

A NEW MISSION:

MILITARY / INDUSTRY PARTNERSHIP IN POST-DISASTER BUILDING SAFETY EVALUATION

June 28, 2023, 10:30 a.m.









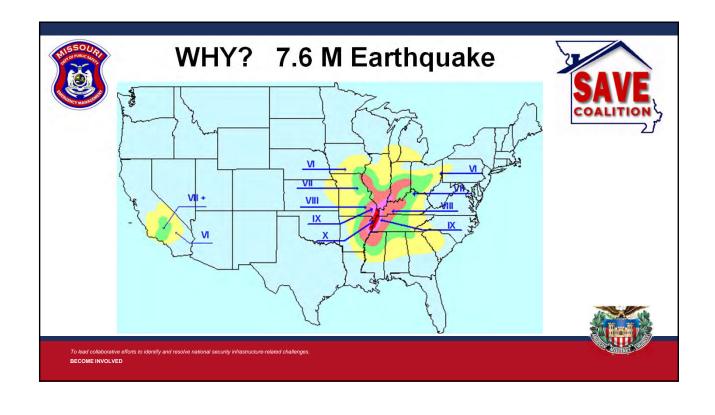


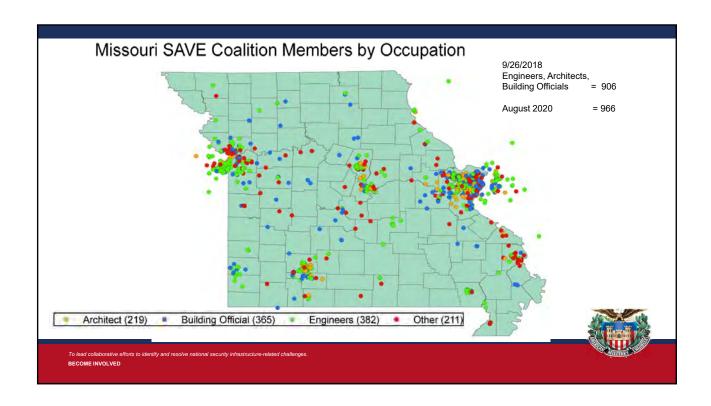
Idea to Develop a Relationship with Missouri National Guard













Missouri S.A.V.E. Coalition



SAVE Coalition Implemented by RSMo 44.023

SEMA Authorized to Establish Volunteer Inspection Program



To lead collaborative efforts to identify and resolve national security infrastructure-related challenge.

DECOME NAVOEVED



Missouri S.A.V.E. Coalition

S.A.V.E. Volunteer Service



Duration = **Up to 5 days**

Liability = Willful & Gross

Negligence Only

Duty With = Local Jurisdiction

Expenses = Local Jurisdiction

Reimbursement

Workers Compensation = State





Missouri SAVE Coalition



It Starts With ATC-20/45 **Training**

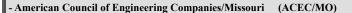






Missouri S.A.V.E. Coalition

The S.A.V.E. Board of Directors Come From the **Coalition's Participating Professional Organizations:**



- American Institute of Architects/Missouri -(AIA/MO)

- American Society of Civil Engineers -(ASCE)

- Missouri Society of Professional Engineers -(MSPE)

Structural Engineers Association of Kansas & Missouri -(SEAKM)

- Earthquake Engineering Research Institute -(EERI)

- Society of American Military Engineers/St. Louis Post (SAME)

- Missouri Seismic Safety Commission -(MSSC)

(MACE) **Missouri Association of Code Enforcement -**

What S.A.V.E. Does

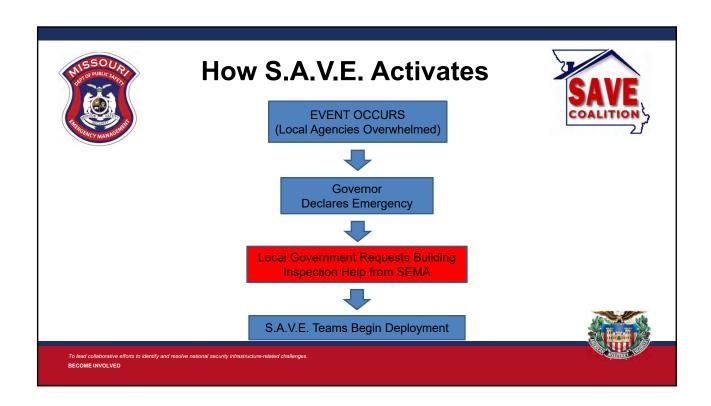
- Mostly Rapid Visual Inspections per ATC-20 and ATC-45
- Exterior Only, Structural Life Safety
- Public Information and Warning Post Placards:







