

Transportation Workshop

Air,Rail,Waterways,Roadways,Fuel

Oct. 21, 2013

Transportation Sector
Planning Meeting

TEMA State
Emergency Operations
Center (SEOC)

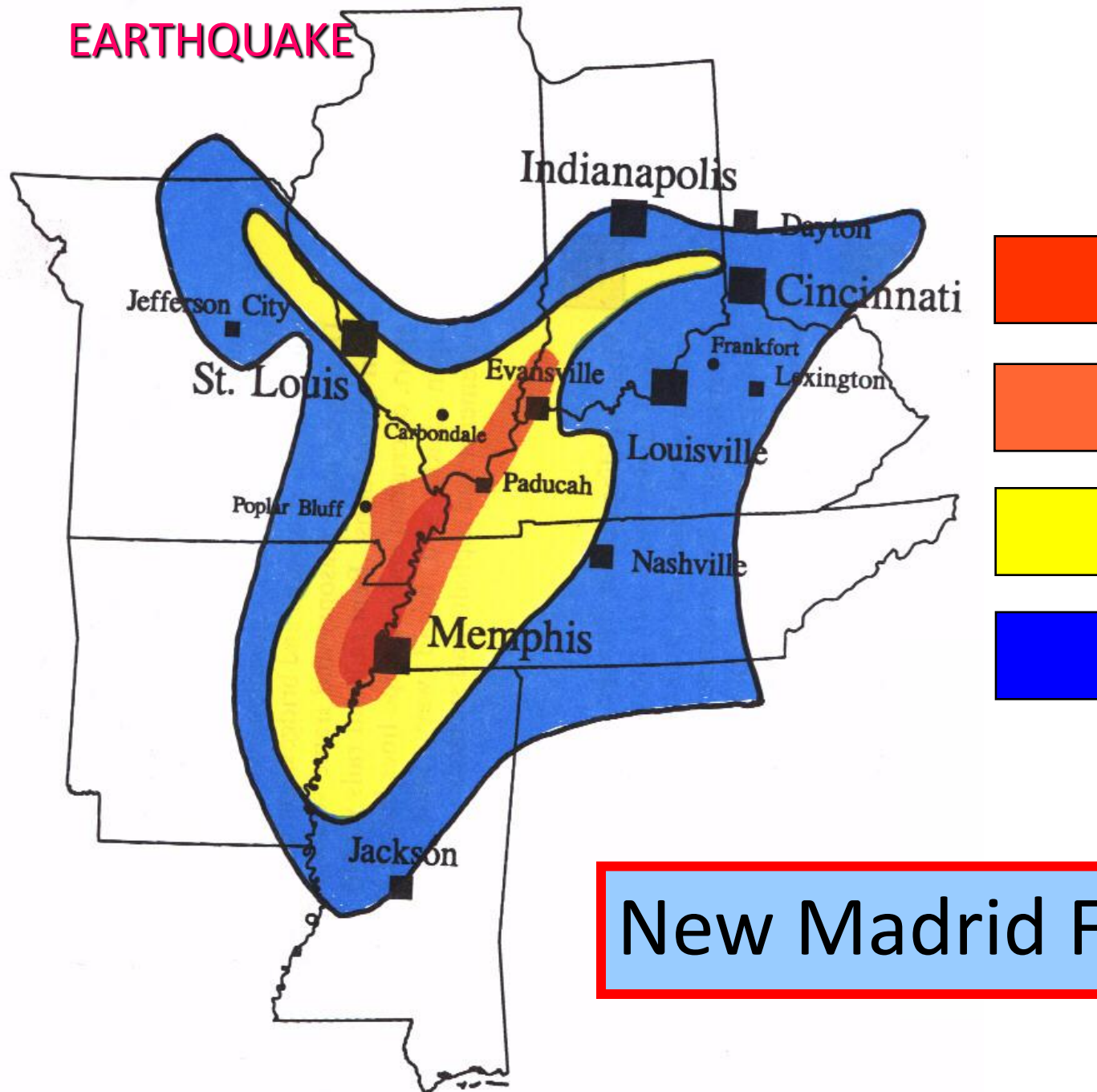


History of New Madrid

- During the winter of 1811 & 1812, 3 of the most powerful earthquakes to strike the North American Continent occurred within the New Madrid Seismic Zone.
- The area was sparsely populated, however, historical accounts said the great quakes, rang church bells in Boston....., caused the Mississippi River to run backwards, etc.....
- Scientist tell us this is an active fault system, hundreds of earthquakes occur annually. There is evidence of other great earthquakes within the New Madrid Seismic Zone. Study has shown that the New Madrid has a history of producing “cluster” quakes and that the repeat of the large quakes of 1811 & 1812 are slight (5 to 10 percent in the next 50 to 90 years), but it could occur and it is more likely (50 to 90 percent) that a quake of a 6 or 7 magnitude is much more likely.

