

CUSEC Earthquake Program Managers Meeting

December 10-11, 2012

Louisville, Kentucky

Schedule

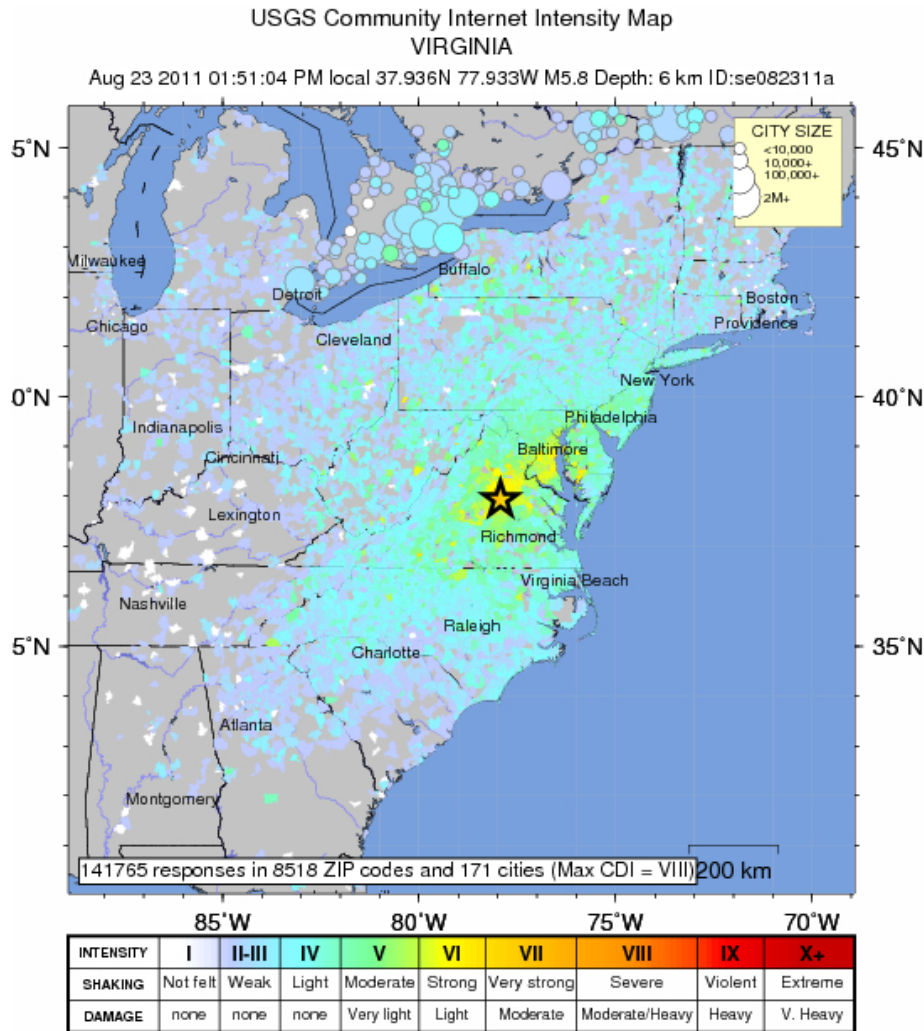
- Welcome and Introductions
- Setting the Stage
- Current Program Overviews
 - SEER, SAVE, & State Programs
- EMAC Mission Ready Packaging
- Preparing Brief Back for CUSEC Board

Why are we working on Deployable Building Inspector Resources?

- To develop EMAC based/resource-typed building inspection teams
- To identify earthquake mitigation priorities through building inventory and evaluation
- To provide an “all-hazards”, national resource
- To provide potential building inspectors training and practical experience

