**HMGP Funding Proposal**

We are working on finalizing a 2 million HMGP proposal using 5% special funds for the building inventory (Task 1), flood risk assessments (Task 3), and landslide risk assessments (Task 4).  We have been working on the proposal for the last 2 years that started with Cynthia McCoy. The HMGP submission deadline is June. Several years ago FEMA Region III selected West Virginia as a funded pilot project for the site-specific building inventory of which the feasibility study was successful.   Also Brian Penix wants me to develop a HMGP proposal for digital parcel conversion for the parcel data gaps in the State.  The AE Non-Restudy pilot project is separate from the HMGP proposals but wanted you to know how it fits in the “big picture.”

**WV Risk Assessment HMGP Project Proposal Outline**

1. **Task 1: Detailed Building Inventories**
   1. Statewide Inventory of Buildings Exposed with Replacement Costs
   2. Pin-point all site-specific buildings located within the Regulatory/Advisory Floodplains
      1. Detailed building inventory relies on GIS parcels, addresses, and assessment records for spatial and building characteristic information
      2. Building footprints would be beneficial for GIS visualization and display
2. **Task 2:  Statewide Data Development for Hazard Risk Assessments**
   1. New NFHL/Flood Risk Products
      1. Advisory Floodplains
         1. Model-Backed A Zones (contracted to AMEC)
         2. AE Non-Restudy Areas (WVU pilot study ongoing with Lee and Bob)
      2. New Restudy Areas (Future FEMA contracts)
      3. Deliverables:  Flood Hazard Areas, Base Flood Grids, Statewide Composite Depth Grid
   2. Improve local data integration for risk assessments
      1. Statewide Parcel Layer development (fill in the missing parcel gaps to achieve statewide parcel coverage)
      2. Improve state-level integration of other data sets to include addresses, best leaf-off imagery, and state government buildings
   3. Replace 2013 SAMB elevation layer with new high-resolution lidar
3. **Task 3:  Flood Risk Assessments (1% Annual Chance)**
   1. Perform county-level risk assessments for 55 counties using site-site specific building inventories for Local Hazard Mitigation Plans.
      1. In the risk assessment reports include USACE Dam/Levee failure and USGS Historical Flood Inundation maps
   2. Integrate county flood risk assessments into the WV Flood Tool and State Hazard Mitigation Plan. Include 3D Flood Visualizations of individual homes and communities for non-technical users
      1. Building footprints important for community flood models
4. **Task 4:  Landslide Risk Assessments**
   1. Develop a landslide inventory from various sources: WV GES, WV DOT, FEMA landslide buyout properties, etc.
   2. Create valid landslide models for specific WV regions
   3. Generate 55 county-level resolution landslide susceptibility maps and supplemental reports for Local and State Hazard Mitigation Plans
   4. Create an interactive web map application named the WV Landslide Tool of the landslide inventory and landslide susceptibility zones

Proposal Development History:

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| 2014 | Project concept initiated by Cynthia McCoy, FEMA Region III |
| 2015 | West Virginia selected by FEMA for Building Inventory Tool pilot |
| 2015 | The Polis Center at IUPUI Completes Project Workflow for Hazus-MH Model Building Inventory for West Virginia |
| 2016 | Flood and Landslide Risk Assessment studies completed for pilot county |
| 2016 | Preliminary proposal accepted by State Hazard Mitigation Office for state technical support services to regional and local governments for Local Hazard Mitigation Plans |

Deliverables:

Statewide inventory of buildings exposed with replacement costs

Damages estimates of buildings located in 1% Annual Flood.