Joplin EF-5 Deployment Data used by FEMA, Missouri National Guard, NIST, and ASCE Researchers





SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

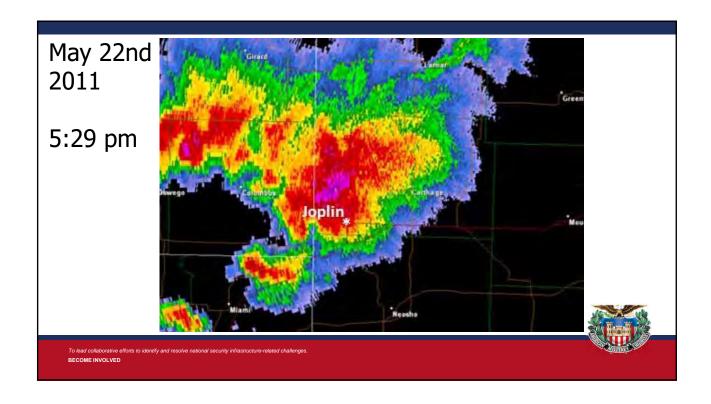
Joplin EF-5 Tornado Deployment

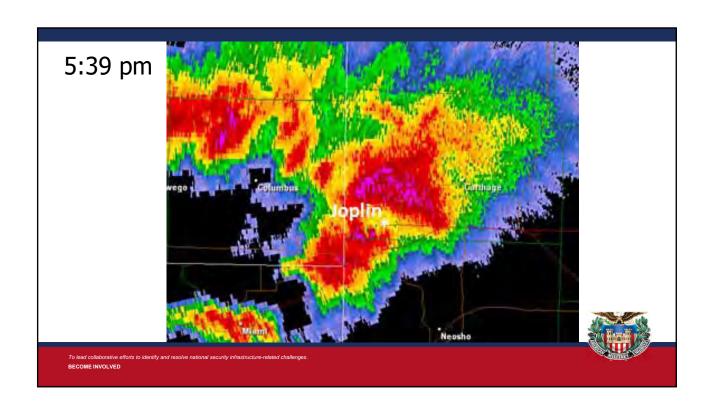
May 25 – 28, 2011

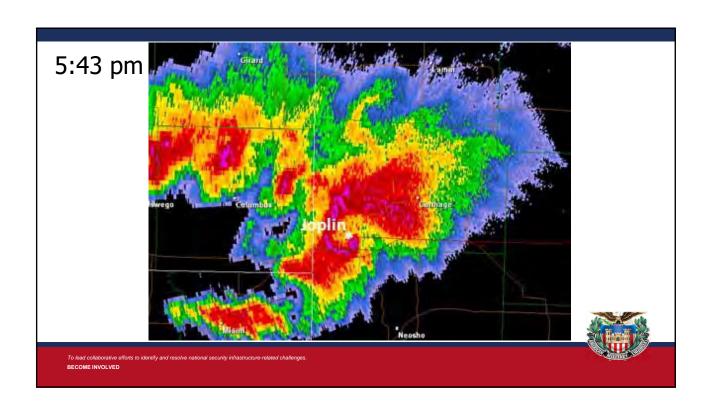


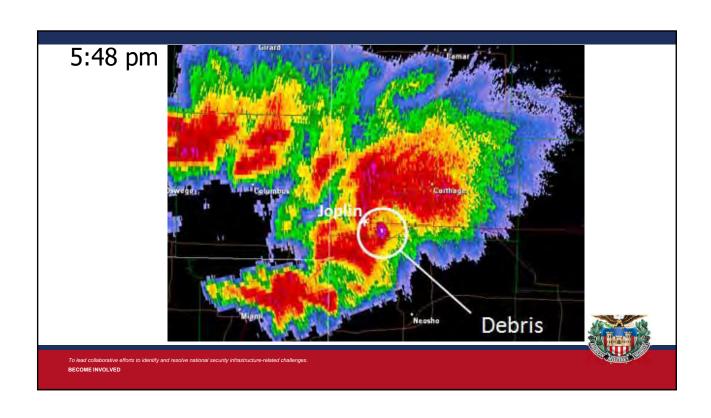












Joplin EF-5 Tornado Deaths

Preliminary Locations of Deceased	# of Victims	Preliminary Locations of Deceased	# of Victims
Residences - single family	54	Pizza Hut	5
Greenbriar Nursing Home	21	Harmony Heights Baptist Church	3
St. John Regional Medical Center	15	Wal-Mart	3
Outside (6 in vehicles)	14	Meadows Healthcare Facility	2
Residences - apartments	11	Stained Glass Theater	2
Unknown	8	Academy Sports Store	1
Home Depot	8	AT&T store	1
