

PRESENTED BY TEXAS TECH UNIVERSITY

TAMEST **NATURAL HAZARDS SUMMIT**

*Responding
to and
Mitigating
the Impacts*

LUBBOCK, TEXAS

05.16.2022

#NATURALHAZARDSSUMMIT

Panel:

National Policies of Emergency Response: Trauma, Health Facilities and Case Study

MODERATOR



**HANADI RIFAI,
PH.D.**

John and Rebecca
Moore Professor of
Civil and Environmental
Engineering
University of Houston

SPEAKERS



**MOISES
DUGAN**

Region 6 Deputy
Administrator
Federal Emergency
Management Agency
(FEMA)



**ANDREA M.
JACKMAN, PH.D.**

Senior Consultant
in Data & Risk
Sciences
ABS Group, Inc.



**KARIN PRICE,
PH.D.**

Chief of
Psychology
Texas Children's
Hospital

From Storm Chaser to Management Consultant...

2003:

Porter County, Indiana seeks undergraduate meteorology major to help with climatology requirement in new DMA HMGP program

2004:

Dr. Kishor Mehta seeks brilliant (and humble!) incoming graduate students for new multi-disciplinary PhD program in wind science and engineering

2008:

FEMA seeks process consultants to implement Congressionally-mandated compliance with PKEMRA 2006

2012:

FEMA Hazus seeks mitigation engineers to modernize the program and integrate with FIMA

Still seeking: Measurement

TAMEST NATURAL HAZARDS

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SUMMIT

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HOUSTON

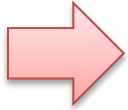


Quiz! – Are we good at response?

Hurricane Katrina

COVID-19

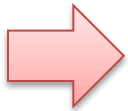
LOCAL



Poor – sheltering, public awareness, leadership

???

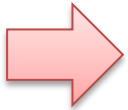
STATE



Very good – successful ground evacuations

???

FEDERAL



Very good, just not what you heard (Coast Guard)

Congress says FEMA has done a great job!

When we don't measure ourselves, politics and media do it for us

How to mitigate a response?

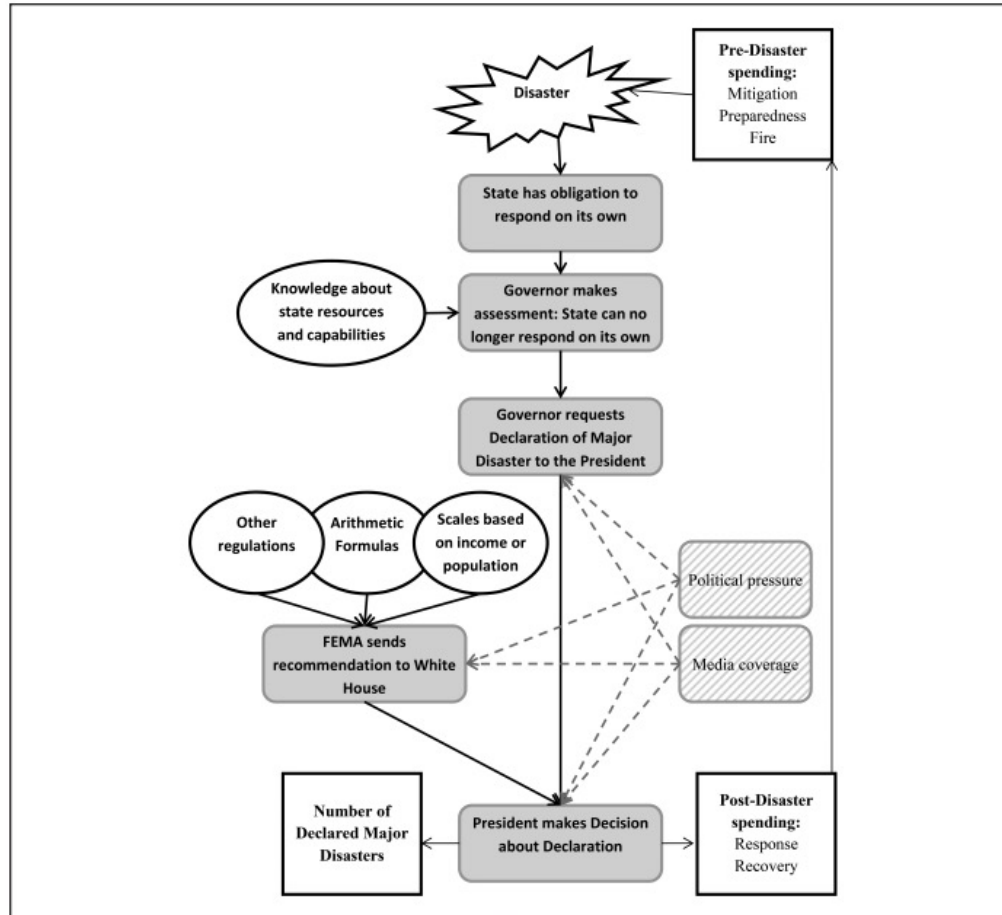


Figure 4. Major disaster decision making process. ^{S(p25)}

- What are success criteria for response?
- We created the processes (Stafford Act?) – do they work?
- How can response be simplified or eliminated altogether? Is it possible through mitigation?
- Is the all-hazards approach the best one? Some hazards are more predictable than others, and management is prediction!
- What is the ideal role for the federal level, who might have the most financial interest in local mitigation but the least power to implement it?