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KAMM:

**Planning Project Application Development,
Basics, Implementation**

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FEMA Plan Types from Programs

- Pre-Disaster Mitigation (PDM)
 - Multi-Hazard Mitigation Plans
 - 75/25
- Flood Mitigation Assistance (FMA)
 - Flood Hazard Component of a Multi-Hazard Plan
 - 75/25
- Hazard Mitigation Grant Program (HMGP)
 - Multi-Hazard Mitigation Plans
 - Other
 - Funding Split Depends



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The Components of a Mitigation Plan

- For a hazard mitigation plan your deliverable will be a document.
- The document will consist of the following sections:
 - Planning Process
 - Risk Assessment
 - Mitigation Strategy
 - Plan Maintenance
- Keep in mind that the ultimate outcome of a hazard mitigation-type plan is the MITIGATION STRATEGY.
- The Mitigation Strategy is the **result** of your entire **planning process**, which merely includes the assessing of risk and the maintaining of the plan document once approved.



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FEMA Planning: FMA

- FMA Funding can only be used for the *flood hazard component* of a multi-hazard mitigation plan.
- The Babushka Doll
- CRS Plan
 - Potential to coordinate planning
- \$25,000 Federal Share for Sub-Applicants
 - \$50,000 Federal Share for Applicants
- 75/25 Split
- Communities must be NFIP participants





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FEMA Planning: HMGP

- Updating or enhancing sections of the current FEMA-approved hazard mitigation plan
 - Risk assessment update based upon new information, supporting studies, and/or economic analyses
 - Incorporating green building, smart growth initiatives, historic properties and cultural resources information, climate adaptation
 - Mitigation strategy to strengthen its linkage to mitigation action implementation, especially toward HMA-eligible projects
- Integrating information from the mitigation plan into other types of plans:
 - Disaster recovery strategy, preparedness, response plans
 - Comprehensive (e.g., master, land-use) plans
 - Capital improvement or economic development plans
 - Resource management/conservation plans (e.g., open-space, stormwater)



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FEMA Planning: HMGP

- Capability-building through technical assistance and training
- Evaluating adoption and/or implementation of ordinances that reduce risk and/or increase resiliency



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FEMA Plans: HMGP 5% Initiative

- Ineligible Planning Activities, yet eligible as 5% Initiative
 - Hazard identification or mapping and related equipment for the implementation of mitigation activities
 - Geographic Information System (GIS) software, hardware, and data acquisition whose primary aim is mitigation activity
 - Public awareness or education campaigns about mitigation project scoping or development (also referred to as “project planning”), such as BCA, engineering feasibility studies, application development, construction design, or EHP data collection
 - Activities not resulting in a clearly defined product or products



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The Planning Project Application Difference: Scope-of-Work

- Even though the end of your project ultimately will result in a deliverable, remember that FEMA is funding a *process*.
- It is literally funding the *act of planning*.
- Intensive Scope-of-Work narrative
- As you would explain how you plan to build a bridge or construct a safe room, you should be able to explain how you will plan.



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Toward a Planning Application

- Knowing the components of a hazard mitigation-type plan implies that you know to focus your application narrative explaining in detail *how* you will go about:
 - Organizing the stakeholder and public meetings that will help you with the risk assessment and provide you with your mitigation strategy;
 - Conducting a risk assessment that will help lead you to your mitigation strategy;
 - Keeping the mitigation strategy updated throughout the life of the plan.



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Toward a Planning Application

- FEMA’s HMGP application specifies how the narrative should be focused:
 - Which jurisdictions are going to be covered under the plan?
 - For which hazards are you planning?
 - Statistically, what do your jurisdictions look like?
 - How will the public be involved in your planning process?
 - How will neighboring communities, agencies, authorities, academia, private (non-profits) be involved in your planning process?
 - How will expert opinion and technical assistance be involved in your planning process?
 - How will you incorporate other planning (studies, research, technical assistance) into your planning process?
 - What does your geographic area look like?
 - How will you “maintain” your plan? Who will be responsible for this maintenance?
- FEMA’s PDM/FMA application is more open-ended.



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Toward a Planning Application

- Direct vs. Indirect Costs
- Management Costs
- In-Kind Match
- Duplication of Benefits, the Practicality of a Broad Process
- Budget Idiosyncrasies:
 - PDM and FMA = Both regulatory and informal cap on budgets for plans
 - HMGP = no line-item for “information dissemination”
 - Eligible under PDM *only*
 - Public awareness and education
 - Brochures
 - Workshops
 - Videos, etc.



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The Risk Assessment

- Risk Assessment is in service to *an argument:*

“The mitigation planning process includes hazard identification and risk assessment *leading to the development of a comprehensive mitigation strategy* for reducing risks to life and property (p. 39; III E.1.3)”





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The Logic of the Risk Assessment

- Data cannot assess risk for you.
 - What would be the point of a planning process?
- “Best Available Data”
 - Key Word: “Available.” And maybe “Best.” Also “Data.”
 - Explain the data.
 - HAZUS-MH, RiskMAP, NOAA
- Don’t be afraid of the qualitative. Argue. Make a case. Use anecdotes. Use the process. Explain how you interpret risk
- Remember these words:
 - “Impact”
 - “Extent”
 - “Vulnerability”



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Risk Assessment: Making the Case: “Impact”

- Consequences or effects from hazards
 - On people, structures, facilities, systems, capabilities, activities
 - Might be based on history (previous impacts)
 - Examples:
 - Damages (commercial, private, public, utilities)
 - Loss of power
 - Need for rescue, e.g. time spent in safe rooms
 - Loss of Function (job-loss, environmental/cultural, asset damages)



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Risk Assessment: Making a Case: “Extent”