Full Gospel Church	7	Officer killed in the line of duty	1
Elks Lodge	5	TOTAL	161





State of Emergency Declared

"As a state, we are deploying every agency and resource available to keep Missouri families safe, search for the missing, provide emergency medical care, and begin to recover."

Gov. Jay Nixon



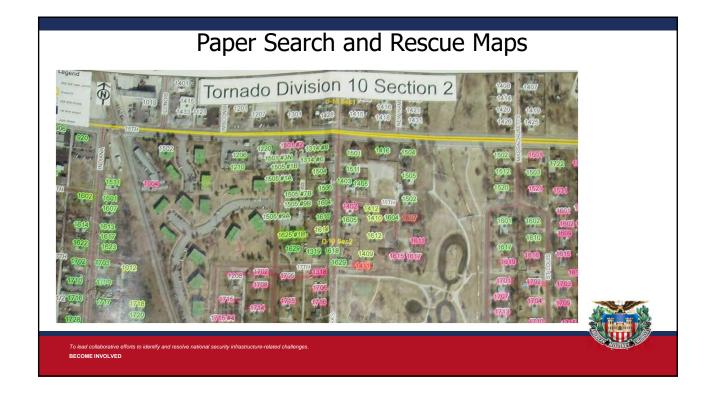
To lead collaborative efforts to identify and resolve national security infrastructure-related challenges

Joplin EF-5 Event Time Line

- May 22nd 5:41 pm Tornado Strikes
- May 22nd 5:42 pm Search and Rescue Efforts Begin
- May 23rd 8:10 am S.A.V.E. Regional Coordinators Begin Phone Tree Call Down
- May 24th 10:39 pm City of Joplin Requests Building Inspection Help from SEMA
- May 25th 10:19 am S.A.V.E. SW Regional Coordinator Deploys to Joplin
- May 26-28 S.A.V.E. Inspection Team Deployment