If a major quake were to occur, effects could be far reaching.

EARTHQUAKE



New Madrid Fault



EARTHQUAKE

- New Madrid Seismic Zone is hit with massive magnitude 7.7 super earthquake. Still developing story indicates severe destruction in a large area of the Central U.S.
- Electric power and phones are lost across the Region.

TRANSPORTATION GRINDS TO A STOP



- BRIDGES AND MAJOR ROADWAYS ACROSS THE REGION ARE IMPASSABLE IN MANY LOCATIONS, PERHAPS FOR WEEKS.
- MAJOR AIRPORT FACILITIES AND RUNWAYS HAVE DAMAGE.
- RAILROADS AND WATERWAYS ARE CHOKED WITH DEBRIS AND WILL TAKE MANY WEEKS TO RESUME TRAFFIC.

The Nation is stunned.



- Regional Earthquake Challenges
- Large fires reported in Metro Center areas
- Reports of Liquefaction in the Rural and Metro Center areas



Mid-America Earthquake Challenges:

- Wide spread Haz/Mat fires reported through out many communities.
- Wide spread liquefaction in West TN, Ark., Missouri, KY, Illinois.



BREAKING NEWS



NMSZ South

- CUSEC States begins assessing the catastrophic disaster
- Massive fires, water systems fail
- Several hundred feared dead and thousands injured



Private Sector

- Several media outlets across the region are reporting the lack of electricity is having a crushing impact on businesses and retail and fuel.
- Most ATMs and banks are not operational.





Traffic hasn't moved !

- I-24, I-55, I-65 and the I-40 corridor is seeing massive traffic issues.
- Fuel is scarce due to lack of electricity and rumors of panic hoarding.



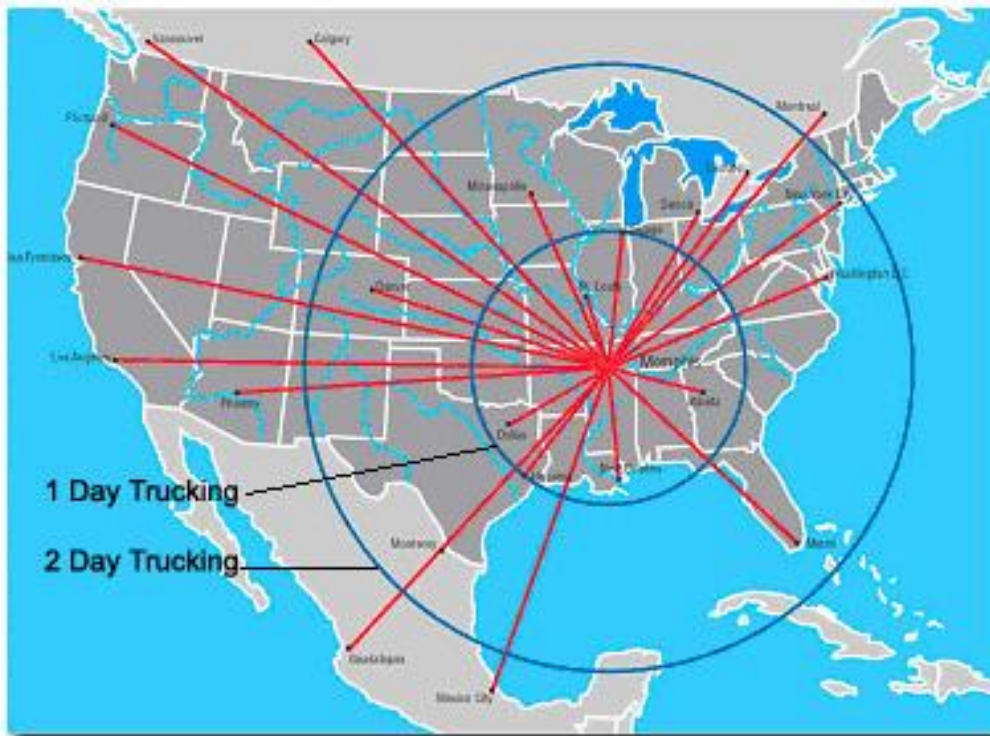
LSA's – Log Staging Areas

- Each state is preparing for staging operations
- Several locations across the states are set for several massive response equipment staging areas



Fuel for operations will be scarce

- The earthquake and following aftershocks continue to impact national logistical support operations



Power Grid Down



- Local EMAs and Power utilities are reporting large numbers of power poles and transmission lines down across the states.
- The shear failure volume is creating a cascading effect rolling across states.
- **All States in Eastern US affected.**

THE WAY FORWARD!

