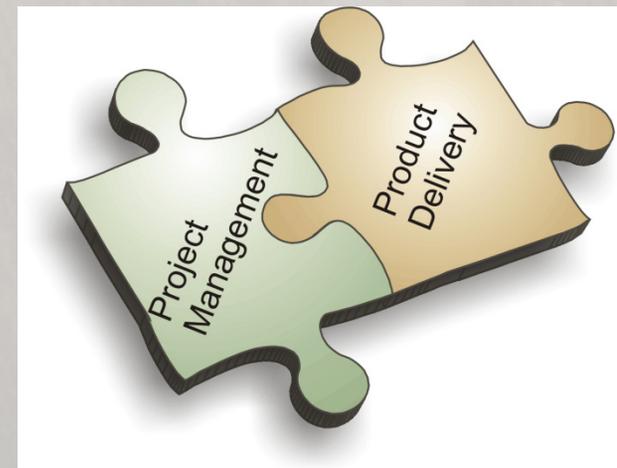
- Jim DeAngelo – URS PM and will coordinate closely with Plan Lead
- Kelli Murtagh, Bernalillo County POC
- Roger Ebner, City of Albuquerque POC

URS ORGANIZATION FOR PROJECT



PROJECT MANAGEMENT

- Deliverable Format
- Schedule- Meetings and Deliverables
 - ❖ Periodic Phone Calls
 - ❖ Risk Assessment Meeting
 - ❖ Final Meeting
- Quality Reviews



VISION AND PURPOSE

- Goal of hazard mitigation planning: Make communities hazard and disaster resistant
- Use past history and hazard map information to better plan future development
- Develop a mindset of managing risk
- “Planning has a proven ability to influence events before they occur and is an indispensable contribution to unity of effort.”
 - - From FEMA Comprehensive Preparedness Guide 101

VISION AND PURPOSE

- Protect life, health, land, property, and safety
- Avoid damages and save dollars
- Reduce vulnerability by guiding new development and redevelopment
- Preserve the Bernalillo County, City of Albuquerque, character, values and resources
- Avoid interruptions caused by hazards
- Speed post-disaster recovery

MITIGATION PLANNING CYCLE



THE PLANNING PROCESS

**Establish a
Planning Process
/ Public
Involvement
Process**



THE PLANNING PROCESS

- Identify the plan stakeholders and local champions
- Build on existing Bernalillo County/ City of Albuquerque Hazard Mitigation Plan
- Address the 14 natural hazards from the State Plan
- Record recent occurrences of these 14 natural hazards in the community since last plan update
- Conduct outreach to present vulnerability and to brainstorm mitigation ideas and collect pertinent data
- Conduct outreach to prioritize mitigation actions

DATA COLLECTION

➤ Flood Events

- ❖ Past damages – photographs and specific information like what was damaged and how high the water was in buildings
- ❖ Will review most recent flood maps

➤ Wildfire Events

- ❖ Past damages – the extent of the wildfire, what caused it and what did it damage or destroy

DATA COLLECTION

➤ Drought Events

- ❖ Past damages – the extent of the drought, damages in the community, and cost to provide water

➤ Other Hazard Events since previous Plan preparation

- ❖ Past damages by events in community



HAZARD ID, ANALYSIS & RISK ASSESSMENT

**Establish a
Planning Process
/ Public
Involvement
Process**



**Update Hazard
Identification,
Analysis and Risk
Assessment**



HAZARD ID, ANALYSIS & RISK ASSESSMENT

- Flood Risk – portrayed two ways
 - ❖ Flood maps – flood damage may also occur outside mapped floodplain
 - ❖ Flood damage history
- Flood Characteristics-
- Three types of flooding: flash flood (particularly in steep sloped areas); riverine flooding and stormwater drainage issues.
 - ❖ Monsoon season increases flooding incidents

HAZARD ID, ANALYSIS & RISK ASSESSMENT

- Wildfire Risk

- Wildfire Characteristics

- ❖ Influenced by the following:

- ✗ Density of vegetation – fuel load
- ✗ Topography (steep slopes induce greater spread of fire)
- ✗ Weather – wind, dry conditions



HAZARD ID, ANALYSIS & RISK ASSESSMENT

- Drought Risk
 - Until recently, New Mexico had some of the highest levels of drought in the country