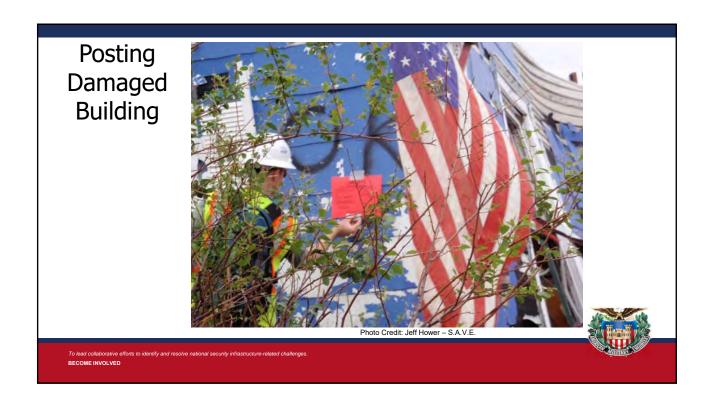


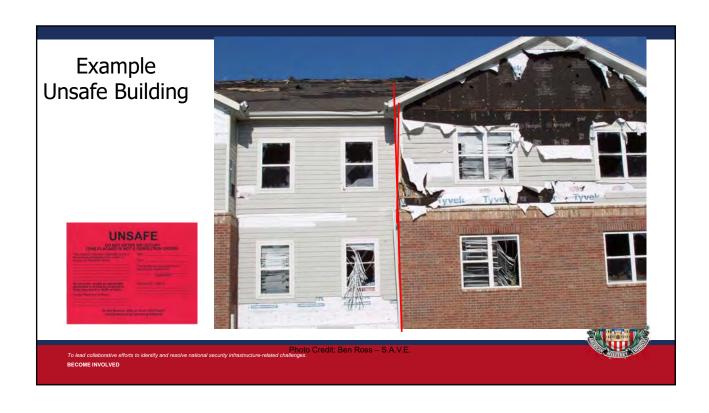






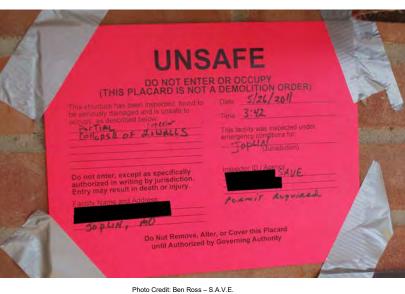








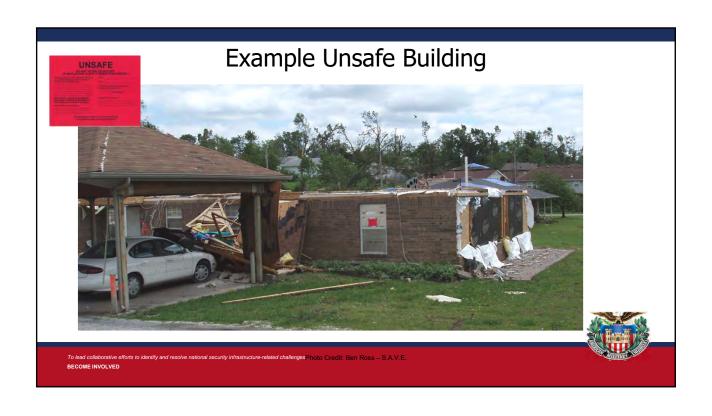




Progress Board -End of Day



Photo Credit: Ben Ross – S.A.V.E.









To lead collaborative efforts to identify and resolve national security infrastructure-related challenge⊋hoto Credit: Ted Pruess – S.A.V.E.





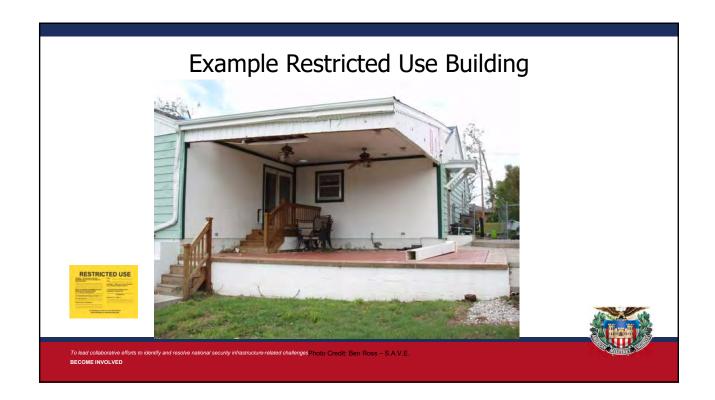
To lead collaborative efforts to identify and resolve national security infrastructure-related challenges Photo Credit: Ben Ross – S.A.V.E