After viewing this New Madrid Earthquake Scenario – We would like for each of YOU to identify what you think would be the individual stumbling-blocks that would face your Department or Agency or corporation in re-establishing your business.



Let's Talk Issues

- We want you to tell us what issues you think would be of most concern to you.
- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

ISSUES

- Do smaller Company's have different response barriers to this type of scenario than mega-corporations?



- Access granted at the State level may not translate into Access on a local level.

ISSUES

- What Federal and State DOT regulations (i.e. weight, length) can be waived so that emergency response can take place?



- FUEL – FUEL – FUEL

No fuel source is available, how does the private sector access fuel sources to respond? How do State , Federal and local governments get fuel for life-saving emergency response?

Access ISSUES

- The real issue may not be identification – It may be ability for ACCESS to the Region.

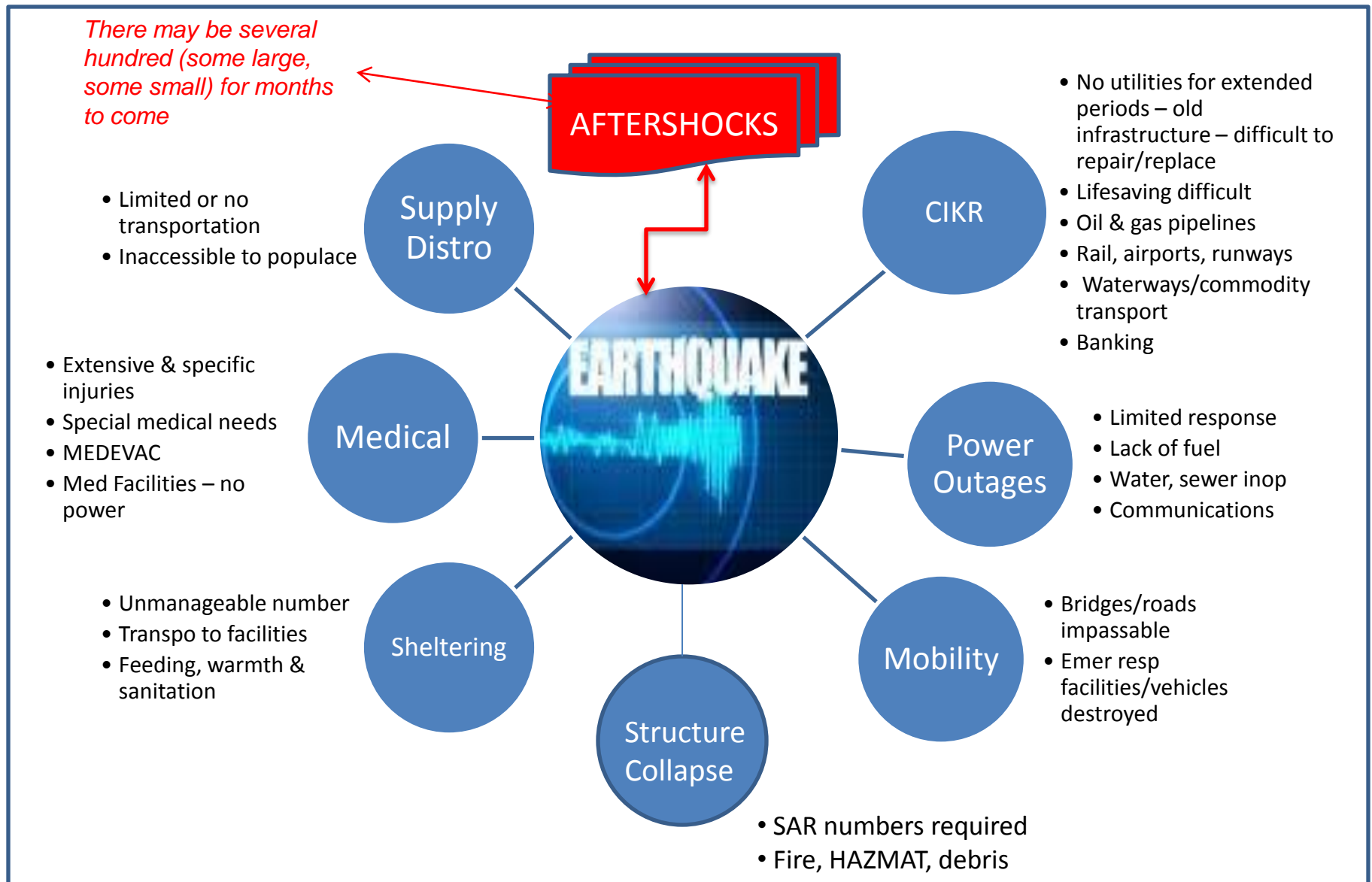


- Can identification credentials actually be timely tracked and data-based by thousands of Businesses and Transportation sub-contractors?