- “Extent” of affect from hazards = *Strength or magnitude of hazard*
 - “How bad can it get?”
 - Most common examples: Enhanced Fujita Scale, Richter Scale, flood-depth grids
 - *Not the same as “impact,” i.e., monetary damages*
 - Allows room for anecdotes, context, history



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Risk Assessment: Making the Case: “Vulnerability”

- Generally, being explicit about where (to what) exactly the losses and “impacts” will occur.
 - *Identifying people, structures, systems susceptible to loss.*
 - *“An overall summary can be a list of key issues or problem statements that clearly describe the vulnerabilities that will be addressed in the mitigation strategy.”*



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Mitigation Strategy

- The plan (and planning application) links risk assessment with mitigation strategy. Will document:
 - A jurisdiction’s existing authorities
 - A jurisdiction’s policies, programs, resources
 - A jurisdiction’s ability to expand, improve above
 - *Who and how much can be devoted to mitigation.*
 - *Public works, EM staff; zoning, building codes*
 - *Budgets, taxing authorities*
 - *Comprehensive planning*



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Mitigation Strategy

- Mitigation Goals
 - Broad policy statements, essentially
 - An obvious link to Risk Assessment
- Mitigation Actions
 - Again, obvious link to Risk Assessment
 - Emphasize new buildings, infrastructure
 - Emphasize existing buildings, infrastructure
 - Action → Projects: Evaluable, Enforceable
- (Likely) Mitigation “Objectives”
 - Think categories under which actions fall
 - e.g., Remove existing structures from Flood Hazard Areas → Acquisition/Demolition



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Mitigation Strategy: FMA

- Must discuss NFIP participation and, essentially, strategies to increase compliance.
 - *Adoption of, enforcement of floodplain management*
 - *Floodplain management monitoring*
 - *Special Flood Hazard Areas construction enforcement*
 - *Potential need for updated floodplain maps*
 - *Or who has updated maps, who doesn't...*



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Mitigation Strategy

- Mitigation Action Plan
 - Discuss prioritization of mitigation actions per each jurisdiction
 - Consider Benefit-Cost Analysis (BCA)
 - Who is responsible for implementing an action?
 - What are potential funding sources for said action (beyond FEMA)?
 - At least 2 actions per identified hazard
- Essentially, a summary table
- You might want to link the existing authorities et al. to this



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Mitigation Strategy

- Integration with Other Planning
 - First, consider “future integration with other planning” as a mitigation action, too!
 - Description of how mitigation data, goals, actions, etc. will be integrated with other planning, e.g.
 - Capital improvement plans, budgets, operations
 - Zoning ordinances, subdivision regulations
 - Storm-water, natural resources, wildfire prevention, open-space
 - Updates must evaluate past and future.



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Mitigation Strategy: Project Lists

- **FEMA “Mitigation Ideas”**
- GO HERE: http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- 88 Pages, Delightful Read
- Use to guide planning meetings.
- Use as inspiration in writing your mitigation strategy → ADDs
- Each section on hazards potentially divided into 4 parts:
 - Local Planning and Regulations
 - Structure and Infrastructure Projects
 - Natural Systems Protection
 - Education and Awareness



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Mitigation Strategy: Project Lists – Flooding and FMA

- Acquisitions/Demolitions, of course (Applies near-universally)
- Improve Storm-water Drainage Capacity
 - Detention/Retention basins; relief drains; spillways; extra culverts; bridge modification
- Elevate, retrofit structures, utilities
- Floodproofing (both residential and non-residential)
 - Wet floodproofing above BFE; potentially a basement
 - Dry floodproofing
- Floodwalls, small berms, revetments, bioengineered bank stabilization → Minor flood control projects, small structures



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Mitigation Strategy: Project Lists - Landslides

- Soil Stabilization
- Large Setbacks
- Catch-Fall Nets
 - In other words, Prevent Roadway Impacts
- Acquisition/Demolition
- Here is where you might want to look for HMGP planning
 - Enhance risk assessment
 - GIS mapping of hazard areas
 - Building/Critical Facility inventories



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Mitigation Strategy: Project Lists – Earthquakes

- Seismic retrofitting for critical facilities
- Hardening lifeline systems



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Mitigation Strategy: Project Lists – Tornadoes/Severe Wind

- Safe Rooms
 - Schools
 - Daycares
 - Nursing Homes
 - New or Retrofit
- General Retrofitting of Public Buildings/Critical Facilities



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Mitigation Strategy: Project Lists – Severe Winter Storm

- This the hazard under which utilities protections are emphasized.
- Burying of Power Lines
- Generators, general redundancies
- Retrofitting buildings for snow load; prevention of roof collapse
- Safe room placement near adjacent structures (Hail)



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Mitigation Strategy: Project Lists – Wildfires

- Protecting propane tanks and other external fuel sources
- Purchasing, installing external, structure-specific water hydration systems (e.g. sprinklers); dedicated power sources; dedicated cisterns



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Plan Maintenance

- How will participation continue throughout cycle of plan?
- Provide a specific schedule and method for keeping the plan current throughout the five-year cycle.
- Assess your past plan maintenance methodology



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Compliance

- Quarterly Reports
- Amendments to Project Budget and Scope of Work
 - Any change in Scope-of-Work or Budget must receive prior approval from KYEM and FEMA
 - Scope-of-Work change only available under HMGP
 - Award modifications only available under HMGP
- Period-of-Performance:
 - Project Deadline
 - Plan Expiration Date



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Adoption and Project Closeout

- Scope-of-Work Review (Plan Review)
- Final Plan Approval
 - Adoption
- Final Payment
- Submission of Final Approved Plan Draft to FEMA
- Closeout Letter from FEMA
- File retention for 3 years from completion of project



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QUESTIONS