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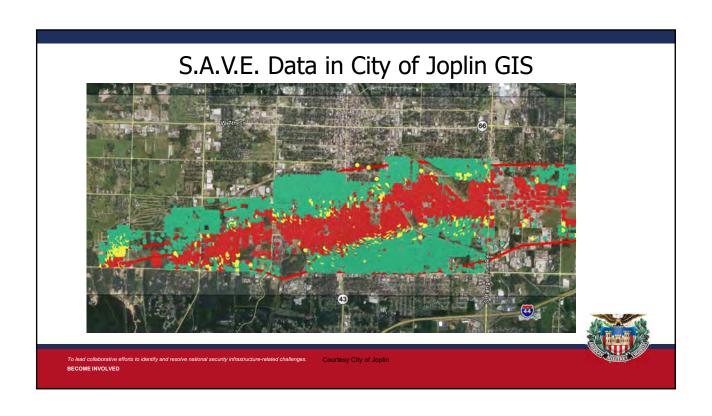
UNSAFE

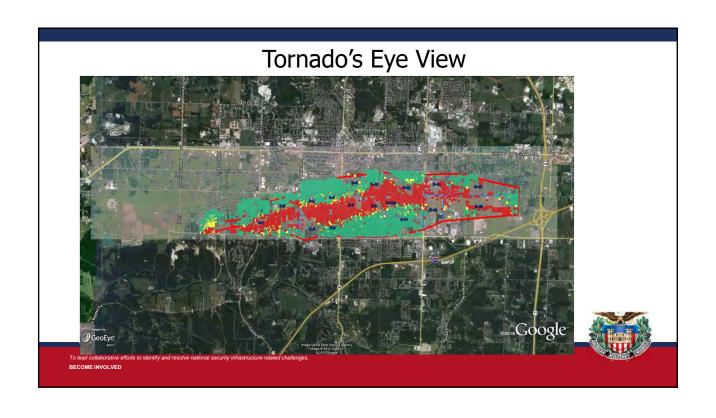












Results

More than 7,700 Structures Evaluated/Inspected



36% Unsafe



6% Restricted Use



58% Did Not Present Life Safety Problems



To lead collaborative efforts to identify and resolve national security infrastructure-related challenges.

Joplin Building Official Steve Cope Thanking S.A.V.E. Members



To lead collaborative efforts to identify and resolve national security infrastructure-related challenges Photo Credit: Ben Ross - S.A.V.E

BECOME INVOLVED

Lessons Learned

- S.A.V.E. Program Worked Well
- An Automated Volunteer Communication System is Needed
- Automated Data Collection is Needed
- Better Transportation
- Formal SAVE Leader Training