Hazard Category	Hazard Type
<i>Atmospheric</i>	<p data-bbox="1066 250 1339 289">Extreme Heat</p> <p data-bbox="1066 350 1717 389">High Wind including Dust Storms</p> <p data-bbox="1066 451 1675 490">Thunderstorm (Hail/Lightning)</p> <p data-bbox="1066 552 1230 591">Tornado</p> <p data-bbox="1066 652 1499 691">Severe Winter Storms</p>
<i>Hydrologic</i>	<p data-bbox="1066 758 1230 797">Drought</p> <p data-bbox="1066 859 1180 898">Flood</p>
<i>Geologic</i>	<p data-bbox="1066 922 1293 961">Earthquake</p> <p data-bbox="1066 1023 1365 1062">Expansive Soils</p> <p data-bbox="1066 1123 1394 1162">Land Subsidence</p> <p data-bbox="1066 1224 1226 1263">Volcano</p> <p data-bbox="1066 1325 1255 1364">Landslide</p>
<i>Other</i>	<p data-bbox="1066 1382 1659 1421">Wildland/Urban Interface Fire</p> <p data-bbox="1066 1482 1306 1521">Dam Failure</p>

CAPABILITY ASSESSMENT

**Establish a
Planning Process
/ Public
Involvement
Process**



**Update Hazard
Identification,
Analysis and Risk
Assessment**

**Develop Capability
Assessment/Update
Vulnerability
Assessment**

CAPABILITY ASSESSMENT

- Will evaluate the laws, regulations, policies, and programs related to hazard mitigation and development in hazard-prone areas
- Develop estimated impacts on Mitigation Core Capabilities for the natural hazards of concern

CAPABILITY ASSESSMENT

- Will describe funding capabilities for hazard mitigation projects
- Will identify current and potential sources of federal, state, or private funding to implement mitigation activities

MITIGATION STRATEGY

**Establish a
Planning Process
/ Public
Involvement
Process**



**Update Hazard
Identification,
Analysis and Risk
Assessment**

**Develop Capability
Assessment/Update
Vulnerability
Assessment**

**Update Mitigation
Strategy –
Alternative Measures
& Implementation**

MITIGATION STRATEGY

- Link to Risk Assessment
- Mitigation for Existing Development / Infrastructure Protection / Natural Resource Protection
- Mitigation for Future Development
- Prioritize Actions/Implementation Assignments



MITIGATION STRATEGY THEMES

- Employ Best practices
 - ❖ E.g., infrastructure protection (e.g., roads)
 - ❖ Use flood maps and best available data
 - ❖ Modify building codes for wildfire protection
 - ❖ Natural resource protection – sediment control and re-vegetation
- Where to put future development / building codes
- Where to invest in retrofitting

MITIGATION STRATEGY

- Plan update will record Communities progress on projects listed in the last Plan



MITIGATION STRATEGY

- Addressing the Risk of Existing Development will require Mitigation Project Actions. Some examples:
 - ❖ Elevation of structure
 - ❖ Acquisition/Demolition of structure in floodplain
 - ❖ Stormwater/Drainage Improvement
 - ❖ Reroof for wildfire mitigation

MITIGATION STRATEGY

- Protecting Future Development
 - ❖ Development Restrictions (land use planning)
 - ❖ Comprehensive Planning/Capital Improvements
 - ❖ Building Codes

- For geographic-based hazards like flood and wildfire, location of development is very important
 - ❖ e.g., where possible, develop outside of mapped floodplain
 - ❖ Develop away from forested areas or the top of ridges

MITIGATION STRATEGY

- Integration with Comprehensive Plans where there are overlapping objectives
 - Fire prevention plans
 - Development Plans
 - Evacuation Plans



PLAN MONITORING AND EVALUATION



PLAN MONITORING AND EVALUATION

- Keep the planning process alive
- Evaluating its effectiveness
- How and when to update the plan
- Incorporate into Existing Planning Mechanisms
- Plan Implementation Schedule

PROJECT MANAGEMENT

Project Schedule

- ❖ Kickoff Meeting February 27, 2014
- ❖ Risk Assessment & Mitigation Action Meeting(s) June 12th 2014 (tent.)
- ❖ Draft plan review Meeting Late July 2014
- ❖ Plan to State for Review August 2014
- ❖ Plan to FEMA for approval August 2014
- ❖ Plan accepted pending adoption from FEMA September 2014



QUESTIONS?

THANK YOU!