All will be tested and validated in CAPSTONE-14

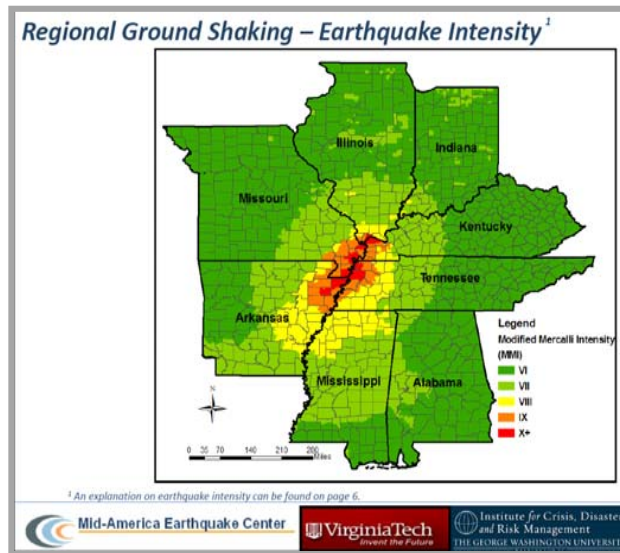
M5.8 Mineral, VA Earthquake



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- 8/23/2011
- \$150M in Damages
- 140,000 + felt reports
Maximum Intensity VII
- Building Inspectors
“imported” from CA
- CUSEC States have the
inspectors

7.7M New Madrid Earthquake Scenario



- 8 State Perspective

- 7+ Million People Impacted
- 85,000 Injured
- 3,500 Deaths
- 2M Seek Shelter

- 700K Buildings Damaged
- 32K Buildings Collapsed
- 3600 Bridges Damaged

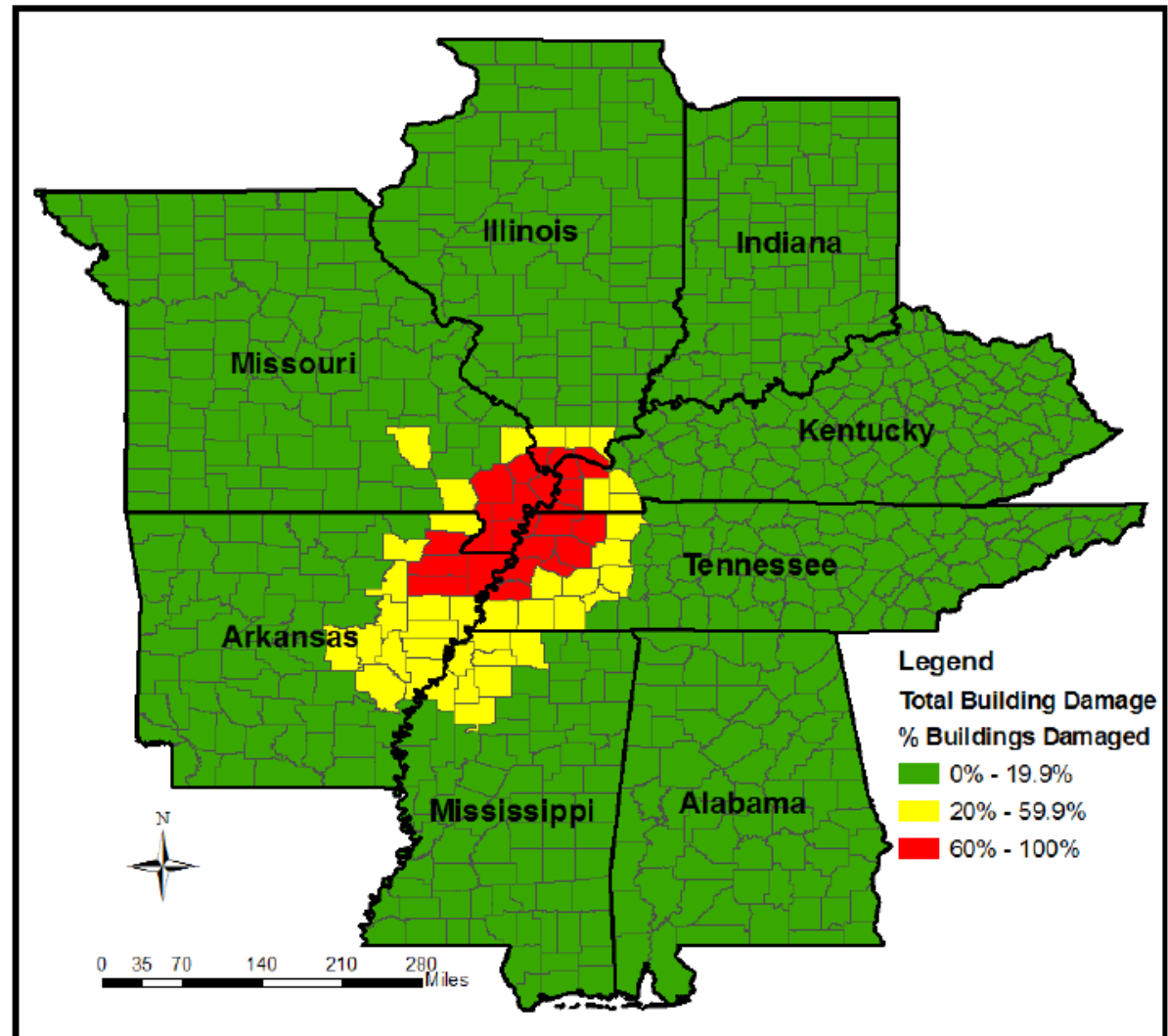
- 1,500 USAR Teams needed – 28 currently
- Critical Infrastructure
- \$300 Billion Impact
- What about cascading events?