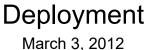
GPS Data Collection



SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

Branson EF-2 Tornado

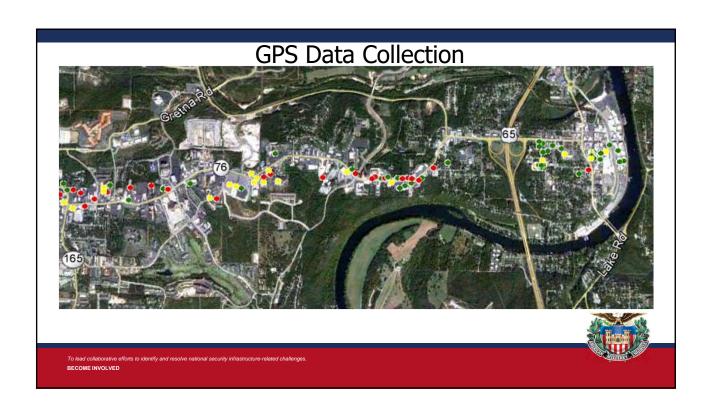




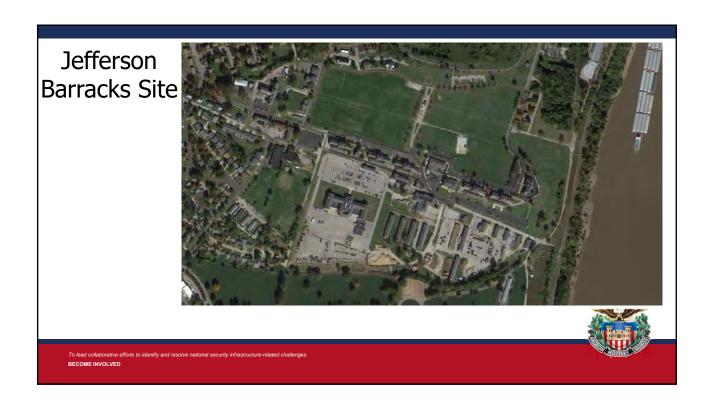




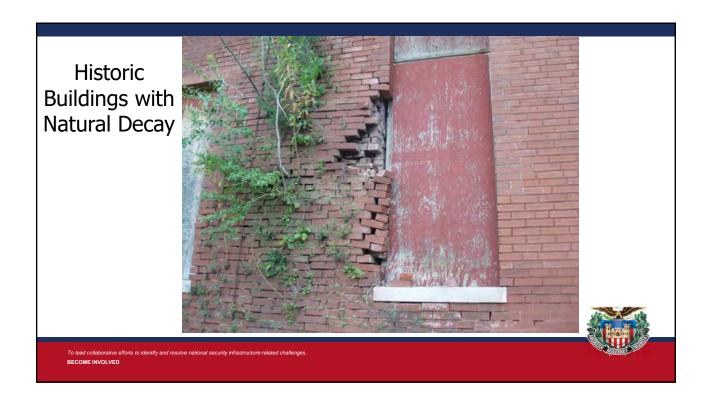


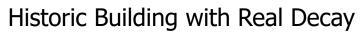
















To lead collaborative efforts to identify and resolve national security infrastructure-related challenge.

POST AFTER-SHOCK





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Senior Leadership Support

"What most impressed me was the teamwork. We had folks from many states working together to organize this drill, inspect the buildings and report the findings, and they did a great job." - Ron Walker, SEMA Director



Check-In and Team **Assignments**





GPS and Collector
App
Briefing



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BECOME INVOLVED



Collector App Dashboard



Real 3.4M Earthquake in New Madrid



"All of a sudden, a picture fell off the wall. We didn't know what had happened," Orr said.

Myers said the earthquake occurred just one day after EMA officials had participated in the annual Great Central U.S. ShakeOut drill at area schools.

"This earthquake is a reminder one can happen at any time. That is why we practice earthquake drills," Myers said.



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SEMA S.A.V.E.