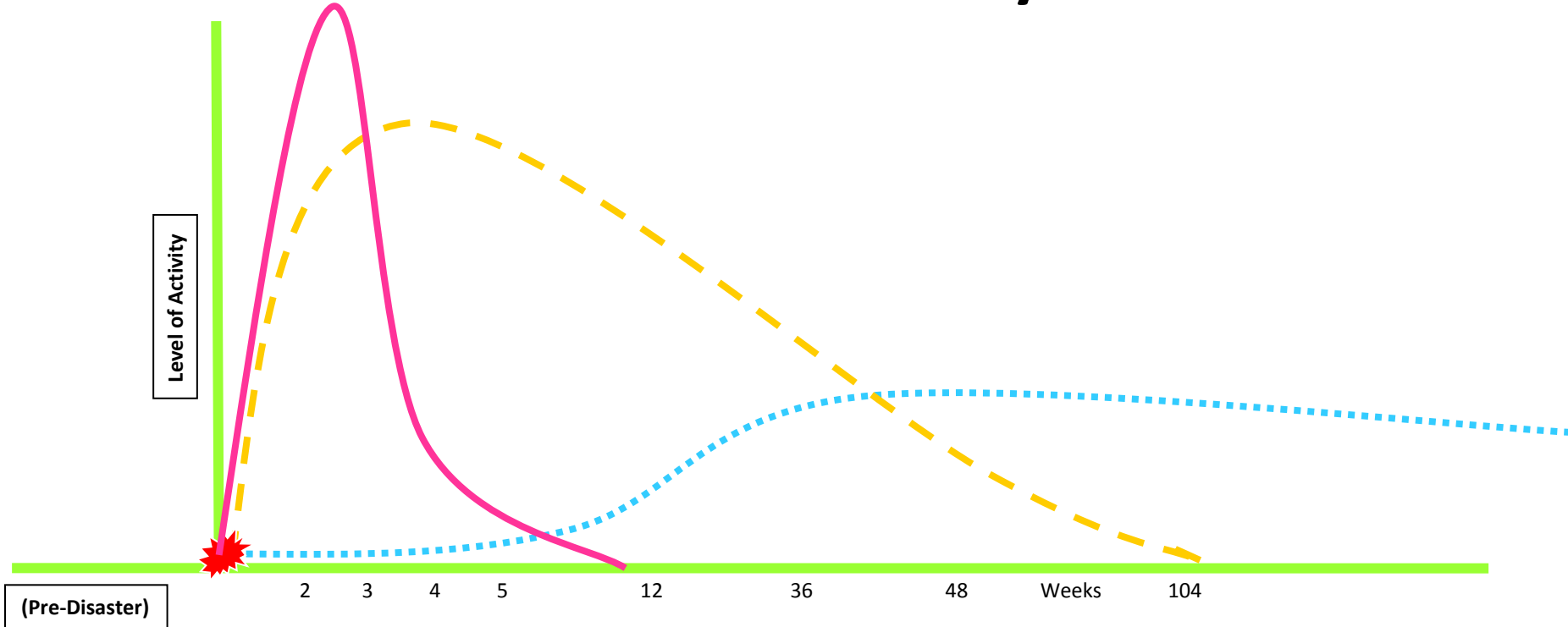
ISSUES

- To gain Access and then exit from the disaster areas, Private Sector partners may need to be totally self-sufficient (i.e. fuel, food, water). How can you overcome this obstacle?
- How will State, Federal and local government agencies become self-sufficient? Resources and equipment stockpiles are expensive to maintain in these budget-tightening times.

Earthquake – Cascading Effects (Examples)



Who and When Do You Really Need Access?



Emergency Phase

Situation Assessment
 Initial Impact Assmt.
 Em. Public Information
 Command & Control
 Search & Rescue
 Emergency Medical
 Fire Suppression
 Emergency Access
 Hazmat
 Volunteer Management

Sustained Em/Restoration Phase

Debris Removal
 Public Information
 Emergency shelter
 Building Inspection
 Damage Assessment
 Demolition Decisions
 Temporary Housing
 Public Access
 Donations Management
 Critical Facilities Restoration

Recovery & Reconstruction Phase

Public Information
 Rehabilitation
 Debris Disposal
 Land Use/Re-use
 Permanent Housing
 Financing Recovery
 Business Recovery
 Repair Codes
 Rebuilding
 Mitigation