Katrina: >\$100B / 2500 Deaths / Costliest Hurricane Ever...

General Buildings

	Total Buildings	Buildings Damaged	URM Damage	Wood Damage
Alabama	1,758,300	15,382	372	3,009
Arkansas	1,325,400	162,235	29,134	68,763
Illinois	3,655,800	44,464	10,120	17,712
Indiana	2,202,000	14,215	2,564	4,796
Kentucky	1,543,900	68,400	9,413	36,116
Mississippi	1,064,000	57,442	4,995	19,856
Missouri	2,101,900	86,838	26,772	40,185
Tennessee	2,126,600	264,198	48,880	163,577
TOTAL	15,777,900	713,174	132,250	354,014

- Though buildings are damaged throughout the entire 8-state region, the most severe damage occurs in western TN, northeastern AR, western KY, the Boot Heel of MO, and southern IL
- Roughly 25 counties are catastrophically damaged, meaning more than 60% of all buildings are damaged (colored red)
- Additionally, almost 40 counties incur substantial damage with 20% to 60% of all buildings damaged (colored yellow)



Building damage is illustrated by the percent of buildings damaged in each county. Counties with more than 60% of buildings damage are critically impacted.



- State led planning and exercise cycle
 - Extension of NMSZ Catastrophic Planning/NLE11
 - Mitigation, preparedness, response, recovery planning to support NEHRP
- Board Priorities
- Schedule of Events

Deployable Building Inspector Strategy

- Start Small
- Don't "Reinvent the Wheel"
- Work with National Engineering Community and National Emergency Mgt. Assoc.
- Broaden to:
 - Involve additional players (USACE, Transportation community, etc.)
 - Expand effort to more resource types, larger buildings, and bridges...
 - Address other significant issues: Liability, Credentialing, Training, Exercises, Inspector Database/Tracking, Post-Disaster Management

Proposed Path to CAPSTONE-14

- **Oct 2012** **Develop program overview and timeline**
- **Oct 25-26, 2012** **Safety Assessment Program Training Nashville, TN**
- **Dec 11, 2012** **Framework Development Workshop #1 Louisville KY**
- **Feb 13, 2013** **CAPSTONE-14 Concepts/Objectives, Orange Beach AL**
- **Mar 6, 2013** **Private Sector CAPSTONE-14 Integration Workshop/
Framework Development Workshop #2 (location TBD)**
- **Jun 5, 2013** **CAPSTONE-14 Initial Planning Conference (location TBD)**
- **Dec 11-12, 2013** **CAPSTONE-14 Mid Planning Conference/
Framework Development Workshop #3 (location TBD)**
- **Mar 4-5, 2014** **CAPSTONE-14 Final Planning Conference (location TBD)**
- **Jun 16-20, 2014** **CAPSTONE-14 Regional Exercise**

Today's Agenda

- Post-Disaster Engineer Deployment
 - Chad Fischer (NCSEA)
- SAVE Coalition
 - Benjamin Ross and Steve Besemer (Missouri)
- State Building Inspector Program Assessment
 - CUSEC State Earthquake Program Managers
- *Draft Mission Ready Package*
 - *Leon Shaifer (NEMA)*
- Prepare Back-Brief to CUSEC Board
 - Chad Fischer, Leon Shaifer, and Cecil Whaley