Carter Co. / Van Buren, Missouri Flash Flood Deployment



May 3, 2017





SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

Jefferson City and Cole County **EF-3 Tornado Deployment**

May 24 – 25, 2019

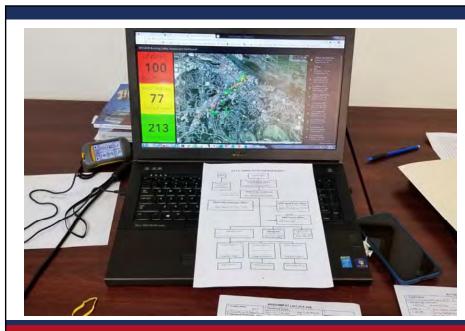






Extent of Damage





Data Collection Methods



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BECOME INVOLVED

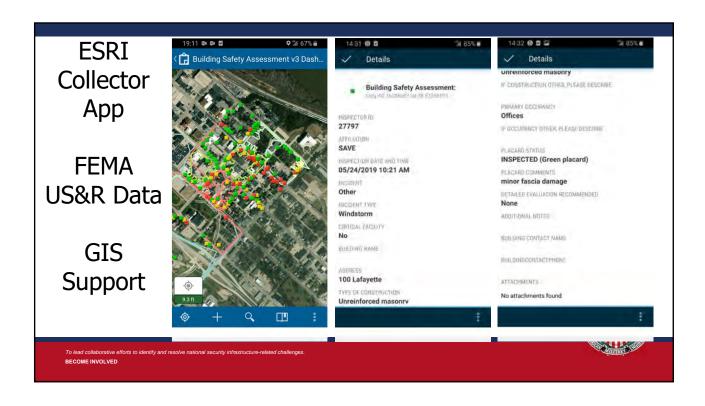


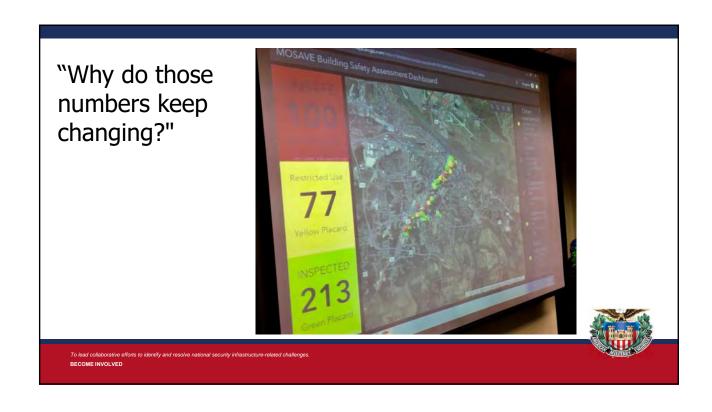
S.A.V.E. GPS Track



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BECOME INVOLVED







S.A.V.E.
Technical
Supervisor
Visits Team in
the Field



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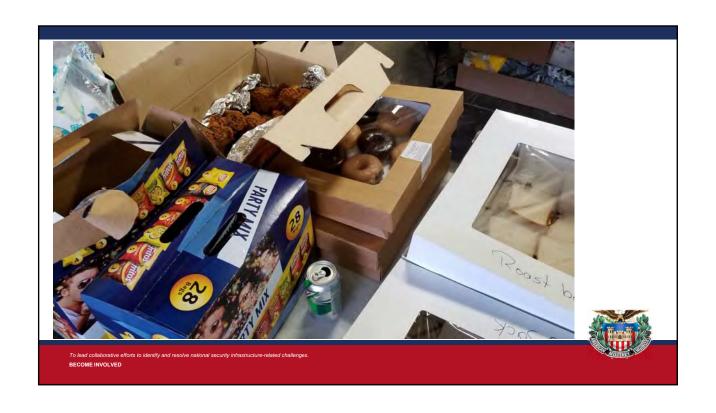


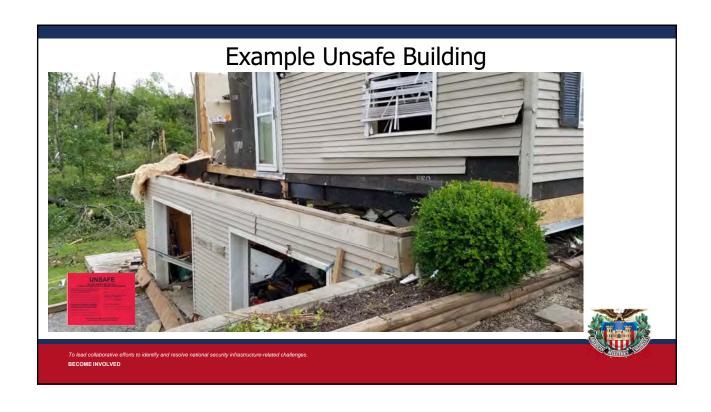
Law Enforcement Support



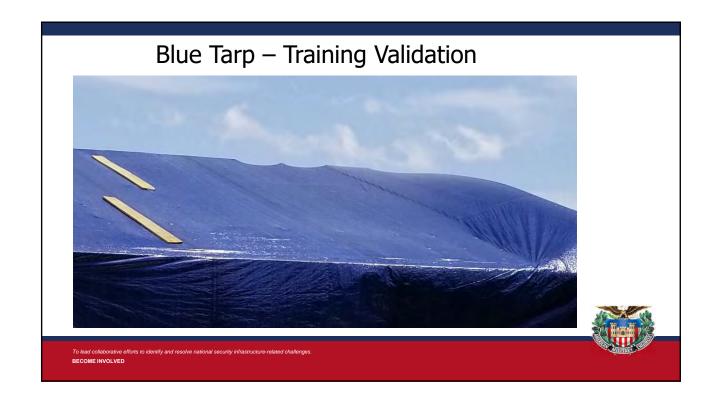
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BECOME INVOLVED

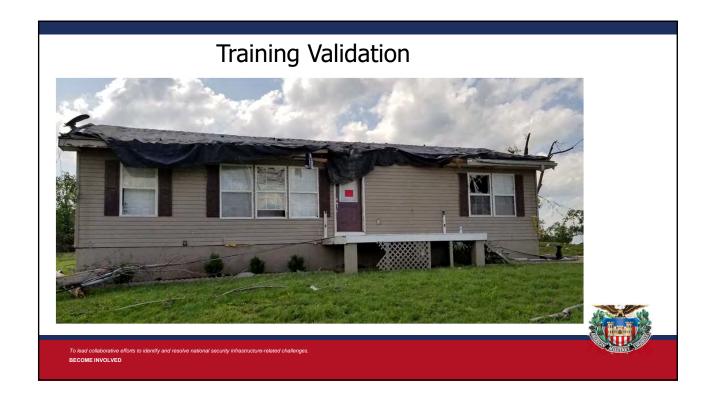






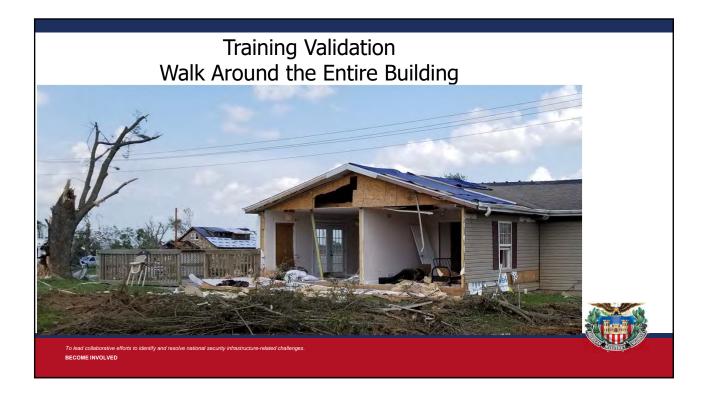












Lessons Learned/Learning

- Pre-Deployment Coordination
- Logistical Support
- GIS Support (City, State, Federal)
- FEMA Urban Search and Rescue Data
- Law Enforcement Support
- S.A.V.E. Leader Training Validated
- S.A.V.E. Program Worked Well



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Ponce, Puerto Rico – 6.4 M Earthquake + 40 days

To lead collaborative efforts to identify and resolve national security intrastructure-related challenges.

Photo Credit: Ben Ross – S.A.V.E.



Ponce, Puerto Rico – 6.4 M Earthquake + 40 days

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Photo Credit: Ben Ross – S.A.V.E

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Ponce, Puerto Rico – 6.4 M Earthquake + 40 days

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Photo Credit: Ben Ross – S.A.V.E

2021 Missouri Shakeout Earthquake Exercise

Jefferson Barracks, Missouri







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Photoshop Damage



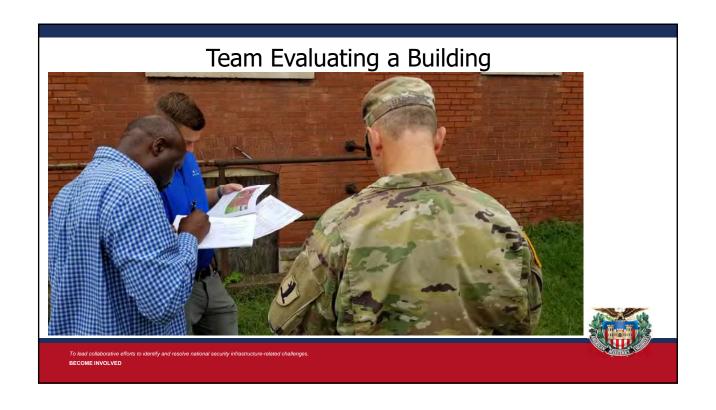
AREA 3 - BUILDING #46- PHOTO #1







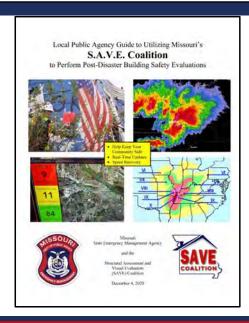
















Questions?





